Appendix A

2024 Annual Offsite Sampling Plan

Appendix A
2024 Annual Offsite Sampling Plan
Fort Hall Mine Landfill

Well ID	Easting^ (x-coordinate)	Northing^ (y-coordinate)	Elevation (feet msl)	Screen Start (feet bgs)	Screen End (feet bgs)	Minimum Purge Volume (gallons)	Field parameters*	VOCs (8260D)	Sample plan starting 2023	Sampled in 2023	Sampling Method
City of Pocatello Municipal Supply Wells											
Muni-Well-14	589854.12	421658.16	4470	Unknown	Unknown	5000	1	1	Include - Biannual	No	tap
Muni-Well-33	593063.94	418259.59	4510	56	115	5000	1	1	Include - Biannual	No	tap
City of Pocatello Monitoring Wells											
PA-1	596644.63	415607.75	4503	128.5	148.5	1.2	1	1	Include - Annual	Yes	Hydrasleeve
PA-3	596636.44	415606.15	4503.23	47.5	67.5	0.6	1	1	Include - Annual	Yes	Hydrasleeve
PA-4	596422.76	415438.08	4518.65	100	110	0.9	1	1	Include - Annual	Yes	Hydrasleeve
PA-8	596893.98	415920.84	4489.87	77	87	0.7	1	1	Include - Annual	Yes	Hydrasleeve
Domestic Supply Wells											
RW-2076F	603437.23	410006.10	4568	N/A	N/A	113	1	1	Include - Annual	Yes	tap
RW-2140H	601376.86	410184.78	4557	N/A	N/A	400	1	1	Include - Annual	Yes	tap
RW-2151H	601048.98	410194.52	4571	123	180	300	1	1	Include - Annual	Yes	tap
RW-2172F	603451.12	410506.72	4545	N/A	N/A	100			Include - Biannual	Yes	tap
RW-2172H	601343.83	410331.91	4552	100	113	300	1	1	Include - Annual	Yes	tap
RW-2203H	600946.89	410582.10	4542	Unknown	Unknown	0.8	1	1	Include - Annual	Yes	Hydrasleeve
RW-2213F	603003.31	410689.99	4533	Unknown	Unknown	200	1	1	Include - Annual	Yes	tap
RW-2237H	600946.28	410646.63	4532	Unknown	Unknown	300	1	1	Include - Annual	Yes	tap
RW-7200P	602934.13	410945.27	4512	133	138	275			Include - Biannual	Yes	tap
RW-7505P	601500.56	410668.29	4536	Unknown	Unknown	300	1	1	Include - Annual	Yes	tap
RW-7549P	601215.93	410767.15	4524	Unknown	Unknown	300			Include - Biannual	Yes	tap
RW-7677P	600430.68	411242.85	4523	Unknown	Unknown	100	1	1	Include - Annual	Yes	tap
RW-7773P	599798.81	411863.98	4528	Unknown	Unknown	100			Include - Biannual	Yes	tap
RW-8012P	598779.95	412267.43	4521	80	90	200			Include - Biannual	Yes	tap
RW-8030P	598670.00	412304.15	4521	Unknown	Unknown	200	1	1	Include - Annual	Yes	tap
RW-8048P	598316.55	412447.03	4523	130	150	300	1	1	Include - Annual	Yes	tap
RW-8284P	598141.93	412556.97	4524	Unknown	Unknown	300	1	1	Include - Annual	Yes	tap

Notes

Domestic well sampling is contingent upon continued consent to access.

Offsite Bannock County monitoring wells are usually 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

Abbreviations

bgs - below ground surface

msl - mean sea level

VOC - volatile organic compound

Appendix B

Field Documentation

Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/19/2024 FID ☐ PID ☑ In Casing (ppm) Initial: Vented to:

Well ID: Muni-Well-14 Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

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

Sample Time: 13:10

Sample ID: Muni-Well-14-20240619 Comments: Ran well briefly earlier today. Prior it had not been run for approximately one year. We ran the pump for approximately 1 min prior to readings approximately every 2 minutes. Sampled before stabilization to avoid flooding the neighborhood

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
13:05		18.64	7.37	816	9.46	175	145		
13:06		16.45	7.34	794	10.8	185.6	598		
13:08		15.04	7.33	791	10.98	187	505		
13:09		14.27	7.31	789	10.96	185	664		

CDM Smith
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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/19/2024 FID ☐ PID ☑ In Casing (ppm) Initial: Vented to:

Well ID: Muni-Well-33 Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

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

Sample Time: 13:28

Sample ID: Muni-Well-33-20240619 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
		11.48	7.35	790	9.57	168.5	1.41		
13:23		12.07	7.47	797	10.6	167.8	1.87		
13:26		11.21	7.34	784	10.35	164.7	1.72		

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Groundwater Monitoring Well Passive Sampling Data Sheet

Site Name: Bannock County Date: 7/25/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: PA-1 Purging/Sampling Device: Hydrasleeve Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): 41.09 Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: None

Sample Time: 10:10

Sample ID: PA-1-20240725 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:10		17.6	7.5	693	9.8	143.5	8.52	NA	

Groundwater Monitoring Well Passive Sampling Data Sheet

Site Name: Bannock County Date: 7/25/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: PA-3 Purging/Sampling Device: Hydrasleeve Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): 41.63 Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: MS/MSD

Sample Time: 10:00

Sample ID: PA-3-20240725 Comments: Due to volume constraints, only 8 vials were collected for the MS/MSD

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:00		25.9	7.34	728	7.92	148.2	75.81	NA	Due to volume constraints, only 8 vials were collected for the MS/MSD

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Groundwater Monitoring Well Passive Sampling Data Sheet

Site Name: Bannock County Date: 7/25/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: PA-4 Purging/Sampling Device: Hydrasleeve Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): 56.92 Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: None

Sample Time: 09:35

Sample ID: PA-4-100-110-20240725 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
09:35		21.4	7.26	771	7.33	162.4	20.98	NA	

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Groundwater Monitoring Well Passive Sampling Data Sheet

Site Name: Bannock County Date: 7/25/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: PA-8 Purging/Sampling Device: Hydrasleeve Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): 29.81 Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: Duplicate

Sample Time: 10:35

Sample ID: PA-8-77-87-20240725 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
10:35		20.4	7.96	468	8.81	141.8	420	NA	

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/19/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0.1

Well ID: RW-2076F Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 18:55 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 19:45

Sample ID: RW-2076F-20240619 Comments: End of day, sampled despite 2 parameters failing stabilization for health and safety

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
19:05		15.86	7.38	671	6.38	146.7	2.71		
19:10		14.98	7.39	661	6.15	261.9	13.3		
19:15		15.16	7.42	664	6.48	372.8	8.73		
19:20		15.67	7.43	666	6.15	417.2	8.35		
19:25		15.75	7.43	665	6.31	462.9	7.33		
19:30		15.52	7.44	665	6.43	496	4.54		
19:35		15.35	7.44	664	6.26	521.9	6.73		

Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-2151H Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 10:53 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 12:20

Sample ID: RW-2151H-20240618 Comments: Spigot broken, homeowner aware
Purge end 1153
Pump cycles between clear and rusty water. Turbidity stabilization would not have been possible. Parameters and samples collected in the same clear cycle

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
12:10		10.95	6.99	1131	8.01	23.1	17		
12:13		10.68	7.1	1141	8.67	23.1	12		
12:16		10.66	7.09	1134	8.6	25.1	20.6		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0.3 Vented to: 0.2

Well ID: RW-2172H Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 10:32 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 11:35

Sample ID: RW-2172H-20240618 Comments: Sample from hose at purge flow rate because there is no flow control here.

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
10:02									
11:09		11.9	7.07	1211	5.96	36.6	0.85		
11:14		12.04	7.07	1216	5.8	22.6	0.67		
11:20		12.04	7.06	1216	6.13	24.1	0.79		
11:25		11.92	7.07	1218	5.94	26	0.66		

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Groundwater Monitoring Well Passive Sampling Data Sheet

Site Name: Bannock County Date: 6/19/2024 FID ☐ PID ☑ In Casing (ppm) Initial: _____ Vented to: _____

Well ID: RW-2203H Purging/Sampling Device: Hydrasleeve Pump Depth (ft bgs): _____

Initial Static Water Level (ft BTOC): 55.1 Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): _____ QC Samples Collected: _____

Sample Time: 18:00

Sample ID: RW-2203H-20240619 Comments: _____

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
18:00		13.4	7.59	1034	3.2	129.9	223	NA	

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-2213F Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: MS/MSD

Purge Start Time: 12:46 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 13:20

Sample ID: RW-2213F-20240618 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
13:05		11.81	7.44	671	7.11	55	4.07		
13:10		11.82	7.41	666	6.59	55.9	2.53		
13:15		12.08	7.41	665	6.49	58.6	0.52		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-2237H Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 09:09 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 09:50

Sample ID: RW-2237H-20240618 Comments: Purge end 0932
Final purge vol 300 gal

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
09:39		11.77	7.16	1022	7.17	136.2	1.11		
09:45		11.83	7.19	1010	7.21	136.6	1.06		
09:51		11.82	7.18	1004	7.08	134.7	1.63		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-7505P Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected: Duplicate

Purge Start Time: 16:43 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 17:35

Sample ID: RW-7505P-20240618 Comments: Purge stop 1713

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
17:16		11.53	7.71	659	11.83	97.1	4.6		
17:20		10.65	7.37	659	9.4	107.3	1.56		
17:24		10.75	7.44	656	8.9	102.2	2.7		
17:28		10.75	7.33	656	9.4	101.6	3.21		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: Vented to: 1.3

Well ID: RW-7677P Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 17:38 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 18:15

Sample ID: RW-7677P-20240618 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
17:50		11.82	7.25	906	8.56	108.8	0.8		
17:55		11.49	7.27	901	7.84	112.9	0.52		
18:00		11.37	7.25	898	7.84	115.7	0.46		
18:05		11.34	7.25	899	7.84	115.5	0.46		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-8030P Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 15:23 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 16:10

Sample ID: RW-8030P-20240618 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
15:35		11.45	7.23	882	10.56	122.3	17		
15:39		10.41	7.27	866	9.73	113.5	11		
15:44		10.33	7.28	861	9.4	105.7	6.19		
15:47		10.28	7.37	860	9.48	99	6.22		
15:51		10.37	7.19	862	9.52	106.1	3.04		
15:56		10.39	7.27	863	9.33	101.1	3.07		
16:03		10.45	7.16	863	9.15	107.2	0.95		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0 Vented to: 0

Well ID: RW-8048P Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 13:00 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 14:00

Sample ID: RW-8048P-20240618 Comments: Quickbase showing parameters not stabilized. Manual check confirmed parameters stabilized.

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
13:27		12.9	7.36	960	9.99	87.7	3.76		
13:32		12.97	7.17	950	7.79	96.5	0.68		
13:37		13.26	7.07	875	7.51	104	0.91		
13:42		13.24	7.01	910	7.4	106.7	0.08		
13:48		13.49	6.97	959	7.48	105.4	1.12		
13:53		13.69	7	961	7.21	100.5	0.82		

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Groundwater Monitoring Well Low-Flow Sampling Data Sheet

Site Name: Bannock County Date: 6/18/2024 FID ☐ PID ☑ In Casing (ppm) Initial: 0.3 Vented to: 1

Well ID: RW-8284P Purging/Sampling Device: Offsite Tap Pump Depth (ft bgs):

Initial Static Water Level (ft BTOC): Analytical Parameters: VOCs (8260D)

Final Water Level (ft BTOC): QC Samples Collected:

Purge Start Time: 13:57 Ferrous Iron (mg/L): Allowable Drawdown (ft):

Sample Time: 15:10

Sample ID: RW-8284P-20240618 Comments:

Time	Water Level (ft btoc)	Temperature (deg C)	pH	Specific Cond. (us/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (gal/min)	Comments
14:52		13.6	7.13	948	6.88	87.8	0.2		
14:57		13.2	7.11	942	6.76	95.4	0.46		
15:02		13.17	7.1	942	6.83	97.6	0.57		

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Emma Ehret	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No:
Client Contact: Mary Lou Fox	Phone: 509-481-1031	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 2 of 2
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300	PO #: 114505			
Email: FoxML@cdmsmith.com	WO #:			
Project Name: Bannock Pt. Hall Mine LF, Idaho	Project #: 28018772			
Site: 2024 Offsite Groundwater (lab task code)	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	X	
RW-2151H-20240618	6/18/24	1220	G	W	N	N	X	3	
RW-8048P-20240618	6/18/24	1400	G	W	N	N	X	3	
RW-8030P-20240618	6/18/24	1610	G	W	N	N	X	3	
RW-7505P-20240618	6/18/24	1735	G	W	N	N	X	3	
RW-7505P-D-20240618	6/18/24	1735	G	W	N	N	X	3	
~~TB-02-20240620~~	~~6/20/24~~		G	W	N	N	X	3	
RW-2203H-20240619	6/19/24	1800	G	W	N	N	X	3	
RW-2076F-20240619	6/19/24	1945	G	W	N	N	X	3	

1/1 6/20/24

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Hannah Rolston Here	6/20/24 11:30				

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Emma Ehret	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No:
Client Contact: Mary Lou Fox	Phone: 509-481-1031	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 1 of 2
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300	PO #: 114505			
Email: FoxML@cdmsmith.com	WO #:			
Project Name: Bannock Ft. Hall Mine LF, Idaho	Project #: 28018772			
Site: 2224 Offsite Groundwater (Ldo Task Code)	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A		
RW-2237H-20240618	6/18/24	~~0955~~ 1320	G	W	N		X	3	
RW-2213F-20240618	6/18/24	~~1240~~ 1320	G	W	N	X	X	3	
RW-2172H-20240618	6/18/24	1135	G	W	N		X	3	
RW-8284P-20240618	6/18/24	1510	G	W	N		X	3	
RW-7677P-20240618	6/18/24	1815	G	W	N		X	3	
Muni-Well-14-20240619	6/19/24	1310	G	W	N		X	3	
Muni-Well-33-20240619	6/19/24	1328	G	W	N		X	3	
TB-01-20240620	6/20/24	0950	G	W	N		X	2	
	~~6/20/24~~		G	W	N		X		
			LL	6/20/24	N		X		
			LL	6/20/24	W		X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Hannah Rolston	6/20/24 11:30				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

280-194612 Chain of Custody

eurofins

Client Information	Sampler: Adria mead	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No: 1
Client Contact: Mary Lou Fox / Adria mead	Phone: 208-709-1159	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 1 of 1
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300 / 208-709-1159	PO #:			
Email: FoxML@cdmsmith.com / meadal@cdmsmith.com	WO #:			
Project Name: Bannock Ft. Hall Mine LF, Idaho	Project #: 28018772			
Site: Bannock Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	8011 - EDB, DBCP, and 1,2,3-TCP	6020B - Total Metals	6020B - Dissolved Metals (Field Filtered)	7470A - Total Mercury	8270E - SVOCs	8321B - Herbicides and Pentachlorophenol	8270E_SIM - Benzo[a]pyrene	8081B - OC Pesticides	8082A - PCBs	8141B OP Pesticides	8290A - 2,3,7,8-TCDD (ETA SACRAMENTO)	4500_CN_E - Total Cyanide	SM4500_S2_D - Total Sulfide	9056A - Anions (NO3, NO2, Cl, SO4, and Br)	9056A - Anions (Br only)	9060A - TOC	RSK-175 - Dissolved Gases (MEEAP)	2320B - Alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	A	D	D	D	N	N	N	N	N	N	N	B	C/B	N	N	S	A	N	X	
PA-8-77-87-20240725	7/25/24	1035	G	W			X																			3	
PA-8-77-87-Q-20240725	7/25/24	1035	G	W			X																			3	
PA-3-20240725	7/25/24	1000	G	W		X	X																			8	
PA-4-100-110-20240725	7/25/24	0935	G	W			X																			3	
PA-1-20240725	7/25/24	1010	G	W			X																			3	
TB-07-20240725	7/25/24	1140	G	W			X																			2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months ☐

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Adria mead	7/25/24 1144		Sealed for Shipment		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/26/24 0905	Company EETDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6°C Ea, IR-TM1

EQUIPMENT CALIBRATION LOG

SITE NAME: Bannock

Instrument (Name/Model No./Serial No.): PID, RKI GX-6000, 2[illegible]7040147PN

Manufacturer: RKI instruments

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	51	50 CH_4	81-0143RK-04 Mar 2025	Y	50	Pass	
6/18/24	103	100 I-CH_4	81-0143RK-04 Mar 2025	Y	100	Pass	
6/19/24	—	50% LEL (CH_4)	Saa	N	50	Pass	
6/19/24	—	100ppm isobut	Saa	N	100	Pass	

Did twice to confirm method with manual

EQUIPMENT CALIBRATION LOG

SITE NAME: Bannock

Instrument (Name/Model No./Serial No.): PID, RKI GX-6000

Manufacturer: RKI Instruments

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	51	50 CH_4	81-0143RK-04 Mar 2025	Y	50	Pass	
6/18/24	106.9	100 I-CH_4	81-0143RK-04 Mar 2025	Y	~~50~~ 100	Pass	

EQUIPMENT CALIBRATION LOG

SITE NAME: Bannock

Instrument (Name/Model No./Serial No.): Turbidimeter / 2100 Q

Manufacturer: HACH

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	20.8	20 NTU	A406 ~~JUL~~ Jun-25	Y	20.0	Pass	
6/18/24	94.2	100 NTU	A3098 Jul-24	Y	105	Pass	
6/18/24	754	800 NTU	A4057 May-25	Y	859	Pass	
6/18/24	10.6	10 NTU	A4057 May-25	Y	10.8	Pass	

EQUIPMENT CALIBRATION LOG

SITE NAME: Bannock

Instrument (Name/Model No./Serial No.): Turbidimeter, 2100Q, 1201

Manufacturer: HACH

Calibration Date	(NTU) Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	21.2	20 NTU	A3111 Jul-24	Y	20	Pass	
6/18/24	100	100 NTU	A3098 Jul-24	Y	100	Pass	
6/18/24	896	800 NTU	A3098 Jul-24	Y	777	Pass	
6/18/24	10.5	10 NTU	A3201 Oct-24	Y	9.36	Pass	
6/19/24	9.22	10 NTU	A3201 Oct-24	N	9.65	Pass	
6/19/24	19.4	20 NTU	A3111 Jul-24	N	20.2	Pass	
6/19/24	99.0	100 NTU	A3098 Jul-24	N	101	Pass	
6/19/24	807	800 NTU	A3098 Jul-24	N	802	Pass	

EQUIPMENT CALIBRATION LOG

SITE NAME: FIML

Instrument (Name/Model No./Serial No.): 556 MPS 05J1692 AH

Manufacturer: YSI

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	1316	1409 uS/cm	6403154 3/25/26	N	1414	P	
6/18/24	7.07	pH 7	3306447 7/11/25	N	7.00	P	
6/18/24	3.98	pH 4	6305004 8/22/25	N	4.00	P	
6/18/24	9.941	pH 10	8207297 8/2/23	N	9.98	P	
6/18/24	244.4	220 mV	15043 3/18/25	N	219.9	P	
6/19/24	92.6%	Sat Air		N	100.1%	P	
6/19/24	1448	1409 uS/cm	6403154 3/25/26	N	1.408	P	
6/19/24	6.95	pH 7	6306447 7/11/25	N	6.99	P	
6/19/24	4.00	pH 4	6305004 8/22/25	N	3.99	P	
6/19/24	10.00	pH 10	8207297 8/2/25	N	10.00	P	
6/19/24	217.5	220 MV	15043 3/18/25	N	219.6	P	
6/19/24	93.5%	Sat Air	762.25mm/Hg	N	100.4%	P	

EQUIPMENT CALIBRATION LOG

SITE NAME: FHML

Instrument (Name/Model No./Serial No.): 11F100977 556 MPS

Manufacturer: YSI

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
6/18/24	95.5%	Sat Air		N	100.5%	P	
6/18/24	1466	1409 umho/cm	9310609 11/14/25	N	1409	P	
6/18/24	7.01	pH 7	44020567 2/22/26	N	7.00	P	
6/18/24	4.09	pH 4	6309004 10/4/25	N	4.00	P	
6/18/24	10.06	pH 10	6308010 9/23/25	N	10.02	P	
6/18/24	264.0	220 mV	15043 3/18/24	N	220.6	P	

Fort Hall Mine Landfill
Bannock County
Monitoring Well Transducer Data Download Field Form

(ft)/psi

Location	Date	Time	Dessicant Color	Transducer Serial No.	Cable Serial No.	Battery Available (%)	Memory Available	Log Running (Y/N)	Data Downloaded (Y/N)	Manual DTW (ft below TOC)	DTW Transducer (ft below TOC)	Height of Water Column Above Transducer	DTW Transducer Corrected (Y/N)
RW-16	6/19/24	1524	Purple	672146	673567	72	85	Y	Y	56.94	56.13	14.56	Y
MP-1	6/19/24	1507	Purple	748604	?50632	75	60	Y	Y	56.73	57.07	6.56	Y
MP-2	6/19/24	14:33	purple	672131	SN673568	71	73	Y	Y	63.18	~~57.14~~ 62.35	7.44	Y
MW-112M	See Notes												
MW-124	6/17/24	15:39	pink/purple	671820	673564	72	87	Y	Y	60.98	61.00	6.78	Y
MW-125	6/19/24	1600	purple	671823	673565	70	F5	Y	Y	67.54	67.63	8.59	N
INJ-1R													

Notes:
MW-124 Manual DTW = 61.0 ; Transducer DTW = 61.93
Restarted new log MW-124-Log-20240617
MP-2 DTW Corrected. New log started MP-2_Log-20240619

Default transducer locations include: MW-104D (87.1 ft), MW-104S (68.42 ft), RW-16 (89.44 ft), MP-1 (72.09 ft), MP-2 (80.04 ft), MW-101S (68.84 ft), MW-112M (72.5 ft).

MP-1 DTW Corrected. Current log stopped, started new log. MP-1_Log-20240619

Ht of water column: P(psi) × 2.307 ft/psi
See Back

1. Change dessicant if color is pink/white. Blue is ok.
2. Connect troll com to cable, turn on and connet to bluetooth. Open VuSitu mobile app and connect to the com/transducer. If instrument date/time differ from actual date/time, sync clock with device and make note.
3. Confirm the log is running. Confirm default log name correlates to correct location. If log name differs from location name, update and make note.
4. Download log and transfer all files immediately to the teams folder.
5. If using a device that is not the Blackview (i.e. personal/work phone), after downloading data there is an option to 'Save to' where you can choose to email or message the data.
6. All data files downloaded can be found in the upper left hand corner of the VuSitu app under the 'data files' tab.
7. The Transducer serial number can be seen on the main menu in the VuSitu app when connected to Troll Com.
8. If the manual and transducer DTW differ by more than 0.10 feet, use the existing transducer form for correction.

CDM Smith

RW-16 DTW Corrected. Current log stopped, new log started. RW-16-Log-20240619
~~MT~~ CS 6/19

MW-11AM Transducer not located in well, Found in Trailer. Log had not been stopped when Transducer was Pulled. Transducer pulled sometime between Nov 2023 and June 2024. Stopped log and downloaded data.

INJ-1R was not downloaded, was downloaded during May 2024.

~~MW-11AM~~ was pulled CS 6/19

Fort Hall Mine Landfill
Bannock County
Monitoring Well Transducer Data Download Field Form

Location	Date	Time	Dessicant Color	Transducer Serial No.	Cable Serial No.	Battery Available (%)	Memory Available	Log Running (Y/N)	Data Downloaded (Y/N)	Manual DTW (ft below TOC)	DTW Transducer (ft below TOC)	Height of Water Column Above Transducer (psi)	DTW Transducer Corrected (Y/N)
INJ-12	7/24/24	1208	Purple	672074	673562	71%	51%	Y	Y	1.29'	1.27'	29.39 PSI	N

Notes:

Default transducer locations include: MW-104D (87.1 ft), MW-104S (68.42 ft), RW-16 (89.44 ft), MP-1 (72.09 ft), MP-2 (80.04 ft), MW-101S (68.84 ft), MW-112M (72.5 ft).

1. Change dessicant if color is pink/white. Blue is ok.
2. Connect troll com to cable, turn on and connet to bluetooth. Open VuSitu mobile app and connect to the com/transducer. If instrument date/time differ from actual date/time, sync clock with device and make note.
3. Confirm the log is running. Confirm default log name correlates to correct location. If log name differs from location name, update and make note.
4. Download log and transfer all files immediately to the teams folder.
5. If using a device that is not the Blackview (i.e. personal/work phone), after downloading data there is an option to 'Save to' where you can choose to email or message the data.
6. All data files downloaded can be found in the upper left hand corner of the VuSitu app under the 'data files' tab.
7. The Transducer serial number can be seen on the main menu in the VuSitu app when connected to Troll Com.
8. If the manual and transducer DTW differ by more than 0.10 feet, use the existing transducer form for correction.

CDM Smith

EQUIPMENT CALIBRATION LOG

SITE NAME: FHML

Instrument (Name/Model No./Serial No.): YSI ProDSS U18389X RKI GX-6000 (BW-6000)

Manufacturer: YSI RKI

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/25/24	3.99 pH	pH 4.0	8803004G 3/20/26	N	4.0	Pass	
7/25/24	7.08	pH 7.0	4402G567 2/22/26	N	7.0	Pass	
7/25/24	10.03	pH 10.0	44080187 4/8/26	N	10.0	Pass	
7/25/24	1.399 mS/cm	1.409 mS/cm	2403134 3/20/26	N	1.409 mS/cm	Pass	
7/25/24	87.9%	766.0 mmHg Sat Air	N/A	N	101.1%	Pass	
7/25/24	51 LEL	CalGas	501186 3/7/2025	N	50 LEL	Pass	
7/25/24	93.3	CalGas	501186 3/7/2025	N	99.9%	Pass	

Date: June 17, 2024
Event: Offsite Groundwater Sampling
Author: Emma Ehret (EE)
Weather: 40-50s, cloudy
PPE: Level D {Note: See also Logbook 2 for event}
Personnel: EE, Hannah Rolston (HR), Laura Mulrooney (LM), Colin Scheil (CS)

1345 LM, CS arrive at site. CS begins O&M.
1400 HR, EE arrive onsite. HR, EE, LM unpack equipment, prepare bottle kits, identify supplies, charge PIDs.
1530 HR, EE, LM download MW-124 transducer log - see form. Log was stopped & a new log started to correct depth to water. Battery of water level meter was replaced.
1600 HR, EE, LM go to RW-2203H to deploy Hydrasleeve. Interact w/ resident, who agrees to Hydrasleeve retrieval on Wednesday. 1710 deployment.
1720 HR, EE, LM return to landfill.
1730 All CDM Smith personnel offsite.

6/17/24

Date: June 18, 2024
Event: Offsite GW Sampling
Author: EE {See also Logbook 2 for event}
Weather: 40's, sunny
PPE: Level D
Personnel: EE, HR, LM, CS

0700 Team onsite. Health & safety meeting: traffic, wildlife, sun, hydration. Equipment calibration & supply prep. Plan is to sample 1 well all together for training/review.
0845 Team leaves site for RW-2237H.
0900 Conversation with homeowner - see Comm Record. Pleasant, asked some questions about how we sample.
0909 Purge start.
0932 Purge end. Team collects water quality parameters, logged via tablet on Quickbase app.
0955 RW-2237H Sample

Sample ID	Purge Start	Sample Time
RW-2237H-20240618	0909	0950

1015 Teams split: EE/LM, HR/CS. EE/LM goes to RW-2172H early, gives homeowner 2023 letter as requested, answers some questions - see Comm Record.

Rite in the Rain

Sample ID	Purge Start	Sample Time
RW-2172H-20240618	10:32	11:35

10:45 HR/CS at RW-2151H. Spigot is damaged. See photos. They will attempt to purge at lower rate out broken opening & monitor impacts to downhill road/property (to avoid water pooling). EE/LM attempt to collect parameters from RW-2172H hose farther from well to avoid aerating spray, but it is still higher flow rate than desired for VOC sampling. There is no flow rate control. See photo.

11:45 EE/LM leave RW-2172H for landfill office. Brief lunch & paperwork break.

12:00 HR/CS return to landfill.

12:15 EE/LM leave landfill.

Sample: RW-2213F-20240618 Purge Start: 12:46 Time: 1320

Sample: RW-8284P-20240618 Purge Start: 13:57 Sample time: 1510

1340 EE/LM knocked on door for RW-7505P. No response. Will try back @ scheduled time.

1430 HR/CS at RW-8030P waiting for homeowner, attempting to sample early.

1500 HR calls to say water level meter is

cont'd not working, similar to yesterday. EE orders a meter from FEI for delivery tomorrow.

1530 EE, LM stop at RW-8030P property, take faulty WLM, plan is to check access for RW-2062F, RW-7677P, stop at landfill, & go to Ace. Ben had called FEI for tips on the WLM; Matt rec'd getting a keep tight screw & cleaning off corrosion.

1550 EE/LM head to Ace from RW-8030P.

1730 EE/LM arrive @ RW-7677P.

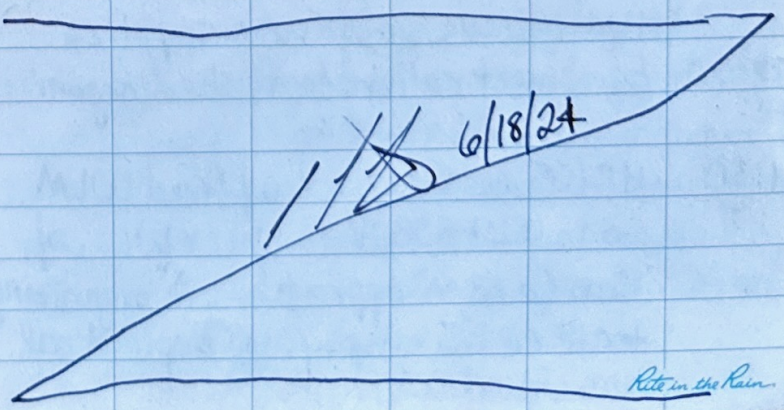
1750 HR/CS arrive @ RW-7677P.

Sample ID: RW-7677P-20240618

Purge Start: 17:38 Sample Time: 18:15

1820 Teams unload @ landfill. Samples in coolers.

1830 CDM Smith leaves site.



Date: June 19, 2024
Author: EE {See also Logbook 2 for event}
Weather: 50s-60s, sunny
PPE: Level D (hard hats only on private property)
Personnel: EE, HR, CS, LM

0900 Team onsite. Transfer samples from coolers to sample fridge in office. Troubleshoot water level meter (scrub corrosion, new knurling nut to tighten). Health & safety: backing out of private driveways onto roadway, staying diligent on last day even while most activities are contained onsite, traffic, hydration, snakes, sun.. Expecting a rental WLM to arrive today. Plan: complete O&M water levels, download transducers / check water levels, check water level for RW-8030P if possible, Sample Muni Wells, retrieve RW-2203H Hydrasleeve, organize supplies.

0930 Equipment calibration, shed organization, WLM troubleshooting.

1130 HR/CS collected WLs w/ fixed WLM. Go to RW-8030P to check WL w/ Ben Carreon approval. LM organizing trailer, EE emptying expired cal gas cylinders.

1230 HR/CS return to landfill. Team preps to depart to Muni Wells.

1300 EE, HR, CS, LM meet Dan w/ City at Muni-Well-14. Sample both Muni Wells.

Sample ID	Purge Start	Sample Time
Muni-Well-14-20240619	Not recorded	1310
Muni-Well-33 20240619	Not recorded	1328

Notes: Muni-Well-14 had not been run prior to this morning for about a year. Because of proximity to public yards, we ran the pump ~1 min before collecting groundwater for water quality. Took several readings ~2 min apart, sampled quickly to avoid flooding properties. (Well pumps ~1000 gpm). Water was turbid; some parameters stabilized - see Quickbase records / purge form. Muni-Well-33 had a submersible pump deployed previously by the City. water flowed out of a hose at a high rate. We skimmed edge of flow stream to collect readings & used YSI cup to transfer sample to VOA vials. Parameters did stabilize.

1330 Team returns to landfill.

Rite in the Rain

cont'd: Continue emptying old cal gas cylinders, lunch, O&M wrap-up, sample handling

1650 Shed & trailer are organized. Gathered samples from office fridge

1700 Take trash to scale & Cell 4. Empty gas canisters to appliances / steel recycling per Dillon Evans.

~1730 Team arrives at RW-2203H. Brief friendly interaction w/ resident. Hydda-sleeve was stuck downhole on existing equipment from old pump. All 4 staff attempted to retrieve the sleeve, used flashlight, eventually retrieved. Water was orange/brown from likely disintegrating pump equipment & the motion of retrieving the sleeve.

1800 RW-2203H-20240619

quickbase doesn't have a sample ID field for HS samples.

1825 CM, HR take remaining sleeve volume for disposal at landfill.

1830 Equipment unload.

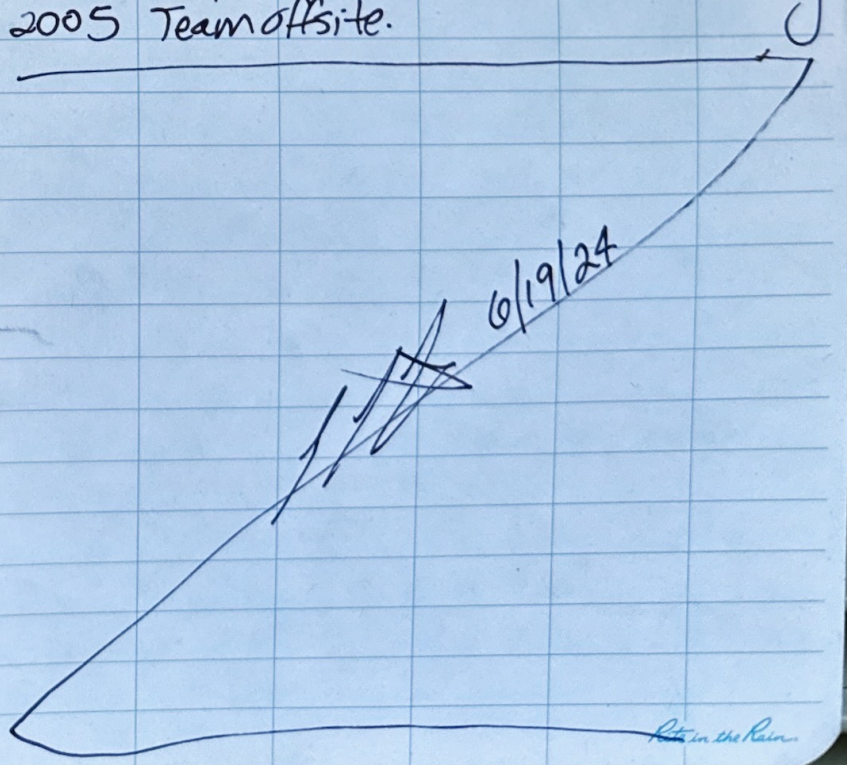
1840 CM, HR, CS go to RW-2076F because gate was open.

1850 EE goes to RW-2076F. HR, CS, LM had talked with a friend of the owner who keeps her horses on the property, who said the owner will be happy to hear that we are sampling. See Comm Record

1945 RW-2076F-20240619 Sample
Purge start: 1855

2000 Team returns to site to return supplies & pack rental equipment. 2 sets of keys returned to remediation building.

2005 Team offsite.



6/18/24 FHML Offsite

Weather: sunny + windy

PPE: Level D

Personnel: Colin Schell, Hannah Ralston } Team B (FTL - Emma Ehret has main logbook for event)

0700 Arrive @ landfill
- safety talk
- calibration
- equipment distribution

0850 Leave landfill

0855 all teams arrive @ 2237 Hillside
- setup & nice conversation w/ property owner

0909 purging started

0932 purging ended

1015 depart 2237

arrive @ 2151 N Hillside
- set up
- realized spigot was broken
  - ↳ property owner knew
- still managed to purge 300 gal

1053 purge start

1153 purge end

1220 sample time: RW-2151H-20240618

1227 left property
- back to landfill office

HR

1255 arrive @ 8048 W. Portneuf Rd

1300 purge start

1325 purge end

1400 sample: RW-8048P-20240618

1410 left 8048

1425 arrive @ 8030 W. Portneuf Rd
- waited for homeowner to return to show us where to sample water level
- CDM water level meter not working
- homeowners working @ well head to enable sampling
  - ↳ CDM personnel did not help

1523 purging started

1533 purging ended

1610 sample: RW-8030P-20240618

1615 left 8030 W. Portneuf Rd

1625 arrive @ 7505
- discussion w/ homeowner - frustration expressed
- filled out communication form while purging

1643 purge started

1713 purge stopped

1735 sample: RW-7505P-20240618
FD: RW-7505P-Q-20240618

1740 left 7505 P
checked in w/ other team
1615 returned to landfill + unloaded
1630 team B offsite

6/18/24

6/19/24 FHWL
Weather: sunny & warm (70+F)
Personnel: C. Schul & H. Rolston
(Team B)

0900 onsite
water level meter troubleshooting
water levels for O+M
1145 arrive @ 8030 P for water level
homeowner helped us access
↳ see comm record
1210 ~~tstf~~ left 8030 P
1250 ~~all~~ from teams went to muni wells
↳ see FTL notebook
1330 return to landfill
transducer downloads
shed + trailer organization
(*) see FTL logbook for rest of day
2005 team offsite

6/19/24

Rite in the Rain

Location FHML Date 7/23/24

Project Client Bannock County

OPPSite PA well Sampling and July O:M

Author: C. Scheil

Personnel: C. Scheil, A. Mead

Weather: Sunny 86F, some haze

H:S: Heat, trOPSic, trips

11:10 Onsite, collect equipment for HS deployment.

12:20 Onsite at LDS Ball Fields. Unable to unlock padlock on gate, Code likely chaged. Accessed wells on foot. Will attempt to get new code by Thursday.

1250 At PA-3. WL 41.63'

1254 Deploy PA-3 HS

1300 At PA-1. WL 41.09' (05 7/23/24). Deploy HS.

1310 At PA-4. WL 56.92'. Deploy HS.

1330 At PA-8. WL 29.81'. Deploy HS.

1350 A. Mead oppsite. C. Scheil heads back to land Pill.

1410 Measure Casing diameters for FW-1 and INJ-1 end cap replacements.

1425 Check Weather Station Precip Bucket. Bucket is Full. Downloaded data, frquency at ~2750 hz, and still room in bucket so data not impacted or lost. Will empty bucket and replace oil and

Location FHML Date 7/23/24

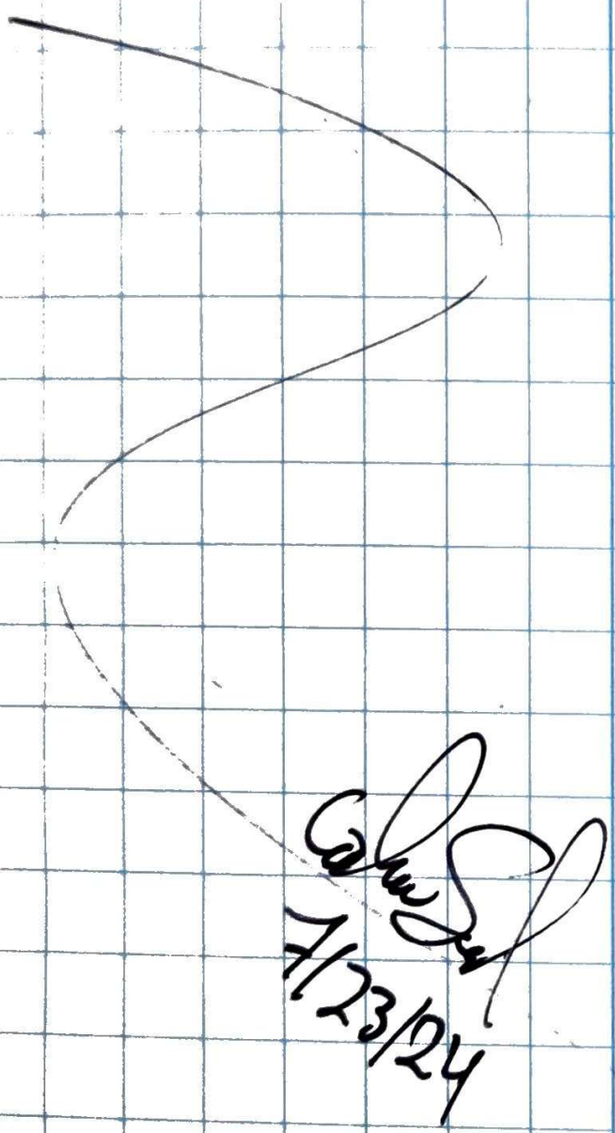
Project / Client Bonnock County

OPPSite PA well sampling and July O:M

antifreeze 7/24.

1430 OPPSite for well caps and antifreeze.

~~1500 local stores do~~ CS 7/23/24 OPPSite for day.



7/23/24

Location FHML Date 7/24/24

Project / Client Bannock County

Treatment System O:M

Author: C. Schell

Personnel: C. Schell

Weather: Slight Smoke, Sunny 65 F @ 0700

H:S : Heat, Traffic

0705 Onsite. Begin weekly and monthly O:M tasks.

0750 Begin measuring manual WLs

0900 Conduct OP Test

INF - 3 drops

EFF - 5 drops

0905 Check RW Y-Strainers. Slight rust color on RW-5 Strainer. Slight build-up of yellow, organic material on Strainer.

0945 Complete weekly, monthly, and quarterly O:M tasks.

1015 Empty precipitation bucket at weather station.

1030 Discuss anti-freeze levels with D. Savage. Determined that precip between Summer/Fall 2023 and Winter/Spring 2024 was 15", using this as basis for antifreeze.

Added 1.5L of antifreeze concentrate

0.5L of hydraulic oil

1100 Replace precip bucket and wait for sensor the Calibrate.

Continue discussing O:M items w/ D. Savage and

Location FAML Date 7/24/24

Project / Client Bannock County

Treatment System O&M

B. Cannon. Decide to level pumping set points as is since the system is at lower capacity. Will continue to monitor and follow up w/ Groundtech on remote feature timeline.

1135 Vw = 1430.89; mm, = 73.11059

1140 Reset mm, adj to Ø to account for emptying bucket. Will confirm adjustment later after system has time to calibrate.

1145 ~~Dump~~ CS station DKpour of precip bucket meter at the leachate pond.

1210 Download transducer data from INJ-112. Manual WL and transducer DTW still agree. Left log running.

1240 Confirmed weather station mm, adj is reading Ø

1245 Offsite.

Calibrated 7/24/24

Rite in the Rain.

60 Location FHML Date 7/25/24

Project / Client Bannock County

Tues 7/23/24 Offsite PA Well Sampling

Author: C. Schell
Personnel: C. Schell, A. Mead
Weather: Partly Cloudy 71F, humid
H&S: Heat, trapping, trips
0800 C. Schell onsite. Begin collecting Sampling Supplies.
0820 A. Mead onsite. Calibrate YSI and PID
0930 At PA-4. Begin Sampling.
0935 Collect Sample PA-4-20240725.
0950 At PA-3. Begin Sampling.
1000 Collect sample PA-3-20240725. Only able to collect 8 VOAs instead of 9 for sample and MS/MSD due to volume constraints.
1010 Collect Sample PA-1-20240725
1030 At PA-8. Begin Sampling.
1035 Collect Samples PA-8-20240725 and PA-8-D-20240725.
1045 Head back to Lon's Site to prep Samples and Cooler.
1200 Personnel offsite.

Calvin Schell
7/25/24

Photo Log

2024 June Offsite Sampling, Bannock County

Photo Date/Time: 06/18/24 10:24:00 Photo Location: RW-2151H Photo Description: Spigot broken when we arrived Photo Direction:	
Photo Date/Time: 06/18/24 10:55:00 Photo Location: RW-2172H Photo Description: Sampling hose Photo Direction:	

Photo Log

2024 June Offsite Sampling, Bannock County

Photo Date/Time: 06/18/24 11:01:00 Photo Location: RW-2172H Photo Description: Pump box and previous sample location Photo Direction:	
Photo Date/Time: 06/18/24 18:16:00 Photo Location: RW-7677P Photo Description: Sampling via a low flow tap on the right while high flow is diverted away from the house Photo Direction: North	

Appendix C

Historical Groundwater Results

If you would like to see all the historical data for the site, please send a request through the "Contact Us" form on the bottom of the project website:https://www.bannockcounty.gov/landfill/remediation

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 June and July 2024.

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.

Eurofins 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 TA-Denver 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 2024

From June 18th to June 20th, and on July 25th 2024, 17 primary samples, 2 field duplicates, and 2 trip blanks were collected for analysis of VOCs. Data were qualified as estimated (J or UJ) based headspace in a volatiles vial from which an analysis was performed.

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-8284P-20240618, RW-8048P-20240618, RW-8030P-20240618, and RW-2076F-20240619 had headspace. Volatile results for these four samples were qualified estimated (J/UJ).

1.1.1 Holding Times

Holding times for all analyses were met.

1.1.2 Blank Results

Trip and laboratory method blanks were analyzed. Trip blanks were included with the VOC sample shipments.

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 comparisons are included in **Table D-2** of this Appendix. No analytes were detected in the parent sample and their field duplicates.

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:

- Recoveries of chloroethane and bromomethane were above the control limits for an LCS and LCSD, respectively, associated with samples in SDG 280-193176. This compound was not detected in associated samples and no data were qualified.

- Vinyl acetate had a high RPD in an LCS/LCSD associated with samples in SG 280-193176. This analyte was not detected in the associated samples and no data were qualified

1.1.6 Matrix Spike Results

All MS/MSD % recoveries and RPDs met the quality control (QC) limits.

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 off-site groundwater data are suitable for their intended use.

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 Organics Methods Data Review*. November.

TABLE D-1

Appendix D
Table D-1
Sample ID, Laboratory SDG Reference
Fort Hall Mine Landfill, Bannock County, Idaho

Analytical Method	SW846_8260D
Sample ID	LAB SDG
MUNI-WELL-14-20240619	280-193176-1
MUNI-WELL-33-20240619	280-193176-1
PA-1-20240725	280-194612-1
PA-3-20240725	280-194612-1
PA-4-100-110-20240725	280-194612-1
PA-8-77-87-20240725	280-194612-1
PA-8-77-87-Q-20240725	280-194612-1
RW-2076F-20240619	280-193176-1
RW-2151H-20240618	280-193176-1
RW-2172H-20240618	280-193176-1
RW-2203H-20240619	280-193176-1
RW-2213F-20240618	280-193176-1
RW-2237H-20240618	280-193176-1
RW-7505P-20240618	280-193176-1
RW-7505P-Q-20240618	280-193176-1
RW-7677P-20240618	280-193176-1
RW-8030P-20240618	280-193176-1
RW-8048P-20240618	280-193176-1
RW-8284P-20240618	280-193176-1
TB-01-20240620	280-193176-1
TB-01-20240725	280-194612-1

Notes:
ID = identifier
SDG = sample delivery group

TABLE D-2

Appendix D
Table D-2
Groundwater Field Duplicate Comparisions
Fort Hall Mine Landfill, Bannock County, Idaho

Table D-3

Groundwater Field Duplicate Comparisons

Location ID			RW-7505P							PA-8						
Sample Type			N		FD					N		FD				
Sample Date			6/18/2024		6/18/2024					7/25/2024		7/25/2024				
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	0.16	U	0.16	U	1	5	NC	0.16	U	0.16	U	1	5	NC
SW846_8260D	1,1,1-Trichloroethane	ug/l	0.39	U	0.39	U	1	5	NC	0.39	U	0.39	U	1	5	NC
SW846_8260D	1,1,2,2-Tetrachloroethane	ug/l	0.21	U	0.21	U	1	5	NC	0.21	U	0.21	U	1	5	NC
SW846_8260D	1,1,2-Trichloroethane	ug/l	0.27	U	0.27	U	1	5	NC	0.27	U	0.27	U	1	5	NC
SW846_8260D	1,1-Dichloroethane	ug/l	0.22	U	0.22	U	1	5	NC	0.22	U	0.22	U	1	5	NC
SW846_8260D	1,1-Dichloroethene	ug/l	0.23	U	0.23	U	1	5	NC	0.23	U	0.23	U	1	5	NC
SW846_8260D	1,1-Dichloropropene	ug/l	0.19	U	0.19	U	1	5	NC	0.19	U	0.19	U	1	5	NC
SW846_8260D	1,2,3-Trichloropropane	ug/l	0.28	U	0.28	U	2.5	12.5	NC	0.28	U	0.28	U	2.5	12.5	NC
SW846_8260D	1,2,4-Trichlorobenzene	ug/l	0.58	U	0.58	U	1	5	NC	0.58	U	0.58	U	1	5	NC
SW846_8260D	1,2-Dibromo-3-Chloropropane	ug/l	0.42	U	0.42	U	5	25	NC	0.42	U	0.42	U	5	25	NC
SW846_8260D	1,2-Dibromoethane	ug/l	0.18	U	0.18	U	1	5	NC	0.18	U	0.18	U	1	5	NC
SW846_8260D	1,2-Dichlorobenzene	ug/l	0.14	U	0.14	U	1	5	NC	0.14	U	0.14	U	1	5	NC
SW846_8260D	1,2-Dichloroethane	ug/l	0.28	U	0.28	U	1	5	NC	0.28	U	0.28	U	1	5	NC
SW846_8260D	1,2-Dichloropropane	ug/l	0.24	U	0.24	U	1	5	NC	0.24	U	0.24	U	1	5	NC
SW846_8260D	1,3-Dichlorobenzene	ug/l	0.33	U	0.33	U	1	5	NC	0.33	U	0.33	U	1	5	NC
SW846_8260D	1,3-Dichloropropane	ug/l	0.17	U	0.17	U	1	5	NC	0.17	U	0.17	U	1	5	NC
SW846_8260D	1,4-Dichlorobenzene	ug/l	0.39	U	0.39	U	1	5	NC	0.39	U	0.39	U	1	5	NC
SW846_8260D	2,2-Dichloropropane	ug/l	0.17	U	0.17	U	1	5	NC	0.17	U	0.17	U	1	5	NC
SW846_8260D	2-Butanone (MEK)	ug/l	4.6	U	4.6	U	10	50	NC	4.6	U	4.6	U	10	50	NC
SW846_8260D	2-Hexanone	ug/l	0.81	U	0.81	U	5	25	NC	0.81	U	0.81	U	5	25	NC
SW846_8260D	4-Methyl-2-pentanone (MIBK)	ug/l	0.98	U	0.98	U	5	25	NC	0.98	U	0.98	U	5	25	NC
SW846_8260D	Acetone	ug/l	6.6	U	6.6	U	15	75	NC	6.6	U	6.6	U	15	75	NC
SW846_8260D	Acetonitrile; methyl cyanide	ug/l	14	U	14	U	30	150	NC	14	U	14	U	30	150	NC
SW846_8260D	Acrolein	ug/l	4.9	U	4.9	U	20	100	NC	4.9	U	4.9	U	20	100	NC
SW846_8260D	Acrylonitrile	ug/l	1.7	U	1.7	U	20	100	NC	1.7	U	1.7	U	20	100	NC
SW846_8260D	Allyl chloride	ug/l	0.46	U	0.46	U	2	10	NC	0.46	U	0.46	U	2	10	NC
SW846_8260D	Benzene	ug/l	0.14	U	0.14	U	1	5	NC	0.14	U	0.14	U	1	5	NC
SW846_8260D	Bromochloromethane	ug/l	0.4	U	0.4	U	1	5	NC	0.4	U	0.4	U	1	5	NC
SW846_8260D	Bromodichloromethane	ug/l	0.19	U	0.19	U	1	5	NC	0.19	U	0.19	U	1	5	NC
SW846_8260D	Bromoform	ug/l	0.25	U	0.25	U	2	10	NC	0.25	U	0.25	U	2	10	NC
SW846_8260D	Bromomethane	ug/l	2.4	U	2.4	U	5	25	NC	2.4	U	2.4	U	5	25	NC
SW846_8260D	Carbon disulfide	ug/l	0.26	U	0.26	U	2	10	NC	0.26	U	0.26	U	2	10	NC
SW846_8260D	Carbon tetrachloride	ug/l	0.23	U	0.23	U	1	5	NC	0.23	U	0.23	U	1	5	NC
SW846_8260D	Chlorobenzene	ug/l	0.092	U	0.092	U	1	5	NC	0.092	U	0.092	U	1	5	NC
SW846_8260D	Chlorodibromomethane	ug/l	0.28	U	0.28	U	1	5	NC	0.28	U	0.28	U	1	5	NC
SW846_8260D	Chloroethane	ug/l	0.64	U	0.64	U	2	10	NC	0.64	U	0.64	U	2	10	NC
SW846_8260D	Chloroform	ug/l	0.36	U	0.36	U	1	5	NC	0.36	U	0.36	U	1	5	NC
SW846_8260D	Chloromethane	ug/l	0.23	U	0.23	U	2	10	NC	0.23	U	0.23	U	2	10	NC
SW846_8260D	Chloroprene	ug/l	0.79	U	0.79	U	3	15	NC	0.79	U	0.79	U	3	15	NC
SW846_8260D	cis-1,2-Dichloroethene	ug/l	0.32	U	0.32	U	1	5	NC	0.32	U	0.32	U	1	5	NC

Appendix D
Table D-2
Groundwater Field Duplicate Comparisions
Fort Hall Mine Landfill, Bannock County, Idaho

Table D-3

Groundwater Field Duplicate Comparisons

Location ID			RW-7505P							PA-8						
Sample Type			N		FD					N		FD				
Sample Date			6/18/2024		6/18/2024					7/25/2024		7/25/2024				
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	cis-1,3-Dichloropropene	ug/l	0.16	U	0.16	U	1	5	NC	0.16	U	0.16	U	1	5	NC
SW846_8260D	Dibromomethane	ug/l	0.34	U	0.34	U	1	5	NC	0.34	U	0.34	U	1	5	NC
SW846_8260D	Dichlorodifluoromethane	ug/l	0.3	U	0.3	U	2	10	NC	0.3	U	0.3	U	2	10	NC
SW846_8260D	Ethyl methacrylate	ug/l	0.19	U	0.19	U	3	15	NC	0.19	U	0.19	U	3	15	NC
SW846_8260D	Ethylbenzene	ug/l	0.14	U	0.14	U	1	5	NC	0.14	U	0.14	U	1	5	NC
SW846_8260D	Iodomethane	ug/l	2.6	U	2.6	U	5	25	NC	2.6	U	2.6	U	5	25	NC
SW846_8260D	Isobutanol; Isobutyl alcohol	ug/l	37	U	37	U	110	550	NC	37	U	37	U	110	550	NC
SW846_8260D	m,p-Xylene	ug/l	0.36	U	0.36	U	2	10	NC	0.36	U	0.36	U	2	10	NC
SW846_8260D	Methacrylonitrile	ug/l	5.3	U	5.3	U	15	75	NC	5.3	U	5.3	U	15	75	NC
SW846_8260D	Methyl methacrylate	ug/l	1.1	U	1.1	U	4	20	NC	1.1	U	1.1	U	4	20	NC
SW846_8260D	Methylene Chloride	ug/l	0.94	U	0.94	U	2	10	NC	0.94	U	0.94	U	2	10	NC
SW846_8260D	o-xylene	ug/l	0.11	U	0.11	U	1	5	NC	0.11	U	0.11	U	1	5	NC
SW846_8260D	Propionitrile; ethyl cyanide	ug/l	3.7	U	3.7	U	20	100	NC	3.7	U	3.7	U	20	100	NC
SW846_8260D	Styrene	ug/l	0.13	U	0.13	U	1	5	NC	0.13	U	0.13	U	1	5	NC
SW846_8260D	Tetrachloroethene	ug/l	0.4	U	0.4	U	1	5	NC	0.4	U	0.4	U	1	5	NC
SW846_8260D	Toluene	ug/l	0.32	U	0.32	U	1	5	NC	0.32	U	0.32	U	1	5	NC
SW846_8260D	trans-1,2-Dichloroethene	ug/l	0.37	U	0.37	U	1	5	NC	0.37	U	0.37	U	1	5	NC
SW846_8260D	trans-1,3-Dichloropropene	ug/l	0.14	U	0.14	U	1	5	NC	0.14	U	0.14	U	1	5	NC
SW846_8260D	trans-1,4-Dichloro-2-butene	ug/l	0.51	U	0.51	U	3	15	NC	0.51	U	0.51	U	3	15	NC
SW846_8260D	Trichloroethene	ug/l	0.3	U	0.3	U	1	5	NC	0.3	U	0.3	U	1	5	NC
SW846_8260D	Trichlorofluoromethane	ug/l	0.2	U	0.2	U	2	10	NC	0.2	U	0.2	U	2	10	NC
SW846_8260D	Vinyl acetate	ug/l	0.36	U	0.36	U	3	15	NC	0.36	U	0.36	U	3	15	NC
SW846_8260D	Vinyl chloride	ug/l	0.23	U	0.23	U	1	5	NC	0.23	U	0.23	U	1	5	NC
SW846_8260D	Xylenes, total	ug/l	0.11	U	0.11	U	1	5	NC	0.11	U	0.11	U	1	5	NC

Notes:

FD = field duplicate

N = normal field sample

NC = not calculated

Appendix E

Analytical Laboratory Data Packages

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mary Lou Fox
CDM Smith Inc
14432 S.E. Eastgate Way
Suite 100
Bellevue WA 98007-6493

Generated 7/5/2024 11:14 AM

JOB DESCRIPTION

Bannock Ft. Hall Mine LF, Idaho

JOB NUMBER

280-193176-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

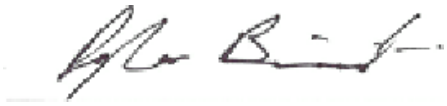
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Job Notes

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Authorization



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Authorized for release by
Dylan T Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
303 736-0138

Table of Contents

Cover Title Page 1

Data Summaries 5

Definitions 5

Case Narrative 6

Detection Summary 8

Client Sample Results 10

Default Detection Limits 33

Surrogate Summary 35

QC Sample Results 36

QC Association 55

Chronicle 56

Certification Summary 59

Method Summary 60

Sample Summary 61

Manual Integration Summary 62

Reagent Traceability 73

COAs 98

Organic Sample Data 205

GC/MS VOA 205

8260D 205

8260D QC Summary 206

8260D Sample Data 245

Standards Data 433

8260D ICAL Data 433

8260D CCAL Data 865

Raw QC Data 948

Table of Contents

8260D Tune Data 948

8260D Blank Data 976

8260D LCS/LCSD Data 1015

8260D MS/MSD Data 1085

8260D Run Logs 1101

8260D Prep Data 1111

Shipping and Receiving Documents 1128

Client Chain of Custody 1129

Sample Receipt Checklist 1131

Definitions/Glossary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	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.
¤	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

Job Narrative
280-193176-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/21/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Method 8260D - Volatile Organic Compounds by GC/MS
Samples RW-2237H-20240618 (280-193176-1), RW-2213F-20240618 (280-193176-2), RW-2213F-20240618 (280-193176-2MS), RW-2213F-20240618 (280-193176-2MSD), RW-2172H-20240618 (280-193176-3), RW-8284P-20240618 (280-193176-4), RW-7677P-20240618 (280-193176-5), Muni-Well-14-20240619 (280-193176-6), Muni-Well-33-20240619 (280-193176-7), TB-01-20240620 (280-193176-8), RW-2151H-20240618 (280-193176-9), RW-8048P-20240618 (280-193176-10), RW-8030P-20240618 (280-193176-11), RW-7505P-20240618 (280-193176-12), RW-7505P-Q-20240618 (280-193176-13), RW-2203H-20240619 (280-193176-14) and RW-2076F-20240619 (280-193176-15) were analyzed for Volatile Organic Compounds by GC/MS. The samples were analyzed on 7/1/2024 and 7/2/2024.

The continuing calibration verification (CCV) associated with batch 280-658893 recovered above the upper control limit for Bromomethane(28.6%D, limit 20%D) and Chloroethane (41.6%D, limit 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. RW-2237H-20240618 (280-193176-1), RW-2213F-20240618 (280-193176-2), RW-2213F-20240618 (280-193176-2[MS]), RW-2213F-20240618 (280-193176-2[MSD]), RW-2172H-20240618 (280-193176-3), RW-8284P-20240618 (280-193176-4), RW-7677P-20240618 (280-193176-5), RW-2151H-20240618 (280-193176-9), RW-8048P-20240618 (280-193176-10), RW-8030P-20240618 (280-193176-11), RW-7505P-20240618 (280-193176-12), RW-7505P-Q-20240618 (280-193176-13), and (CCV 280-658893/2), (CCV 280-658893/3).

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-658893: 2-Butanone(-25.5%D, limit 20%D) and Acetone(-20.2%D, limit 20%D). These are poor performing analytes 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. analytes.RW-2237H-20240618 (280-193176-1), RW-2213F-20240618 (280-193176-2), RW-2213F-20240618 (280-193176-2[MS]), RW-2213F-20240618 (280-193176-2[MSD]), RW-2172H-20240618 (280-193176-3), RW-8284P-20240618 (280-193176-4), RW-7677P-20240618 (280-193176-5), RW-2151H-20240618 (280-193176-9), RW-8048P-20240618 (280-193176-10), RW-8030P-20240618 (280-193176-11), RW-7505P-20240618 (280-193176-12), RW-7505P-Q-20240618 (280-193176-13), (CCV 280-658893/2), and (CCV 280-658893/3).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 280-658893 recovered outside control limits for the following analyte: Bromomethane and Chloroethane. These analytes were biased high in the LCS and/or LCSD and were not detected in the associated samples; therefore, the data have been qualified and reported: RW-2237H-20240618 (280-193176-1), RW-2213F-20240618 (280-193176-2), RW-2213F-20240618 (280-193176-2[MS]), RW-2213F-20240618 (280-193176-2[MSD]), RW-2172H-20240618 (280-193176-3), RW-8284P-20240618 (280-193176-4), RW-7677P-20240618 (280-193176-5), RW-2151H-20240618 (280-193176-9), RW-8048P-20240618 (280-193176-10), RW-8030P-20240618 (280-193176-11), RW-7505P-20240618 (280-193176-12), RW-7505P-Q-20240618 (280-193176-13), (LCS 280-658893/4), (LCS

280-658893/6), (LCSD 280-658893/5), and (LCSD 280-658893/7).

The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample containers: RW-2213F-20240618 (280-193176-2[MS]), RW-2213F-20240618 (280-193176-2[MSD]), RW-8284P-20240618 (280-193176-4), RW-8048P-20240618 (280-193176-10) and RW-8030P-20240618 (280-193176-11). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The continuing calibration verification (CCV) associated with batch 280-659045 recovered above the upper control limits of 20%D for acrolein (24.7%D), 2,2-dichloropropane (23.3%D), and trans-1,3-dichloropropene (22.0%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TB-01-20240620 (280-193176-8) and (CCV 280-659045/3).

The initial calibration verification (ICV) result for batch 280-659045 was above the upper control limit. The affected analytes are: Acrolein. Sample results were non-detects, and have been reported as qualified data.

The initial calibration verification (ICV) result for batch 280-658996 was above the upper control limit for Acrolein. Sample results were non-detects, and have been reported as qualified data.

The continuing calibration verification (CCV) associated with batch 280-658996 recovered outside the control limit of 20%D for Iodomethane.This analyte is a poor performer. The LCS/LCSD recovered within control limits therefore the data were reported: Muni-Well-14-20240619 (280-193176-6), Muni-Well-33-20240619 (280-193176-7), RW-2203H-20240619 (280-193176-14), RW-2076F-20240619 (280-193176-15) and (CCV 280-658996/3).

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-658996 recovered outside control limits for Vinyl acetate. Both the LCS and LCSD recovered within control limits therefore the data were reported.

The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample containers: RW-2076F-20240619 (280-193176-15). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-658996. An LCS/LCSD was prepared for batch precision and accuracy/

Detection Summary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Client Sample ID: RW-2237H-20240618 — Lab Sample ID: 280-193176-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.70	J	1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.1		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	11		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-2213F-20240618 — Lab Sample ID: 280-193176-2

No Detections.

Client Sample ID: RW-2172H-20240618 — Lab Sample ID: 280-193176-3

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	3.0		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	18		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-8284P-20240618 — Lab Sample ID: 280-193176-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.64	J	1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	2.8		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-7677P-20240618 — Lab Sample ID: 280-193176-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.32	J	1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.4		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	5.9		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: Muni-Well-14-20240619 — Lab Sample ID: 280-193176-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	1.3	J	2.0	0.25	ug/L	1		8260D	Total/NA
Chlorodibromomethane	0.55	J	1.0	0.28	ug/L	1		8260D	Total/NA
Trichloroethene	0.93	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: Muni-Well-33-20240619 — Lab Sample ID: 280-193176-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.9		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: TB-01-20240620 — Lab Sample ID: 280-193176-8

No Detections.

Client Sample ID: RW-2151H-20240618 — Lab Sample ID: 280-193176-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.4		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	21		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-8048P-20240618 — Lab Sample ID: 280-193176-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.41	J	1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	2.9		1.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Client Sample ID: RW-8030P-20240618 — Lab Sample ID: 280-193176-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.46	J	1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.0		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	6.1		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-7505P-20240618 — Lab Sample ID: 280-193176-12

No Detections.

Client Sample ID: RW-7505P-Q-20240618 — Lab Sample ID: 280-193176-13

No Detections.

Client Sample ID: RW-2203H-20240619 — Lab Sample ID: 280-193176-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.8		1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.9		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	21		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-2076F-20240619 — Lab Sample ID: 280-193176-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	2.3		2.0	0.25	ug/L	1		8260D	Total/NA
Chlorodibromomethane	4.6		1.0	0.28	ug/L	1		8260D	Total/NA
Chloroform	1.0		1.0	0.36	ug/L	1		8260D	Total/NA
Dichlorobromomethane	3.0		1.0	0.19	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW-2237H-20240618
Lab Sample ID: 280-193176-1

Date Collected: 06/18/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 12:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 12:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 12:47	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 12:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 12:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 12:47	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 12:47	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 12:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 12:47	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 12:47	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 12:47	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 12:47	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 12:47	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 12:47	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 12:47	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 12:47	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 12:47	1
Acetone	ND		15	6.6	ug/L			07/01/24 12:47	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 12:47	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 12:47	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 12:47	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 12:47	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 12:47	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 12:47	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 12:47	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 12:47	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 12:47	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 12:47	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 12:47	1
cis-1,2-Dichloroethene	**0.70**	**J**	1.0	0.32	ug/L			07/01/24 12:47	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 12:47	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 12:47	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 12:47	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 12:47	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 12:47	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 12:47	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 12:47	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 12:47	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 12:47	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 12:47	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 12:47	1
Tetrachloroethene	**2.1**		1.0	0.40	ug/L			07/01/24 12:47	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 12:47	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 12:47	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 12:47	1
Trichloroethene	**11**		1.0	0.30	ug/L			07/01/24 12:47	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 12:47	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 12:47	1

Client Sample ID: RW-2237H-20240618
Lab Sample ID: 280-193176-1

Date Collected: 06/18/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 12:47	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 12:47	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 12:47	1
Acrolein	ND		20	4.9	ug/L			07/01/24 12:47	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 12:47	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 12:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 12:47	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 12:47	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 12:47	1
Acetonitrile	ND		30	14	ug/L			07/01/24 12:47	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 12:47	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 12:47	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 12:47	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 12:47	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*07/01/24 12:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*07/01/24 12:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 12:47*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*07/01/24 12:47*	*1*

Client Sample ID: RW-2213F-20240618
Lab Sample ID: 280-193176-2

Date Collected: 06/18/24 13:20
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 13:08	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 13:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 13:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 13:08	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 13:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 13:08	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 13:08	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 13:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 13:08	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 13:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 13:08	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 13:08	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 13:08	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:08	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 13:08	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:08	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 13:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 13:08	1
Acetone	ND		15	6.6	ug/L			07/01/24 13:08	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 13:08	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 13:08	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 13:08	1

Client Sample ID: RW-2213F-20240618
Lab Sample ID: 280-193176-2

Date Collected: 06/18/24 13:20
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/01/24 13:08	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 13:08	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 13:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 13:08	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 13:08	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 13:08	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 13:08	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 13:08	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 13:08	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 13:08	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 13:08	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 13:08	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 13:08	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 13:08	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 13:08	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 13:08	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 13:08	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 13:08	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 13:08	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 13:08	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/01/24 13:08	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 13:08	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 13:08	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 13:08	1
Trichloroethene	ND		1.0	0.30	ug/L			07/01/24 13:08	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 13:08	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 13:08	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 13:08	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 13:08	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 13:08	1
Acrolein	ND		20	4.9	ug/L			07/01/24 13:08	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 13:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 13:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 13:08	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 13:08	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 13:08	1
Acetonitrile	ND		30	14	ug/L			07/01/24 13:08	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 13:08	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 13:08	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 13:08	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 13:08	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/01/24 13:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/01/24 13:08*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*07/01/24 13:08*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*07/01/24 13:08*	*1*

Client Sample ID: RW-2172H-20240618
Lab Sample ID: 280-193176-3

Date Collected: 06/18/24 11:35
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 13:28	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 13:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 13:28	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 13:28	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 13:28	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 13:28	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 13:28	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 13:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 13:28	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 13:28	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 13:28	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 13:28	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 13:28	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:28	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 13:28	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:28	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 13:28	1
Acetone	ND		15	6.6	ug/L			07/01/24 13:28	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 13:28	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 13:28	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 13:28	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 13:28	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 13:28	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 13:28	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 13:28	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 13:28	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 13:28	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 13:28	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 13:28	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.32	ug/L			07/01/24 13:28	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 13:28	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 13:28	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 13:28	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 13:28	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 13:28	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 13:28	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 13:28	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 13:28	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 13:28	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 13:28	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 13:28	1
Tetrachloroethene	**3.0**		1.0	0.40	ug/L			07/01/24 13:28	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 13:28	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 13:28	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 13:28	1
Trichloroethene	**18**		1.0	0.30	ug/L			07/01/24 13:28	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 13:28	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 13:28	1

Client Sample ID: RW-2172H-20240618
Lab Sample ID: 280-193176-3

Date Collected: 06/18/24 11:35
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 13:28	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 13:28	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 13:28	1
Acrolein	ND		20	4.9	ug/L			07/01/24 13:28	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 13:28	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 13:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 13:28	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 13:28	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 13:28	1
Acetonitrile	ND		30	14	ug/L			07/01/24 13:28	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 13:28	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 13:28	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 13:28	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 13:28	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*07/01/24 13:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*07/01/24 13:28*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*07/01/24 13:28*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*07/01/24 13:28*	*1*

Client Sample ID: RW-8284P-20240618
Lab Sample ID: 280-193176-4

Date Collected: 06/18/24 15:10
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 13:49	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 13:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 13:49	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 13:49	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 13:49	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 13:49	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 13:49	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 13:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 13:49	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 13:49	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 13:49	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 13:49	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 13:49	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:49	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 13:49	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 13:49	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 13:49	1
Acetone	ND		15	6.6	ug/L			07/01/24 13:49	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 13:49	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 13:49	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 13:49	1

Client Sample ID: RW-8284P-20240618
Lab Sample ID: 280-193176-4

Date Collected: 06/18/24 15:10
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/01/24 13:49	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 13:49	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 13:49	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 13:49	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 13:49	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 13:49	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 13:49	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 13:49	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 13:49	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 13:49	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 13:49	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 13:49	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 13:49	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 13:49	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 13:49	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 13:49	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 13:49	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 13:49	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 13:49	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 13:49	1
Tetrachloroethene	**0.64**	**J**	1.0	0.40	ug/L			07/01/24 13:49	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 13:49	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 13:49	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 13:49	1
Trichloroethene	**2.8**		1.0	0.30	ug/L			07/01/24 13:49	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 13:49	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 13:49	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 13:49	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 13:49	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 13:49	1
Acrolein	ND		20	4.9	ug/L			07/01/24 13:49	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 13:49	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 13:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 13:49	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 13:49	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 13:49	1
Acetonitrile	ND		30	14	ug/L			07/01/24 13:49	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 13:49	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 13:49	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 13:49	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 13:49	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*07/01/24 13:49*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*07/01/24 13:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*07/01/24 13:49*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*07/01/24 13:49*	*1*

Client Sample ID: RW-7677P-20240618
Lab Sample ID: 280-193176-5

Date Collected: 06/18/24 18:15
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 14:09	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 14:09	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 14:09	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 14:09	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 14:09	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 14:09	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 14:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 14:09	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 14:09	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 14:09	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 14:09	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 14:09	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:09	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 14:09	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:09	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 14:09	1
Acetone	ND		15	6.6	ug/L			07/01/24 14:09	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 14:09	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 14:09	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 14:09	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 14:09	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 14:09	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 14:09	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 14:09	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 14:09	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 14:09	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 14:09	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 14:09	1
cis-1,2-Dichloroethene	**0.32**	**J**	1.0	0.32	ug/L			07/01/24 14:09	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 14:09	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 14:09	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 14:09	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 14:09	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 14:09	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 14:09	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 14:09	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 14:09	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 14:09	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 14:09	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 14:09	1
Tetrachloroethene	**1.4**		1.0	0.40	ug/L			07/01/24 14:09	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 14:09	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 14:09	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 14:09	1
Trichloroethene	**5.9**		1.0	0.30	ug/L			07/01/24 14:09	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 14:09	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 14:09	1

Client Sample ID: RW-7677P-20240618
Lab Sample ID: 280-193176-5

Date Collected: 06/18/24 18:15
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 14:09	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 14:09	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 14:09	1
Acrolein	ND		20	4.9	ug/L			07/01/24 14:09	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 14:09	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 14:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 14:09	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 14:09	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 14:09	1
Acetonitrile	ND		30	14	ug/L			07/01/24 14:09	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 14:09	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 14:09	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 14:09	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 14:09	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*07/01/24 14:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*07/01/24 14:09*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*07/01/24 14:09*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*07/01/24 14:09*	*1*

Client Sample ID: Muni-Well-14-20240619
Lab Sample ID: 280-193176-6

Date Collected: 06/19/24 13:10
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/02/24 05:11	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 05:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 05:11	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 05:11	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 05:11	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 05:11	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 05:11	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 05:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 05:11	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 05:11	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 05:11	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 05:11	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 05:11	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:11	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 05:11	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:11	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 05:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 05:11	1
Acetone	ND		15	6.6	ug/L			07/02/24 05:11	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 05:11	1
Bromoform	**1.3**	**J**	2.0	0.25	ug/L			07/02/24 05:11	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 05:11	1

Client Sample ID: Muni-Well-14-20240619
Lab Sample ID: 280-193176-6

Date Collected: 06/19/24 13:10
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/02/24 05:11	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 05:11	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 05:11	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 05:11	1
Chlorodibromomethane	**0.55**	**J**	1.0	0.28	ug/L			07/02/24 05:11	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 05:11	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 05:11	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 05:11	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 05:11	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 05:11	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 05:11	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 05:11	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 05:11	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 05:11	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 05:11	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 05:11	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 05:11	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 05:11	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 05:11	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 05:11	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 05:11	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 05:11	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 05:11	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 05:11	1
Trichloroethene	**0.93**	**J**	1.0	0.30	ug/L			07/02/24 05:11	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 05:11	1
Vinyl acetate	ND	*1	3.0	0.36	ug/L			07/02/24 05:11	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 05:11	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 05:11	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 05:11	1
Acrolein	ND		20	4.9	ug/L			07/02/24 05:11	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 05:11	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 05:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 05:11	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 05:11	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 05:11	1
Acetonitrile	ND		30	14	ug/L			07/02/24 05:11	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 05:11	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 05:11	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 05:11	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 05:11	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 05:11*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*07/02/24 05:11*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*07/02/24 05:11*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*07/02/24 05:11*	*1*

Client Sample ID: Muni-Well-33-20240619
Lab Sample ID: 280-193176-7

Date Collected: 06/19/24 13:28
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/02/24 05:32	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 05:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 05:32	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 05:32	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 05:32	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 05:32	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 05:32	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 05:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 05:32	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 05:32	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 05:32	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 05:32	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 05:32	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:32	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 05:32	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:32	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 05:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 05:32	1
Acetone	ND		15	6.6	ug/L			07/02/24 05:32	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 05:32	1
Bromoform	ND		2.0	0.25	ug/L			07/02/24 05:32	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 05:32	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/02/24 05:32	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 05:32	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 05:32	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 05:32	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/02/24 05:32	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 05:32	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 05:32	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 05:32	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 05:32	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 05:32	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 05:32	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 05:32	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 05:32	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 05:32	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 05:32	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 05:32	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 05:32	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 05:32	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 05:32	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 05:32	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 05:32	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 05:32	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 05:32	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 05:32	1
Trichloroethene	**1.9**		1.0	0.30	ug/L			07/02/24 05:32	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 05:32	1
Vinyl acetate	ND	*1	3.0	0.36	ug/L			07/02/24 05:32	1

Client Sample ID: Muni-Well-33-20240619
Lab Sample ID: 280-193176-7

Date Collected: 06/19/24 13:28
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 05:32	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 05:32	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 05:32	1
Acrolein	ND		20	4.9	ug/L			07/02/24 05:32	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 05:32	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 05:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 05:32	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 05:32	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 05:32	1
Acetonitrile	ND		30	14	ug/L			07/02/24 05:32	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 05:32	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 05:32	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 05:32	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 05:32	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 05:32*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/02/24 05:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*07/02/24 05:32*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*07/02/24 05:32*	*1*

Client Sample ID: TB-01-20240620
Lab Sample ID: 280-193176-8

Date Collected: 06/20/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/02/24 12:08	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 12:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 12:08	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 12:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 12:08	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 12:08	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 12:08	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 12:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 12:08	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 12:08	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 12:08	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 12:08	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 12:08	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 12:08	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 12:08	1
Acetone	ND		15	6.6	ug/L			07/02/24 12:08	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 12:08	1
Bromoform	ND		2.0	0.25	ug/L			07/02/24 12:08	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 12:08	1

Client Sample ID: TB-01-20240620
Lab Sample ID: 280-193176-8

Date Collected: 06/20/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/02/24 12:08	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 12:08	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 12:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 12:08	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/02/24 12:08	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 12:08	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 12:08	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 12:08	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 12:08	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 12:08	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 12:08	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 12:08	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 12:08	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 12:08	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 12:08	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 12:08	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 12:08	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 12:08	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 12:08	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 12:08	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 12:08	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 12:08	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 12:08	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 12:08	1
Trichloroethene	ND		1.0	0.30	ug/L			07/02/24 12:08	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 12:08	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/02/24 12:08	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 12:08	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 12:08	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 12:08	1
Acrolein	ND		20	4.9	ug/L			07/02/24 12:08	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 12:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 12:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 12:08	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 12:08	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 12:08	1
Acetonitrile	ND		30	14	ug/L			07/02/24 12:08	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 12:08	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 12:08	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 12:08	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 12:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/02/24 12:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*07/02/24 12:08*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*07/02/24 12:08*	*1*

Client Sample ID: RW-2151H-20240618
Lab Sample ID: 280-193176-9

Date Collected: 06/18/24 12:20
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 14:29	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 14:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 14:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 14:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 14:29	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 14:29	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 14:29	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 14:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 14:29	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 14:29	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 14:29	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 14:29	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 14:29	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:29	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 14:29	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:29	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 14:29	1
Acetone	ND		15	6.6	ug/L			07/01/24 14:29	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 14:29	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 14:29	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 14:29	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 14:29	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 14:29	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 14:29	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 14:29	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 14:29	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 14:29	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 14:29	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 14:29	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.32	ug/L			07/01/24 14:29	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 14:29	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 14:29	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 14:29	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 14:29	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 14:29	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 14:29	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 14:29	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 14:29	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 14:29	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 14:29	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 14:29	1
Tetrachloroethene	**3.4**		1.0	0.40	ug/L			07/01/24 14:29	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 14:29	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 14:29	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 14:29	1
Trichloroethene	**21**		1.0	0.30	ug/L			07/01/24 14:29	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 14:29	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 14:29	1

Client Sample ID: RW-2151H-20240618
Lab Sample ID: 280-193176-9

Date Collected: 06/18/24 12:20
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 14:29	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 14:29	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 14:29	1
Acrolein	ND		20	4.9	ug/L			07/01/24 14:29	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 14:29	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 14:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 14:29	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 14:29	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 14:29	1
Acetonitrile	ND		30	14	ug/L			07/01/24 14:29	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 14:29	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 14:29	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 14:29	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 14:29	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*07/01/24 14:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*07/01/24 14:29*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 14:29*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*07/01/24 14:29*	*1*

Client Sample ID: RW-8048P-20240618
Lab Sample ID: 280-193176-10

Date Collected: 06/18/24 14:00
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 14:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 14:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 14:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 14:50	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 14:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 14:50	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 14:50	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 14:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 14:50	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 14:50	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 14:50	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 14:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 14:50	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:50	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 14:50	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 14:50	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 14:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 14:50	1
Acetone	ND		15	6.6	ug/L			07/01/24 14:50	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 14:50	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 14:50	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 14:50	1

Client Sample ID: RW-8048P-20240618
Lab Sample ID: 280-193176-10

Date Collected: 06/18/24 14:00
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/01/24 14:50	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 14:50	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 14:50	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 14:50	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 14:50	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 14:50	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 14:50	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 14:50	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 14:50	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 14:50	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 14:50	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 14:50	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 14:50	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 14:50	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 14:50	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 14:50	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 14:50	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 14:50	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 14:50	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 14:50	1
Tetrachloroethene	**0.41**	**J**	1.0	0.40	ug/L			07/01/24 14:50	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 14:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 14:50	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 14:50	1
Trichloroethene	**2.9**		1.0	0.30	ug/L			07/01/24 14:50	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 14:50	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 14:50	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 14:50	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 14:50	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 14:50	1
Acrolein	ND		20	4.9	ug/L			07/01/24 14:50	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 14:50	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 14:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 14:50	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 14:50	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 14:50	1
Acetonitrile	ND		30	14	ug/L			07/01/24 14:50	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 14:50	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 14:50	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 14:50	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 14:50	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/01/24 14:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*07/01/24 14:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 14:50*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*07/01/24 14:50*	*1*

Client Sample ID: RW-8030P-20240618
Lab Sample ID: 280-193176-11

Date Collected: 06/18/24 16:10
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 15:10	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 15:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 15:10	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 15:10	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 15:10	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 15:10	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 15:10	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 15:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 15:10	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 15:10	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 15:10	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 15:10	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 15:10	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:10	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 15:10	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:10	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 15:10	1
Acetone	ND		15	6.6	ug/L			07/01/24 15:10	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 15:10	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 15:10	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 15:10	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 15:10	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 15:10	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 15:10	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 15:10	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 15:10	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 15:10	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 15:10	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 15:10	1
cis-1,2-Dichloroethene	**0.46**	**J**	1.0	0.32	ug/L			07/01/24 15:10	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 15:10	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 15:10	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 15:10	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 15:10	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 15:10	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 15:10	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 15:10	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 15:10	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 15:10	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 15:10	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 15:10	1
Tetrachloroethene	**1.0**		1.0	0.40	ug/L			07/01/24 15:10	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 15:10	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 15:10	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 15:10	1
Trichloroethene	**6.1**		1.0	0.30	ug/L			07/01/24 15:10	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 15:10	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 15:10	1

Client Sample ID: RW-8030P-20240618
Lab Sample ID: 280-193176-11

Date Collected: 06/18/24 16:10
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 15:10	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 15:10	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 15:10	1
Acrolein	ND		20	4.9	ug/L			07/01/24 15:10	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 15:10	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 15:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 15:10	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 15:10	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 15:10	1
Acetonitrile	ND		30	14	ug/L			07/01/24 15:10	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 15:10	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 15:10	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 15:10	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 15:10	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*07/01/24 15:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/01/24 15:10*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*07/01/24 15:10*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*07/01/24 15:10*	*1*

Client Sample ID: RW-7505P-20240618
Lab Sample ID: 280-193176-12

Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 15:31	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 15:31	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 15:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 15:31	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 15:31	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 15:31	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 15:31	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 15:31	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 15:31	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 15:31	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 15:31	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:31	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 15:31	1
Acetone	ND		15	6.6	ug/L			07/01/24 15:31	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 15:31	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 15:31	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 15:31	1

Client Sample ID: RW-7505P-20240618
Lab Sample ID: 280-193176-12

Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/01/24 15:31	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 15:31	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 15:31	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 15:31	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 15:31	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 15:31	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 15:31	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 15:31	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 15:31	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 15:31	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 15:31	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 15:31	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 15:31	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 15:31	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 15:31	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 15:31	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 15:31	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 15:31	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 15:31	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/01/24 15:31	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 15:31	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 15:31	1
Trichloroethene	ND		1.0	0.30	ug/L			07/01/24 15:31	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 15:31	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 15:31	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 15:31	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 15:31	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 15:31	1
Acrolein	ND		20	4.9	ug/L			07/01/24 15:31	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 15:31	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 15:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 15:31	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 15:31	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 15:31	1
Acetonitrile	ND		30	14	ug/L			07/01/24 15:31	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 15:31	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 15:31	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 15:31	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*07/01/24 15:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/01/24 15:31*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 15:31*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*07/01/24 15:31*	*1*

Client Sample ID: RW-7505P-Q-20240618
Lab Sample ID: 280-193176-13

Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/01/24 15:51	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 15:51	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 15:51	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 15:51	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 15:51	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 15:51	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 15:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 15:51	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 15:51	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 15:51	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 15:51	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 15:51	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:51	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 15:51	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 15:51	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 15:51	1
Acetone	ND		15	6.6	ug/L			07/01/24 15:51	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 15:51	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 15:51	1
Bromomethane	ND	*+	5.0	2.4	ug/L			07/01/24 15:51	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 15:51	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 15:51	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 15:51	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 15:51	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 15:51	1
Chloroethane	ND	*+	2.0	0.64	ug/L			07/01/24 15:51	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 15:51	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 15:51	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 15:51	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 15:51	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 15:51	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 15:51	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 15:51	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 15:51	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 15:51	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 15:51	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 15:51	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 15:51	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 15:51	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 15:51	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/01/24 15:51	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 15:51	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 15:51	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 15:51	1
Trichloroethene	ND		1.0	0.30	ug/L			07/01/24 15:51	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 15:51	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/01/24 15:51	1

Client Sample ID: RW-7505P-Q-20240618
Lab Sample ID: 280-193176-13

Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 15:51	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 15:51	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 15:51	1
Acrolein	ND		20	4.9	ug/L			07/01/24 15:51	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 15:51	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 15:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 15:51	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 15:51	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 15:51	1
Acetonitrile	ND		30	14	ug/L			07/01/24 15:51	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 15:51	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 15:51	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 15:51	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 15:51	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*07/01/24 15:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/01/24 15:51*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 15:51*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*07/01/24 15:51*	*1*

Client Sample ID: RW-2203H-20240619
Lab Sample ID: 280-193176-14

Date Collected: 06/19/24 18:00
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/02/24 05:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 05:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 05:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 05:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 05:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 05:53	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 05:53	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 05:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 05:53	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 05:53	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 05:53	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 05:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 05:53	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 05:53	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 05:53	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 05:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 05:53	1
Acetone	ND		15	6.6	ug/L			07/02/24 05:53	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 05:53	1
Bromoform	ND		2.0	0.25	ug/L			07/02/24 05:53	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 05:53	1

Client Sample ID: RW-2203H-20240619
Lab Sample ID: 280-193176-14

Date Collected: 06/19/24 18:00
Matrix: Water
Date Received: 06/21/24 09:20

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	0.26	ug/L			07/02/24 05:53	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 05:53	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 05:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 05:53	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/02/24 05:53	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 05:53	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 05:53	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 05:53	1
cis-1,2-Dichloroethene	**1.8**		1.0	0.32	ug/L			07/02/24 05:53	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 05:53	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 05:53	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 05:53	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 05:53	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 05:53	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 05:53	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 05:53	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 05:53	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 05:53	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 05:53	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 05:53	1
Tetrachloroethene	**2.9**		1.0	0.40	ug/L			07/02/24 05:53	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 05:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 05:53	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 05:53	1
Trichloroethene	**21**		1.0	0.30	ug/L			07/02/24 05:53	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 05:53	1
Vinyl acetate	ND	*1	3.0	0.36	ug/L			07/02/24 05:53	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 05:53	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 05:53	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 05:53	1
Acrolein	ND		20	4.9	ug/L			07/02/24 05:53	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 05:53	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 05:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 05:53	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 05:53	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 05:53	1
Acetonitrile	ND		30	14	ug/L			07/02/24 05:53	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 05:53	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 05:53	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 05:53	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 05:53	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 05:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*07/02/24 05:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*07/02/24 05:53*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*07/02/24 05:53*	*1*

Client Sample ID: RW-2076F-20240619
Lab Sample ID: 280-193176-15

Date Collected: 06/19/24 19:45
Matrix: Water
Date Received: 06/21/24 09:20

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	0.16	ug/L			07/02/24 06:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 06:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 06:14	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 06:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 06:14	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 06:14	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 06:14	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 06:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 06:14	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 06:14	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 06:14	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 06:14	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 06:14	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 06:14	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 06:14	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 06:14	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 06:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 06:14	1
Acetone	ND		15	6.6	ug/L			07/02/24 06:14	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 06:14	1
Bromoform	**2.3**		2.0	0.25	ug/L			07/02/24 06:14	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 06:14	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/02/24 06:14	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 06:14	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 06:14	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 06:14	1
Chlorodibromomethane	**4.6**		1.0	0.28	ug/L			07/02/24 06:14	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 06:14	1
Chloroform	**1.0**		1.0	0.36	ug/L			07/02/24 06:14	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 06:14	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 06:14	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 06:14	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 06:14	1
Dichlorobromomethane	**3.0**		1.0	0.19	ug/L			07/02/24 06:14	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 06:14	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 06:14	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 06:14	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 06:14	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 06:14	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 06:14	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 06:14	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 06:14	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 06:14	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 06:14	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 06:14	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 06:14	1
Trichloroethene	ND		1.0	0.30	ug/L			07/02/24 06:14	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 06:14	1
Vinyl acetate	ND	*1	3.0	0.36	ug/L			07/02/24 06:14	1

Client Sample ID: RW-2076F-20240619
Lab Sample ID: 280-193176-15

Date Collected: 06/19/24 19:45
Matrix: Water
Date Received: 06/21/24 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 06:14	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 06:14	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 06:14	1
Acrolein	ND		20	4.9	ug/L			07/02/24 06:14	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 06:14	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 06:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 06:14	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 06:14	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 06:14	1
Acetonitrile	ND		30	14	ug/L			07/02/24 06:14	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 06:14	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 06:14	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 06:14	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 06:14	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 06:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*07/02/24 06:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*07/02/24 06:14*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*07/02/24 06:14*	*1*

Default Detection Limits

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.16	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	0.19	ug/L
1,2,3-Trichloropropane	2.5	0.28	ug/L
1,2,4-Trichlorobenzene	1.0	0.58	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.42	ug/L
1,2-Dibromoethane	1.0	0.18	ug/L
1,2-Dichlorobenzene	1.0	0.14	ug/L
1,2-Dichloroethane	1.0	0.28	ug/L
1,2-Dichloropropane	1.0	0.24	ug/L
1,3-Dichlorobenzene	1.0	0.33	ug/L
1,3-Dichloropropane	1.0	0.17	ug/L
1,4-Dichlorobenzene	1.0	0.39	ug/L
2,2-Dichloropropane	1.0	0.17	ug/L
2-Butanone (MEK)	10	4.6	ug/L
2-Hexanone	5.0	0.81	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.98	ug/L
Acetone	15	6.6	ug/L
Acetonitrile	30	14	ug/L
Acrolein	20	4.9	ug/L
Acrylonitrile	20	1.7	ug/L
Allyl chloride	2.0	0.46	ug/L
Benzene	1.0	0.14	ug/L
Bromoform	2.0	0.25	ug/L
Bromomethane	5.0	2.4	ug/L
Carbon disulfide	2.0	0.26	ug/L
Carbon tetrachloride	1.0	0.23	ug/L
Chlorobenzene	1.0	0.092	ug/L
Chlorobromomethane	1.0	0.40	ug/L
Chlorodibromomethane	1.0	0.28	ug/L
Chloroethane	2.0	0.64	ug/L
Chloroform	1.0	0.36	ug/L
Chloromethane	2.0	0.23	ug/L
Chloroprene	3.0	0.79	ug/L
cis-1,2-Dichloroethene	1.0	0.32	ug/L
cis-1,3-Dichloropropene	1.0	0.16	ug/L
Dibromomethane	1.0	0.34	ug/L
Dichlorobromomethane	1.0	0.19	ug/L
Dichlorodifluoromethane	2.0	0.30	ug/L
Ethyl methacrylate	3.0	0.19	ug/L
Ethylbenzene	1.0	0.14	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	0.11	ug/L
Propionitrile	20	3.7	ug/L

Default Detection Limits

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Analyte	RL	MDL	Units
Styrene	1.0	0.13	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	1.0	0.14	ug/L
trans-1,4-Dichloro-2-butene	3.0	0.51	ug/L
Trichloroethene	1.0	0.30	ug/L
Trichlorofluoromethane	2.0	0.20	ug/L
Vinyl acetate	3.0	0.36	ug/L
Vinyl chloride	1.0	0.23	ug/L
Xylenes, Total	1.0	0.11	ug/L

Surrogate Summary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(80-125)	(77-120)
280-193176-1	RW-2237H-20240618	102	104	104	96
280-193176-2	RW-2213F-20240618	101	101	105	97
280-193176-2 MS	RW-2213F-20240618	100	98	100	97
280-193176-2 MSD	RW-2213F-20240618	100	101	102	96
280-193176-3	RW-2172H-20240618	104	102	105	100
280-193176-4	RW-8284P-20240618	103	103	103	98
280-193176-5	RW-7677P-20240618	99	102	103	97
280-193176-6	Muni-Well-14-20240619	101	99	98	100
280-193176-7	Muni-Well-33-20240619	101	101	100	101
280-193176-8	TB-01-20240620	101	101	99	101
280-193176-9	RW-2151H-20240618	104	103	104	100
280-193176-10	RW-8048P-20240618	101	102	104	99
280-193176-11	RW-8030P-20240618	103	101	103	98
280-193176-12	RW-7505P-20240618	102	101	104	99
280-193176-13	RW-7505P-Q-20240618	103	101	104	100
280-193176-14	RW-2203H-20240619	101	98	99	99
280-193176-15	RW-2076F-20240619	101	99	100	99
LCS 280-658893/4	Lab Control Sample	104	105	104	95
LCS 280-658893/6	Lab Control Sample	102	104	102	99
LCS 280-658996/4	Lab Control Sample	102	102	100	102
LCS 280-658996/5	Lab Control Sample	100	105	102	98
LCS 280-659045/4	Lab Control Sample	103	99	100	101
LCS 280-659045/5	Lab Control Sample	100	101	99	101
LCSD 280-658893/5	Lab Control Sample Dup	103	103	100	96
LCSD 280-658893/7	Lab Control Sample Dup	101	108	106	96
LCSD 280-658996/6	Lab Control Sample Dup	102	101	99	99
LCSD 280-658996/7	Lab Control Sample Dup	99	104	101	102
LCSD 280-659045/6	Lab Control Sample Dup	101	103	100	102
LCSD 280-659045/7	Lab Control Sample Dup	100	103	101	101
MB 280-658893/9	Method Blank	103	102	104	99
MB 280-658996/9	Method Blank	100	101	100	101
MB 280-659045/9	Method Blank	101	103	98	100

Surrogate Legend

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

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

Lab Sample ID: MB 280-658893/9
Matrix: Water
Analysis Batch: 658893

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	0.16	ug/L			07/01/24 12:06	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/01/24 12:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/24 12:06	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/01/24 12:06	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/01/24 12:06	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/01/24 12:06	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/01/24 12:06	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/01/24 12:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/01/24 12:06	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/01/24 12:06	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/01/24 12:06	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/01/24 12:06	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/01/24 12:06	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 12:06	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/01/24 12:06	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/01/24 12:06	1
2-Hexanone	ND		5.0	0.81	ug/L			07/01/24 12:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/01/24 12:06	1
Acetone	ND		15	6.6	ug/L			07/01/24 12:06	1
Benzene	ND		1.0	0.14	ug/L			07/01/24 12:06	1
Bromoform	ND		2.0	0.25	ug/L			07/01/24 12:06	1
Bromomethane	ND		5.0	2.4	ug/L			07/01/24 12:06	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/01/24 12:06	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/01/24 12:06	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/01/24 12:06	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/01/24 12:06	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/01/24 12:06	1
Chloroethane	ND		2.0	0.64	ug/L			07/01/24 12:06	1
Chloroform	ND		1.0	0.36	ug/L			07/01/24 12:06	1
Chloromethane	ND		2.0	0.23	ug/L			07/01/24 12:06	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/01/24 12:06	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/01/24 12:06	1
Dibromomethane	ND		1.0	0.34	ug/L			07/01/24 12:06	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/01/24 12:06	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/01/24 12:06	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/01/24 12:06	1
Iodomethane	ND		5.0	2.6	ug/L			07/01/24 12:06	1
Isobutyl alcohol	ND		110	37	ug/L			07/01/24 12:06	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/01/24 12:06	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/01/24 12:06	1
o-Xylene	ND		1.0	0.11	ug/L			07/01/24 12:06	1
Styrene	ND		1.0	0.13	ug/L			07/01/24 12:06	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/01/24 12:06	1
Toluene	ND		1.0	0.32	ug/L			07/01/24 12:06	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/01/24 12:06	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/01/24 12:06	1
Trichloroethene	ND		1.0	0.30	ug/L			07/01/24 12:06	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/01/24 12:06	1

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

Lab Sample ID: MB 280-658893/9
Matrix: Water
Analysis Batch: 658893

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	0.36	ug/L			07/01/24 12:06	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/01/24 12:06	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/01/24 12:06	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/01/24 12:06	1
Acrolein	ND		20	4.9	ug/L			07/01/24 12:06	1
Acrylonitrile	ND		20	1.7	ug/L			07/01/24 12:06	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/01/24 12:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/01/24 12:06	1
Allyl chloride	ND		2.0	0.46	ug/L			07/01/24 12:06	1
Chloroprene	ND		3.0	0.79	ug/L			07/01/24 12:06	1
Acetonitrile	ND		30	14	ug/L			07/01/24 12:06	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/01/24 12:06	1
Methacrylonitrile	ND		15	5.3	ug/L			07/01/24 12:06	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/01/24 12:06	1
Propionitrile	ND		20	3.7	ug/L			07/01/24 12:06	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/01/24 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*07/01/24 12:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*07/01/24 12:06*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*07/01/24 12:06*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*07/01/24 12:06*	*1*

Lab Sample ID: LCS 280-658893/4
Matrix: Water
Analysis Batch: 658893

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	50.1		ug/L		100	80 - 124
1,1,1-Trichloroethane	50.0	46.8		ug/L		94	80 - 123
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	74 - 123
1,1,2-Trichloroethane	50.0	44.8		ug/L		90	80 - 120
1,1-Dichloroethane	50.0	45.8		ug/L		92	78 - 121
1,1-Dichloroethene	50.0	47.0		ug/L		94	77 - 121
1,1-Dichloropropene	50.0	47.2		ug/L		94	77 - 123
1,2,3-Trichloropropane	50.0	47.9		ug/L		96	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/L		94	73 - 128
1,2-Dichlorobenzene	50.0	46.0		ug/L		92	80 - 120
1,2-Dichloroethane	50.0	43.6		ug/L		87	71 - 121
1,2-Dichloropropane	50.0	45.2		ug/L		90	78 - 120
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120
1,3-Dichloropropane	50.0	48.0		ug/L		96	77 - 122
1,4-Dichlorobenzene	50.0	45.7		ug/L		91	80 - 120
2,2-Dichloropropane	50.0	45.1		ug/L		90	75 - 131
2-Hexanone	200	168		ug/L		84	62 - 137
4-Methyl-2-pentanone (MIBK)	200	161		ug/L		80	66 - 135
Acetone	200	160		ug/L		80	61 - 134
Benzene	50.0	46.8		ug/L		94	80 - 120

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

Lab Sample ID: LCS 280-658893/4
Matrix: Water
Analysis Batch: 658893

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	51.0		ug/L		102	79 - 138
Bromomethane	50.0	64.3		ug/L		129	29 - 148
Carbon disulfide	50.0	48.0		ug/L		96	70 - 121
Carbon tetrachloride	50.0	50.6		ug/L		101	79 - 127
Chlorobenzene	50.0	45.5		ug/L		91	80 - 120
Chlorobromomethane	50.0	45.1		ug/L		90	80 - 123
Chlorodibromomethane	50.0	50.7		ug/L		101	80 - 125
Chloroethane	50.0	70.8	*+	ug/L		142	56 - 141
Chloroform	50.0	45.0		ug/L		90	80 - 120
Chloromethane	50.0	52.3		ug/L		105	56 - 133
cis-1,2-Dichloroethene	50.0	45.8		ug/L		92	80 - 120
cis-1,3-Dichloropropene	50.0	47.1		ug/L		94	76 - 129
Dibromomethane	50.0	44.4		ug/L		89	80 - 120
Dichlorobromomethane	50.0	48.0		ug/L		96	80 - 123
Dichlorodifluoromethane	50.0	55.6		ug/L		111	47 - 135
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120
Iodomethane	50.0	40.0		ug/L		80	43 - 139
Isobutyl alcohol	1250	1070		ug/L		86	46 - 146
Methylene Chloride	50.0	43.0		ug/L		86	78 - 120
m-Xylene & p-Xylene	50.0	45.6		ug/L		91	80 - 120
o-Xylene	50.0	45.2		ug/L		90	80 - 120
Styrene	50.0	46.6		ug/L		93	80 - 120
Tetrachloroethene	50.0	46.3		ug/L		93	80 - 121
Toluene	50.0	43.7		ug/L		87	80 - 120
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	79 - 121
trans-1,3-Dichloropropene	50.0	45.8		ug/L		92	80 - 123
Trichloroethene	50.0	46.6		ug/L		93	80 - 120
Trichlorofluoromethane	50.0	49.4		ug/L		99	54 - 144
Vinyl acetate	100	88.8		ug/L		89	55 - 161
Vinyl chloride	50.0	53.5		ug/L		107	67 - 127
Xylenes, Total	100	90.8		ug/L		91	80 - 120
2-Butanone (MEK)	200	149		ug/L		74	58 - 135
Acrolein	494	408		ug/L		83	31 - 174
Acrylonitrile	500	424		ug/L		85	70 - 126
1,2-Dibromoethane	50.0	45.0		ug/L		90	80 - 120
1,2,4-Trichlorobenzene	50.0	42.1		ug/L		84	74 - 126
Allyl chloride	50.0	42.4		ug/L		85	65 - 132
Ethyl methacrylate	50.0	51.1		ug/L		102	80 - 122
trans-1,4-Dichloro-2-butene	50.0	40.9		ug/L		82	51 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Toluene-d8 (Surr)	*104*		*80 - 125*
Dibromofluoromethane (Surr)	*95*		*77 - 120*

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

Lab Sample ID: LCS 280-658893/6
Matrix: Water
Analysis Batch: 658893

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	24.1		ug/L		96	47 - 146		
Acetonitrile			250	208		ug/L		83	23 - 155		
Methacrylonitrile			250	214		ug/L		86	42 - 142		
Methyl methacrylate			50.0	41.7		ug/L		83	60 - 133		
Propionitrile			250	220		ug/L		88	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

Lab Sample ID: LCSD 280-658893/5
Matrix: Water
Analysis Batch: 658893

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	53.2		ug/L		106	80 - 124	6	20
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	80 - 123	6	20
1,1,2,2-Tetrachloroethane			50.0	48.3		ug/L		97	74 - 123	0	20
1,1,2-Trichloroethane			50.0	48.7		ug/L		97	80 - 120	8	20
1,1-Dichloroethane			50.0	48.7		ug/L		97	78 - 121	6	20
1,1-Dichloroethene			50.0	48.5		ug/L		97	77 - 121	3	21
1,1-Dichloropropene			50.0	49.0		ug/L		98	77 - 123	4	20
1,2,3-Trichloropropane			50.0	48.8		ug/L		98	80 - 120	2	20
1,2-Dibromo-3-Chloropropane			50.0	52.1		ug/L		104	73 - 128	10	21
1,2-Dichlorobenzene			50.0	48.8		ug/L		98	80 - 120	6	20
1,2-Dichloroethane			50.0	47.3		ug/L		95	71 - 121	8	20
1,2-Dichloropropane			50.0	48.3		ug/L		97	78 - 120	7	20
1,3-Dichlorobenzene			50.0	49.5		ug/L		99	80 - 120	6	20
1,3-Dichloropropane			50.0	50.1		ug/L		100	77 - 122	4	20
1,4-Dichlorobenzene			50.0	48.3		ug/L		97	80 - 120	5	20
2,2-Dichloropropane			50.0	45.7		ug/L		91	75 - 131	1	22
2-Hexanone			200	172		ug/L		86	62 - 137	2	21
4-Methyl-2-pentanone (MIBK)			200	172		ug/L		86	66 - 135	7	20
Acetone			200	174		ug/L		87	61 - 134	9	21
Benzene			50.0	50.0		ug/L		100	80 - 120	7	20
Bromoform			50.0	56.7		ug/L		113	79 - 138	11	20
Bromomethane			50.0	76.8	*+	ug/L		154	29 - 148	18	40
Carbon disulfide			50.0	50.2		ug/L		100	70 - 121	5	20
Carbon tetrachloride			50.0	52.0		ug/L		104	79 - 127	3	20
Chlorobenzene			50.0	48.7		ug/L		97	80 - 120	7	20
Chlorobromomethane			50.0	47.8		ug/L		96	80 - 123	6	20
Chlorodibromomethane			50.0	53.8		ug/L		108	80 - 125	6	20
Chloroethane			50.0	60.3		ug/L		121	56 - 141	16	30
Chloroform			50.0	47.9		ug/L		96	80 - 120	6	20
Chloromethane			50.0	60.4		ug/L		121	56 - 133	14	20
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	7	20

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

Lab Sample ID: LCSD 280-658893/5
Matrix: Water
Analysis Batch: 658893

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	48.4		ug/L		97	76 - 129	3	20
Dibromomethane	50.0	48.3		ug/L		97	80 - 120	8	20
Dichlorobromomethane	50.0	51.0		ug/L		102	80 - 123	6	20
Dichlorodifluoromethane	50.0	55.4		ug/L		111	47 - 135	0	21
Ethylbenzene	50.0	50.3		ug/L		101	80 - 120	6	20
Iodomethane	50.0	46.0		ug/L		92	43 - 139	14	38
Isobutyl alcohol	1250	1180		ug/L		94	46 - 146	9	30
Methylene Chloride	50.0	47.0		ug/L		94	78 - 120	9	20
m-Xylene & p-Xylene	50.0	48.6		ug/L		97	80 - 120	6	20
o-Xylene	50.0	49.9		ug/L		100	80 - 120	10	20
Styrene	50.0	51.4		ug/L		103	80 - 120	10	20
Tetrachloroethene	50.0	48.8		ug/L		98	80 - 121	5	20
Toluene	50.0	46.6		ug/L		93	80 - 120	6	20
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	79 - 121	6	20
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	80 - 123	5	20
Trichloroethene	50.0	48.6		ug/L		97	80 - 120	4	20
Trichlorofluoromethane	50.0	49.3		ug/L		99	54 - 144	0	28
Vinyl acetate	100	84.7		ug/L		85	55 - 161	5	23
Vinyl chloride	50.0	58.8		ug/L		118	67 - 127	9	25
Xylenes, Total	100	98.5		ug/L		99	80 - 120	8	20
2-Butanone (MEK)	200	162		ug/L		81	58 - 135	8	20
Acrolein	494	428		ug/L		87	31 - 174	5	23
Acrylonitrile	500	458		ug/L		92	70 - 126	8	20
1,2-Dibromoethane	50.0	49.1		ug/L		98	80 - 120	9	20
1,2,4-Trichlorobenzene	50.0	46.3		ug/L		93	74 - 126	9	20
Allyl chloride	50.0	44.3		ug/L		89	65 - 132	4	20
Ethyl methacrylate	50.0	51.8		ug/L		104	80 - 122	2	20
trans-1,4-Dichloro-2-butene	50.0	39.5		ug/L		79	51 - 138	3	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*96*		*77 - 120*

Lab Sample ID: LCSD 280-658893/7
Matrix: Water
Analysis Batch: 658893

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	25.1		ug/L		100	47 - 146	4	20
Acetonitrile	250	232		ug/L		93	23 - 155	11	20
Methacrylonitrile	250	218		ug/L		87	42 - 142	2	20
Methyl methacrylate	50.0	42.7		ug/L		85	60 - 133	2	20
Propionitrile	250	236		ug/L		95	45 - 144	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*

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

Lab Sample ID: LCSD 280-658893/7
Matrix: Water
Analysis Batch: 658893

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)	*106*		*80 - 125*
Dibromofluoromethane (Surr)	*96*		*77 - 120*

Lab Sample ID: 280-193176-2 MS
Matrix: Water
Analysis Batch: 658893

Client Sample ID: RW-2213F-20240618
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	53.5		ug/L		107	80 - 124
1,1,1-Trichloroethane	ND		50.0	49.8		ug/L		100	80 - 123
1,1,2,2-Tetrachloroethane	ND		50.0	50.6		ug/L		101	74 - 123
1,1,2-Trichloroethane	ND		50.0	49.5		ug/L		99	80 - 120
1,1-Dichloroethane	ND		50.0	48.3		ug/L		97	78 - 121
1,1-Dichloroethene	ND		50.0	48.7		ug/L		97	77 - 121
1,1-Dichloropropene	ND		50.0	48.5		ug/L		97	77 - 123
1,2,3-Trichloropropane	ND		50.0	49.3		ug/L		99	80 - 120
1,2-Dibromo-3-Chloropropane	ND		50.0	51.8		ug/L		104	73 - 128
1,2-Dichlorobenzene	ND		50.0	49.4		ug/L		99	80 - 120
1,2-Dichloroethane	ND		50.0	47.0		ug/L		94	71 - 121
1,2-Dichloropropane	ND		50.0	47.1		ug/L		94	78 - 120
1,3-Dichlorobenzene	ND		50.0	48.8		ug/L		98	80 - 120
1,3-Dichloropropane	ND		50.0	50.0		ug/L		100	77 - 122
1,4-Dichlorobenzene	ND		50.0	48.2		ug/L		96	80 - 120
2,2-Dichloropropane	ND		50.0	41.9		ug/L		84	75 - 131
2-Hexanone	ND		200	167		ug/L		83	62 - 137
4-Methyl-2-pentanone (MIBK)	ND		200	164		ug/L		82	66 - 135
Acetone	ND		200	159		ug/L		79	61 - 134
Benzene	ND		50.0	49.7		ug/L		99	80 - 120
Bromoform	ND		50.0	57.0		ug/L		114	79 - 138
Bromomethane	ND	*+	50.0	67.7		ug/L		135	29 - 148
Carbon disulfide	ND		50.0	49.5		ug/L		99	70 - 121
Carbon tetrachloride	ND		50.0	53.2		ug/L		106	79 - 127
Chlorobenzene	ND		50.0	49.2		ug/L		98	80 - 120
Chlorobromomethane	ND		50.0	49.1		ug/L		98	80 - 123
Chlorodibromomethane	ND		50.0	53.9		ug/L		108	80 - 125
Chloroethane	ND	*+	50.0	62.9		ug/L		126	56 - 141
Chloroform	ND		50.0	48.9		ug/L		98	80 - 120
Chloromethane	ND		50.0	52.4		ug/L		105	56 - 133
cis-1,2-Dichloroethene	ND		50.0	50.6		ug/L		101	80 - 120
cis-1,3-Dichloropropene	ND		50.0	45.8		ug/L		92	76 - 129
Dibromomethane	ND		50.0	48.3		ug/L		97	80 - 120
Dichlorobromomethane	ND		50.0	50.6		ug/L		101	80 - 123
Dichlorodifluoromethane	ND		50.0	52.5		ug/L		105	47 - 135
Ethylbenzene	ND		50.0	50.2		ug/L		100	80 - 120
Iodomethane	ND		50.0	40.6		ug/L		81	43 - 139
Isobutyl alcohol	ND		1250	1120		ug/L		90	46 - 146
Methylene Chloride	ND		50.0	46.3		ug/L		93	78 - 120

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

Lab Sample ID: 280-193176-2 MS
Client Sample ID: RW-2213F-20240618
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 658893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	ND		50.0	49.2		ug/L		98	80 - 120
o-Xylene	ND		50.0	50.7		ug/L		101	80 - 120
Styrene	ND		50.0	51.4		ug/L		103	80 - 120
Tetrachloroethene	ND		50.0	49.6		ug/L		99	80 - 121
Toluene	ND		50.0	46.4		ug/L		93	80 - 120
trans-1,2-Dichloroethene	ND		50.0	49.9		ug/L		100	79 - 121
trans-1,3-Dichloropropene	ND		50.0	46.8		ug/L		94	80 - 123
Trichloroethene	ND		50.0	47.4		ug/L		95	80 - 120
Trichlorofluoromethane	ND		50.0	49.6		ug/L		99	54 - 144
Vinyl acetate	ND		100	95.4		ug/L		95	55 - 161
Vinyl chloride	ND		50.0	53.7		ug/L		107	67 - 127
Xylenes, Total	ND		100	99.9		ug/L		100	80 - 120
2-Butanone (MEK)	ND		200	153		ug/L		77	58 - 135
Acrolein	ND		494	430		ug/L		87	31 - 174
Acrylonitrile	ND		500	449		ug/L		90	70 - 126
1,2-Dibromoethane	ND		50.0	48.3		ug/L		97	80 - 120
1,2,4-Trichlorobenzene	ND		50.0	45.3		ug/L		91	74 - 126
Allyl chloride	ND		50.0	41.5		ug/L		83	65 - 132
Ethyl methacrylate	ND		50.0	50.3		ug/L		101	80 - 122
trans-1,4-Dichloro-2-butene	ND		50.0	38.2		ug/L		76	51 - 138

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*97*		*77 - 120*

Lab Sample ID: 280-193176-2 MSD
Client Sample ID: RW-2213F-20240618
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 658893

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	53.6		ug/L		107	80 - 124	0	20
1,1,1-Trichloroethane	ND		50.0	49.2		ug/L		98	80 - 123	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	47.9		ug/L		96	74 - 123	5	20
1,1,2-Trichloroethane	ND		50.0	48.0		ug/L		96	80 - 120	3	20
1,1-Dichloroethane	ND		50.0	47.3		ug/L		95	78 - 121	2	20
1,1-Dichloroethene	ND		50.0	47.9		ug/L		96	77 - 121	2	21
1,1-Dichloropropene	ND		50.0	48.9		ug/L		98	77 - 123	1	20
1,2,3-Trichloropropane	ND		50.0	48.1		ug/L		96	80 - 120	2	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.1		ug/L		102	73 - 128	1	21
1,2-Dichlorobenzene	ND		50.0	49.4		ug/L		99	80 - 120	0	20
1,2-Dichloroethane	ND		50.0	45.9		ug/L		92	71 - 121	2	20
1,2-Dichloropropane	ND		50.0	46.9		ug/L		94	78 - 120	0	20
1,3-Dichlorobenzene	ND		50.0	49.1		ug/L		98	80 - 120	1	20
1,3-Dichloropropane	ND		50.0	48.8		ug/L		98	77 - 122	2	20
1,4-Dichlorobenzene	ND		50.0	47.7		ug/L		95	80 - 120	1	20
2,2-Dichloropropane	ND		50.0	40.8		ug/L		82	75 - 131	3	22

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

Lab Sample ID: 280-193176-2 MSD
Client Sample ID: RW-2213F-20240618
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 658893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Hexanone	ND		200	158		ug/L		79	62 - 137	6	21
4-Methyl-2-pentanone (MIBK)	ND		200	155		ug/L		78	66 - 135	6	20
Acetone	ND		200	156		ug/L		78	61 - 134	2	21
Benzene	ND		50.0	49.2		ug/L		98	80 - 120	1	20
Bromoform	ND		50.0	54.7		ug/L		109	79 - 138	4	20
Bromomethane	ND	*+	50.0	71.5		ug/L		143	29 - 148	6	40
Carbon disulfide	ND		50.0	48.7		ug/L		97	70 - 121	2	20
Carbon tetrachloride	ND		50.0	52.8		ug/L		106	79 - 127	1	20
Chlorobenzene	ND		50.0	48.8		ug/L		98	80 - 120	1	20
Chlorobromomethane	ND		50.0	48.6		ug/L		97	80 - 123	1	20
Chlorodibromomethane	ND		50.0	53.3		ug/L		107	80 - 125	1	20
Chloroethane	ND	*+	50.0	69.0		ug/L		138	56 - 141	9	30
Chloroform	ND		50.0	47.8		ug/L		96	80 - 120	2	20
Chloromethane	ND		50.0	60.8		ug/L		122	56 - 133	15	20
cis-1,2-Dichloroethene	ND		50.0	49.2		ug/L		98	80 - 120	3	20
cis-1,3-Dichloropropene	ND		50.0	45.6		ug/L		91	76 - 129	0	20
Dibromomethane	ND		50.0	46.9		ug/L		94	80 - 120	3	20
Dichlorobromomethane	ND		50.0	50.0		ug/L		100	80 - 123	1	20
Dichlorodifluoromethane	ND		50.0	55.1		ug/L		110	47 - 135	5	21
Ethylbenzene	ND		50.0	50.4		ug/L		101	80 - 120	0	20
Iodomethane	ND		50.0	49.2		ug/L		98	43 - 139	19	38
Isobutyl alcohol	ND		1250	1050		ug/L		84	46 - 146	7	30
Methylene Chloride	ND		50.0	46.1		ug/L		92	78 - 120	0	20
m-Xylene & p-Xylene	ND		50.0	49.1		ug/L		98	80 - 120	0	20
o-Xylene	ND		50.0	50.1		ug/L		100	80 - 120	1	20
Styrene	ND		50.0	50.8		ug/L		102	80 - 120	1	20
Tetrachloroethene	ND		50.0	49.1		ug/L		98	80 - 121	1	20
Toluene	ND		50.0	45.6		ug/L		91	80 - 120	2	20
trans-1,2-Dichloroethene	ND		50.0	49.2		ug/L		98	79 - 121	2	20
trans-1,3-Dichloropropene	ND		50.0	46.0		ug/L		92	80 - 123	2	20
Trichloroethene	ND		50.0	46.9		ug/L		94	80 - 120	1	20
Trichlorofluoromethane	ND		50.0	47.5		ug/L		95	54 - 144	4	28
Vinyl acetate	ND		100	92.9		ug/L		93	55 - 161	3	23
Vinyl chloride	ND		50.0	59.1		ug/L		118	67 - 127	10	25
Xylenes, Total	ND		100	99.2		ug/L		99	80 - 120	1	20
2-Butanone (MEK)	ND		200	145		ug/L		72	58 - 135	6	20
Acrolein	ND		494	401		ug/L		81	31 - 174	7	23
Acrylonitrile	ND		500	423		ug/L		85	70 - 126	6	20
1,2-Dibromoethane	ND		50.0	47.7		ug/L		95	80 - 120	1	20
1,2,4-Trichlorobenzene	ND		50.0	46.1		ug/L		92	74 - 126	2	20
Allyl chloride	ND		50.0	42.4		ug/L		85	65 - 132	2	20
Ethyl methacrylate	ND		50.0	48.6		ug/L		97	80 - 122	3	20
trans-1,4-Dichloro-2-butene	ND		50.0	36.7		ug/L		73	51 - 138	4	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

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

Lab Sample ID: 280-193176-2 MSD
Matrix: Water
Analysis Batch: 658893

Client Sample ID: RW-2213F-20240618
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	96		77 - 120

Lab Sample ID: MB 280-658996/9
Matrix: Water
Analysis Batch: 658996

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	0.16	ug/L			07/02/24 00:29	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 00:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 00:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 00:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 00:29	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 00:29	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 00:29	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 00:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 00:29	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 00:29	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 00:29	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 00:29	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 00:29	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 00:29	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 00:29	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 00:29	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 00:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 00:29	1
Acetone	ND		15	6.6	ug/L			07/02/24 00:29	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 00:29	1
Bromoform	ND		2.0	0.25	ug/L			07/02/24 00:29	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 00:29	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/02/24 00:29	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 00:29	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 00:29	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 00:29	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/02/24 00:29	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 00:29	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 00:29	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 00:29	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 00:29	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			07/02/24 00:29	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 00:29	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 00:29	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 00:29	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 00:29	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 00:29	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 00:29	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 00:29	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 00:29	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 00:29	1

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

Lab Sample ID: MB 280-658996/9
Matrix: Water
Analysis Batch: 658996

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.13	ug/L			07/02/24 00:29	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 00:29	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 00:29	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 00:29	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 00:29	1
Trichloroethene	ND		1.0	0.30	ug/L			07/02/24 00:29	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 00:29	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/02/24 00:29	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 00:29	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 00:29	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 00:29	1
Acrolein	ND		20	4.9	ug/L			07/02/24 00:29	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 00:29	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 00:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 00:29	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 00:29	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 00:29	1
Acetonitrile	ND		30	14	ug/L			07/02/24 00:29	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 00:29	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 00:29	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 00:29	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 00:29	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 00:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*07/02/24 00:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*07/02/24 00:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*07/02/24 00:29*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*07/02/24 00:29*	*1*

Lab Sample ID: LCS 280-658996/4
Matrix: Water
Analysis Batch: 658996

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	52.2		ug/L		104	80 - 124
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	80 - 123
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	74 - 123
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	80 - 120
1,1-Dichloroethane	50.0	48.1		ug/L		96	78 - 121
1,1-Dichloroethene	50.0	44.5		ug/L		89	77 - 121
1,1-Dichloropropene	50.0	47.0		ug/L		94	77 - 123
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.9		ug/L		94	73 - 128
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	52.1		ug/L		104	71 - 121
1,2-Dichloropropane	50.0	47.0		ug/L		94	78 - 120
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120

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

Lab Sample ID: LCS 280-658996/4
Matrix: Water
Analysis Batch: 658996

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	50.0	48.9		ug/L		98	77 - 122
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	47.0		ug/L		94	75 - 131
2-Hexanone	200	212		ug/L		106	62 - 137
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		106	66 - 135
Acetone	200	187		ug/L		93	61 - 134
Benzene	50.0	47.1		ug/L		94	80 - 120
Bromoform	50.0	52.8		ug/L		106	79 - 138
Bromomethane	50.0	48.5		ug/L		97	29 - 148
Carbon disulfide	50.0	44.6		ug/L		89	70 - 121
Carbon tetrachloride	50.0	52.6		ug/L		105	79 - 127
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120
Chlorobromomethane	50.0	46.6		ug/L		93	80 - 123
Chlorodibromomethane	50.0	53.5		ug/L		107	80 - 125
Chloroethane	50.0	44.5		ug/L		89	56 - 141
Chloroform	50.0	49.1		ug/L		98	80 - 120
Chloromethane	50.0	43.9		ug/L		88	56 - 133
cis-1,2-Dichloroethene	50.0	46.4		ug/L		93	80 - 120
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	76 - 129
Dibromomethane	50.0	50.0		ug/L		100	80 - 120
Dichlorobromomethane	50.0	53.3		ug/L		107	80 - 123
Dichlorodifluoromethane	50.0	40.6		ug/L		81	47 - 135
Ethylbenzene	50.0	48.1		ug/L		96	80 - 120
Iodomethane	50.0	38.4		ug/L		77	43 - 139
Isobutyl alcohol	1250	1380		ug/L		110	46 - 146
Methylene Chloride	50.0	42.0		ug/L		84	78 - 120
m-Xylene & p-Xylene	50.0	49.4		ug/L		99	80 - 120
o-Xylene	50.0	51.6		ug/L		103	80 - 120
Styrene	50.0	52.4		ug/L		105	80 - 120
Tetrachloroethene	50.0	46.9		ug/L		94	80 - 121
Toluene	50.0	48.6		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	46.2		ug/L		92	79 - 121
trans-1,3-Dichloropropene	50.0	54.7		ug/L		109	80 - 123
Trichloroethene	50.0	48.6		ug/L		97	80 - 120
Trichlorofluoromethane	50.0	47.8		ug/L		96	54 - 144
Vinyl acetate	100	97.5		ug/L		97	55 - 161
Vinyl chloride	50.0	45.7		ug/L		91	67 - 127
Xylenes, Total	100	101		ug/L		101	80 - 120
2-Butanone (MEK)	200	189		ug/L		95	58 - 135
Acrolein	494	538		ug/L		109	31 - 174
Acrylonitrile	500	447		ug/L		89	70 - 126
1,2-Dibromoethane	50.0	49.0		ug/L		98	80 - 120
1,2,4-Trichlorobenzene	50.0	47.5		ug/L		95	74 - 126
Allyl chloride	50.0	47.6		ug/L		95	65 - 132
Ethyl methacrylate	50.0	52.1		ug/L		104	80 - 122
trans-1,4-Dichloro-2-butene	50.0	56.4		ug/L		113	51 - 138

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

Lab Sample ID: LCS 280-658996/4
Matrix: Water
Analysis Batch: 658996

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

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)	*102*		*77 - 120*

Lab Sample ID: LCS 280-658996/5
Matrix: Water
Analysis Batch: 658996

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	25.5		ug/L		102	47 - 146
Acetonitrile	250	244		ug/L		97	23 - 155
Methacrylonitrile	250	267		ug/L		107	42 - 142
Methyl methacrylate	50.0	44.1		ug/L		88	60 - 133
Propionitrile	250	232		ug/L		93	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*
Dibromofluoromethane (Surr)	*98*		*77 - 120*

Lab Sample ID: LCSD 280-658996/6
Matrix: Water
Analysis Batch: 658996

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	55.3		ug/L		111	80 - 124	6	20
1,1,1-Trichloroethane	50.0	55.1		ug/L		110	80 - 123	8	20
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	74 - 123	3	20
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	80 - 120	7	20
1,1-Dichloroethane	50.0	50.5		ug/L		101	78 - 121	5	20
1,1-Dichloroethene	50.0	46.2		ug/L		92	77 - 121	4	21
1,1-Dichloropropene	50.0	51.0		ug/L		102	77 - 123	8	20
1,2,3-Trichloropropane	50.0	48.4		ug/L		97	80 - 120	5	20
1,2-Dibromo-3-Chloropropane	50.0	47.1		ug/L		94	73 - 128	0	21
1,2-Dichlorobenzene	50.0	56.0		ug/L		112	80 - 120	8	20
1,2-Dichloroethane	50.0	56.4		ug/L		113	71 - 121	8	20
1,2-Dichloropropane	50.0	50.4		ug/L		101	78 - 120	7	20
1,3-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 120	6	20
1,3-Dichloropropane	50.0	50.4		ug/L		101	77 - 122	3	20
1,4-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 120	7	20
2,2-Dichloropropane	50.0	50.1		ug/L		100	75 - 131	6	22
2-Hexanone	200	216		ug/L		108	62 - 137	2	21
4-Methyl-2-pentanone (MIBK)	200	224		ug/L		112	66 - 135	5	20
Acetone	200	200		ug/L		100	61 - 134	7	21
Benzene	50.0	49.8		ug/L		100	80 - 120	6	20
Bromoform	50.0	55.4		ug/L		111	79 - 138	5	20

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

Lab Sample ID: LCSD 280-658996/6
Matrix: Water
Analysis Batch: 658996

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	53.9		ug/L		108	29 - 148	11	40
Carbon disulfide			50.0	46.4		ug/L		93	70 - 121	4	20
Carbon tetrachloride			50.0	55.9		ug/L		112	79 - 127	6	20
Chlorobenzene			50.0	51.7		ug/L		103	80 - 120	5	20
Chlorobromomethane			50.0	47.6		ug/L		95	80 - 123	2	20
Chlorodibromomethane			50.0	57.0		ug/L		114	80 - 125	6	20
Chloroethane			50.0	45.6		ug/L		91	56 - 141	2	30
Chloroform			50.0	52.9		ug/L		106	80 - 120	8	20
Chloromethane			50.0	44.5		ug/L		89	56 - 133	2	20
cis-1,2-Dichloroethene			50.0	49.4		ug/L		99	80 - 120	6	20
cis-1,3-Dichloropropene			50.0	54.0		ug/L		108	76 - 129	6	20
Dibromomethane			50.0	53.3		ug/L		107	80 - 120	6	20
Dichlorobromomethane			50.0	57.2		ug/L		114	80 - 123	7	20
Dichlorodifluoromethane			50.0	40.6		ug/L		81	47 - 135	0	21
Ethylbenzene			50.0	51.6		ug/L		103	80 - 120	7	20
Iodomethane			50.0	42.1		ug/L		84	43 - 139	9	38
Isobutyl alcohol			1250	1430		ug/L		115	46 - 146	4	30
Methylene Chloride			50.0	45.1		ug/L		90	78 - 120	7	20
m-Xylene & p-Xylene			50.0	51.8		ug/L		104	80 - 120	5	20
o-Xylene			50.0	54.3		ug/L		109	80 - 120	5	20
Styrene			50.0	55.4		ug/L		111	80 - 120	6	20
Tetrachloroethene			50.0	49.6		ug/L		99	80 - 121	6	20
Toluene			50.0	52.2		ug/L		104	80 - 120	7	20
trans-1,2-Dichloroethene			50.0	49.4		ug/L		99	79 - 121	7	20
trans-1,3-Dichloropropene			50.0	59.6		ug/L		119	80 - 123	9	20
Trichloroethene			50.0	53.7		ug/L		107	80 - 120	10	20
Trichlorofluoromethane			50.0	49.8		ug/L		100	54 - 144	4	28
Vinyl acetate			100	74.2	*1	ug/L		74	55 - 161	27	23
Vinyl chloride			50.0	46.4		ug/L		93	67 - 127	2	25
Xylenes, Total			100	106		ug/L		106	80 - 120	5	20
2-Butanone (MEK)			200	201		ug/L		100	58 - 135	6	20
Acrolein			494	560		ug/L		113	31 - 174	4	23
Acrylonitrile			500	475		ug/L		95	70 - 126	6	20
1,2-Dibromoethane			50.0	52.0		ug/L		104	80 - 120	6	20
1,2,4-Trichlorobenzene			50.0	49.3		ug/L		99	74 - 126	4	20
Allyl chloride			50.0	50.5		ug/L		101	65 - 132	6	20
Ethyl methacrylate			50.0	54.4		ug/L		109	80 - 122	4	20
trans-1,4-Dichloro-2-butene			50.0	60.5		ug/L		121	51 - 138	7	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

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

Lab Sample ID: LCSD 280-658996/7
Matrix: Water
Analysis Batch: 658996

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	27.1		ug/L		108	47 - 146	6	20
Acetonitrile			250	247		ug/L		99	23 - 155	1	20
Methacrylonitrile			250	274		ug/L		110	42 - 142	3	20
Methyl methacrylate			50.0	45.6		ug/L		91	60 - 133	3	20
Propionitrile			250	235		ug/L		94	45 - 144	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*102*		*77 - 120*

Lab Sample ID: MB 280-659045/9
Matrix: Water
Analysis Batch: 659045

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	0.16	ug/L			07/02/24 12:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			07/02/24 12:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/24 12:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			07/02/24 12:50	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			07/02/24 12:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			07/02/24 12:50	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			07/02/24 12:50	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			07/02/24 12:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			07/02/24 12:50	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			07/02/24 12:50	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			07/02/24 12:50	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			07/02/24 12:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			07/02/24 12:50	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 12:50	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			07/02/24 12:50	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			07/02/24 12:50	1
2-Hexanone	ND		5.0	0.81	ug/L			07/02/24 12:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			07/02/24 12:50	1
Acetone	ND		15	6.6	ug/L			07/02/24 12:50	1
Benzene	ND		1.0	0.14	ug/L			07/02/24 12:50	1
Bromoform	ND		2.0	0.25	ug/L			07/02/24 12:50	1
Bromomethane	ND		5.0	2.4	ug/L			07/02/24 12:50	1
Carbon disulfide	ND		2.0	0.26	ug/L			07/02/24 12:50	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			07/02/24 12:50	1
Chlorobenzene	ND		1.0	0.092	ug/L			07/02/24 12:50	1
Chlorobromomethane	ND		1.0	0.40	ug/L			07/02/24 12:50	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			07/02/24 12:50	1
Chloroethane	ND		2.0	0.64	ug/L			07/02/24 12:50	1
Chloroform	ND		1.0	0.36	ug/L			07/02/24 12:50	1
Chloromethane	ND		2.0	0.23	ug/L			07/02/24 12:50	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			07/02/24 12:50	1

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

Lab Sample ID: MB 280-659045/9
Matrix: Water
Analysis Batch: 659045

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		1.0	0.16	ug/L			07/02/24 12:50	1
Dibromomethane	ND		1.0	0.34	ug/L			07/02/24 12:50	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			07/02/24 12:50	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			07/02/24 12:50	1
Ethylbenzene	ND		1.0	0.14	ug/L			07/02/24 12:50	1
Iodomethane	ND		5.0	2.6	ug/L			07/02/24 12:50	1
Isobutyl alcohol	ND		110	37	ug/L			07/02/24 12:50	1
Methylene Chloride	ND		2.0	0.94	ug/L			07/02/24 12:50	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			07/02/24 12:50	1
o-Xylene	ND		1.0	0.11	ug/L			07/02/24 12:50	1
Styrene	ND		1.0	0.13	ug/L			07/02/24 12:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			07/02/24 12:50	1
Toluene	ND		1.0	0.32	ug/L			07/02/24 12:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			07/02/24 12:50	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			07/02/24 12:50	1
Trichloroethene	ND		1.0	0.30	ug/L			07/02/24 12:50	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			07/02/24 12:50	1
Vinyl acetate	ND		3.0	0.36	ug/L			07/02/24 12:50	1
Vinyl chloride	ND		1.0	0.23	ug/L			07/02/24 12:50	1
Xylenes, Total	ND		1.0	0.11	ug/L			07/02/24 12:50	1
2-Butanone (MEK)	ND		10	4.6	ug/L			07/02/24 12:50	1
Acrolein	ND		20	4.9	ug/L			07/02/24 12:50	1
Acrylonitrile	ND		20	1.7	ug/L			07/02/24 12:50	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			07/02/24 12:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			07/02/24 12:50	1
Allyl chloride	ND		2.0	0.46	ug/L			07/02/24 12:50	1
Chloroprene	ND		3.0	0.79	ug/L			07/02/24 12:50	1
Acetonitrile	ND		30	14	ug/L			07/02/24 12:50	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			07/02/24 12:50	1
Methacrylonitrile	ND		15	5.3	ug/L			07/02/24 12:50	1
Methyl methacrylate	ND		4.0	1.1	ug/L			07/02/24 12:50	1
Propionitrile	ND		20	3.7	ug/L			07/02/24 12:50	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			07/02/24 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*07/02/24 12:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*07/02/24 12:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*07/02/24 12:50*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*07/02/24 12:50*	*1*

Lab Sample ID: LCS 280-659045/4
Matrix: Water
Analysis Batch: 659045

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	56.8		ug/L		114	80 - 124
1,1,1-Trichloroethane	50.0	57.6		ug/L		115	80 - 123
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	74 - 123

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

Lab Sample ID: LCS 280-659045/4
Matrix: Water
Analysis Batch: 659045

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	80 - 120
1,1-Dichloroethane	50.0	53.0		ug/L		106	78 - 121
1,1-Dichloroethene	50.0	51.0		ug/L		102	77 - 121
1,1-Dichloropropene	50.0	54.1		ug/L		108	77 - 123
1,2,3-Trichloropropane	50.0	45.4		ug/L		91	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.9		ug/L		90	73 - 128
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 120
1,2-Dichloroethane	50.0	58.4		ug/L		117	71 - 121
1,2-Dichloropropane	50.0	52.2		ug/L		104	78 - 120
1,3-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,3-Dichloropropane	50.0	52.2		ug/L		104	77 - 122
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 120
2,2-Dichloropropane	50.0	61.7		ug/L		123	75 - 131
2-Hexanone	200	207		ug/L		103	62 - 137
4-Methyl-2-pentanone (MIBK)	200	215		ug/L		107	66 - 135
Acetone	200	200		ug/L		100	61 - 134
Benzene	50.0	52.1		ug/L		104	80 - 120
Bromoform	50.0	55.6		ug/L		111	79 - 138
Bromomethane	50.0	48.5		ug/L		97	29 - 148
Carbon disulfide	50.0	51.8		ug/L		104	70 - 121
Carbon tetrachloride	50.0	59.3		ug/L		119	79 - 127
Chlorobenzene	50.0	52.7		ug/L		105	80 - 120
Chlorobromomethane	50.0	50.1		ug/L		100	80 - 123
Chlorodibromomethane	50.0	55.8		ug/L		112	80 - 125
Chloroethane	50.0	46.1		ug/L		92	56 - 141
Chloroform	50.0	55.5		ug/L		111	80 - 120
Chloromethane	50.0	47.6		ug/L		95	56 - 133
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	55.6		ug/L		111	76 - 129
Dibromomethane	50.0	54.7		ug/L		109	80 - 120
Dichlorobromomethane	50.0	57.6		ug/L		115	80 - 123
Dichlorodifluoromethane	50.0	54.2		ug/L		108	47 - 135
Ethylbenzene	50.0	52.8		ug/L		106	80 - 120
Iodomethane	50.0	53.7		ug/L		107	43 - 139
Isobutyl alcohol	1250	1330		ug/L		106	46 - 146
Methylene Chloride	50.0	47.5		ug/L		95	78 - 120
m-Xylene & p-Xylene	50.0	54.8		ug/L		110	80 - 120
o-Xylene	50.0	54.6		ug/L		109	80 - 120
Styrene	50.0	56.0		ug/L		112	80 - 120
Tetrachloroethene	50.0	52.4		ug/L		105	80 - 121
Toluene	50.0	53.6		ug/L		107	80 - 120
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	79 - 121
trans-1,3-Dichloropropene	50.0	61.0		ug/L		122	80 - 123
Trichloroethene	50.0	51.9		ug/L		104	80 - 120
Trichlorofluoromethane	50.0	49.8		ug/L		100	54 - 144
Vinyl acetate	100	119		ug/L		119	55 - 161
Vinyl chloride	50.0	49.2		ug/L		98	67 - 127
Xylenes, Total	100	109		ug/L		109	80 - 120
2-Butanone (MEK)	200	201		ug/L		100	58 - 135

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

Lab Sample ID: LCS 280-659045/4
Matrix: Water
Analysis Batch: 659045

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	494	616		ug/L		125	31 - 174
Acrylonitrile	500	479		ug/L		96	70 - 126
1,2-Dibromoethane	50.0	53.6		ug/L		107	80 - 120
1,2,4-Trichlorobenzene	50.0	47.9		ug/L		96	74 - 126
Allyl chloride	50.0	54.1		ug/L		108	65 - 132
Ethyl methacrylate	50.0	53.7		ug/L		107	80 - 122
trans-1,4-Dichloro-2-butene	50.0	55.5		ug/L		111	51 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*101*		*77 - 120*

Lab Sample ID: LCS 280-659045/5
Matrix: Water
Analysis Batch: 659045

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	25.2		ug/L		101	47 - 146
Acetonitrile	250	247		ug/L		99	23 - 155
Methacrylonitrile	250	269		ug/L		108	42 - 142
Methyl methacrylate	50.0	44.2		ug/L		88	60 - 133
Propionitrile	250	238		ug/L		95	45 - 144

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

Lab Sample ID: LCSD 280-659045/6
Matrix: Water
Analysis Batch: 659045

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	54.8		ug/L		110	80 - 124	4	20
1,1,1-Trichloroethane	50.0	56.3		ug/L		113	80 - 123	2	20
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	74 - 123	0	20
1,1,2-Trichloroethane	50.0	50.9		ug/L		102	80 - 120	2	20
1,1-Dichloroethane	50.0	52.5		ug/L		105	78 - 121	1	20
1,1-Dichloroethene	50.0	49.5		ug/L		99	77 - 121	3	21
1,1-Dichloropropene	50.0	53.9		ug/L		108	77 - 123	0	20
1,2,3-Trichloropropane	50.0	46.0		ug/L		92	80 - 120	1	20
1,2-Dibromo-3-Chloropropane	50.0	42.9		ug/L		86	73 - 128	4	21
1,2-Dichlorobenzene	50.0	53.6		ug/L		107	80 - 120	0	20
1,2-Dichloroethane	50.0	59.1		ug/L		118	71 - 121	1	20
1,2-Dichloropropane	50.0	50.1		ug/L		100	78 - 120	4	20

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

Lab Sample ID: LCSD 280-659045/6
Matrix: Water
Analysis Batch: 659045

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	51.0		ug/L		102	80 - 120	1	20
1,3-Dichloropropane			50.0	51.4		ug/L		103	77 - 122	2	20
1,4-Dichlorobenzene			50.0	51.4		ug/L		103	80 - 120	2	20
2,2-Dichloropropane			50.0	60.7		ug/L		121	75 - 131	2	22
2-Hexanone			200	203		ug/L		101	62 - 137	2	21
4-Methyl-2-pentanone (MIBK)			200	213		ug/L		106	66 - 135	1	20
Acetone			200	201		ug/L		100	61 - 134	0	21
Benzene			50.0	52.3		ug/L		105	80 - 120	0	20
Bromoform			50.0	55.1		ug/L		110	79 - 138	1	20
Bromomethane			50.0	58.9		ug/L		118	29 - 148	19	40
Carbon disulfide			50.0	50.5		ug/L		101	70 - 121	3	20
Carbon tetrachloride			50.0	58.8		ug/L		118	79 - 127	1	20
Chlorobenzene			50.0	51.5		ug/L		103	80 - 120	2	20
Chlorobromomethane			50.0	49.9		ug/L		100	80 - 123	0	20
Chlorodibromomethane			50.0	55.9		ug/L		112	80 - 125	0	20
Chloroethane			50.0	49.2		ug/L		98	56 - 141	6	30
Chloroform			50.0	53.9		ug/L		108	80 - 120	3	20
Chloromethane			50.0	51.0		ug/L		102	56 - 133	7	20
cis-1,2-Dichloroethene			50.0	51.4		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	55.3		ug/L		111	76 - 129	1	20
Dibromomethane			50.0	53.0		ug/L		106	80 - 120	3	20
Dichlorobromomethane			50.0	56.7		ug/L		113	80 - 123	2	20
Dichlorodifluoromethane			50.0	57.3		ug/L		115	47 - 135	6	21
Ethylbenzene			50.0	53.1		ug/L		106	80 - 120	1	20
Iodomethane			50.0	43.4		ug/L		87	43 - 139	21	38
Isobutyl alcohol			1250	1240		ug/L		100	46 - 146	7	30
Methylene Chloride			50.0	48.2		ug/L		96	78 - 120	1	20
m-Xylene & p-Xylene			50.0	53.6		ug/L		107	80 - 120	2	20
o-Xylene			50.0	53.1		ug/L		106	80 - 120	3	20
Styrene			50.0	55.1		ug/L		110	80 - 120	2	20
Tetrachloroethene			50.0	52.0		ug/L		104	80 - 121	1	20
Toluene			50.0	52.9		ug/L		106	80 - 120	1	20
trans-1,2-Dichloroethene			50.0	52.7		ug/L		105	79 - 121	0	20
trans-1,3-Dichloropropene			50.0	59.9		ug/L		120	80 - 123	2	20
Trichloroethene			50.0	52.7		ug/L		105	80 - 120	2	20
Trichlorofluoromethane			50.0	52.0		ug/L		104	54 - 144	4	28
Vinyl acetate			100	119		ug/L		119	55 - 161	0	23
Vinyl chloride			50.0	51.7		ug/L		103	67 - 127	5	25
Xylenes, Total			100	107		ug/L		107	80 - 120	2	20
2-Butanone (MEK)			200	197		ug/L		99	58 - 135	2	20
Acrolein			494	607		ug/L		123	31 - 174	1	23
Acrylonitrile			500	469		ug/L		94	70 - 126	2	20
1,2-Dibromoethane			50.0	51.7		ug/L		103	80 - 120	4	20
1,2,4-Trichlorobenzene			50.0	46.7		ug/L		93	74 - 126	3	20
Allyl chloride			50.0	52.9		ug/L		106	65 - 132	2	20
Ethyl methacrylate			50.0	53.2		ug/L		106	80 - 122	1	20
trans-1,4-Dichloro-2-butene			50.0	55.0		ug/L		110	51 - 138	1	24

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

Lab Sample ID: LCSD 280-659045/6
Matrix: Water
Analysis Batch: 659045

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*
Dibromofluoromethane (Surr)	*102*		*77 - 120*

Lab Sample ID: LCSD 280-659045/7
Matrix: Water
Analysis Batch: 659045

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	26.3		ug/L		105	47 - 146	4	20
Acetonitrile			250	253		ug/L		101	23 - 155	3	20
Methacrylonitrile			250	278		ug/L		111	42 - 142	3	20
Methyl methacrylate			50.0	46.1		ug/L		92	60 - 133	4	20
Propionitrile			250	244		ug/L		97	45 - 144	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*
Dibromofluoromethane (Surr)	*101*		*77 - 120*

QC Association Summary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

GC/MS VOA

Analysis Batch: 658893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193176-1	RW-2237H-20240618	Total/NA	Water	8260D	
280-193176-2	RW-2213F-20240618	Total/NA	Water	8260D	
280-193176-3	RW-2172H-20240618	Total/NA	Water	8260D	
280-193176-4	RW-8284P-20240618	Total/NA	Water	8260D	
280-193176-5	RW-7677P-20240618	Total/NA	Water	8260D	
280-193176-9	RW-2151H-20240618	Total/NA	Water	8260D	
280-193176-10	RW-8048P-20240618	Total/NA	Water	8260D	
280-193176-11	RW-8030P-20240618	Total/NA	Water	8260D	
280-193176-12	RW-7505P-20240618	Total/NA	Water	8260D	
280-193176-13	RW-7505P-Q-20240618	Total/NA	Water	8260D	
MB 280-658893/9	Method Blank	Total/NA	Water	8260D	
LCS 280-658893/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-658893/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-658893/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-658893/7	Lab Control Sample Dup	Total/NA	Water	8260D	
280-193176-2 MS	RW-2213F-20240618	Total/NA	Water	8260D	
280-193176-2 MSD	RW-2213F-20240618	Total/NA	Water	8260D	

Analysis Batch: 658996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193176-6	Muni-Well-14-20240619	Total/NA	Water	8260D	
280-193176-7	Muni-Well-33-20240619	Total/NA	Water	8260D	
280-193176-14	RW-2203H-20240619	Total/NA	Water	8260D	
280-193176-15	RW-2076F-20240619	Total/NA	Water	8260D	
MB 280-658996/9	Method Blank	Total/NA	Water	8260D	
LCS 280-658996/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-658996/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-658996/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-658996/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 659045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-193176-8	TB-01-20240620	Total/NA	Water	8260D	
MB 280-659045/9	Method Blank	Total/NA	Water	8260D	
LCS 280-659045/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-659045/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-659045/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-659045/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: RW-2237H-20240618
Lab Sample ID: 280-193176-1
Date Collected: 06/18/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 12:47	DMC	EET DEN

Client Sample ID: RW-2213F-20240618
Lab Sample ID: 280-193176-2
Date Collected: 06/18/24 13:20
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 13:08	DMC	EET DEN

Client Sample ID: RW-2172H-20240618
Lab Sample ID: 280-193176-3
Date Collected: 06/18/24 11:35
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 13:28	DMC	EET DEN

Client Sample ID: RW-8284P-20240618
Lab Sample ID: 280-193176-4
Date Collected: 06/18/24 15:10
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 13:49	DMC	EET DEN

Client Sample ID: RW-7677P-20240618
Lab Sample ID: 280-193176-5
Date Collected: 06/18/24 18:15
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 14:09	DMC	EET DEN

Client Sample ID: Muni-Well-14-20240619
Lab Sample ID: 280-193176-6
Date Collected: 06/19/24 13:10
Matrix: Water
Date Received: 06/21/24 09:20

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	658996	07/02/24 05:11	BMJ	EET DEN

Client Sample ID: Muni-Well-33-20240619
Lab Sample ID: 280-193176-7
Date Collected: 06/19/24 13:28
Matrix: Water
Date Received: 06/21/24 09:20

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	658996	07/02/24 05:32	BMJ	EET DEN

Client Sample ID: TB-01-20240620
Lab Sample ID: 280-193176-8
Date Collected: 06/20/24 09:50
Matrix: Water
Date Received: 06/21/24 09:20

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	659045	07/02/24 12:08	GO	EET DEN

Client Sample ID: RW-2151H-20240618
Lab Sample ID: 280-193176-9
Date Collected: 06/18/24 12:20
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 14:29	DMC	EET DEN

Client Sample ID: RW-8048P-20240618
Lab Sample ID: 280-193176-10
Date Collected: 06/18/24 14:00
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 14:50	DMC	EET DEN

Client Sample ID: RW-8030P-20240618
Lab Sample ID: 280-193176-11
Date Collected: 06/18/24 16:10
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 15:10	DMC	EET DEN

Client Sample ID: RW-7505P-20240618
Lab Sample ID: 280-193176-12
Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 15:31	DMC	EET DEN

Client Sample ID: RW-7505P-Q-20240618
Lab Sample ID: 280-193176-13
Date Collected: 06/18/24 17:35
Matrix: Water
Date Received: 06/21/24 09:20

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	658893	07/01/24 15:51	DMC	EET DEN

Client Sample ID: RW-2203H-20240619
Lab Sample ID: 280-193176-14
Date Collected: 06/19/24 18:00
Matrix: Water
Date Received: 06/21/24 09:20

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	658996	07/02/24 05:53	BMJ	EET DEN

Lab Chronicle

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Client Sample ID: RW-2076F-20240619
Lab Sample ID: 280-193176-15

Date Collected: 06/19/24 19:45
Matrix: Water
Date Received: 06/21/24 09:20

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	658996	07/02/24 06:14	BMJ	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
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025-020	01-08-25

Method Summary

Client: CDM Smith Inc
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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
Job ID: 280-193176-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-193176-1	RW-2237H-20240618	Water	06/18/24 09:50	06/21/24 09:20
280-193176-2	RW-2213F-20240618	Water	06/18/24 13:20	06/21/24 09:20
280-193176-3	RW-2172H-20240618	Water	06/18/24 11:35	06/21/24 09:20
280-193176-4	RW-8284P-20240618	Water	06/18/24 15:10	06/21/24 09:20
280-193176-5	RW-7677P-20240618	Water	06/18/24 18:15	06/21/24 09:20
280-193176-6	Muni-Well-14-20240619	Water	06/19/24 13:10	06/21/24 09:20
280-193176-7	Muni-Well-33-20240619	Water	06/19/24 13:28	06/21/24 09:20
280-193176-8	TB-01-20240620	Water	06/20/24 09:50	06/21/24 09:20
280-193176-9	RW-2151H-20240618	Water	06/18/24 12:20	06/21/24 09:20
280-193176-10	RW-8048P-20240618	Water	06/18/24 14:00	06/21/24 09:20
280-193176-11	RW-8030P-20240618	Water	06/18/24 16:10	06/21/24 09:20
280-193176-12	RW-7505P-20240618	Water	06/18/24 17:35	06/21/24 09:20
280-193176-13	RW-7505P-Q-20240618	Water	06/18/24 17:35	06/21/24 09:20
280-193176-14	RW-2203H-20240619	Water	06/19/24 18:00	06/21/24 09:20
280-193176-15	RW-2076F-20240619	Water	06/19/24 19:45	06/21/24 09:20

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Analysis Batch Number: 657652

Lab Sample ID: IC 280-657652/13 Client Sample ID:

Date Analyzed: 06/19/24 20:59 Lab File ID: MS1_5585.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	3.56	Assign Peak	AF7X	06/20/24 05:46
1,2-Dichloroethane	5.82	Assign Peak	AF7X	06/20/24 05:47
2-Chloroethyl vinyl ether	7.04	Assign Peak	AF7X	06/20/24 05:47
1,2-Dibromo-3-Chloropropane	12.23	Assign Peak	AF7X	06/20/24 05:47

Lab Sample ID: IC 280-657652/14 Client Sample ID:

Date Analyzed: 06/19/24 21:20 Lab File ID: MS1_5586.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	12.23	Assign Peak	AF7X	06/20/24 05:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Analysis Batch Number: 658996

Lab Sample ID: CCV 280-658996/2 Client Sample ID:

Date Analyzed: 07/01/24 22:43 Lab File ID: MS1_6080b.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	6.23	Peak assignment corrected	LP8K	07/03/24 20:15

Lab Sample ID: MB 280-658996/9 Client Sample ID:

Date Analyzed: 07/02/24 00:29 Lab File ID: MS1_6085.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dichlorobenzene		Invalid Compound ID	V8PV	07/02/24 01:18
Acetonitrile		Invalid Compound ID	V8PV	07/02/24 01:18
Acrolein		Invalid Compound ID	V8PV	07/02/24 01:18
Acrylonitrile		Invalid Compound ID	V8PV	07/02/24 01:18
Bromomethane		Invalid Compound ID	V8PV	07/02/24 01:18
Chlorobenzene		Invalid Compound ID	V8PV	07/02/24 01:18
Isobutyl alcohol		Invalid Compound ID	V8PV	07/02/24 01:18

Lab Sample ID: 280-193176-6 Client Sample ID: Muni-Well-14-20240619

Date Analyzed: 07/02/24 05:11 Lab File ID: MS1_6098.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	Q2ZS	07/02/24 16:02
Dichlorobromomethane		Invalid Compound ID	Q2ZS	07/02/24 16:03
Isobutyl alcohol		Invalid Compound ID	Q2ZS	07/02/24 16:03

Lab Sample ID: 280-193176-7 Client Sample ID: Muni-Well-33-20240619

Date Analyzed: 07/02/24 05:32 Lab File ID: MS1_6099.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	Q2ZS	07/02/24 16:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Analysis Batch Number: 658996

Lab Sample ID: 280-193176-14 Client Sample ID: RW-2203H-20240619

Date Analyzed: 07/02/24 05:53 Lab File ID: MS1_6100.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene		Invalid Compound ID	Q2ZS	07/02/24 16:06
Isobutyl alcohol		Invalid Compound ID	Q2ZS	07/02/24 16:04

Lab Sample ID: 280-193176-15 Client Sample ID: RW-2076F-20240619

Date Analyzed: 07/02/24 06:14 Lab File ID: MS1_6101.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	Q2ZS	07/02/24 16:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Analysis Batch Number: 659045

Lab Sample ID: 280-193176-8 Client Sample ID: TB-01-20240620

Date Analyzed: 07/02/24 12:08 Lab File ID: MS1_6116.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene		Invalid Compound ID	Q2ZS	07/02/24 16:36
Acetonitrile		Invalid Compound ID	Q2ZS	07/02/24 16:35
Acrolein		Invalid Compound ID	Q2ZS	07/02/24 16:35
Bromomethane		Invalid Compound ID	Q2ZS	07/02/24 16:35

Lab Sample ID: MB 280-659045/9 Client Sample ID:

Date Analyzed: 07/02/24 12:50 Lab File ID: MS1_6118.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	Q2ZS	07/02/24 16:34
Bromomethane		Invalid Compound ID	Q2ZS	07/02/24 16:34
Isobutyl alcohol		Invalid Compound ID	Q2ZS	07/02/24 16:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 657950

Lab Sample ID: STD1 280-657950/14 IC Client Sample ID:

Date Analyzed: 06/24/24 14:25 Lab File ID: P86600.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.63	Peak assignment corrected	Q2ZS	06/24/24 16:09
Bromomethane	2.15	Peak assignment corrected	Q2ZS	06/24/24 16:09

Lab Sample ID: STD05 280-657950/13 IC Client Sample ID:

Date Analyzed: 06/24/24 14:46 Lab File ID: P86601.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.94	Peak assignment corrected	Q2ZS	06/24/24 16:10
1,2-Dichloroethane	4.74	Peak assignment corrected	Q2ZS	06/24/24 16:11
n-Heptane	4.90	Peak assignment corrected	Q2ZS	06/24/24 16:11
1,4-Dioxane	5.52	Incomplete Integration	Q2ZS	06/24/24 16:11
trans-1,4-Dichloro-2-butene	8.68	Incomplete Integration	Q2ZS	06/24/24 16:12
Dichlorodifluoromethane		Peak assignment corrected	Q2ZS	06/24/24 16:09
Isobutyl alcohol		Invalid Compound ID	Q2ZS	06/24/24 16:11

Lab Sample ID: STD2 280-657950/15 IC Client Sample ID:

Date Analyzed: 06/24/24 15:06 Lab File ID: P86602.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	5.50	Incomplete Integration	Q2ZS	06/24/24 16:49

Lab Sample ID: STD5 280-657950/16 IC Client Sample ID:

Date Analyzed: 06/24/24 15:27 Lab File ID: P86603.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.14	Peak assignment corrected	Q2ZS	06/24/24 16:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 657950

Lab Sample ID: STD10 280-657950/17 IC Client Sample ID:

Date Analyzed: 06/24/24 15:47 Lab File ID: P86604.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.15	Peak assignment corrected	Q2ZS	06/24/24 16:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 658360

Lab Sample ID: IC 280-658360/13 Client Sample ID:

Date Analyzed: 06/25/24 18:27 Lab File ID: P86662.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.63	Split Peak	V8PV	06/25/24 22:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 658449

Lab Sample ID: STD1 280-658449/13 IC Client Sample ID:

Date Analyzed: 06/26/24 13:21 Lab File ID: P86680.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.59	Assign Peak	V8PV	06/26/24 18:17
Isopropyl alcohol	2.98	Split Peak	V8PV	06/26/24 18:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 658893

Lab Sample ID: MB 280-658893/9 Client Sample ID:

Date Analyzed: 07/01/24 12:06 Lab File ID: P86874.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride		Invalid Compound ID	NNS5	07/01/24 13:14
Isobutyl alcohol		Invalid Compound ID	NNS5	07/01/24 13:14

Lab Sample ID: 280-193176-1 Client Sample ID: RW-2237H-20240618

Date Analyzed: 07/01/24 12:47 Lab File ID: P86876.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:39

Lab Sample ID: 280-193176-2 Client Sample ID: RW-2213F-20240618

Date Analyzed: 07/01/24 13:08 Lab File ID: P86877.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:39

Lab Sample ID: 280-193176-3 Client Sample ID: RW-2172H-20240618

Date Analyzed: 07/01/24 13:28 Lab File ID: P86878.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:39

Lab Sample ID: 280-193176-4 Client Sample ID: RW-8284P-20240618

Date Analyzed: 07/01/24 13:49 Lab File ID: P86879.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 658893

Lab Sample ID: 280-193176-5 Client Sample ID: RW-7677P-20240618

Date Analyzed: 07/01/24 14:09 Lab File ID: P86880.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:40

Lab Sample ID: 280-193176-9 Client Sample ID: RW-2151H-20240618

Date Analyzed: 07/01/24 14:29 Lab File ID: P86881.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:41

Lab Sample ID: 280-193176-10 Client Sample ID: RW-8048P-20240618

Date Analyzed: 07/01/24 14:50 Lab File ID: P86882.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	6.68	Assign Peak	V8PV	07/01/24 21:41
Chloroethane		Invalid Compound ID	V8PV	07/01/24 21:41
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:41

Lab Sample ID: 280-193176-11 Client Sample ID: RW-8030P-20240618

Date Analyzed: 07/01/24 15:10 Lab File ID: P86883.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 658893

Lab Sample ID: 280-193176-12 Client Sample ID: RW-7505P-20240618

Date Analyzed: 07/01/24 15:31 Lab File ID: P86884.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:42

Lab Sample ID: 280-193176-13 Client Sample ID: RW-7505P-Q-20240618

Date Analyzed: 07/01/24 15:51 Lab File ID: P86885.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	V8PV	07/01/24 21:42

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Cal Dil Std_00374	07/01/24	06/18/24	P&T Methanol, Lot ED137-US	500 uL	MV-Gas A_00190	10 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
							2-Chloroethyl vinyl ether	5 ug/mL
					MV-MegaMainA_00110	25 uL	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

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00190	07/11/24	06/11/24	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00019	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

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
							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.sec_00019	04/30/27		RESTEK, Lot A0210106		(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_00110	07/12/24	06/12/24	P&T Methanol, Lot EG636-US	25 mL	MV-568720_00048	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00025	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
							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

Lab Name: Eurofins Denver Job No.: 280-193176-1

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_00012	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720_00048	04/30/25		RESTEK, Lot A0203711		(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_00037	01/31/25		RESTEK, Lot A0200199		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727_00025	03/31/27		RESTEK, Lot A0209630		(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
							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

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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.s_00012	11/30/25	Agilent, Lot 0006765276.s			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
Cal Dil Std_00378	07/01/24	06/25/24	P&T Methanol, Lot ED137-US	500 uL	MV-Gas B_00166	10 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
							2-Chloroethyl vinyl ether	5 ug/mL
.MV-Gas B_00166	07/19/24	06/19/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00018	07/31/26		RESTEK, Lot A0200059		(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
Cal Dil Std_00379	07/01/24	06/26/24	P&T Methanol, Lot ED137-US	500 uL	MV-Gas A_00191	10 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
							2-Chloroethyl vinyl ether	5 ug/mL
.MV-Gas A_00191	07/19/24	06/19/24	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00019	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.sec_00019	04/30/27		RESTEK, Lot A0210106		(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
Cal Dil StdB_00001	07/01/24	06/14/24	P&T Methanol, Lot ED137-US	100 uL	MV-Gas B_00165	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

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
					MV-MegaMain B_00105	5 uL	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

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	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_00165	07/11/24	06/11/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	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_00018	07/31/26		RESTEK, Lot A0200059		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00105	07/01/24	05/28/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00041	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720.sec_00041	09/30/25		RESTEK, Lot A0209508		(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(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_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(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
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00013	11/30/25		Agilent, Lot 0006765276.sa		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
mv-Cent BFB_00007							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 BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune_00002	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00002	05/31/26		Restek, Lot 20401KO/A0172587		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent IS_00008	07/31/24	08/01/23	P&T Methanol, Lot 1996628	5 mL	mv-30241_00010	0.1 mL	1,4-Dichlorobenzene-d4	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00190	07/11/24	06/11/24	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00019	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.sec_00019	04/30/27		RESTEK, Lot A0210106		(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_00191	07/19/24	06/19/24	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00019	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.sec_00019	04/30/27		RESTEK, Lot A0210106		(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_00165	07/11/24	06/11/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722.sec_00018	07/31/26		RESTEK, Lot A0200059		(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-Gas B_00166	07/19/24	06/19/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	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_00018	07/31/26		RESTEK, Lot A0200059		(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_00077	07/01/24	03/07/24	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_00078	03/01/25	03/28/24	P&T Methanol, Lot EG636-US	50 mL	mv-30241_00014	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_00014	05/31/28		Restek, Lot A0198297		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00080	03/01/25	05/01/24	P&T Methanol, Lot EG636-US	50 mL	mv-30241_00014	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_00014	05/31/28		Restek, Lot A0198297		(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_00105	07/01/24	05/28/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00041	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720.sec_00041	09/30/25		RESTEK, Lot A0209508		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(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_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(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

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
.MV-CUS17739.s_00013	11/30/25	Agilent, Lot 0006765276.sa			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMain B_00105	07/01/24	05/28/24	P&T Methanol, Lot EG-636-US	25 mL	MV-571992.sec_00010	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992.sec_00010	08/31/25	RESTEK, Lot A0195252			(Purchased Reagent)		Xylenes, Total	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-MegaMainA_00110	07/12/24	06/12/24	P&T Methanol, Lot EG636-US	25 mL	MV-568720_00048	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00025	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00012	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720_00048	04/30/25		RESTEK, Lot A0203711		(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_00037	01/31/25		RESTEK, Lot A0200199		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727_00025	03/31/27		RESTEK, Lot A0209630		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00012	11/30/25	Agilent, Lot 0006765276.s			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMainA_00110	07/12/24	06/12/24	P&T Methanol, Lot EG636-US	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_00090	05/06/24	03/22/24	P&T Methanol, Lot 199628	20 mL	mv-570808_00016	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_00014	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993_00010	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_00010	600 uL	Ethanol	3000 ug/mL
					Z-020209-01_00004	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808_00016	09/30/24	Restek, Lot A0195733			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.mv-570809_00014	01/31/25		Restek, Lot A0200274		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993_00010	02/28/25		RESTEK, Lot A0194786		(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_00010	03/31/26		RESTEK, Lot A0195429		(Purchased Reagent)		Ethanol	100000 ug/mL
.Z-020209-01_00004	08/15/25		CPI, Lot 507909		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
MV-Supp A_00091	07/08/24	05/02/24	P&T Methanol, Lot 199628	20 mL	mv-570808_00016	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809_00014	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993_00010	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.mv-570808_00016	09/30/24		Restek, Lot A0195733		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809_00014	01/31/25		Restek, Lot A0200274		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993_00010	02/28/25		RESTEK, Lot A0194786		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00072	07/31/24	05/29/24	P&T Methanol, Lot EG636-US	20 mL	mv-570808.sec_00010	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_00011	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993.sec_00009	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_00002	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808.sec_00010	08/31/25		Restek, Lot A0208453		(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_00011	08/30/24		Restek, Lot A0194573		(Purchased Reagent)		Ethyl acetate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00009	02/28/25	RESTEK, Lot A0195116			(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_00002	11/15/24	CPI, Lot 492314			(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL

Reagent

mv-30241_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. : 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 +/- 140.2062 µg/mL +/- 143.4868 µg/mL	Gravimetric Unstressed Stressed
2	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-29571) **Purity** 99%	2,500.8 µg/mL	+/- 14.5399 µg/mL +/- 140.2174 µg/mL +/- 143.4983 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-30447) **Purity** 99%	2,500.2 µg/mL	+/- 14.5364 µg/mL +/- 140.1837 µg/mL +/- 143.4639 µg/mL	Gravimetric Unstressed Stressed

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

Revd 4/5/22

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

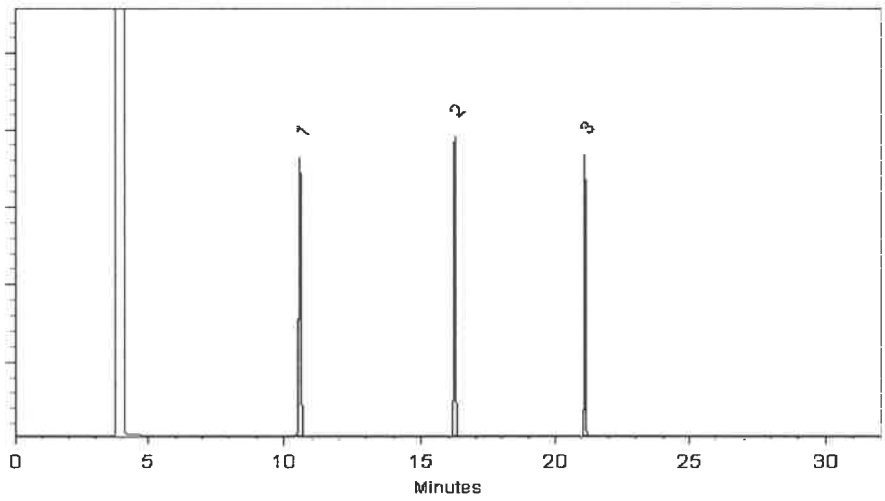
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Jan-2022 **Balance:** B707717271

Marlina 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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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 +/- 140.3968 µg/mL +/- 143.6819 µg/mL	Gravimetric Unstressed Stressed
2	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-29571) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 µg/mL +/- 140.6211 µg/mL +/- 143.9114 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-30447) **Purity** 99%	2,500.6 µg/mL	+/- 14.5387 µg/mL +/- 140.2062 µg/mL +/- 143.4868 µg/mL	Gravimetric Unstressed Stressed

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

Rcvd 8/11/22

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

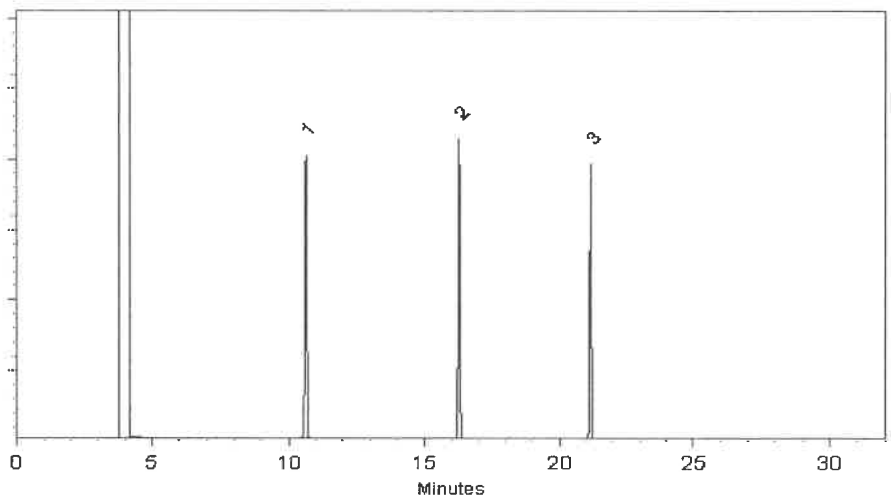
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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-30241_00014

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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. : 30241 **Lot No.:** A0198297

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, 2028 **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	Fluorobenzene	462-06-6	BCBZ5549	99%	2,504.7 µg/mL	+/- 140.7155
2	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,513.3 µg/mL	+/- 141.2024
3	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.3 µg/mL	+/- 141.3148

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

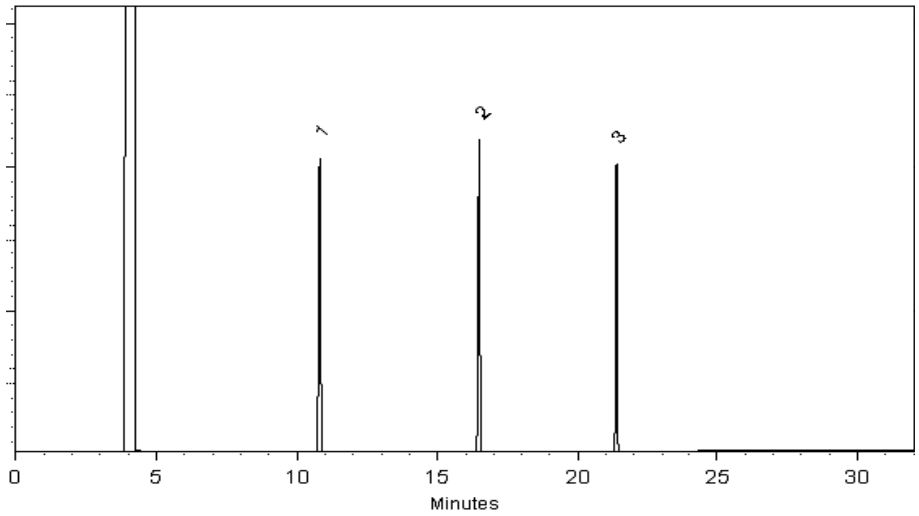
Inj. Temp:
200°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 22-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 24-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-567650_00030

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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. : 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 +/- 140.7809 µg/mL +/- 144.0750 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL +/- 141.1818 µg/mL +/- 144.4852 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31750) **Purity** 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL +/- 140.1949 µg/mL +/- 143.4753 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL +/- 141.3444 µg/mL +/- 144.6516 µg/mL	Gravimetric Unstressed Stressed

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

Rcvd 4/5/24

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

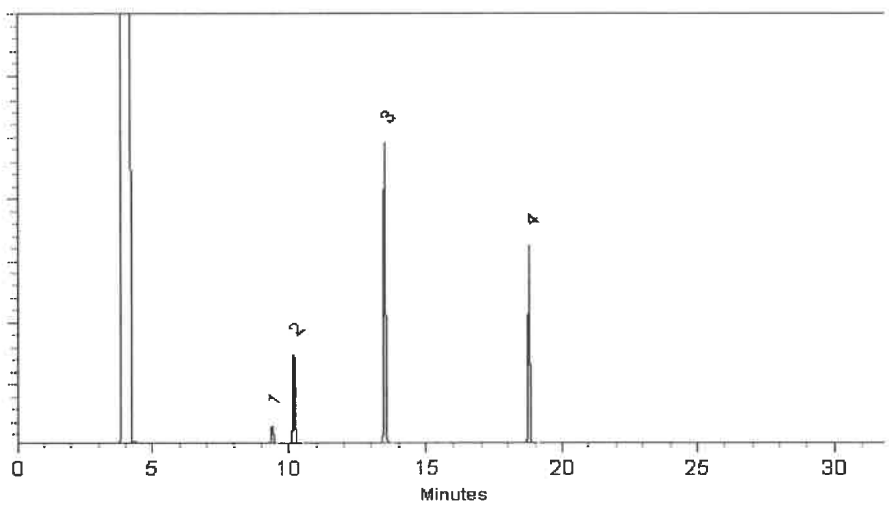
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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-568720.sec_00041

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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. : 568720.SEC **Lot No.:** A0209508

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 : September 30, 2025 **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	RD230612S	99%	19,752.0 µg/mL	+/- 580.2737

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

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.)

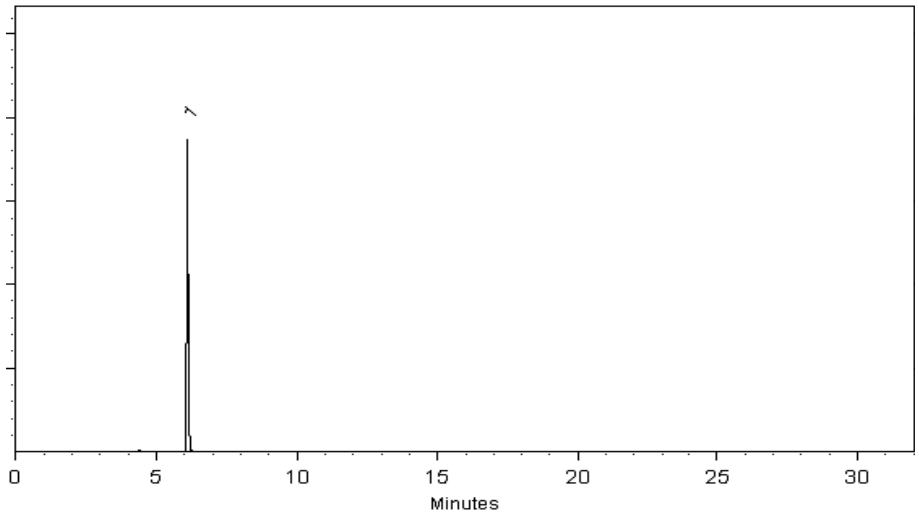
Inj. Temp:
200°C

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.

Malina Homan - Operations Technician I

Date Mixed: 26-Mar-2024 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 01-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_00048

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ilac-MRA A2LA ACCREDITED 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. : 568720 **Lot No.:** A0203711

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 : April 30, 2025 **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	RD230921RSR	99%	19,875.0 µg/mL	+/- 583.8872

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

1/10/24 gm

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.)

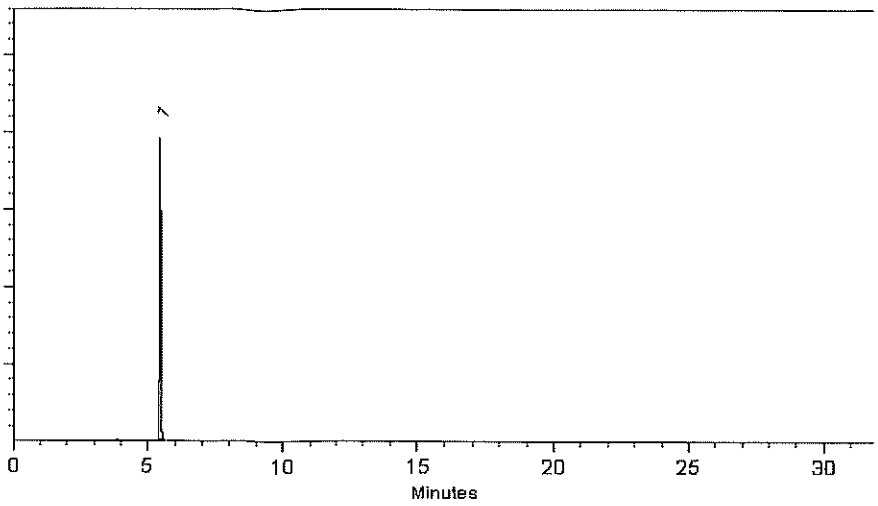
Inj. Temp:
200°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 26-Oct-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 03-Nov-2023

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

Reagent

MV-569721.sec_00011

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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. : 569721.SEC **Lot No.:** A0194631

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 : February 28, 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	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* 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%

Rec'd 7/25/23

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.)

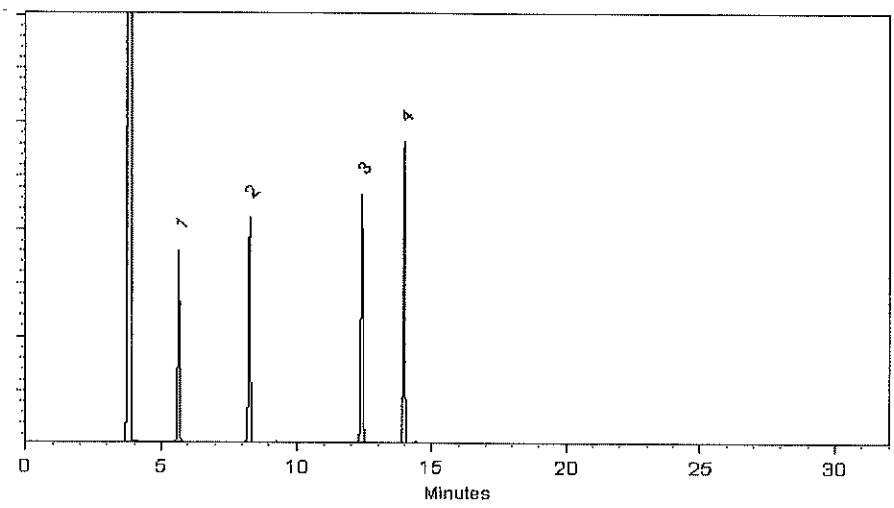
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
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.

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

Reagent

MV-569721_00015

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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. : 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 **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	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%

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.)

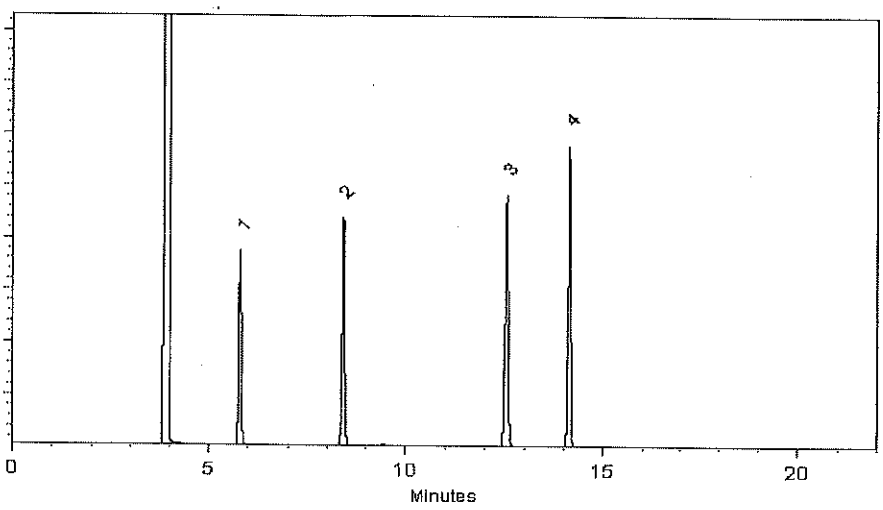
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
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 - Operations Tech I

Date Mixed: 12-Jan-2023 **Balance Serial #** B251644995

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_00018

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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. : 569722.SEC **Lot No.:** A0200059

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 : July 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%	2,498.7 µg/mL	+/- 141.3032
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,499.9 µg/mL	+/- 141.5220
3	Vinyl chloride	75-01-4.SEC	MKBK6872V	99%	2,500.7 µg/mL	+/- 142.8051
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,500.4 µg/mL	+/- 141.3330
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	2,505.7 µg/mL	+/- 141.5475
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,499.8 µg/mL	+/- 141.4404
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,502.0 µg/mL	+/- 140.5657
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,500.7 µg/mL	+/- 142.0532

* 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.**

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.)

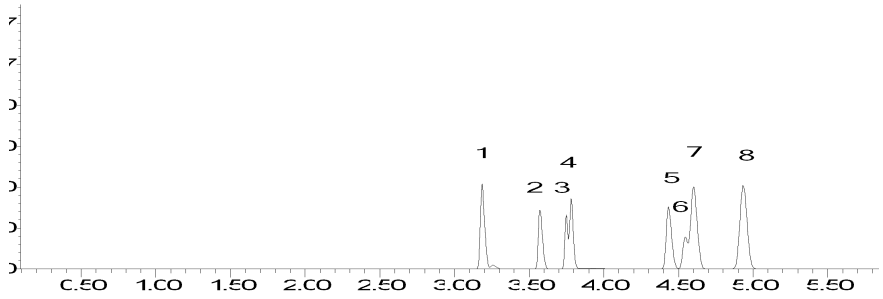
Inj. Temp:
200°C

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.

Brandon Reish - Operations Technician II

Date Mixed: 19-Jul-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Aug-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569722.sec_00019

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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. : 569722.SEC **Lot No.:** A0210106

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 : April 30, 2027 **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	28888	99%	2,508.8 µg/mL	+/- 141.9696
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,503.3 µg/mL	+/- 142.0144
3	Vinyl chloride	75-01-4 *	00015559	99%	2,508.1 µg/mL	+/- 141.5910
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,509.7 µg/mL	+/- 141.7417
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,506.6 µg/mL	+/- 141.4209
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,510.1 µg/mL	+/- 142.2642
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,523.6 µg/mL	+/- 141.7792
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,512.0 µg/mL	+/- 142.1976

* 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.**

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.)

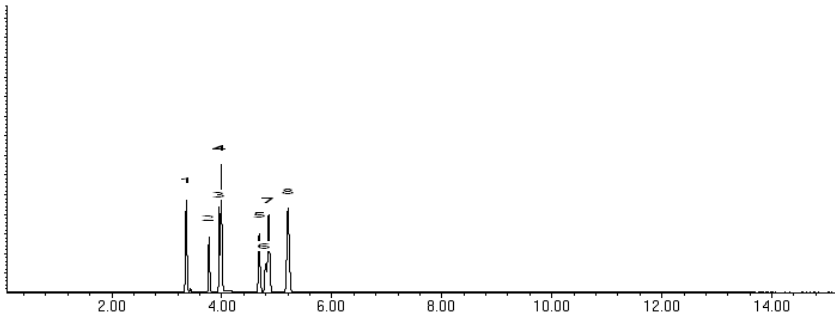
Inj. Temp:
200°C

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.

Michael S. Maye - Operations Tech III

Date Mixed: 10-Apr-2024 **Balance Serial #** 1127510105

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 17-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569723.sec_00015

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Certificate of Analysis

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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.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%

rev 5/1/23

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:
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.)

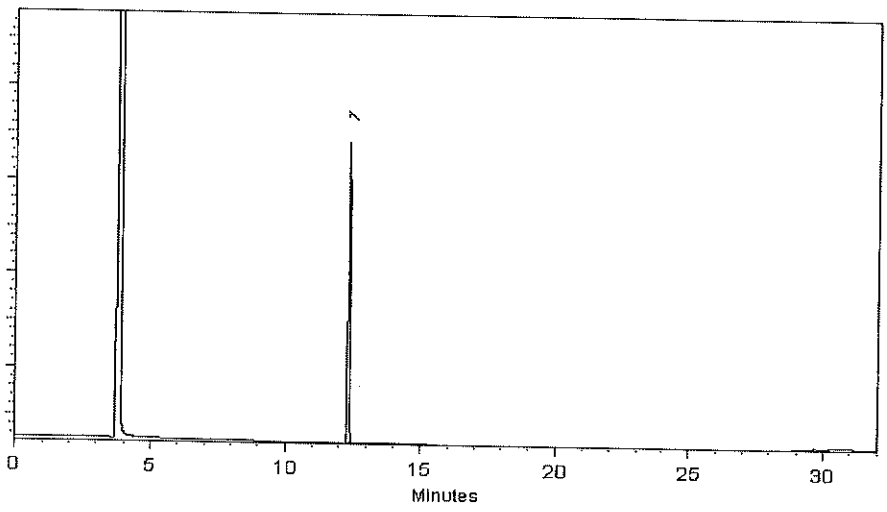
Inj. Temp:
200°C

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.

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

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

Reagent

MV-569723_00018

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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 **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 **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	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%

5/1/23 JW -00018

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:
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.)

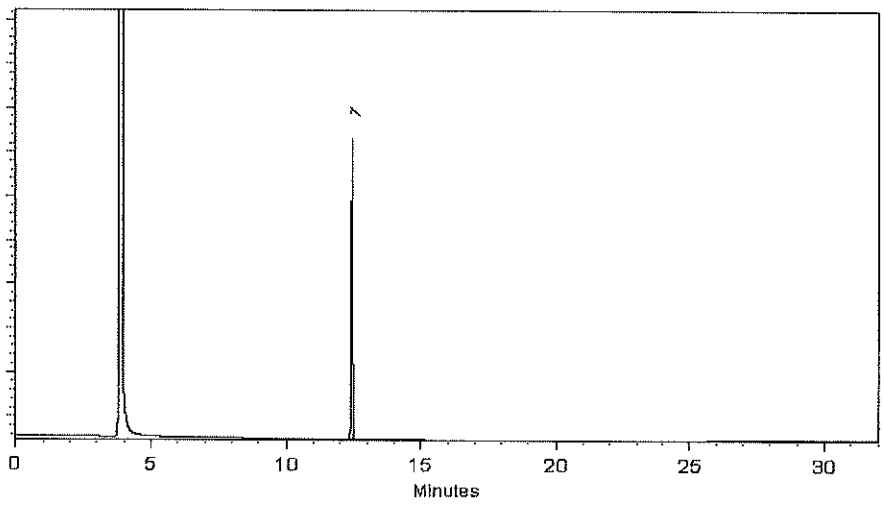
Inj. Temp:
200°C

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_00037

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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.SEC **Lot No.:** A0197959

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 : November 30, 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	Vinyl acetate	108-05-4	SEC RD230301RSRA	98%	5,044.4 µg/mL	+/- 174.3571

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.

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.)

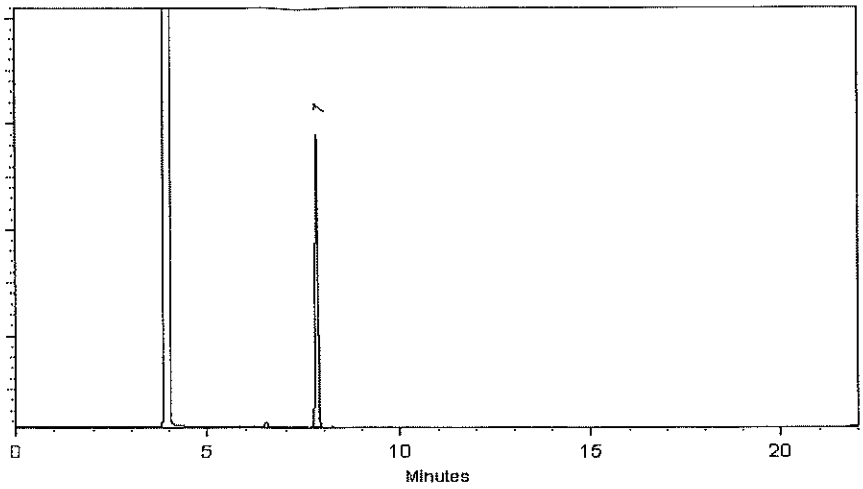
Inj. Temp:
200°C

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.

John Friedline - Operations Technician I

Date Mixed: 11-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 17-May-2023

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

Reagent

MV-569724_00037

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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.:** A0200199

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, 2025 **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	Vinyl acetate	108-05-4	RD220630	99%	5,036.0 µg/mL	+/- 174.0672

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.

12/6/23
- 00037

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.)

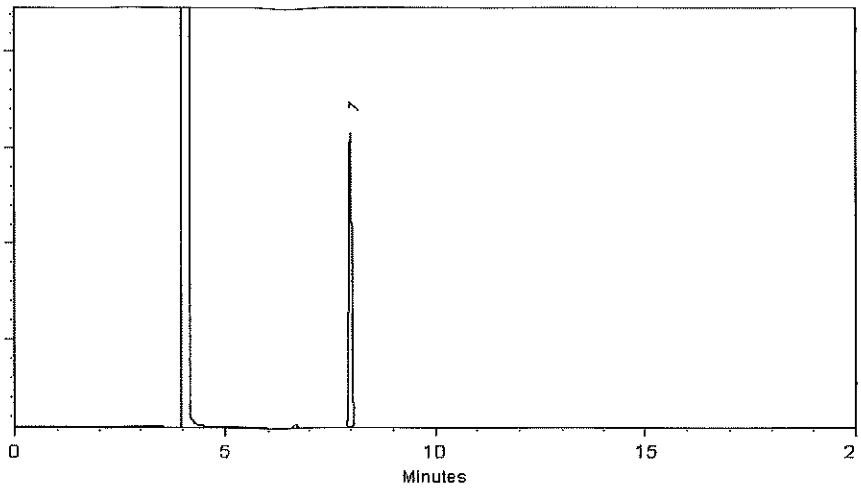
Inj. Temp:
200°C

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: 24-Jul-2023 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 26-Jul-2023

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

Reagent

MV-569727.sec_00013

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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.:** A0195344

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, 2026 **Storage:** 10°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	Cyclohexanone	108-94-1.SEC GA3TF		99%	25,205.1 µg/mL	+/- 871.1479

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rcvd 7/15/23

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.)

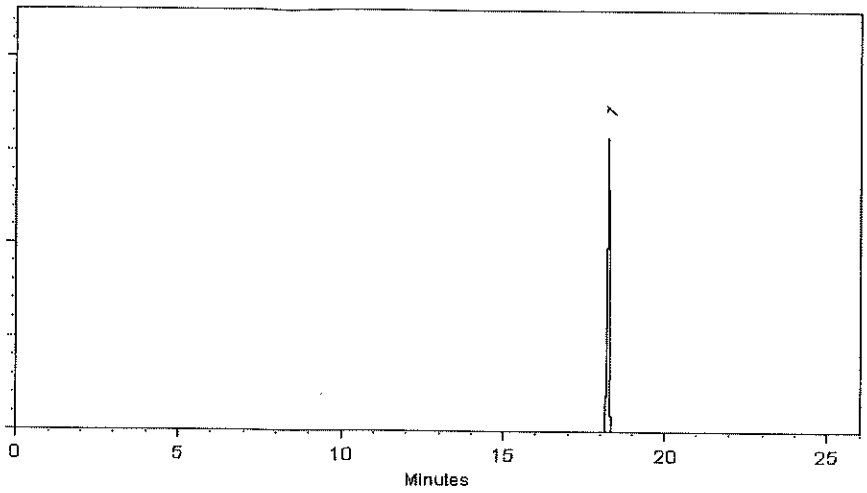
Inj. Temp:
200°C

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.

Jess Hoy - Operations Tech I

Date Mixed: 01-Mar-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Mar-2023

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

Reagent

MV-569727_00025

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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. : 569727 **Lot No.:** A0209630

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, 2027 **Storage:** 10°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	Cyclohexanone	108-94-1	MKCS0133	99%	25,225.0 µg/mL	+/- 871.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water

CAS # 7732-18-5

Purity 99%

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.)

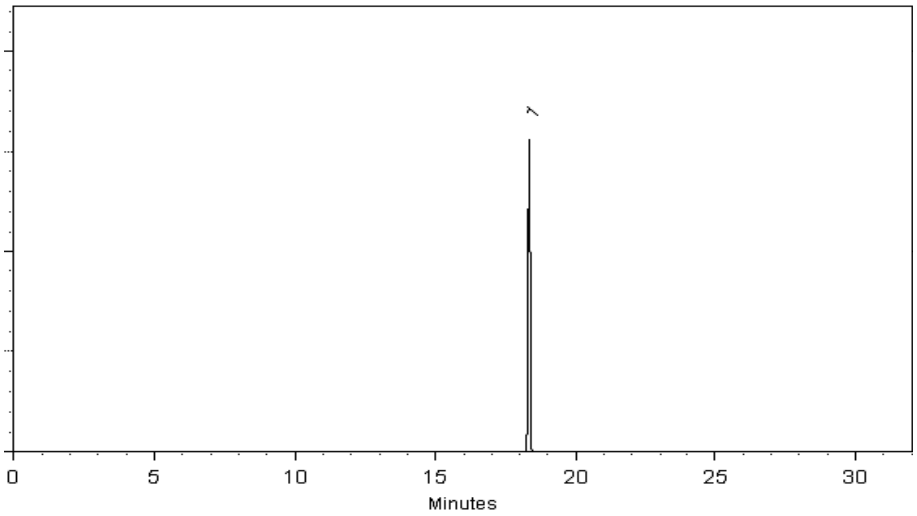
Inj. Temp:
200°C

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: 29-Mar-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-570808.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. : 570808.SEC **Lot No.:** A0208453

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 : August 31, 2025 **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	7B8ZE	99%	25,003.0 µg/mL	+/- 408.8470
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 *	SYN240122CTH-A	99%	2,502.5 µg/mL	+/- 40.9326
3	Methacrylonitrile	126-98-7 *	1012014	99%	25,003.5 µg/mL	+/- 408.8552
4	2,2,4-Trimethylpentane (Isooctane)	540-84-1.SEC	13202300	99%	2,502.0 µg/mL	+/- 40.9245
5	1-Butanol	71-36-3.SEC	RSHAH	99%	62,502.0 µg/mL	+/- 1,022.0208
6	2-Nitropropane	79-46-9.SEC	F43IA	99%	5,003.5 µg/mL	+/- 81.8168
7	1-Chlorohexane	544-10-5.SEC	13075400	99%	2,501.0 µg/mL	+/- 40.9081
8	1,2,3-Trimethylbenzene	526-73-8.SEC	13921700	98%	2,502.4 µg/mL	+/- 40.9315
9	Benzyl chloride	100-44-7.SEC	H29N03	99%	2,500.0 µg/mL	+/- 40.8917
10	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	2,501.0 µg/mL	+/- 40.9081

* 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.**

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.)

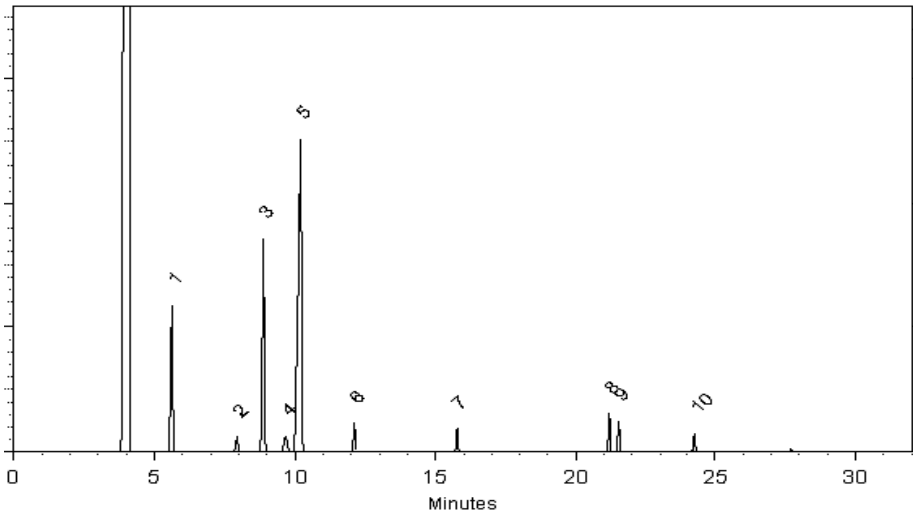
Inj. Temp:
200°C

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.

Michael S. Maye - Operations Tech III

Date Mixed: 28-Feb-2024 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Mar-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-570808_00016

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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.:** A0195733

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 : September 30, 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	SHBP6610	99%	25,144.5 µg/mL	+/- 411.1608
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	220712JLM	99%	2,505.5 µg/mL	+/- 40.9817
3	Methacrylonitrile	126-98-7	1012014	99%	25,171.0 µg/mL	+/- 411.5941
4	2,2,4-Trimethylpentane (isooctane)	540-84-1	MKCF8045	99%	2,511.5 µg/mL	+/- 41.0798
5	1-Butanol	71-36-3	SHBN6854	99%	62,604.0 µg/mL	+/- 1,023.6887
6	2-Nitropropane	79-46-9	BCCB9352	97%	5,028.0 µg/mL	+/- 82.2174
7	1-Chlorohexane	544-10-5	BCBS3368V	99%	2,522.0 µg/mL	+/- 41.2516
8	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	2,523.0 µg/mL	+/- 41.2681
9	Benzyl chloride	100-44-7	MKCM5986	99%	2,509.5 µg/mL	+/- 41.0471
10	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	2,516.5 µg/mL	+/- 41.1616

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

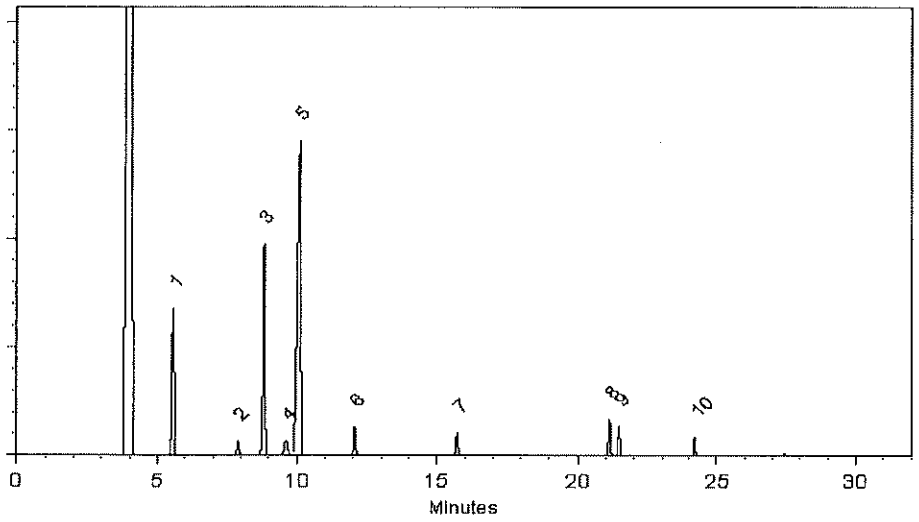
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 10-Mar-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Mar-2023

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

Reagent

mv-570809.sec_00011

RESTEK
110 Benner Circle
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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.:** A0194573

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 : August 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	Ethyl acetate	141-78-6.SEC	C386A-GG	99%	5,045.5 µg/mL	+/- 174.3842
2	Ethyl acrylate	140-88-5.SEC	YIFAM-TG	99%	2,522.5 µg/mL	+/- 87.1892
3	Methyl methacrylate	80-62-6.SEC	G01X021	99%	5,043.0 µg/mL	+/- 174.2978
4	Butyl acetate	123-86-4.SEC	V2L2G-GT	99%	2,509.0 µg/mL	+/- 86.7225

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

-00011
Rev 7/11/23

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.)

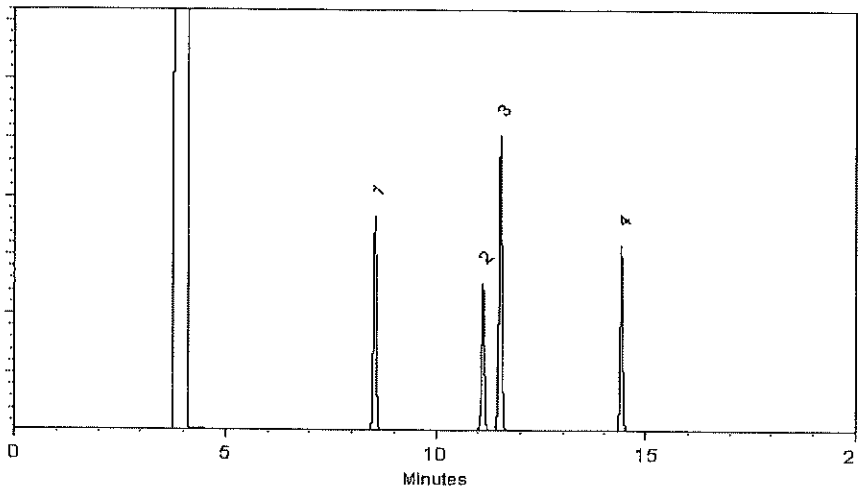
Inj. Temp:
200°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 13-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Feb-2023

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

Reagent

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mv-570809_00014

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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. : 570809 **Lot No.:** A0200274

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 : January 31, 2025 **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	Ethyl acetate	141-78-6	SHBP9289	99%	5,031.0 µg/mL	+/- 173.8830
2	Ethyl acrylate	140-88-5	10129902	99%	2,502.5 µg/mL	+/- 86.4979
3	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,000.0 µg/mL	+/- 172.8116
4	Butyl acetate	123-86-4	SHBP6314	99%	2,506.0 µg/mL	+/- 86.6188

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

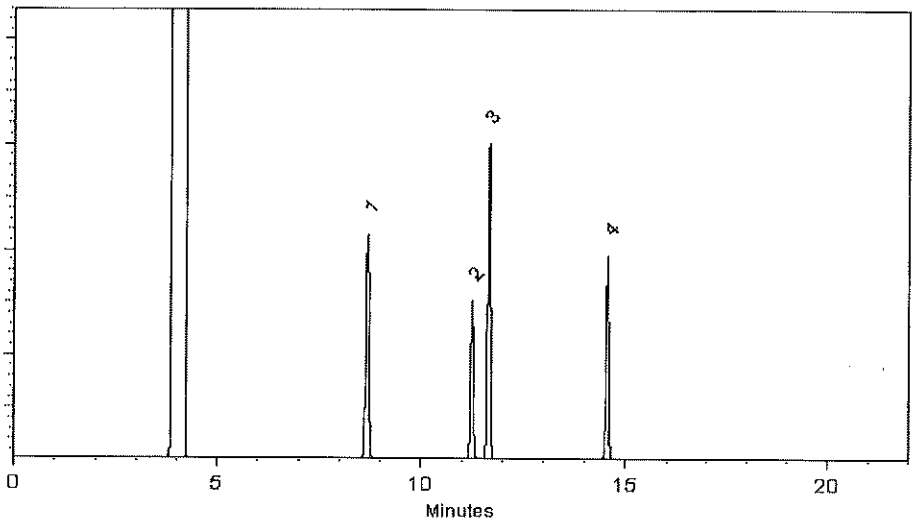
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 25-Jul-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Jul-2023

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

Reagent

MV-571992.sec_00010

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Certificate #3222.02

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. : 571992.SEC **Lot No.:** A0195252

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 : August 31, 2025 **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	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	62,830.8	µg/mL	+/- 2,171.1398
18	Chloroform	67-66-3.SEC 1297547	99%	2,511.7	µg/mL	+/- 86.7916
19	Bromochloromethane	74-97-5 * 230206JLM	99%	2,515.7	µg/mL	+/- 86.9298
20	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,018.5	µg/mL	+/- 173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC 13891800	99%	2,506.5	µg/mL	+/- 86.6130
22	Cyclohexane	110-82-7.SEC YADRA	99%	2,523.3	µg/mL	+/- 87.1947
23	1,1-Dichloropropene	563-58-6.SEC 556500	99%	2,520.5	µg/mL	+/- 87.0968
24	Carbon tetrachloride	56-23-5.SEC 11466	99%	2,520.5	µg/mL	+/- 87.0968
25	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	2,516.5	µg/mL	+/- 86.9586
26	1,2-Dichloroethane	107-06-2.SEC 00016165	99%	2,519.8	µg/mL	+/- 87.0738
27	Benzene	71-43-2.SEC 101960P29K	99%	2,518.8	µg/mL	+/- 87.0392
28	Trichloroethene	79-01-6.SEC H04X050	99%	2,524.3	µg/mL	+/- 87.2293
29	Methylcyclohexane	108-87-2.SEC Q02QG	99%	2,515.8	µg/mL	+/- 86.9356
30	1,2-Dichloropropane	78-87-5.SEC ERRBI-RH	99%	2,516.8	µg/mL	+/- 86.9701
31	1,4-Dioxane	123-91-1.SEC QHRWO	99%	50,137.2	µg/mL	+/- 1,732.5061
32	Dibromomethane	74-95-3.SEC MOKKJ	99%	2,516.3	µg/mL	+/- 86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC ZLXJ-TJ	99%	2,502.8	µg/mL	+/- 86.4863
34	Toluene	108-88-3.SEC YND2B-BD	99%	2,522.2	µg/mL	+/- 87.1544
35	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	2,510.8	µg/mL	+/- 86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC DMSL	98%	2,517.1	µg/mL	+/- 86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC 9245400	99%	2,512.2	µg/mL	+/- 86.8089
38	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	2,519.3	µg/mL	+/- 87.0565
39	Tetrachloroethene	127-18-4.SEC F09W014	99%	2,521.3	µg/mL	+/- 87.1256
40	Dibromochloromethane	124-48-1.SEC 10234064	99%	2,517.5	µg/mL	+/- 86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	2,518.3	µg/mL	+/- 87.0220
42	Chlorobenzene	108-90-7.SEC 1161936	99%	2,515.8	µg/mL	+/- 86.9356
43	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,255.3	µg/mL	+/- 43.3814
44	p-Xylene	106-42-3.SEC D6UOA	99%	1,260.3	µg/mL	+/- 43.5541
45	Ethylbenzene	100-41-4.SEC PI4SE	99%	2,517.7	µg/mL	+/- 86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	2,517.5	µg/mL	+/- 86.9932
47	o-Xylene	95-47-6.SEC UJ6RI	99%	2,515.8	µg/mL	+/- 86.9356
48	Styrene	100-42-5.SEC QGQ7F	99%	2,521.3	µg/mL	+/- 87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	2,515.0	µg/mL	+/- 86.9068
50	Bromoform	75-25-2.SEC 13723500	99%	2,522.5	µg/mL	+/- 87.1659
51	Bromodichloromethane	75-27-4.SEC 28128	99%	2,524.2	µg/mL	+/- 87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	2,523.7	µg/mL	+/- 87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

* 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.**

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
hellum-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

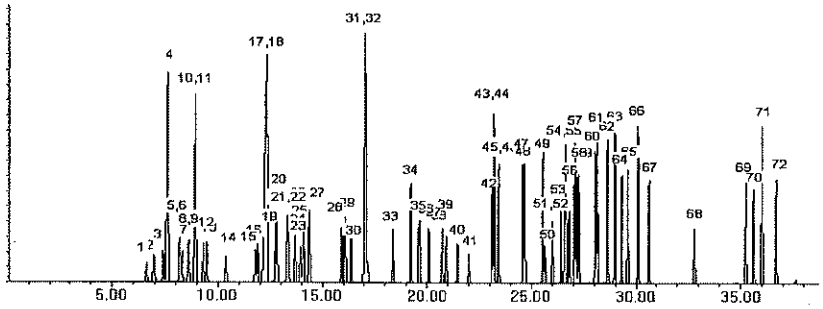
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 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.

John Friedline - Operations Technician I — **Date Mixed:** 28-Feb-2023 — **Balance Serial #** 1127510105

Christie Mills - Operations Tech II - ARM QC — **Date Passed:** 22-Mar-2023

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

Reagent

MV-571992_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. : 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)		2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBP1417)			+/-	151.6355	µg/mL	Unstressed
	Purity 99%				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide		2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	151.4470	µg/mL	Unstressed
	Purity 99%				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile		25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot SHBK4954)			+/-	1,514.5670	µg/mL	Unstressed
	Purity 99%				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBN6497)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKCP7830)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6)		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 760200)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot RD211103)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot 098794J01H)			+/-	3,778.9321	µg/mL	Unstressed
	Purity 99%				+/-	3,787.9040	µg/mL	Stressed
18	chloroform		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBN8469)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane		2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	151.8618	µg/mL	Unstressed
	Purity 99%				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran		5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBN3757)			+/-	303.8517	µg/mL	Unstressed
	Purity 99%				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	151.4168	µg/mL	Unstressed
	Purity 99%				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot EA003-US)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride		2,513.5	µg/mL	+/-	14.6137	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	151.6506	µg/mL	Unstressed
	Purity 99%				+/-	152.0106	µg/mL	Stressed
25	n-Heptane (C7)		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SGBL9221)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
26	1,2-Dichloroethane		2,514.4	µg/mL	+/-	14.6188	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	151.7034	µg/mL	Unstressed
	Purity 99%				+/-	152.0636	µg/mL	Stressed
27	Benzene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
28	Trichloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed
29	Methylcyclohexane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	151.4545	µg/mL	Unstressed
	Purity 99%				+/-	151.8141	µg/mL	Stressed
30	1,2-Dichloropropane		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
31	1,4-Dioxane		50,187.5	µg/mL	+/-	291.7792	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM9675)			+/-	3,028.0328	µg/mL	Unstressed
	Purity 99%				+/-	3,035.2219	µg/mL	Stressed
32	Dibromomethane		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD220311)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
34	Toluene		2,518.4	µg/mL	+/-	14.6420	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	151.9447	µg/mL	Unstressed
	Purity 99%				+/-	152.3055	µg/mL	Stressed
35	Ethyl methacrylate		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,504.5	µg/mL	+/-	14.5615	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD211104)			+/-	151.1083	µg/mL	Unstressed
	Purity 98%				+/-	151.4671	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
38	1,3-Dichloropropane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
39	Tetrachloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

40	dibromochloromethane		2,514.8	µg/mL	+/-	14.6210	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	151.7260	µg/mL	Unstressed
	Purity 99%				+/-	152.0862	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,513.9	µg/mL	+/-	14.6159	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCCF5058)			+/-	151.6732	µg/mL	Unstressed
	Purity 99%				+/-	152.0333	µg/mL	Stressed
42	Chlorobenzene		2,507.9	µg/mL	+/-	14.5810	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	151.3112	µg/mL	Unstressed
	Purity 99%				+/-	151.6704	µg/mL	Stressed
43	m-Xylene		1,260.0	µg/mL	+/-	7.3257	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot Q13G020)			+/-	76.0214	µg/mL	Unstressed
	Purity 99%				+/-	76.2019	µg/mL	Stressed
44	p-Xylene		1,258.6	µg/mL	+/-	7.3178	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	75.9384	µg/mL	Unstressed
	Purity 99%				+/-	76.1187	µg/mL	Stressed
45	Ethylbenzene		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,519.1	µg/mL	+/-	14.6464	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot TMWGK)			+/-	151.9900	µg/mL	Unstressed
	Purity 99%				+/-	152.3508	µg/mL	Stressed
47	o-Xylene		2,513.5	µg/mL	+/-	14.6134	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBN5105)			+/-	151.6479	µg/mL	Unstressed
	Purity 98%				+/-	152.0079	µg/mL	Stressed
48	Styrene		2,509.1	µg/mL	+/-	14.5883	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	151.3866	µg/mL	Unstressed
	Purity 99%				+/-	151.7460	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,518.5	µg/mL	+/-	14.6428	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	151.9523	µg/mL	Unstressed
	Purity 99%				+/-	152.3130	µg/mL	Stressed
50	bromoform		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	151.5001	µg/mL	Unstressed
	Purity 98%				+/-	151.8597	µg/mL	Stressed
51	bromodichloromethane		2,518.1	µg/mL	+/-	14.6406	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	151.9296	µg/mL	Unstressed
	Purity 99%				+/-	152.2903	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,512.5	µg/mL	+/-	14.6079	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	151.5903	µg/mL	Unstressed
	Purity 99%				+/-	151.9502	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,511.8	µg/mL	+/-	14.6038	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD220405A)			+/-	151.5480	µg/mL	Unstressed
	Purity 95%				+/-	151.9078	µg/mL	Stressed
55	n-Propylbenzene		2,515.6	µg/mL	+/-	14.6261	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCN1126)			+/-	151.7788	µg/mL	Unstressed
	Purity 99%				+/-	152.1392	µg/mL	Stressed

56	Bromobenzene		2,516.9	µg/mL	+/-	14.6333	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.8542	µg/mL	Unstressed
	Purity 99%				+/-	152.2147	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,512.3	µg/mL	+/-	14.6064	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	151.5752	µg/mL	Unstressed
	Purity 99%				+/-	151.9350	µg/mL	Stressed
58	2-Chlorotoluene		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
59	4-Chlorotoluene		2,513.1	µg/mL	+/-	14.6115	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	151.6280	µg/mL	Unstressed
	Purity 99%				+/-	151.9880	µg/mL	Stressed
60	tert-Butylbenzene		2,514.6	µg/mL	+/-	14.6202	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	151.7185	µg/mL	Unstressed
	Purity 99%				+/-	152.0787	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,517.1	µg/mL	+/-	14.6348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	151.8696	µg/mL	Unstressed
	Purity 98%				+/-	152.2302	µg/mL	Stressed
62	sec-Butylbenzene		2,519.3	µg/mL	+/-	14.6471	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	151.9975	µg/mL	Unstressed
	Purity 99%				+/-	152.3584	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,512.0	µg/mL	+/-	14.6050	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	151.5601	µg/mL	Unstressed
	Purity 99%				+/-	151.9199	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,513.4	µg/mL	+/-	14.6130	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	151.6431	µg/mL	Unstressed
	Purity 99%				+/-	152.0031	µg/mL	Stressed
66	n-Butylbenzene		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,512.4	µg/mL	+/-	14.6074	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	151.5855	µg/mL	Unstressed
	Purity 97%				+/-	151.9454	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,510.4	µg/mL	+/-	14.5955	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	151.4620	µg/mL	Unstressed
	Purity 99%				+/-	151.8216	µg/mL	Stressed
70	Hexachlorobutadiene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
71	Naphthalene		2,520.6	µg/mL	+/-	14.6551	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	152.0805	µg/mL	Unstressed
	Purity 99%				+/-	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)

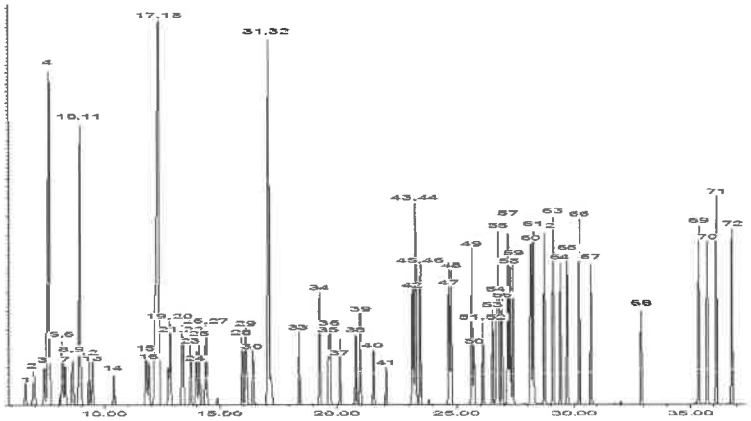
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 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.

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

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mv-571993.sec_00009

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.SEC **Lot No.:** A0195116

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 : February 28, 2025 **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	Acetonitrile	75-05-8.SEC	3ZDOE	99%	25,115.0 µg/mL	+/- 410.6784
2	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	2,520.0 µg/mL	+/- 41.2189
3	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	2,518.6 µg/mL	+/- 41.1960
4	Propionitrile	107-12-0.SEC	B4ZPC	99%	25,148.0 µg/mL	+/- 411.2180
5	tert-Amyl alcohol	75-85-4.SEC	FO4AK	99%	25,121.0 µg/mL	+/- 410.7765
6	tert-Amyl methyl ether (TAME)	994-05-8.SEC	12075100	98%	2,515.7 µg/mL	+/- 41.1479

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

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.)

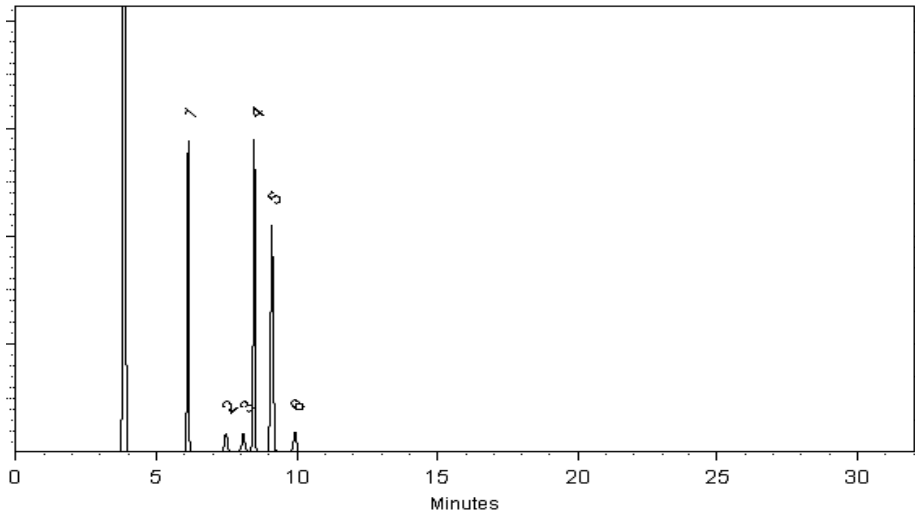
Inj. Temp:
200°C

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.

Malina Homan - Operations Technician I

Date Mixed: 24-Feb-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Feb-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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

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mv-571993_00010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571993 **Lot No.:** A0194786

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 : February 28, 2025 **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	Acetonitrile	75-05-8	SHBH6233	99%	25,178.4 µg/mL	+/- 411.7151
2	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	2,519.2 µg/mL	+/- 41.2058
3	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	2,512.8 µg/mL	+/- 41.1011
4	Propionitrile	107-12-0	BCCF4167	99%	25,095.6 µg/mL	+/- 410.3612
5	tert-Amyl alcohol	75-85-4	STBB1898V	99%	25,105.6 µg/mL	+/- 410.5247
6	tert-Amyl methyl ether (TAME)	994-05-8	HMBG7745V	99%	2,514.0 µg/mL	+/- 41.1207

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

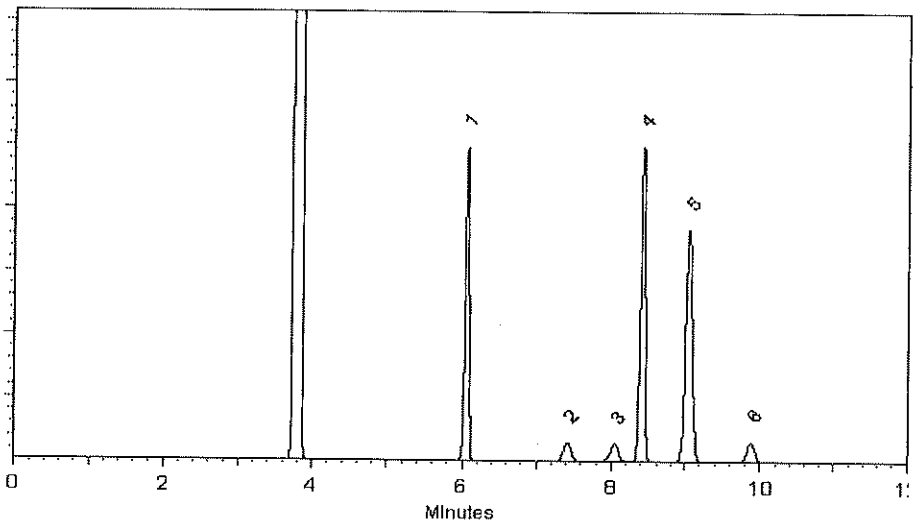
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 17-Feb-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Feb-2023

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

Reagent

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mv-571994.sec_00007

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Fax: (814)353-1309

www.restek.com

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Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 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%

12/5/22

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

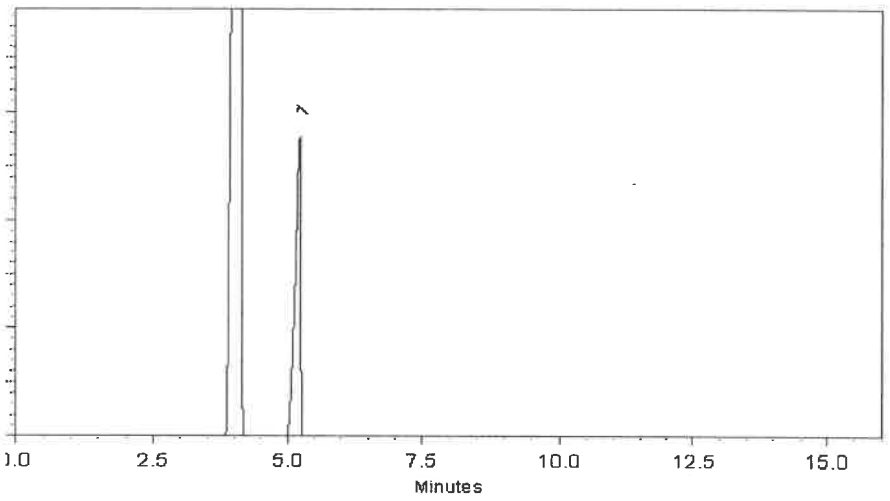
Carrier Gas:
hydrogen-constant pressure 11 psi.

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_00010

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 571994 **Lot No.:** A0195429

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, 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	Ethanol	64-17-5	SHBQ2807	99%	100,006.7 µg/mL	+/- 1,243.9578

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

6/1/23

6001D

Reagent

MV-CUS17739.s_00012

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Product Number: CUS-17739

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006765276

Lot Issue Date: 03-Oct-2023

Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1005	±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4014	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30122	±	151 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:
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.

Agilent

Trusted Answers

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

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

7/5/2024
11:14:22 AM

Reagent

MV-CUS17739.s_00013

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Product Number: CUS-17739

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006765276

Lot Issue Date: 03-Oct-2023

Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1005	±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4014	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30122	±	151 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.

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Agilent

Trusted Answers

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

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

7/5/2024
11:14:22 AM

Reagent

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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. : 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		5,000.1 µg/mL	+/- 29.0694 µg/mL	Gravimetric
	CAS # 25725-11-5	(Lot CD-107)		+/- 107.0521 µg/mL	Unstressed
	Purity 98%			+/- 110.1643 µg/mL	Stressed
2	Dibromofluoromethane		250.2 µg/mL	+/- 1.4580 µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012017)		+/- 5.3577 µg/mL	Unstressed
	Purity 99%			+/- 5.5134 µg/mL	Stressed
3	1,2-Dichloroethane-d4		250.3 µg/mL	+/- 1.4584 µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-29377)		+/- 5.3592 µg/mL	Unstressed
	Purity 99%			+/- 5.5149 µg/mL	Stressed
4	1,4-Dioxane-d8		5,000.5 µg/mL	+/- 29.0716 µg/mL	Gravimetric
	CAS # 17647-74-4	(Lot I-19942)		+/- 107.0602 µg/mL	Unstressed
	Purity 99%			+/- 110.1726 µg/mL	Stressed
5	Fluorobenzene		250.1 µg/mL	+/- 1.4573 µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 5.3549 µg/mL	Unstressed
	Purity 99%			+/- 5.5105 µg/mL	Stressed
6	Toluene-d8		250.1 µg/mL	+/- 1.4575 µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 5.3556 µg/mL	Unstressed
	Purity 99%			+/- 5.5112 µg/mL	Stressed
7	Chlorobenzene-d5		250.5 µg/mL	+/- 1.4600 µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 5.3649 µg/mL	Unstressed
	Purity 99%			+/- 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)

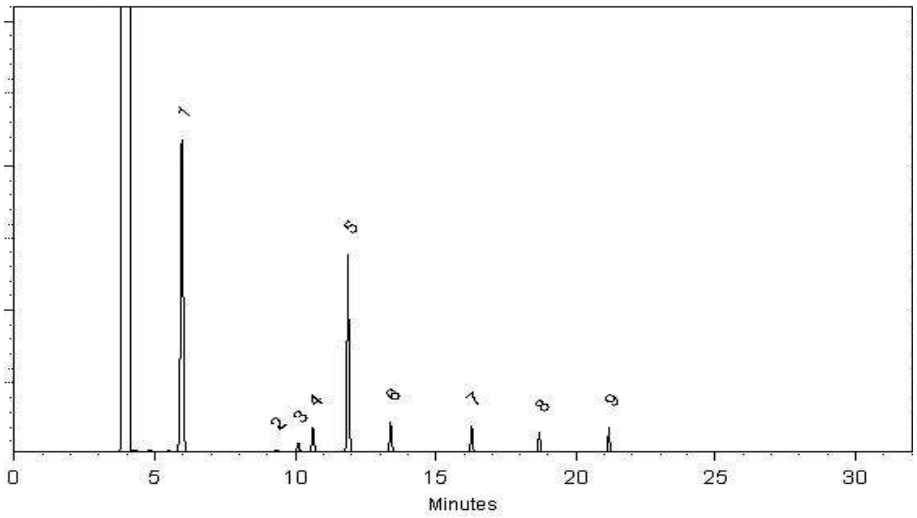
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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

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-IS/SS Tune_00002

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Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 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	2,510.9 µg/mL	+/- 14.5983 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 140.7809 µg/mL	Unstressed
	Purity 99%		+/- 144.0750 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,518.0 µg/mL	+/- 14.6399 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 141.1818 µg/mL	Unstressed
	Purity 99%		+/- 144.4852 µg/mL	Stressed
3	Toluene-d8	2,500.4 µg/mL	+/- 14.5375 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31750)		+/- 140.1949 µg/mL	Unstressed
	Purity 99%		+/- 143.4753 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,520.9 µg/mL	+/- 14.6567 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 141.3444 µg/mL	Unstressed
	Purity 99%		+/- 144.6516 µg/mL	Stressed

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

Rcvd 4/5/24

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

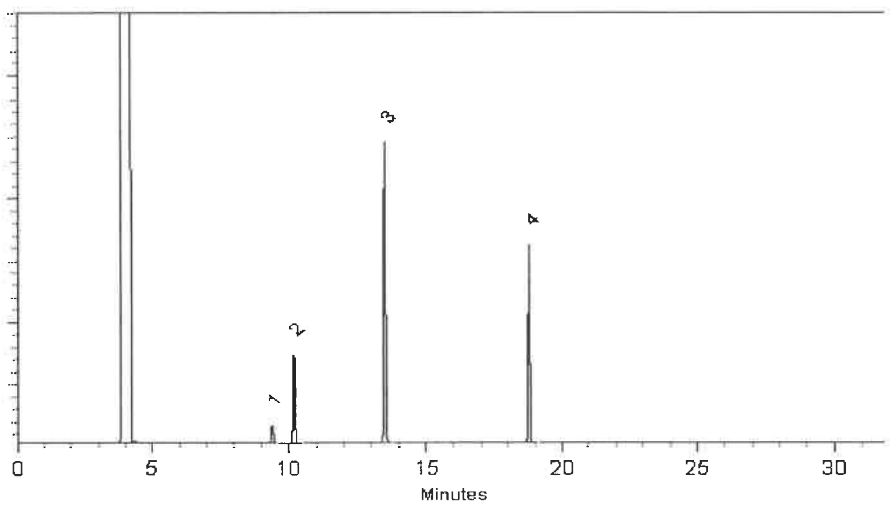
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Z-020209-01.b_00002

2nd

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020209-01-SS	492314	-18°C +/- 4°C	P/T Methanol	11/15/2024	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 ± 12.61

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
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 gravimetricly.

Reagent

Z-020209-01_00004

CPI INTERNATIONAL

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: 8/23

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020209-01	507909	-18°C +/- 4°C	P/T Methanol	8/15/2025	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	98	209.1.5P	992.4 ± 15.84

10/23/23

*Not a certified value

Briana Smith

Certified By: _____

Briana Smith
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.: 280-193176-1

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 #
RW-2237H-20240618	280-193176-1	96	102	104	104
RW-2213F-20240618	280-193176-2	97	101	105	101
RW-2172H-20240618	280-193176-3	100	104	105	102
RW-8284P-20240618	280-193176-4	98	103	103	103
RW-7677P-20240618	280-193176-5	97	99	103	102
Muni-Well-14-20240619	280-193176-6	100	101	98	99
Muni-Well-33-20240619	280-193176-7	101	101	100	101
TB-01-20240620	280-193176-8	101	101	99	101
RW-2151H-20240618	280-193176-9	100	104	104	103
RW-8048P-20240618	280-193176-10	99	101	104	102
RW-8030P-20240618	280-193176-11	98	103	103	101
RW-7505P-20240618	280-193176-12	99	102	104	101
RW-7505P-Q-20240618	280-193176-13	100	103	104	101
RW-2203H-20240619	280-193176-14	99	101	99	98
RW-2076F-20240619	280-193176-15	99	101	100	99
	MB 280-658893/9	99	103	104	102
	MB 280-658996/9	101	100	100	101
	MB 280-659045/9	100	101	98	103
	LCS 280-658893/4	95	104	104	105
	LCS 280-658893/6	99	102	102	104
	LCS 280-658996/4	102	102	100	102
	LCS 280-658996/5	98	100	102	105
	LCS 280-659045/4	101	103	100	99
	LCS 280-659045/5	101	100	99	101
	LCSD 280-658893/5	96	103	100	103
	LCSD 280-658893/7	96	101	106	108
	LCSD 280-658996/6	99	102	99	101
	LCSD 280-658996/7	102	99	101	104
	LCSD 280-659045/6	102	101	100	103
	LCSD 280-659045/7	101	100	101	103

	QC LIMITS
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 II 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

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 #
RW-2213F-20240618 MS	280-193176-2 MS	97	100	100	98
RW-2213F-20240618 MSD	280-193176-2 MSD	96	100	102	101

	QC LIMITS
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 II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86869A.D

Lab ID: LCS 280-658893/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	50.1	100	80-124	
1,1,1-Trichloroethane	50.0	46.8	94	80-123	
1,1,2,2-Tetrachloroethane	50.0	48.5	97	74-123	
1,1,2-Trichloroethane	50.0	44.8	90	80-120	
1,1-Dichloroethane	50.0	45.8	92	78-121	
1,1-Dichloroethene	50.0	47.0	94	77-121	
1,1-Dichloropropene	50.0	47.2	94	77-123	
1,2,3-Trichloropropane	50.0	47.9	96	80-120	
1,2-Dibromo-3-Chloropropane	50.0	47.2	94	73-128	
1,2-Dichlorobenzene	50.0	46.0	92	80-120	
1,2-Dichloroethane	50.0	43.6	87	71-121	
1,2-Dichloropropane	50.0	45.2	90	78-120	
1,3-Dichlorobenzene	50.0	46.7	93	80-120	
1,3-Dichloropropane	50.0	48.0	96	77-122	
1,4-Dichlorobenzene	50.0	45.7	91	80-120	
2,2-Dichloropropane	50.0	45.1	90	75-131	
2-Hexanone	200	168	84	62-137	
4-Methyl-2-pentanone (MIBK)	200	161	80	66-135	
Acetone	200	160	80	61-134	
Benzene	50.0	46.8	94	80-120	
Bromoform	50.0	51.0	102	79-138	
Bromomethane	50.0	64.3	129	29-148	
Carbon disulfide	50.0	48.0	96	70-121	
Carbon tetrachloride	50.0	50.6	101	79-127	
Chlorobenzene	50.0	45.5	91	80-120	
Chlorobromomethane	50.0	45.1	90	80-123	
Chlorodibromomethane	50.0	50.7	101	80-125	
Chloroethane	50.0	70.8	142	56-141	*+
Chloroform	50.0	45.0	90	80-120	
Chloromethane	50.0	52.3	105	56-133	
cis-1,2-Dichloroethene	50.0	45.8	92	80-120	
cis-1,3-Dichloropropene	50.0	47.1	94	76-129	
Dibromomethane	50.0	44.4	89	80-120	
Dichlorobromomethane	50.0	48.0	96	80-123	
Dichlorodifluoromethane	50.0	55.6	111	47-135	
Ethylbenzene	50.0	47.3	95	80-120	
Iodomethane	50.0	40.0	80	43-139	
Isobutyl alcohol	1250	1070	86	46-146	
Methylene Chloride	50.0	43.0	86	78-120	
m-Xylene & p-Xylene	50.0	45.6	91	80-120	
o-Xylene	50.0	45.2	90	80-120	
Styrene	50.0	46.6	93	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86869A.D

Lab ID: LCS 280-658893/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	46.3	93	80-121	
Toluene	50.0	43.7	87	80-120	
trans-1,2-Dichloroethene	50.0	46.6	93	79-121	
trans-1,3-Dichloropropene	50.0	45.8	92	80-123	
Trichloroethene	50.0	46.6	93	80-120	
Trichlorofluoromethane	50.0	49.4	99	54-144	
Vinyl acetate	100	88.8	89	55-161	
Vinyl chloride	50.0	53.5	107	67-127	
Xylenes, Total	100	90.8	91	80-120	
2-Butanone (MEK)	200	149	74	58-135	
Acrolein	494	408	83	31-174	
Acrylonitrile	500	424	85	70-126	
1,2-Dibromoethane	50.0	45.0	90	80-120	
1,2,4-Trichlorobenzene	50.0	42.1	84	74-126	
Allyl chloride	50.0	42.4	85	65-132	
Ethyl methacrylate	50.0	51.1	102	80-122	
trans-1,4-Dichloro-2-butene	50.0	40.9	82	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86870B.D

Lab ID: LCS 280-658893/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	24.1	96	47-146	
Acetonitrile	250	208	83	23-155	
Methacrylonitrile	250	214	86	42-142	
Methyl methacrylate	50.0	41.7	83	60-133	
Propionitrile	250	220	88	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6079c.D

Lab ID: LCS 280-658996/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.2	104	80-124	
1,1,1-Trichloroethane	50.0	50.7	101	80-123	
1,1,2,2-Tetrachloroethane	50.0	48.6	97	74-123	
1,1,2-Trichloroethane	50.0	48.2	96	80-120	
1,1-Dichloroethane	50.0	48.1	96	78-121	
1,1-Dichloroethene	50.0	44.5	89	77-121	
1,1-Dichloropropene	50.0	47.0	94	77-123	
1,2,3-Trichloropropane	50.0	46.1	92	80-120	
1,2-Dibromo-3-Chloropropane	50.0	46.9	94	73-128	
1,2-Dichlorobenzene	50.0	51.8	104	80-120	
1,2-Dichloroethane	50.0	52.1	104	71-121	
1,2-Dichloropropane	50.0	47.0	94	78-120	
1,3-Dichlorobenzene	50.0	49.5	99	80-120	
1,3-Dichloropropane	50.0	48.9	98	77-122	
1,4-Dichlorobenzene	50.0	49.5	99	80-120	
2,2-Dichloropropane	50.0	47.0	94	75-131	
2-Hexanone	200	212	106	62-137	
4-Methyl-2-pentanone (MIBK)	200	213	106	66-135	
Acetone	200	187	93	61-134	
Benzene	50.0	47.1	94	80-120	
Bromoform	50.0	52.8	106	79-138	
Bromomethane	50.0	48.5	97	29-148	
Carbon disulfide	50.0	44.6	89	70-121	
Carbon tetrachloride	50.0	52.6	105	79-127	
Chlorobenzene	50.0	48.9	98	80-120	
Chlorobromomethane	50.0	46.6	93	80-123	
Chlorodibromomethane	50.0	53.5	107	80-125	
Chloroethane	50.0	44.5	89	56-141	
Chloroform	50.0	49.1	98	80-120	
Chloromethane	50.0	43.9	88	56-133	
cis-1,2-Dichloroethene	50.0	46.4	93	80-120	
cis-1,3-Dichloropropene	50.0	50.7	101	76-129	
Dibromomethane	50.0	50.0	100	80-120	
Dichlorobromomethane	50.0	53.3	107	80-123	
Dichlorodifluoromethane	50.0	40.6	81	47-135	
Ethylbenzene	50.0	48.1	96	80-120	
Iodomethane	50.0	38.4	77	43-139	
Isobutyl alcohol	1250	1380	110	46-146	
Methylene Chloride	50.0	42.0	84	78-120	
m-Xylene & p-Xylene	50.0	49.4	99	80-120	
o-Xylene	50.0	51.6	103	80-120	
Styrene	50.0	52.4	105	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6079c.D

Lab ID: LCS 280-658996/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	46.9	94	80-121	
Toluene	50.0	48.6	97	80-120	
trans-1,2-Dichloroethene	50.0	46.2	92	79-121	
trans-1,3-Dichloropropene	50.0	54.7	109	80-123	
Trichloroethene	50.0	48.6	97	80-120	
Trichlorofluoromethane	50.0	47.8	96	54-144	
Vinyl acetate	100	97.5	97	55-161	
Vinyl chloride	50.0	45.7	91	67-127	
Xylenes, Total	100	101	101	80-120	
2-Butanone (MEK)	200	189	95	58-135	
Acrolein	494	538	109	31-174	
Acrylonitrile	500	447	89	70-126	
1,2-Dibromoethane	50.0	49.0	98	80-120	
1,2,4-Trichlorobenzene	50.0	47.5	95	74-126	
Allyl chloride	50.0	47.6	95	65-132	
Ethyl methacrylate	50.0	52.1	104	80-122	
trans-1,4-Dichloro-2-butene	50.0	56.4	113	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6080c.D

Lab ID: LCS 280-658996/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	25.5	102	47-146	
Acetonitrile	250	244	97	23-155	
Methacrylonitrile	250	267	107	42-142	
Methyl methacrylate	50.0	44.1	88	60-133	
Propionitrile	250	232	93	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6108_LCS.D

Lab ID: LCS 280-659045/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	56.8	114	80-124	
1,1,1-Trichloroethane	50.0	57.6	115	80-123	
1,1,2,2-Tetrachloroethane	50.0	48.4	97	74-123	
1,1,2-Trichloroethane	50.0	51.9	104	80-120	
1,1-Dichloroethane	50.0	53.0	106	78-121	
1,1-Dichloroethene	50.0	51.0	102	77-121	
1,1-Dichloropropene	50.0	54.1	108	77-123	
1,2,3-Trichloropropane	50.0	45.4	91	80-120	
1,2-Dibromo-3-Chloropropane	50.0	44.9	90	73-128	
1,2-Dichlorobenzene	50.0	53.4	107	80-120	
1,2-Dichloroethane	50.0	58.4	117	71-121	
1,2-Dichloropropane	50.0	52.2	104	78-120	
1,3-Dichlorobenzene	50.0	51.7	103	80-120	
1,3-Dichloropropane	50.0	52.2	104	77-122	
1,4-Dichlorobenzene	50.0	52.3	105	80-120	
2,2-Dichloropropane	50.0	61.7	123	75-131	
2-Hexanone	200	207	103	62-137	
4-Methyl-2-pentanone (MIBK)	200	215	107	66-135	
Acetone	200	200	100	61-134	
Benzene	50.0	52.1	104	80-120	
Bromoform	50.0	55.6	111	79-138	
Bromomethane	50.0	48.5	97	29-148	
Carbon disulfide	50.0	51.8	104	70-121	
Carbon tetrachloride	50.0	59.3	119	79-127	
Chlorobenzene	50.0	52.7	105	80-120	
Chlorobromomethane	50.0	50.1	100	80-123	
Chlorodibromomethane	50.0	55.8	112	80-125	
Chloroethane	50.0	46.1	92	56-141	
Chloroform	50.0	55.5	111	80-120	
Chloromethane	50.0	47.6	95	56-133	
cis-1,2-Dichloroethene	50.0	52.3	105	80-120	
cis-1,3-Dichloropropene	50.0	55.6	111	76-129	
Dibromomethane	50.0	54.7	109	80-120	
Dichlorobromomethane	50.0	57.6	115	80-123	
Dichlorodifluoromethane	50.0	54.2	108	47-135	
Ethylbenzene	50.0	52.8	106	80-120	
Iodomethane	50.0	53.7	107	43-139	
Isobutyl alcohol	1250	1330	106	46-146	
Methylene Chloride	50.0	47.5	95	78-120	
m-Xylene & p-Xylene	50.0	54.8	110	80-120	
o-Xylene	50.0	54.6	109	80-120	
Styrene	50.0	56.0	112	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6108_LCS.D

Lab ID: LCS 280-659045/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	52.4	105	80-121	
Toluene	50.0	53.6	107	80-120	
trans-1,2-Dichloroethene	50.0	52.8	106	79-121	
trans-1,3-Dichloropropene	50.0	61.0	122	80-123	
Trichloroethene	50.0	51.9	104	80-120	
Trichlorofluoromethane	50.0	49.8	100	54-144	
Vinyl acetate	100	119	119	55-161	
Vinyl chloride	50.0	49.2	98	67-127	
Xylenes, Total	100	109	109	80-120	
2-Butanone (MEK)	200	201	100	58-135	
Acrolein	494	616	125	31-174	
Acrylonitrile	500	479	96	70-126	
1,2-Dibromoethane	50.0	53.6	107	80-120	
1,2,4-Trichlorobenzene	50.0	47.9	96	74-126	
Allyl chloride	50.0	54.1	108	65-132	
Ethyl methacrylate	50.0	53.7	107	80-122	
trans-1,4-Dichloro-2-butene	50.0	55.5	111	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6109.D

Lab ID: LCS 280-659045/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	25.2	101	47-146	
Acetonitrile	250	247	99	23-155	
Methacrylonitrile	250	269	108	42-142	
Methyl methacrylate	50.0	44.2	88	60-133	
Propionitrile	250	238	95	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86871.D

Lab ID: LCSD 280-658893/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	53.2	106	6	20	80-124	
1,1,1-Trichloroethane	50.0	49.5	99	6	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	48.3	97	0	20	74-123	
1,1,2-Trichloroethane	50.0	48.7	97	8	20	80-120	
1,1-Dichloroethane	50.0	48.7	97	6	20	78-121	
1,1-Dichloroethene	50.0	48.5	97	3	21	77-121	
1,1-Dichloropropene	50.0	49.0	98	4	20	77-123	
1,2,3-Trichloropropane	50.0	48.8	98	2	20	80-120	
1,2-Dibromo-3-Chloropropane	50.0	52.1	104	10	21	73-128	
1,2-Dichlorobenzene	50.0	48.8	98	6	20	80-120	
1,2-Dichloroethane	50.0	47.3	95	8	20	71-121	
1,2-Dichloropropane	50.0	48.3	97	7	20	78-120	
1,3-Dichlorobenzene	50.0	49.5	99	6	20	80-120	
1,3-Dichloropropane	50.0	50.1	100	4	20	77-122	
1,4-Dichlorobenzene	50.0	48.3	97	5	20	80-120	
2,2-Dichloropropane	50.0	45.7	91	1	22	75-131	
2-Hexanone	200	172	86	2	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	172	86	7	20	66-135	
Acetone	200	174	87	9	21	61-134	
Benzene	50.0	50.0	100	7	20	80-120	
Bromoform	50.0	56.7	113	11	20	79-138	
Bromomethane	50.0	76.8	154	18	40	29-148	*+
Carbon disulfide	50.0	50.2	100	5	20	70-121	
Carbon tetrachloride	50.0	52.0	104	3	20	79-127	
Chlorobenzene	50.0	48.7	97	7	20	80-120	
Chlorobromomethane	50.0	47.8	96	6	20	80-123	
Chlorodibromomethane	50.0	53.8	108	6	20	80-125	
Chloroethane	50.0	60.3	121	16	30	56-141	
Chloroform	50.0	47.9	96	6	20	80-120	
Chloromethane	50.0	60.4	121	14	20	56-133	
cis-1,2-Dichloroethene	50.0	49.1	98	7	20	80-120	
cis-1,3-Dichloropropene	50.0	48.4	97	3	20	76-129	
Dibromomethane	50.0	48.3	97	8	20	80-120	
Dichlorobromomethane	50.0	51.0	102	6	20	80-123	
Dichlorodifluoromethane	50.0	55.4	111	0	21	47-135	
Ethylbenzene	50.0	50.3	101	6	20	80-120	
Iodomethane	50.0	46.0	92	14	38	43-139	
Isobutyl alcohol	1250	1180	94	9	30	46-146	
Methylene Chloride	50.0	47.0	94	9	20	78-120	
m-Xylene & p-Xylene	50.0	48.6	97	6	20	80-120	
o-Xylene	50.0	49.9	100	10	20	80-120	
Styrene	50.0	51.4	103	10	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86871.D

Lab ID: LCSD 280-658893/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Tetrachloroethene	50.0	48.8	98	5	20	80-121	
Toluene	50.0	46.6	93	6	20	80-120	
trans-1,2-Dichloroethene	50.0	49.6	99	6	20	79-121	
trans-1,3-Dichloropropene	50.0	48.2	96	5	20	80-123	
Trichloroethene	50.0	48.6	97	4	20	80-120	
Trichlorofluoromethane	50.0	49.3	99	0	28	54-144	
Vinyl acetate	100	84.7	85	5	23	55-161	
Vinyl chloride	50.0	58.8	118	9	25	67-127	
Xylenes, Total	100	98.5	99	8	20	80-120	
2-Butanone (MEK)	200	162	81	8	20	58-135	
Acrolein	494	428	87	5	23	31-174	
Acrylonitrile	500	458	92	8	20	70-126	
1,2-Dibromoethane	50.0	49.1	98	9	20	80-120	
1,2,4-Trichlorobenzene	50.0	46.3	93	9	20	74-126	
Allyl chloride	50.0	44.3	89	4	20	65-132	
Ethyl methacrylate	50.0	51.8	104	2	20	80-122	
trans-1,4-Dichloro-2-butene	50.0	39.5	79	3	24	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86872.D

Lab ID: LCSD 280-658893/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroprene	25.0	25.1	100	4	20	47-146	
Acetonitrile	250	232	93	11	20	23-155	
Methacrylonitrile	250	218	87	2	20	42-142	
Methyl methacrylate	50.0	42.7	85	2	20	60-133	
Propionitrile	250	236	95	7	20	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6081.D

Lab ID: LCSD 280-658996/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	55.3	111	6	20	80-124	
1,1,1-Trichloroethane	50.0	55.1	110	8	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	47.2	94	3	20	74-123	
1,1,2-Trichloroethane	50.0	51.5	103	7	20	80-120	
1,1-Dichloroethane	50.0	50.5	101	5	20	78-121	
1,1-Dichloroethene	50.0	46.2	92	4	21	77-121	
1,1-Dichloropropene	50.0	51.0	102	8	20	77-123	
1,2,3-Trichloropropane	50.0	48.4	97	5	20	80-120	
1,2-Dibromo-3-Chloropropane	50.0	47.1	94	0	21	73-128	
1,2-Dichlorobenzene	50.0	56.0	112	8	20	80-120	
1,2-Dichloroethane	50.0	56.4	113	8	20	71-121	
1,2-Dichloropropane	50.0	50.4	101	7	20	78-120	
1,3-Dichlorobenzene	50.0	52.7	105	6	20	80-120	
1,3-Dichloropropane	50.0	50.4	101	3	20	77-122	
1,4-Dichlorobenzene	50.0	53.3	107	7	20	80-120	
2,2-Dichloropropane	50.0	50.1	100	6	22	75-131	
2-Hexanone	200	216	108	2	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	224	112	5	20	66-135	
Acetone	200	200	100	7	21	61-134	
Benzene	50.0	49.8	100	6	20	80-120	
Bromoform	50.0	55.4	111	5	20	79-138	
Bromomethane	50.0	53.9	108	11	40	29-148	
Carbon disulfide	50.0	46.4	93	4	20	70-121	
Carbon tetrachloride	50.0	55.9	112	6	20	79-127	
Chlorobenzene	50.0	51.7	103	5	20	80-120	
Chlorobromomethane	50.0	47.6	95	2	20	80-123	
Chlorodibromomethane	50.0	57.0	114	6	20	80-125	
Chloroethane	50.0	45.6	91	2	30	56-141	
Chloroform	50.0	52.9	106	8	20	80-120	
Chloromethane	50.0	44.5	89	2	20	56-133	
cis-1,2-Dichloroethene	50.0	49.4	99	6	20	80-120	
cis-1,3-Dichloropropene	50.0	54.0	108	6	20	76-129	
Dibromomethane	50.0	53.3	107	6	20	80-120	
Dichlorobromomethane	50.0	57.2	114	7	20	80-123	
Dichlorodifluoromethane	50.0	40.6	81	0	21	47-135	
Ethylbenzene	50.0	51.6	103	7	20	80-120	
Iodomethane	50.0	42.1	84	9	38	43-139	
Isobutyl alcohol	1250	1430	115	4	30	46-146	
Methylene Chloride	50.0	45.1	90	7	20	78-120	
m-Xylene & p-Xylene	50.0	51.8	104	5	20	80-120	
o-Xylene	50.0	54.3	109	5	20	80-120	
Styrene	50.0	55.4	111	6	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6081.D

Lab ID: LCSD 280-658996/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Tetrachloroethene	50.0	49.6	99	6	20	80-121	
Toluene	50.0	52.2	104	7	20	80-120	
trans-1,2-Dichloroethene	50.0	49.4	99	7	20	79-121	
trans-1,3-Dichloropropene	50.0	59.6	119	9	20	80-123	
Trichloroethene	50.0	53.7	107	10	20	80-120	
Trichlorofluoromethane	50.0	49.8	100	4	28	54-144	
Vinyl acetate	100	74.2	74	27	23	55-161	*1
Vinyl chloride	50.0	46.4	93	2	25	67-127	
Xylenes, Total	100	106	106	5	20	80-120	
2-Butanone (MEK)	200	201	100	6	20	58-135	
Acrolein	494	560	113	4	23	31-174	
Acrylonitrile	500	475	95	6	20	70-126	
1,2-Dibromoethane	50.0	52.0	104	6	20	80-120	
1,2,4-Trichlorobenzene	50.0	49.3	99	4	20	74-126	
Allyl chloride	50.0	50.5	101	6	20	65-132	
Ethyl methacrylate	50.0	54.4	109	4	20	80-122	
trans-1,4-Dichloro-2-butene	50.0	60.5	121	7	24	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6082.D

Lab ID: LCSD 280-658996/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroprene	25.0	27.1	108	6	20	47-146	
Acetonitrile	250	247	99	1	20	23-155	
Methacrylonitrile	250	274	110	3	20	42-142	
Methyl methacrylate	50.0	45.6	91	3	20	60-133	
Propionitrile	250	235	94	1	20	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6110.D

Lab ID: LCSD 280-659045/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	54.8	110	4	20	80-124	
1,1,1-Trichloroethane	50.0	56.3	113	2	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	48.4	97	0	20	74-123	
1,1,2-Trichloroethane	50.0	50.9	102	2	20	80-120	
1,1-Dichloroethane	50.0	52.5	105	1	20	78-121	
1,1-Dichloroethene	50.0	49.5	99	3	21	77-121	
1,1-Dichloropropene	50.0	53.9	108	0	20	77-123	
1,2,3-Trichloropropane	50.0	46.0	92	1	20	80-120	
1,2-Dibromo-3-Chloropropane	50.0	42.9	86	4	21	73-128	
1,2-Dichlorobenzene	50.0	53.6	107	0	20	80-120	
1,2-Dichloroethane	50.0	59.1	118	1	20	71-121	
1,2-Dichloropropane	50.0	50.1	100	4	20	78-120	
1,3-Dichlorobenzene	50.0	51.0	102	1	20	80-120	
1,3-Dichloropropane	50.0	51.4	103	2	20	77-122	
1,4-Dichlorobenzene	50.0	51.4	103	2	20	80-120	
2,2-Dichloropropane	50.0	60.7	121	2	22	75-131	
2-Hexanone	200	203	101	2	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	213	106	1	20	66-135	
Acetone	200	201	100	0	21	61-134	
Benzene	50.0	52.3	105	0	20	80-120	
Bromoform	50.0	55.1	110	1	20	79-138	
Bromomethane	50.0	58.9	118	19	40	29-148	
Carbon disulfide	50.0	50.5	101	3	20	70-121	
Carbon tetrachloride	50.0	58.8	118	1	20	79-127	
Chlorobenzene	50.0	51.5	103	2	20	80-120	
Chlorobromomethane	50.0	49.9	100	0	20	80-123	
Chlorodibromomethane	50.0	55.9	112	0	20	80-125	
Chloroethane	50.0	49.2	98	6	30	56-141	
Chloroform	50.0	53.9	108	3	20	80-120	
Chloromethane	50.0	51.0	102	7	20	56-133	
cis-1,2-Dichloroethene	50.0	51.4	103	2	20	80-120	
cis-1,3-Dichloropropene	50.0	55.3	111	1	20	76-129	
Dibromomethane	50.0	53.0	106	3	20	80-120	
Dichlorobromomethane	50.0	56.7	113	2	20	80-123	
Dichlorodifluoromethane	50.0	57.3	115	6	21	47-135	
Ethylbenzene	50.0	53.1	106	1	20	80-120	
Iodomethane	50.0	43.4	87	21	38	43-139	
Isobutyl alcohol	1250	1240	100	7	30	46-146	
Methylene Chloride	50.0	48.2	96	1	20	78-120	
m-Xylene & p-Xylene	50.0	53.6	107	2	20	80-120	
o-Xylene	50.0	53.1	106	3	20	80-120	
Styrene	50.0	55.1	110	2	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6110.D

Lab ID: LCSD 280-659045/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Tetrachloroethene	50.0	52.0	104	1	20	80-121	
Toluene	50.0	52.9	106	1	20	80-120	
trans-1,2-Dichloroethene	50.0	52.7	105	0	20	79-121	
trans-1,3-Dichloropropene	50.0	59.9	120	2	20	80-123	
Trichloroethene	50.0	52.7	105	2	20	80-120	
Trichlorofluoromethane	50.0	52.0	104	4	28	54-144	
Vinyl acetate	100	119	119	0	23	55-161	
Vinyl chloride	50.0	51.7	103	5	25	67-127	
Xylenes, Total	100	107	107	2	20	80-120	
2-Butanone (MEK)	200	197	99	2	20	58-135	
Acrolein	494	607	123	1	23	31-174	
Acrylonitrile	500	469	94	2	20	70-126	
1,2-Dibromoethane	50.0	51.7	103	4	20	80-120	
1,2,4-Trichlorobenzene	50.0	46.7	93	3	20	74-126	
Allyl chloride	50.0	52.9	106	2	20	65-132	
Ethyl methacrylate	50.0	53.2	106	1	20	80-122	
trans-1,4-Dichloro-2-butene	50.0	55.0	110	1	24	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MS1_6111.D

Lab ID: LCSD 280-659045/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroprene	25.0	26.3	105	4	20	47-146	
Acetonitrile	250	253	101	3	20	23-155	
Methacrylonitrile	250	278	111	3	20	42-142	
Methyl methacrylate	50.0	46.1	92	4	20	60-133	
Propionitrile	250	244	97	2	20	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86892.D

Lab ID: 280-193176-2 MS Client ID: RW-2213F-20240618 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	53.5	107	80-124	
1,1,1-Trichloroethane	50.0	ND	49.8	100	80-123	
1,1,2,2-Tetrachloroethane	50.0	ND	50.6	101	74-123	
1,1,2-Trichloroethane	50.0	ND	49.5	99	80-120	
1,1-Dichloroethane	50.0	ND	48.3	97	78-121	
1,1-Dichloroethene	50.0	ND	48.7	97	77-121	
1,1-Dichloropropene	50.0	ND	48.5	97	77-123	
1,2,3-Trichloropropane	50.0	ND	49.3	99	80-120	
1,2-Dibromo-3-Chloropropane	50.0	ND	51.8	104	73-128	
1,2-Dichlorobenzene	50.0	ND	49.4	99	80-120	
1,2-Dichloroethane	50.0	ND	47.0	94	71-121	
1,2-Dichloropropane	50.0	ND	47.1	94	78-120	
1,3-Dichlorobenzene	50.0	ND	48.8	98	80-120	
1,3-Dichloropropane	50.0	ND	50.0	100	77-122	
1,4-Dichlorobenzene	50.0	ND	48.2	96	80-120	
2,2-Dichloropropane	50.0	ND	41.9	84	75-131	
2-Hexanone	200	ND	167	83	62-137	
4-Methyl-2-pentanone (MIBK)	200	ND	164	82	66-135	
Acetone	200	ND	159	79	61-134	
Benzene	50.0	ND	49.7	99	80-120	
Bromoform	50.0	ND	57.0	114	79-138	
Bromomethane	50.0	ND	67.7	135	29-148	
Carbon disulfide	50.0	ND	49.5	99	70-121	
Carbon tetrachloride	50.0	ND	53.2	106	79-127	
Chlorobenzene	50.0	ND	49.2	98	80-120	
Chlorobromomethane	50.0	ND	49.1	98	80-123	
Chlorodibromomethane	50.0	ND	53.9	108	80-125	
Chloroethane	50.0	ND	62.9	126	56-141	
Chloroform	50.0	ND	48.9	98	80-120	
Chloromethane	50.0	ND	52.4	105	56-133	
cis-1,2-Dichloroethene	50.0	ND	50.6	101	80-120	
cis-1,3-Dichloropropene	50.0	ND	45.8	92	76-129	
Dibromomethane	50.0	ND	48.3	97	80-120	
Dichlorobromomethane	50.0	ND	50.6	101	80-123	
Dichlorodifluoromethane	50.0	ND	52.5	105	47-135	
Ethylbenzene	50.0	ND	50.2	100	80-120	
Iodomethane	50.0	ND	40.6	81	43-139	
Isobutyl alcohol	1250	ND	1120	90	46-146	
Methylene Chloride	50.0	ND	46.3	93	78-120	
m-Xylene & p-Xylene	50.0	ND	49.2	98	80-120	
o-Xylene	50.0	ND	50.7	101	80-120	
Styrene	50.0	ND	51.4	103	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86892.D

Lab ID: 280-193176-2 MS Client ID: RW-2213F-20240618 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	ND	49.6	99	80-121	
Toluene	50.0	ND	46.4	93	80-120	
trans-1,2-Dichloroethene	50.0	ND	49.9	100	79-121	
trans-1,3-Dichloropropene	50.0	ND	46.8	94	80-123	
Trichloroethene	50.0	ND	47.4	95	80-120	
Trichlorofluoromethane	50.0	ND	49.6	99	54-144	
Vinyl acetate	100	ND	95.4	95	55-161	
Vinyl chloride	50.0	ND	53.7	107	67-127	
Xylenes, Total	100	ND	99.9	100	80-120	
2-Butanone (MEK)	200	ND	153	77	58-135	
Acrolein	494	ND	430	87	31-174	
Acrylonitrile	500	ND	449	90	70-126	
1,2-Dibromoethane	50.0	ND	48.3	97	80-120	
1,2,4-Trichlorobenzene	50.0	ND	45.3	91	74-126	
Allyl chloride	50.0	ND	41.5	83	65-132	
Ethyl methacrylate	50.0	ND	50.3	101	80-122	
trans-1,4-Dichloro-2-butene	50.0	ND	38.2	76	51-138	

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.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86893.D

Lab ID: 280-193176-2 MSD Client ID: RW-2213F-20240618 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	53.6	107	0	20	80-124	
1,1,1-Trichloroethane	50.0	49.2	98	1	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	47.9	96	5	20	74-123	
1,1,2-Trichloroethane	50.0	48.0	96	3	20	80-120	
1,1-Dichloroethane	50.0	47.3	95	2	20	78-121	
1,1-Dichloroethene	50.0	47.9	96	2	21	77-121	
1,1-Dichloropropene	50.0	48.9	98	1	20	77-123	
1,2,3-Trichloropropane	50.0	48.1	96	2	20	80-120	
1,2-Dibromo-3-Chloropropane	50.0	51.1	102	1	21	73-128	
1,2-Dichlorobenzene	50.0	49.4	99	0	20	80-120	
1,2-Dichloroethane	50.0	45.9	92	2	20	71-121	
1,2-Dichloropropane	50.0	46.9	94	0	20	78-120	
1,3-Dichlorobenzene	50.0	49.1	98	1	20	80-120	
1,3-Dichloropropane	50.0	48.8	98	2	20	77-122	
1,4-Dichlorobenzene	50.0	47.7	95	1	20	80-120	
2,2-Dichloropropane	50.0	40.8	82	3	22	75-131	
2-Hexanone	200	158	79	6	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	155	78	6	20	66-135	
Acetone	200	156	78	2	21	61-134	
Benzene	50.0	49.2	98	1	20	80-120	
Bromoform	50.0	54.7	109	4	20	79-138	
Bromomethane	50.0	71.5	143	6	40	29-148	
Carbon disulfide	50.0	48.7	97	2	20	70-121	
Carbon tetrachloride	50.0	52.8	106	1	20	79-127	
Chlorobenzene	50.0	48.8	98	1	20	80-120	
Chlorobromomethane	50.0	48.6	97	1	20	80-123	
Chlorodibromomethane	50.0	53.3	107	1	20	80-125	
Chloroethane	50.0	69.0	138	9	30	56-141	
Chloroform	50.0	47.8	96	2	20	80-120	
Chloromethane	50.0	60.8	122	15	20	56-133	
cis-1,2-Dichloroethene	50.0	49.2	98	3	20	80-120	
cis-1,3-Dichloropropene	50.0	45.6	91	0	20	76-129	
Dibromomethane	50.0	46.9	94	3	20	80-120	
Dichlorobromomethane	50.0	50.0	100	1	20	80-123	
Dichlorodifluoromethane	50.0	55.1	110	5	21	47-135	
Ethylbenzene	50.0	50.4	101	0	20	80-120	
Iodomethane	50.0	49.2	98	19	38	43-139	
Isobutyl alcohol	1250	1050	84	7	30	46-146	
Methylene Chloride	50.0	46.1	92	0	20	78-120	
m-Xylene & p-Xylene	50.0	49.1	98	0	20	80-120	
o-Xylene	50.0	50.1	100	1	20	80-120	
Styrene	50.0	50.8	102	1	20	80-120	

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.: 280-193176-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P86893.D

Lab ID: 280-193176-2 MSD Client ID: RW-2213F-20240618 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Tetrachloroethene	50.0	49.1	98	1	20	80-121	
Toluene	50.0	45.6	91	2	20	80-120	
trans-1,2-Dichloroethene	50.0	49.2	98	2	20	79-121	
trans-1,3-Dichloropropene	50.0	46.0	92	2	20	80-123	
Trichloroethene	50.0	46.9	94	1	20	80-120	
Trichlorofluoromethane	50.0	47.5	95	4	28	54-144	
Vinyl acetate	100	92.9	93	3	23	55-161	
Vinyl chloride	50.0	59.1	118	10	25	67-127	
Xylenes, Total	100	99.2	99	1	20	80-120	
2-Butanone (MEK)	200	145	72	6	20	58-135	
Acrolein	494	401	81	7	23	31-174	
Acrylonitrile	500	423	85	6	20	70-126	
1,2-Dibromoethane	50.0	47.7	95	1	20	80-120	
1,2,4-Trichlorobenzene	50.0	46.1	92	2	20	74-126	
Allyl chloride	50.0	42.4	85	2	20	65-132	
Ethyl methacrylate	50.0	48.6	97	3	20	80-122	
trans-1,4-Dichloro-2-butene	50.0	36.7	73	4	24	51-138	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: P86874.D Lab Sample ID: MB 280-658893/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_P Date Analyzed: 07/01/2024 12:06

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 280-658893/4	P86869A.D	07/01/2024 10:24
	LCS 280-658893/6	P86870B.D	07/01/2024 10:44
	LCSD 280-658893/5	P86871.D	07/01/2024 11:05
	LCSD 280-658893/7	P86872.D	07/01/2024 11:25
RW-2237H-20240618	280-193176-1	P86876.D	07/01/2024 12:47
RW-2213F-20240618	280-193176-2	P86877.D	07/01/2024 13:08
RW-2172H-20240618	280-193176-3	P86878.D	07/01/2024 13:28
RW-8284P-20240618	280-193176-4	P86879.D	07/01/2024 13:49
RW-7677P-20240618	280-193176-5	P86880.D	07/01/2024 14:09
RW-2151H-20240618	280-193176-9	P86881.D	07/01/2024 14:29
RW-8048P-20240618	280-193176-10	P86882.D	07/01/2024 14:50
RW-8030P-20240618	280-193176-11	P86883.D	07/01/2024 15:10
RW-7505P-20240618	280-193176-12	P86884.D	07/01/2024 15:31
RW-7505P-Q-20240618	280-193176-13	P86885.D	07/01/2024 15:51
RW-2213F-20240618 MS	280-193176-2 MS	P86892.D	07/01/2024 18:19
RW-2213F-20240618 MSD	280-193176-2 MSD	P86893.D	07/01/2024 18:39

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_6085.D Lab Sample ID: MB 280-658996/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_MS1 Date Analyzed: 07/02/2024 00:29

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 280-658996/4	MS1_6079c.D	07/01/2024 22:22
	LCS 280-658996/5	MS1_6080c.D	07/01/2024 22:43
	LCSD 280-658996/6	MS1_6081.D	07/01/2024 23:04
	LCSD 280-658996/7	MS1_6082.D	07/01/2024 23:26
Muni-Well-14-20240619	280-193176-6	MS1_6098.D	07/02/2024 05:11
Muni-Well-33-20240619	280-193176-7	MS1_6099.D	07/02/2024 05:32
RW-2203H-20240619	280-193176-14	MS1_6100.D	07/02/2024 05:53
RW-2076F-20240619	280-193176-15	MS1_6101.D	07/02/2024 06:14

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_6118.D Lab Sample ID: MB 280-659045/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_MS1 Date Analyzed: 07/02/2024 12:50

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 280-659045/4	MS1_6108_LCS.D	07/02/2024 09:17
	LCS 280-659045/5	MS1_6109.D	07/02/2024 09:39
	LCSD 280-659045/6	MS1_6110.D	07/02/2024 10:00
	LCSD 280-659045/7	MS1_6111.D	07/02/2024 10:21
TB-01-20240620	280-193176-8	MS1_6116.D	07/02/2024 12:08

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_2271.D BFB Injection Date: 04/05/2024

Instrument ID: VMS_MS1 BFB Injection Time: 08:35

Analysis Batch No.: 648392

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	47.1	
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	79.8	
175	5.0 - 9.0 % of mass 174	6.1	(7.7) 1
176	95.0 - 101.0 % of mass 174	79.3	(99.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(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 280-648392/13	MS1_2279.D	04/05/2024	11:39
	IC 280-648392/14	MS1_2280.D	04/05/2024	12:01
	IC 280-648392/15	MS1_2281.D	04/05/2024	12:22
	IC 280-648392/16	MS1_2282.D	04/05/2024	12:43
	IC 280-648392/17	MS1_2283.D	04/05/2024	13:04
	IC 280-648392/18	MS1_2284.D	04/05/2024	13:26
	IC 280-648392/19	MS1_2285.D	04/05/2024	13:47
	IC 280-648392/20	MS1_2286.D	04/05/2024	14:08
	ICV 280-648392/21	MS1_2287.D	04/05/2024	14:30

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_5583.D BFB Injection Date: 06/19/2024

Instrument ID: VMS_MS1 BFB Injection Time: 20:16

Analysis Batch No.: 657652

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	47.7	
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	71.3	
175	5.0 - 9.0 % of mass 174	5.8	(8.2) 1
176	95.0 - 101.0 % of mass 174	69.6	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.8	(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
	IC 280-657652/13	MS1_5585.D	06/19/2024	20:59
	IC 280-657652/14	MS1_5586.D	06/19/2024	21:20
	IC 280-657652/15	MS1_5587.D	06/19/2024	21:41
	IC 280-657652/16	MS1_5564.D	06/19/2024	22:02
	IC 280-657652/17	MS1_5565.D	06/19/2024	22:24
	ICIS 280-657652/18	MS1_5566.D	06/19/2024	22:45
	IC 280-657652/19	MS1_5567.D	06/19/2024	23:06
	IC 280-657652/20	MS1_5568.D	06/19/2024	23:28
	IC 280-657652/21	MS1_5569.D	06/19/2024	23:49
	ICV 280-657652/22	MS1_5571.D	06/20/2024	0:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: BFB Injection Date:

Instrument ID: BFB Injection Time:

Lab File ID: DFTPP Injection Date:

Instrument ID: DFTPP Injection Time:

Analysis Batch No.:

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

NOTE: All ion abundances shall be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95. Criteria based on EPA method 524.4.

NOTE: All ion abundances MUST be normalized to m/z 198, the nominal base peak, even though the ion abundance of m/z 442 may exceed that of m/z 198.

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 280-658367/13	MS1_5856.D	06/26/2024	3:10
	IC 280-658367/14	MS1_5857.D	06/26/2024	3:32
	IC 280-658367/15	MS1_5858.D	06/26/2024	3:53
	IC 280-658367/16	MS1_5859.D	06/26/2024	4:14
	IC 280-658367/17	MS1_5860.D	06/26/2024	4:36
	IC 280-658367/18	MS1_5861.D	06/26/2024	4:57
	IC 280-658367/19	MS1_5862.D	06/26/2024	5:18
	IC 280-658367/20	MS1_5863.D	06/26/2024	5:40
	IC 280-658367/21	MS1_5864.D	06/26/2024	6:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_6079a.D BFB Injection Date: 07/01/2024

Instrument ID: VMS_MS1 BFB Injection Time: 22:22

Analysis Batch No.: 658996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.4	
75	30.0 - 60.0 % of mass 95	52.7	
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	71.7	
175	5.0 - 9.0 % of mass 174	6.0	(8.4) 1
176	95.0 - 101.0 % of mass 174	68.7	(95.8) 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
	CCV 280-658996/3	MS1_6079b.D	07/01/2024	22:22
	LCS 280-658996/4	MS1_6079c.D	07/01/2024	22:22
	CCV 280-658996/2	MS1_6080b.D	07/01/2024	22:43
	LCS 280-658996/5	MS1_6080c.D	07/01/2024	22:43
	LCSD 280-658996/6	MS1_6081.D	07/01/2024	23:04
	LCSD 280-658996/7	MS1_6082.D	07/01/2024	23:26
	MB 280-658996/9	MS1_6085.D	07/02/2024	0:29
Muni-Well-14-20240619	280-193176-6	MS1_6098.D	07/02/2024	5:11
Muni-Well-33-20240619	280-193176-7	MS1_6099.D	07/02/2024	5:32
RW-2203H-20240619	280-193176-14	MS1_6100.D	07/02/2024	5:53
RW-2076F-20240619	280-193176-15	MS1_6101.D	07/02/2024	6:14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: MS1_6106_bfb.D BFB Injection Date: 07/02/2024

Instrument ID: VMS_MS1 BFB Injection Time: 08:01

Analysis Batch No.: 659045

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	50.0	
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	74.0	
175	5.0 - 9.0 % of mass 174	6.5	(8.8) 1
176	95.0 - 101.0 % of mass 174	70.6	(95.4) 1
177	5.0 - 9.0 % of mass 176	4.4	(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 280-659045/2	MS1_6106_CCV	07/02/2024	8:01
	CCV 280-659045/3	MS1_6108.D	07/02/2024	9:17
	LCS 280-659045/4	MS1_6108_LCS.	07/02/2024	9:17
	LCS 280-659045/5	MS1_6109.D	07/02/2024	9:39
	LCSD 280-659045/6	MS1_6110.D	07/02/2024	10:00
	LCSD 280-659045/7	MS1_6111.D	07/02/2024	10:21
TB-01-20240620	280-193176-8	MS1_6116.D	07/02/2024	12:08
	MB 280-659045/9	MS1_6118.D	07/02/2024	12:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: BFB Injection Date:

Instrument ID: BFB Injection Time:

Lab File ID: DFTPP Injection Date:

Instrument ID: DFTPP Injection Time:

Analysis Batch No.:

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

NOTE: All ion abundances shall be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95. Criteria based on EPA method 524.4.

NOTE: All ion abundances MUST be normalized to m/z 198, the nominal base peak, even though the ion abundance of m/z 442 may exceed that of m/z 198.

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 280-658360/24	P86675.D	06/26/2024	11:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: P86599.D BFB Injection Date: 06/24/2024

Instrument ID: VMS_P BFB Injection Time: 14:05

Analysis Batch No.: 657950

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.5	
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	6.5	
173	Less than 2.0 % of mass 174	1.2	(1.3) 1
174	Greater than 50% of mass 95	87.6	
175	5.0 - 9.0 % of mass 174	6.7	(7.7) 1
176	95.0 - 101.0 % of mass 174	84.1	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.5	(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
	STD1 280-657950/14	P86600.D	06/24/2024	14:25
	STD05 280-657950/13	P86601.D	06/24/2024	14:46
	STD2 280-657950/15	P86602.D	06/24/2024	15:06
	STD5 280-657950/16	P86603.D	06/24/2024	15:27
	STD10 280-657950/17	P86604.D	06/24/2024	15:47
	ICIS 280-657950/18	P86605.D	06/24/2024	16:08
	STD75 280-657950/19	P86606.D	06/24/2024	16:28
	STD100 280-657950/20	P86607.D	06/24/2024	16:49
	STD200 280-657950/21	P86608.D	06/24/2024	17:10
	ICV 280-657950/23	P86610.D	06/24/2024	17:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: BFB Injection Date:

Instrument ID: BFB Injection Time:

Lab File ID: DFTPP Injection Date:

Instrument ID: DFTPP Injection Time:

Analysis Batch No.:

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

NOTE: All ion abundances shall be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95. Criteria based on EPA method 524.4.

NOTE: All ion abundances MUST be normalized to m/z 198, the nominal base peak, even though the ion abundance of m/z 442 may exceed that of m/z 198.

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 280-658360/13	P86662.D	06/25/2024	18:27
	IC 280-658360/14	P86663.D	06/25/2024	18:47
	IC 280-658360/15	P86664.D	06/25/2024	19:07
	IC 280-658360/16	P86665.D	06/25/2024	19:28
	IC 280-658360/17	P86666.D	06/25/2024	19:49
	IC 280-658360/18	P86667.D	06/25/2024	20:09
	IC 280-658360/19	P86668.D	06/25/2024	20:30
	IC 280-658360/20	P86669.D	06/25/2024	20:50
	IC 280-658360/21	P86670.D	06/25/2024	21:11

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: P86674_BFB.D BFB Injection Date: 06/26/2024

Instrument ID: VMS_P BFB Injection Time: 10:36

Analysis Batch No.: 658449

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	52.4	
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	1.5	(1.5) 1
174	Greater than 50% of mass 95	99.3	
175	5.0 - 9.0 % of mass 174	7.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	95.7	(96.3) 1
177	5.0 - 9.0 % of mass 176	6.1	(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 280-658449/13	P86680.D	06/26/2024	13:21
	STD2 280-658449/14	P86681.D	06/26/2024	13:41
	STD5 280-658449/15	P86682.D	06/26/2024	14:02
	STD10 280-658449/16	P86683.D	06/26/2024	14:22
	STD50 280-658449/17	P86684.D	06/26/2024	14:43
	STD75 280-658449/18	P86685.D	06/26/2024	15:03
	STD100 280-658449/19	P86686.D	06/26/2024	15:24
	STD200 280-658449/20	P86691.D	06/26/2024	19:03
	ICV 280-658449/21	P86693.D	06/26/2024	19:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab File ID: P86867.D BFB Injection Date: 07/01/2024

Instrument ID: VMS_P BFB Injection Time: 09:21

Analysis Batch No.: 658893

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.1	
75	30.0 - 60.0 % of mass 95	55.4	
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	1.4	(1.6) 1
174	Greater than 50% of mass 95	91.1	
175	5.0 - 9.0 % of mass 174	7.0	(7.7) 1
176	95.0 - 101.0 % of mass 174	88.0	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.7	(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
	CCV 280-658893/2	P86869.D	07/01/2024	10:24
	LCS 280-658893/4	P86869A.D	07/01/2024	10:24
	CCV 280-658893/3	P86870.D	07/01/2024	10:44
	LCS 280-658893/6	P86870B.D	07/01/2024	10:44
	LCSD 280-658893/5	P86871.D	07/01/2024	11:05
	LCSD 280-658893/7	P86872.D	07/01/2024	11:25
	MB 280-658893/9	P86874.D	07/01/2024	12:06
RW-2237H-20240618	280-193176-1	P86876.D	07/01/2024	12:47
RW-2213F-20240618	280-193176-2	P86877.D	07/01/2024	13:08
RW-2172H-20240618	280-193176-3	P86878.D	07/01/2024	13:28
RW-8284P-20240618	280-193176-4	P86879.D	07/01/2024	13:49
RW-7677P-20240618	280-193176-5	P86880.D	07/01/2024	14:09
RW-2151H-20240618	280-193176-9	P86881.D	07/01/2024	14:29
RW-8048P-20240618	280-193176-10	P86882.D	07/01/2024	14:50
RW-8030P-20240618	280-193176-11	P86883.D	07/01/2024	15:10
RW-7505P-20240618	280-193176-12	P86884.D	07/01/2024	15:31
RW-7505P-Q-20240618	280-193176-13	P86885.D	07/01/2024	15:51
RW-2213F-20240618 MS	280-193176-2 MS	P86892.D	07/01/2024	18:19
RW-2213F-20240618 MSD	280-193176-2 MSD	P86893.D	07/01/2024	18:39

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Sample No.: ICIS 280-657652/18 Date Analyzed: 06/19/2024 22:45

Instrument ID: VMS_MS1 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): MS1_5566.D Heated Purge: (Y/N) N

Calibration ID: 94690

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2272296	6.03	524805	8.77	803863	11.06
UPPER LIMIT		4544592	6.20	1049610	8.94	1607726	11.23
LOWER LIMIT		1136148	5.86	262403	8.60	401932	10.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-657652/22		2336529	6.03	542146	8.77	835305	11.06
ICV 280-658376/13		1874071	6.05	419448	8.77	669205	11.06
CCV 280-658996/3		2056383	6.03	473597	8.77	745170	11.06
LCS 280-658996/4		2056383	6.03	473597	8.77	745170	11.06
LCSD 280-658996/6		2041361	6.03	479176	8.77	749322	11.06
MB 280-658996/9		1877002	6.03	426602	8.77	656749	11.06
280-193176-6	Muni-Well-14-20240619	1845222	6.03	426213	8.77	651747	11.06
280-193176-7	Muni-Well-33-20240619	1836863	6.03	422794	8.77	645635	11.06
280-193176-14	RW-2203H-20240619	1826421	6.03	417825	8.77	665563	11.06
280-193176-15	RW-2076F-20240619	1882381	6.03	429707	8.77	672201	11.06
CCV 280-659045/2		1908876	6.03	433376	8.77	657108	11.06
CCV 280-659045/3		2055066	6.03	482097	8.77	784656	11.06
LCS 280-659045/4		2055066	6.03	482097	8.77	784656	11.06
LCS 280-659045/5		1983298	6.03	458427	8.77	700836	11.06
LCSD 280-659045/6		2011873	6.03	473712	8.77	755452	11.06
LCSD 280-659045/7		1977201	6.03	441170	8.77	678781	11.06
280-193176-8	TB-01-20240620	1808371	6.03	417942	8.77	646778	11.06
MB 280-659045/9		1849559	6.03	424018	8.77	641393	11.06

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 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.: 280-193176-1

SDG No.:

Sample No.: ICIS 280-657950/18 Date Analyzed: 06/24/2024 16:08

Instrument ID: VMS_P GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): P86605.D Heated Purge: (Y/N) N

Calibration ID: 94833

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1623913	4.93	398958	7.44	668067	9.67
UPPER LIMIT		3247826	5.09	797916	7.61	1336134	9.84
LOWER LIMIT		811957	4.76	199479	7.28	334034	9.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-657950/23		1248543	4.93	313287	7.44	540168	9.67
CCV 280-658893/2		1608491	4.93	378426	7.44	586226	9.67
LCS 280-658893/4		1608491	4.93	378426	7.44	586226	9.67
CCV 280-658893/3		1379275	4.93	324122	7.44	521880	9.67
LCS 280-658893/6		1379275	4.93	324122	7.44	521880	9.67
LCSD 280-658893/5		1452621	4.93	353363	7.44	599045	9.67
LCSD 280-658893/7		1417682	4.93	318133	7.44	511999	9.67
MB 280-658893/9		1376679	4.93	317867	7.44	522192	9.67
280-193176-1	RW-2237H-20240618	1333512	4.93	309818	7.44	493451	9.67
280-193176-2	RW-2213F-20240618	1347479	4.92	308298	7.44	505896	9.67
280-193176-3	RW-2172H-20240618	1309936	4.93	304593	7.44	497941	9.67
280-193176-4	RW-8284P-20240618	1263521	4.93	296876	7.44	484523	9.67
280-193176-5	RW-7677P-20240618	1251408	4.93	291734	7.44	475532	9.67
280-193176-9	RW-2151H-20240618	1226302	4.93	288303	7.44	473801	9.67
280-193176-10	RW-8048P-20240618	1220359	4.93	283891	7.44	470426	9.67
280-193176-11	RW-8030P-20240618	1228994	4.93	286807	7.44	473699	9.67
280-193176-12	RW-7505P-20240618	1240887	4.93	288037	7.44	483313	9.67
280-193176-13	RW-7505P-Q-20240618	1245053	4.93	289455	7.44	476104	9.67
280-193176-2 MS	RW-2213F-20240618 MS	1331647	4.93	320928	7.44	551460	9.67
280-193176-2 MSD	RW-2213F-20240618 MSD	1344902	4.93	324402	7.44	555802	9.67

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2237H-20240618 | Lab Sample ID: 280-193176-1

Matrix: Water | Lab File ID: P86876.D

Analysis Method: 8260D | Date Collected: 06/18/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:47

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	0.70	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2237H-20240618 | Lab Sample ID: 280-193176-1

Matrix: Water | Lab File ID: P86876.D

Analysis Method: 8260D | Date Collected: 06/18/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:47

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	2.1		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		1.0	0.14
79-01-6	Trichloroethene	11		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2237H-20240618 | Lab Sample ID: 280-193176-1

Matrix: Water | Lab File ID: P86876.D

Analysis Method: 8260D | Date Collected: 06/18/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:47

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		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)	96		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D
Lims ID: 280-193176-B-1
Client ID: RW-2237H-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 12:47:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-b-1
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1333512	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	309818	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	493451	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	340373	48.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	336338	50.8	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1303214	51.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	393548	51.9	
$ 8 BFB	95	8.539	8.539	0.000	92	393548	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.081	4.076	0.005	78	5876	0.7024	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	96	78034	10.9	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	11713	2.12	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		0.7024	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1		0.000				ND	7
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		0.7024	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

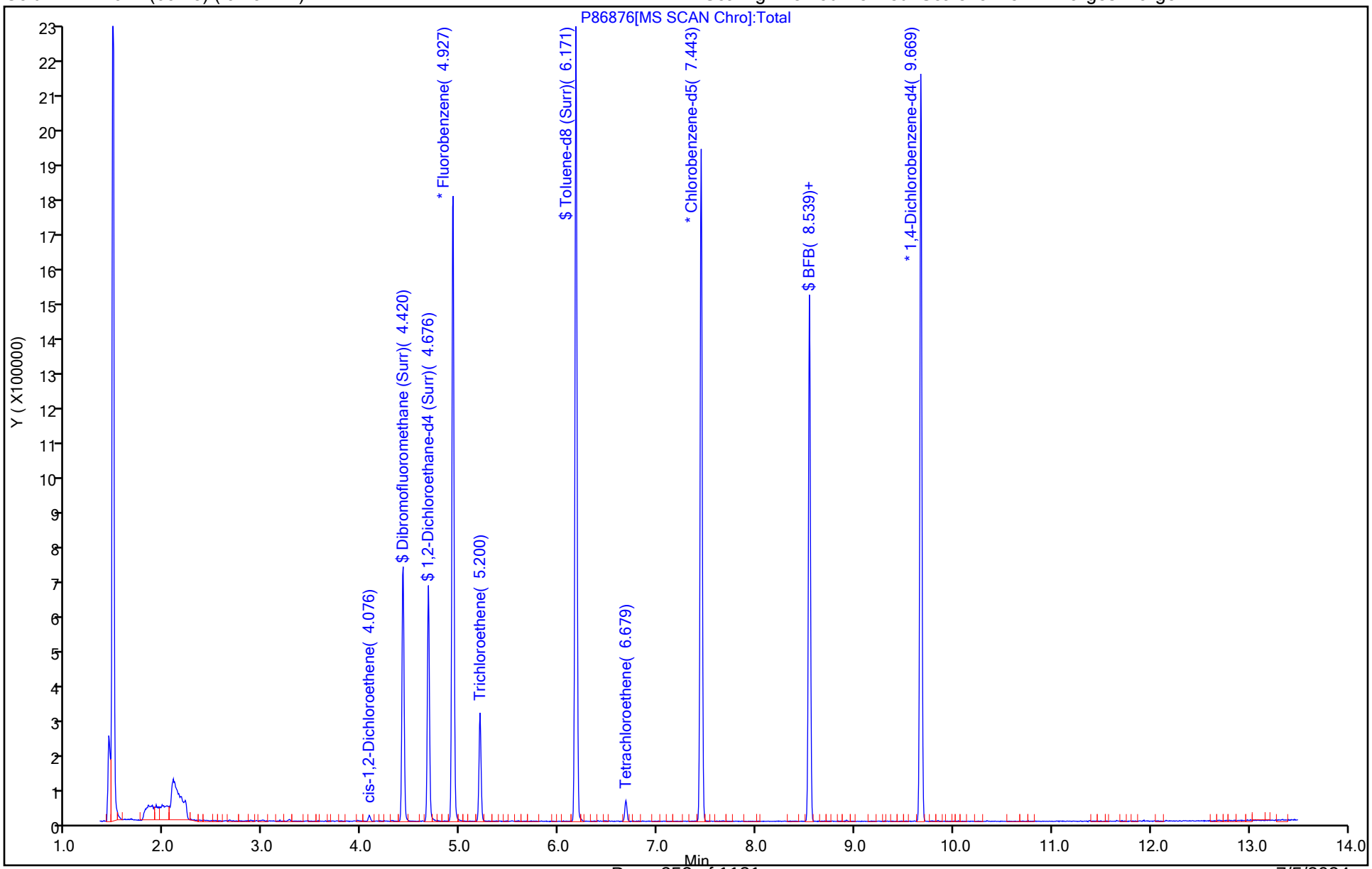
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:18 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D				
Injection Date:	01-Jul-2024 12:47:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-B-1	Lab Sample ID:	280-193176-1	Worklist Smp#:	14
Client ID:	RW-2237H-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D				
Lims ID:	280-193176-B-1				
Client ID:	RW-2237H-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 12:47:30	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-b-1				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

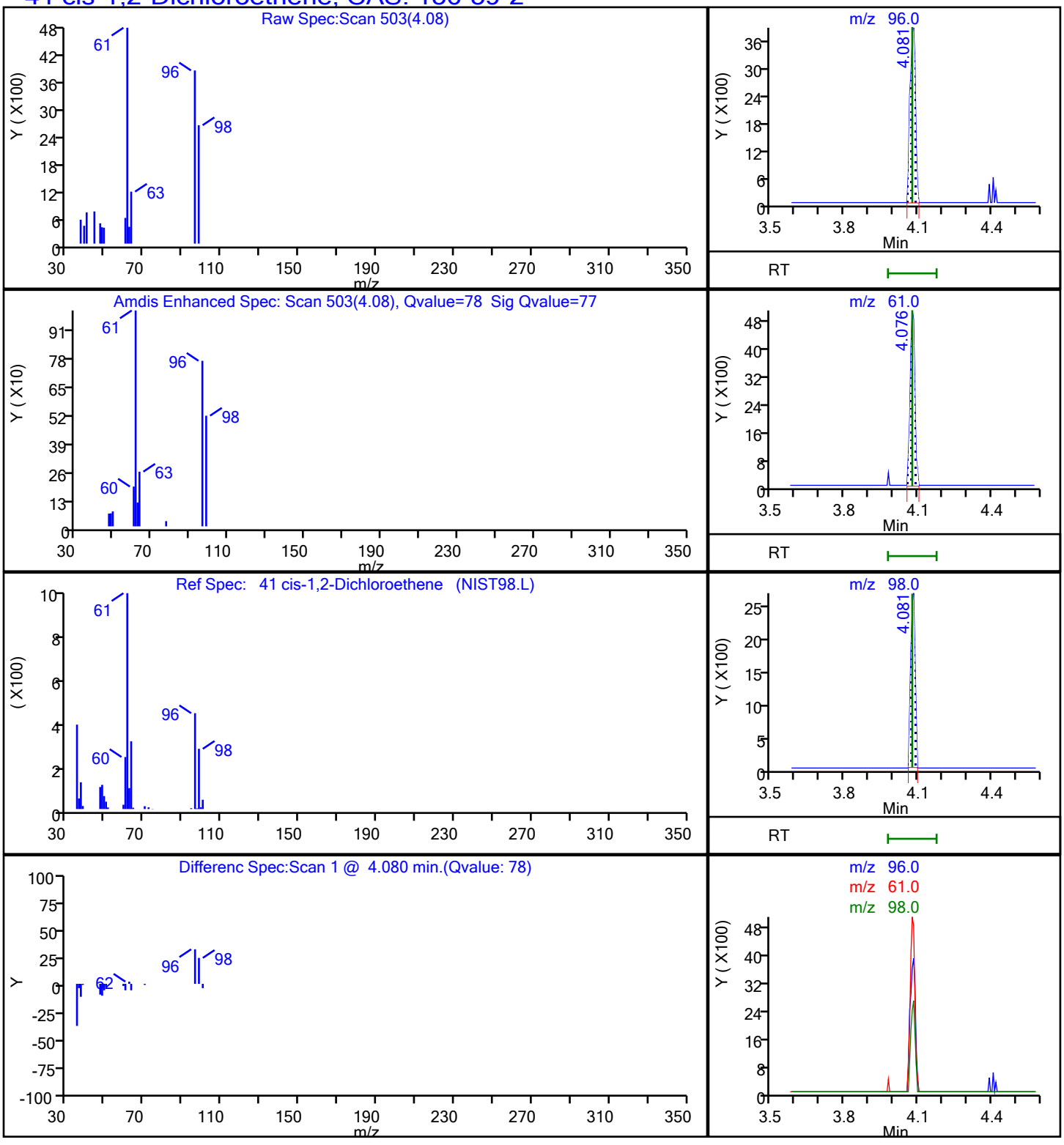
First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.1	96.18
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.67
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.70
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.9	103.86

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D				
Injection Date:	01-Jul-2024 12:47:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-B-1	Lab Sample ID:	280-193176-1		
Client ID:	RW-2237H-20240618				
Operator ID:	COULTER	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

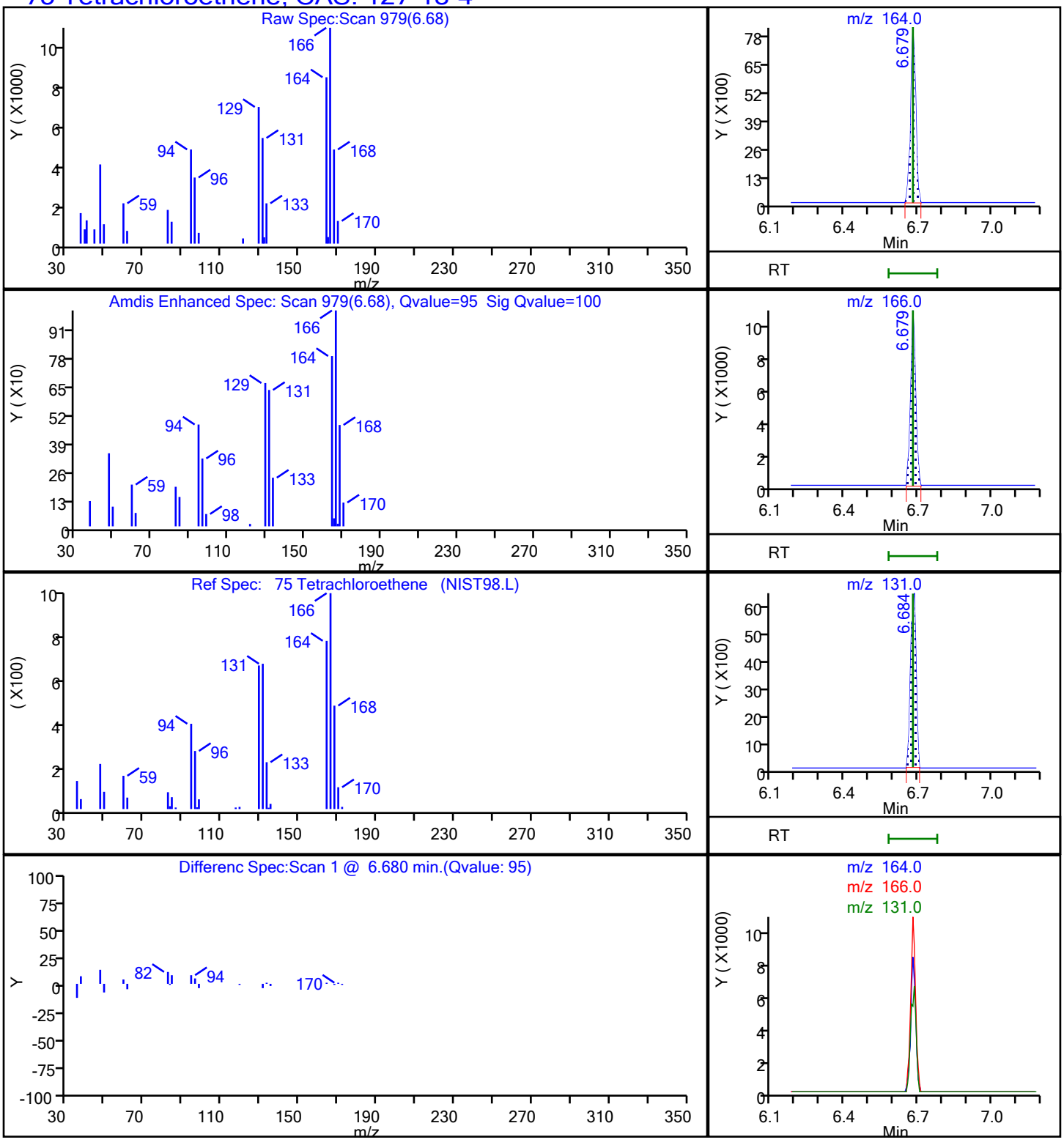
41 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D		
Injection Date:	01-Jul-2024 12:47:30	Instrument ID:	VMS_P
Lims ID:	280-193176-B-1	Lab Sample ID:	280-193176-1
Client ID:	RW-2237H-20240618		
Operator ID:	COULTER	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

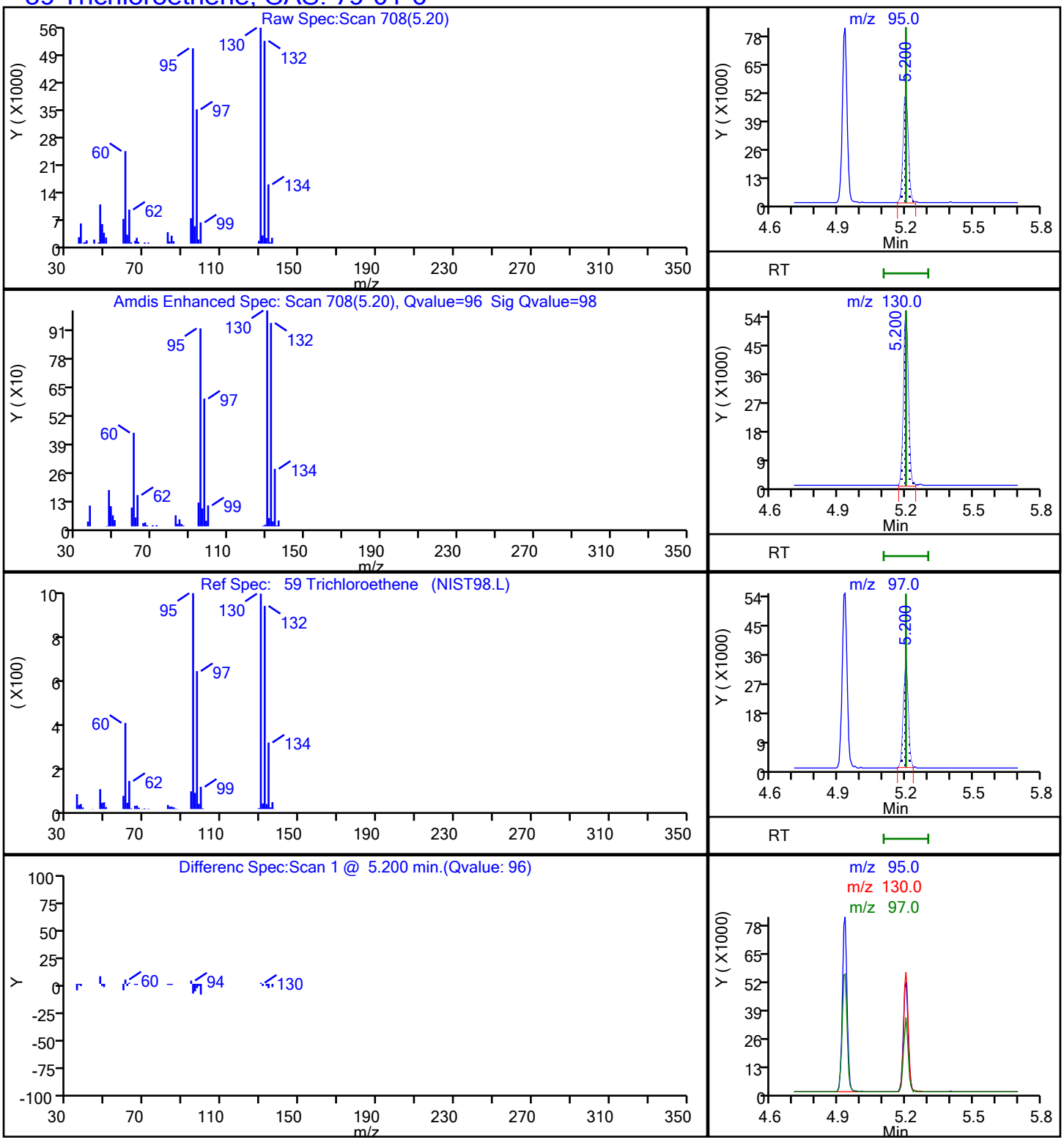
75 Tetrachloroethene, CAS: 127-18-4



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D		
Injection Date:	01-Jul-2024 12:47:30	Instrument ID:	VMS_P
Lims ID:	280-193176-B-1	Lab Sample ID:	280-193176-1
Client ID:	RW-2237H-20240618		
Operator ID:	COULTER	ALS Bottle#:	8 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

59 Trichloroethene, CAS: 79-01-6



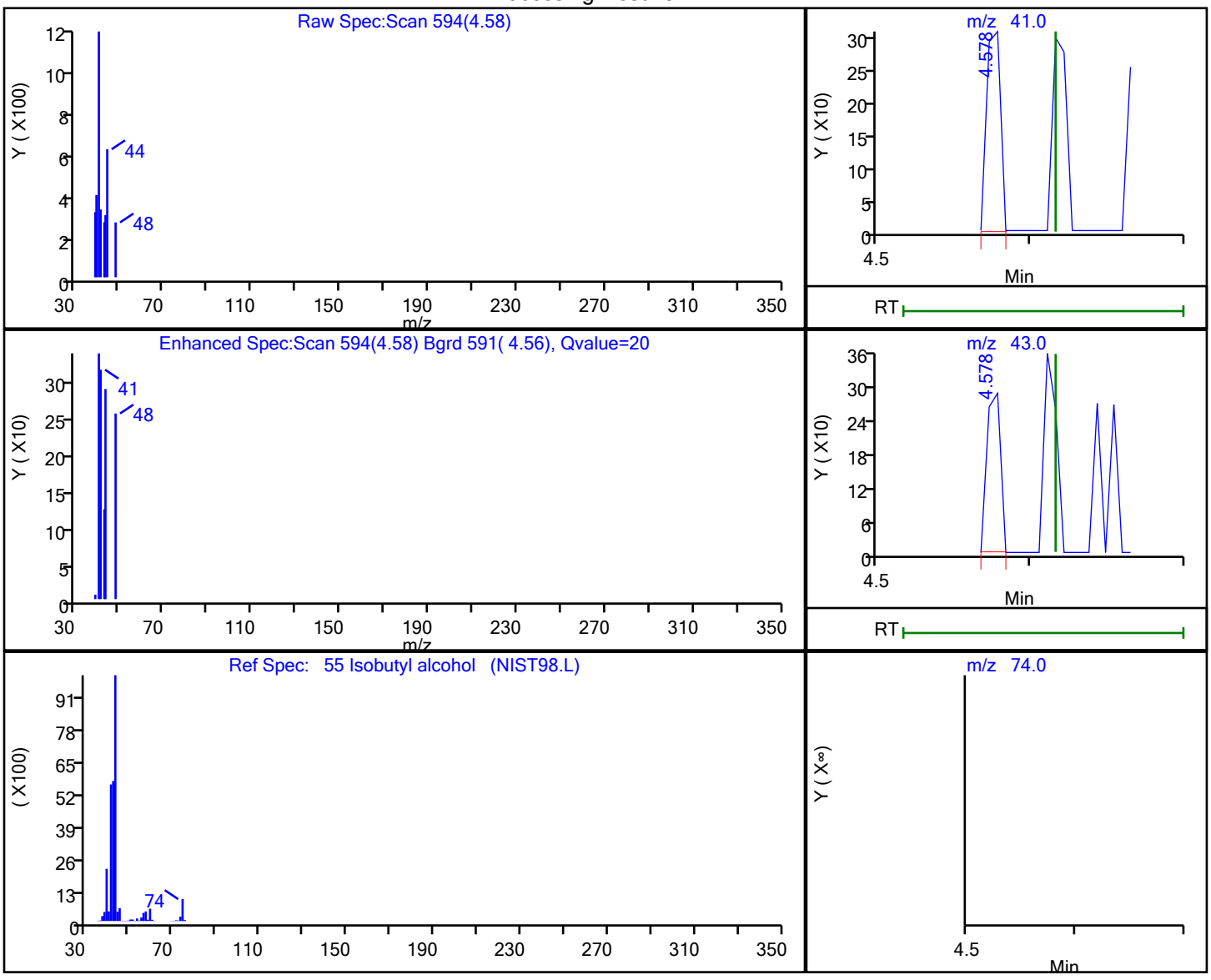
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86876.D				
Injection Date:	01-Jul-2024 12:47:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-B-1	Lab Sample ID:	280-193176-1		
Client ID:	RW-2237H-20240618				
Operator ID:	COULTER	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.58	41.00	197	1.072917
4.58	43.00	177	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:39:08 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 | Lab Sample ID: 280-193176-2

Matrix: Water | Lab File ID: P86877.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:08

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 | Lab Sample ID: 280-193176-2

Matrix: Water | Lab File ID: P86877.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:08

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 | Lab Sample ID: 280-193176-2

Matrix: Water | Lab File ID: P86877.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:08

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	105		80-125
1868-53-7	Dibromofluoromethane (Surr)	97		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86877.D
Lims ID: 280-193176-B-2
Client ID: RW-2213F-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 13:08:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-b-2
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.922	4.927	-0.005	100	1347479	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.000	85	308298	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	505896	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	345484	48.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	337901	50.5	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	94	1310484	52.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	94	392164	50.5	
$ 8 BFB	95	8.539	8.539	0.000	93	392164	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	7
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96		4.076				ND	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95		5.200				ND	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164		6.679				ND	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026			ND		
86 Styrene	104		8.043			ND		
87 Bromoform	173		8.217			ND		
88 Isopropylbenzene	105		8.370			ND		
89 cis-1,4-Dichloro-2-butene	53		8.408			ND		
90 Cyclohexanone	55		8.485			ND		U
92 1,1,2,2-Tetrachloroethane	83		8.648			ND		
93 trans-1,4-Dichloro-2-butene	53		8.687			ND		
94 Bromobenzene	156		8.687			ND		
95 1,2,3-Trichloropropane	110		8.708			ND		
96 N-Propylbenzene	120		8.768			ND		
97 2-Chlorotoluene	126		8.867			ND		
98 1,3,5-Trimethylbenzene	105		8.943			ND		
99 4-Chlorotoluene	126		8.981			ND		
100 tert-Butylbenzene	119		9.254			ND		
91 Pentachloroethane	167		9.298			ND		
101 1,2,4-Trimethylbenzene	105		9.309			ND		
102 sec-Butylbenzene	134		9.472			ND		
103 1,3-Dichlorobenzene	146		9.598			ND		
104 4-Isopropyltoluene	119		9.620			ND		
105 1,4-Dichlorobenzene	146		9.696			ND		
106 1,2,3-Trimethylbenzene	105		9.718			ND		
107 n-Butylbenzene	91		10.023			ND		
108 1,2-Dichlorobenzene	146		10.056			ND		
109 1,2-Dibromo-3-Chloropropane	157		10.825			ND		
110 1,3,5-Trichlorobenzene	180		11.022			ND		
111 1,2,4-Trichlorobenzene	180		11.660			ND		
112 Hexachlorobutadiene	225		11.813			ND		
113 Naphthalene	128		11.928			ND		
114 1,2,3-Trichlorobenzene	180		12.151			ND		
115 Ethylene oxide TIC	1		0.000			ND		
116 Tetrahydrothiophene TIC	1		0.000			ND		
117 Propene oxide TIC	58		3.357			ND		
S 118 1,2-Dichloroethene, Total (URS)	96		2.000			ND		7
S 119 Xylenes, Total (URS)	1		0.000			ND		7
S 120 Trihalomethanes, Total	1		0.000			ND		7
S 121 TAH	1				0		0	7
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 Total BTEX	1		0.000			ND		7
T 126 Propene TIC	41		1.481			ND		U
T 127 1,3-Butadiene TIC	54		1.807			ND		U
T 128 4-Ethyltoluene TIC	105		8.783			ND		
T 129 Dichloroacetonitrile TIC	66		9.596			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

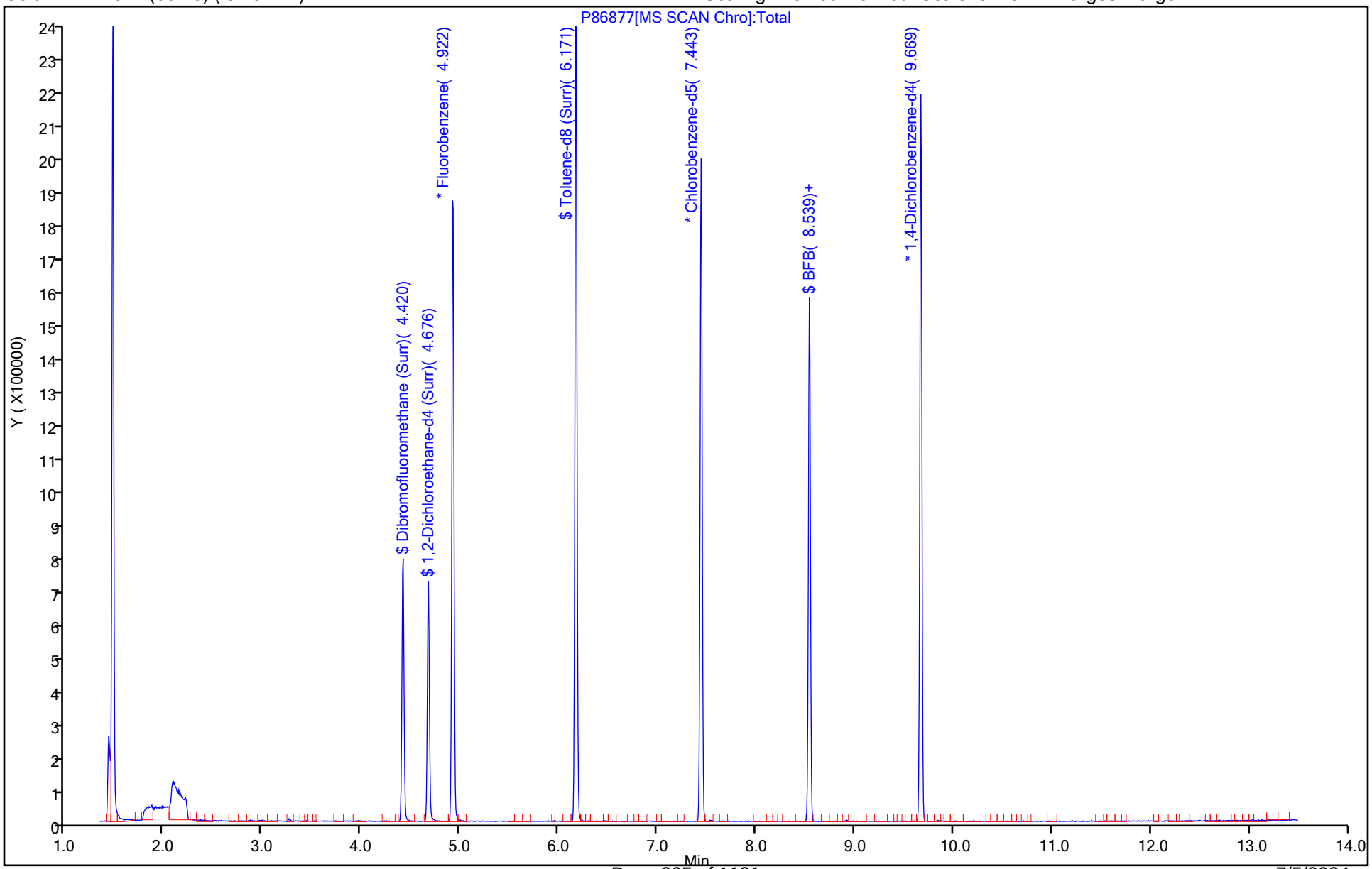
Report Date: 01-Jul-2024 21:50:20 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86877.D

Injection Date:	01-Jul-2024 13:08:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-B-2	Lab Sample ID:	280-193176-2	Worklist Smp#:	15
Client ID:	RW-2213F-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86877.D				
Lims ID:	280-193176-B-2				
Client ID:	RW-2213F-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 13:08:30	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-b-2				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.3	96.61
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	101.08
$ 6 Toluene-d8 (Surr)	50.0	52.4	104.80
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	100.95

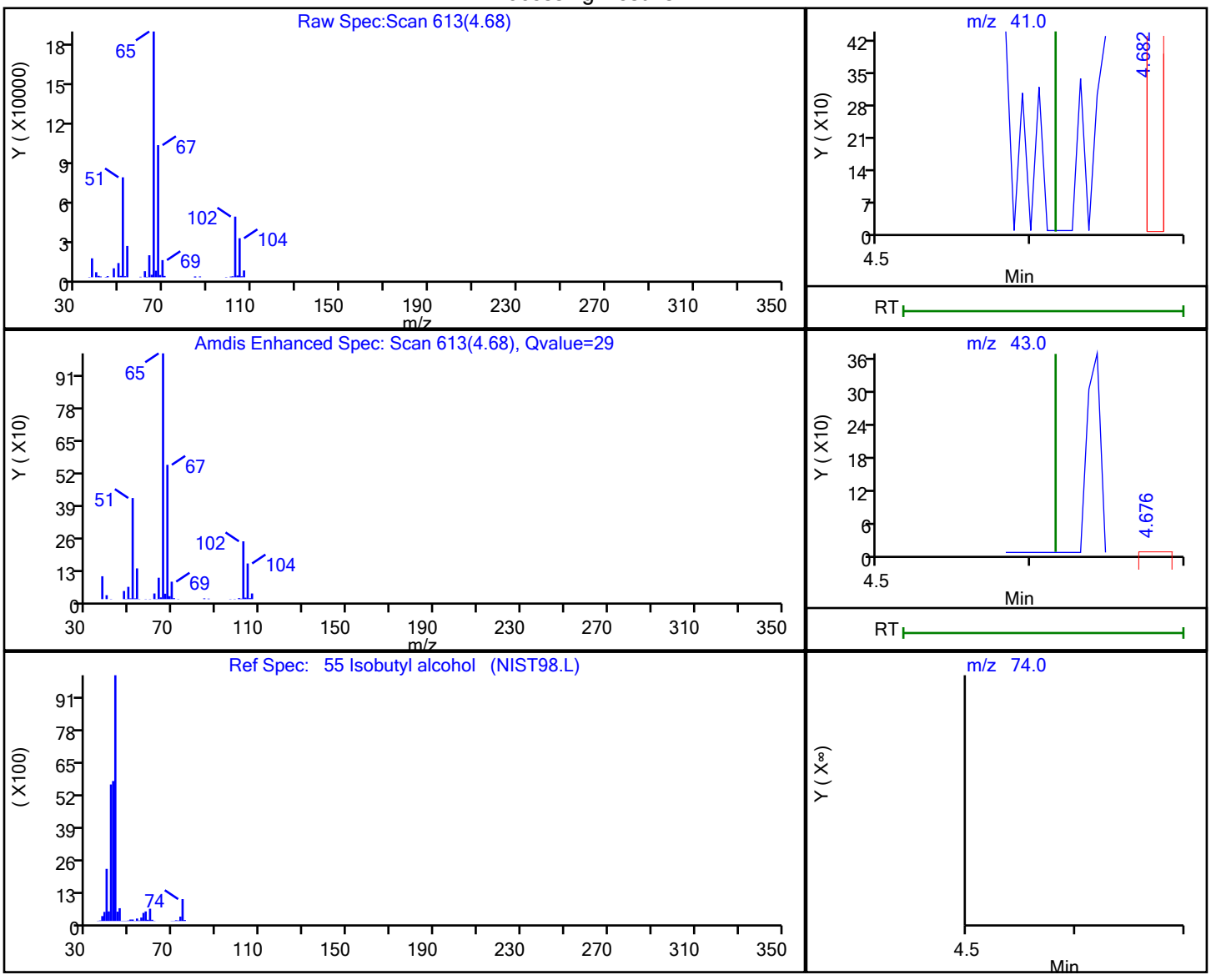
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86877.D				
Injection Date:	01-Jul-2024 13:08:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-B-2	Lab Sample ID:	280-193176-2		
Client ID:	RW-2213F-20240618				
Operator ID:	COULTER	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	298	1.606169
4.68	43.00	188	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:39:22 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-2172H-20240618 | Lab Sample ID: 280-193176-3

Matrix: Water | Lab File ID: P86878.D

Analysis Method: 8260D | Date Collected: 06/18/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:28

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2172H-20240618 | Lab Sample ID: 280-193176-3

Matrix: Water | Lab File ID: P86878.D

Analysis Method: 8260D | Date Collected: 06/18/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:28

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	3.0		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		1.0	0.14
79-01-6	Trichloroethene	18		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2172H-20240618 | Lab Sample ID: 280-193176-3

Matrix: Water | Lab File ID: P86878.D

Analysis Method: 8260D | Date Collected: 06/18/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:28

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.: 658893 | 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)	102		78-120
2037-26-5	Toluene-d8 (Surr)	105		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D
Lims ID: 280-193176-A-3
Client ID: RW-2172H-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 13:28:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-3
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1309936	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	304593	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	497941	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	346453	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	338809	52.1	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1295374	52.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	389732	51.0	
$ 8 BFB	95	8.539	8.539	0.000	92	389732	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	7
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59	2.663	2.657	0.006	84	1896	0.3584	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	77	9492	1.16	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83	4.305	4.305	0.000	85	2989	0.2325	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	98	124334	17.6	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.678	6.679	-0.001	92	16420	3.03	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		1.16	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1				0		0.2325	
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		1.16	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

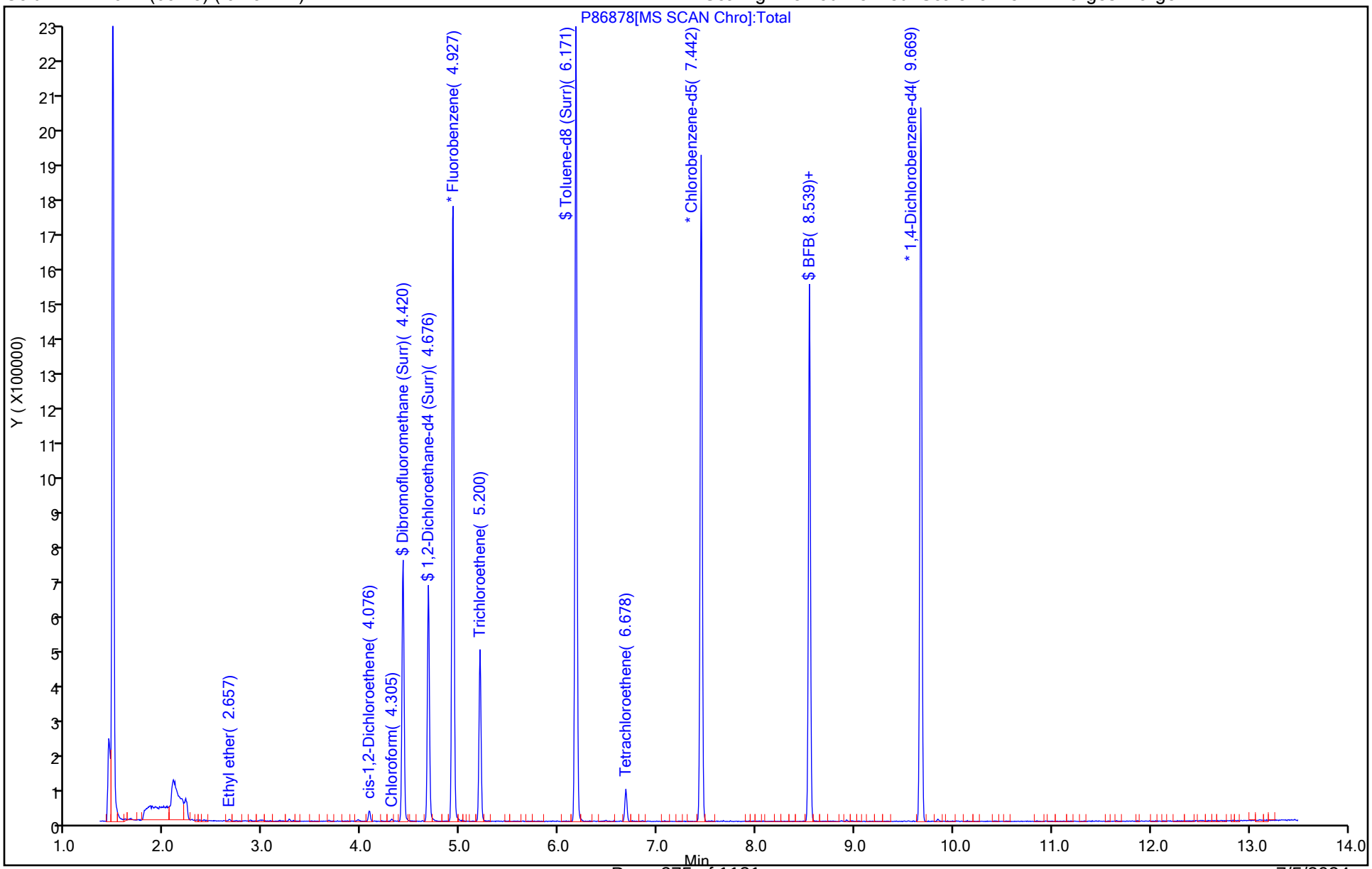
Report Date: 01-Jul-2024 21:50:21 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D

Injection Date:	01-Jul-2024 13:28:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-3	Lab Sample ID:	280-193176-3	Worklist Smp#:	16
Client ID:	RW-2172H-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D				
Lims ID:	280-193176-A-3				
Client ID:	RW-2172H-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 13:28:30	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-3				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

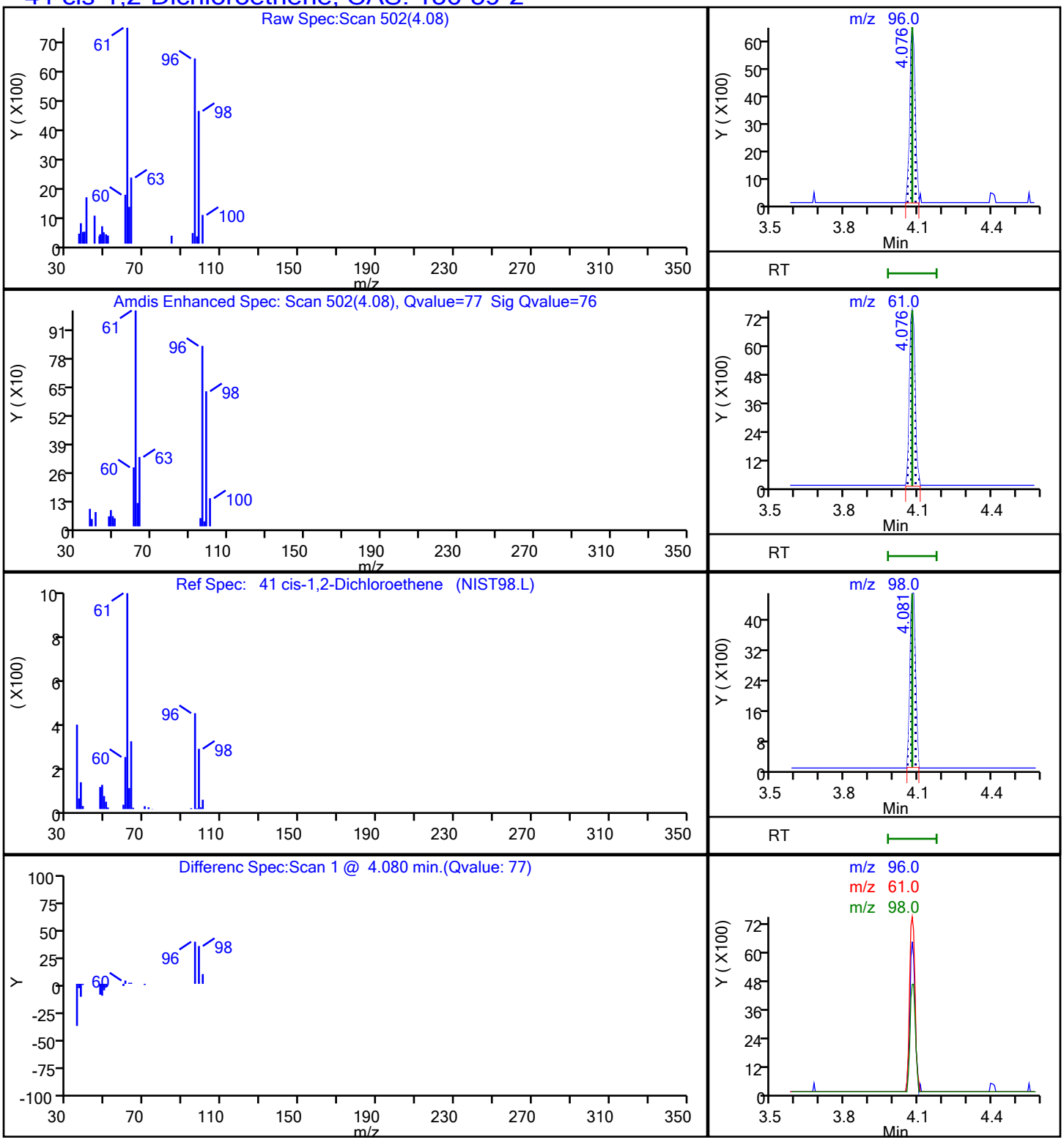
First Level Reviewer: V8PV Date: 01-Jul-2024 21:39:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.8	99.66
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.26
$ 6 Toluene-d8 (Surr)	50.0	52.4	104.85
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.0	101.93

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D		
Injection Date:	01-Jul-2024 13:28:30	Instrument ID:	VMS_P
Lims ID:	280-193176-A-3	Lab Sample ID:	280-193176-3
Client ID:	RW-2172H-20240618		
Operator ID:	COULTER	ALS Bottle#:	10 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

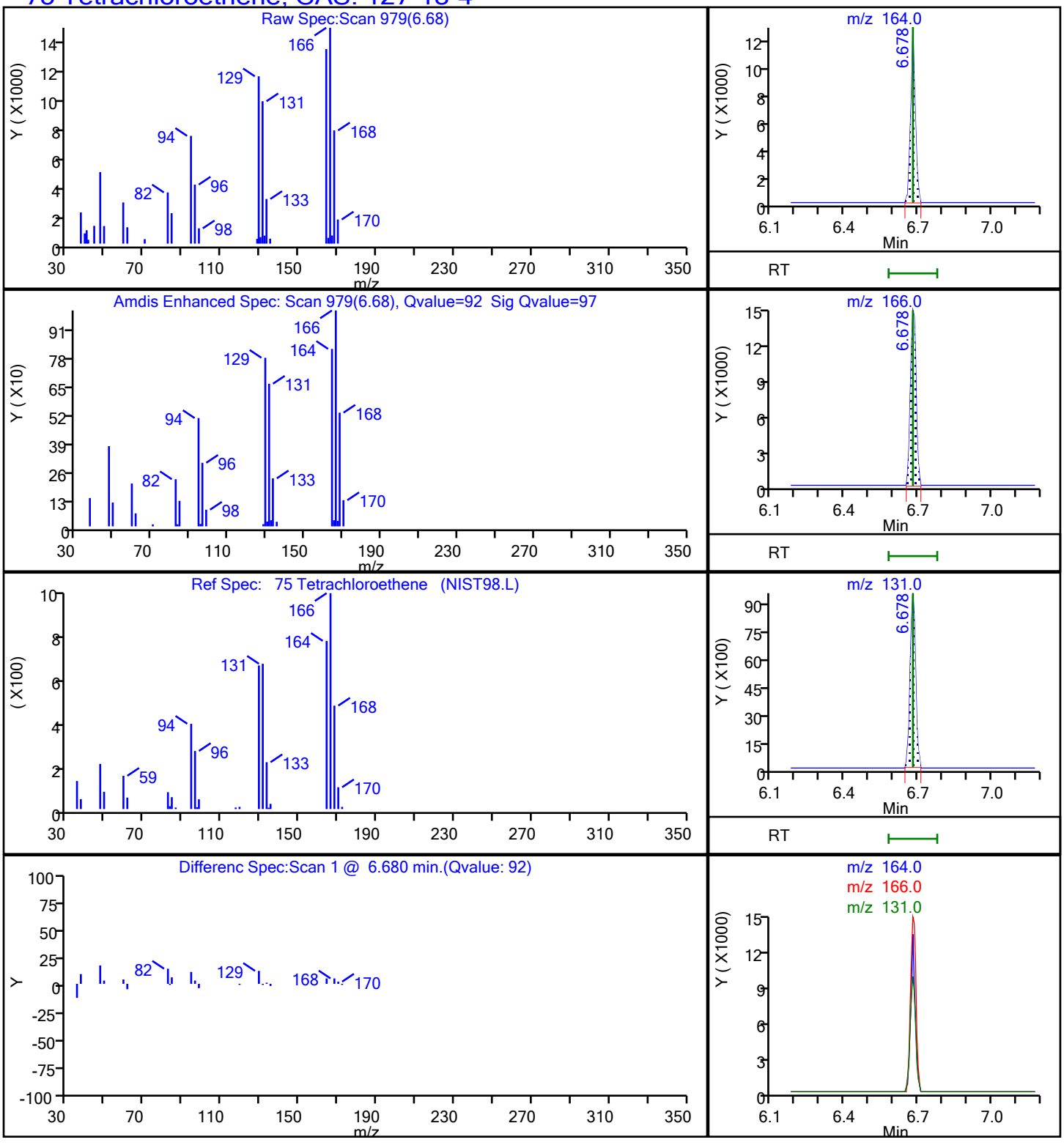
41 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D		
Injection Date:	01-Jul-2024 13:28:30	Instrument ID:	VMS_P
Lims ID:	280-193176-A-3	Lab Sample ID:	280-193176-3
Client ID:	RW-2172H-20240618		
Operator ID:	COULTER	ALS Bottle#:	10 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

75 Tetrachloroethene, CAS: 127-18-4



Report Date: 01-Jul-2024 21:50:22 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D

Injection Date: 01-Jul-2024 13:28:30 Instrument ID: VMS_P

Lims ID: 280-193176-A-3 Lab Sample ID: 280-193176-3

Client ID: RW-2172H-20240618

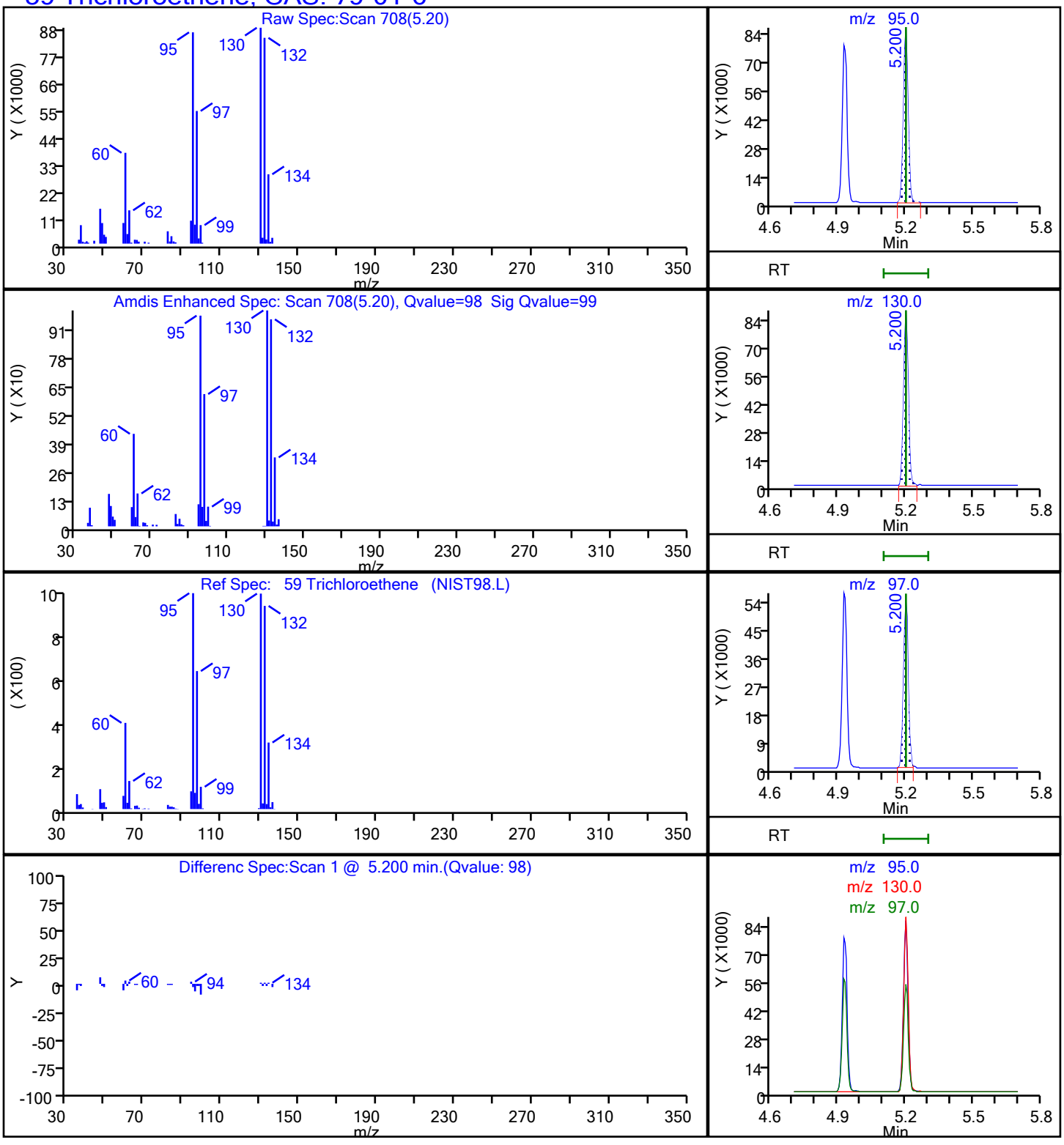
Operator ID: COULTER ALS Bottle#: 10 Worklist Smp#: 16

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

59 Trichloroethene, CAS: 79-01-6



7/5/2024
11:14:22 AM

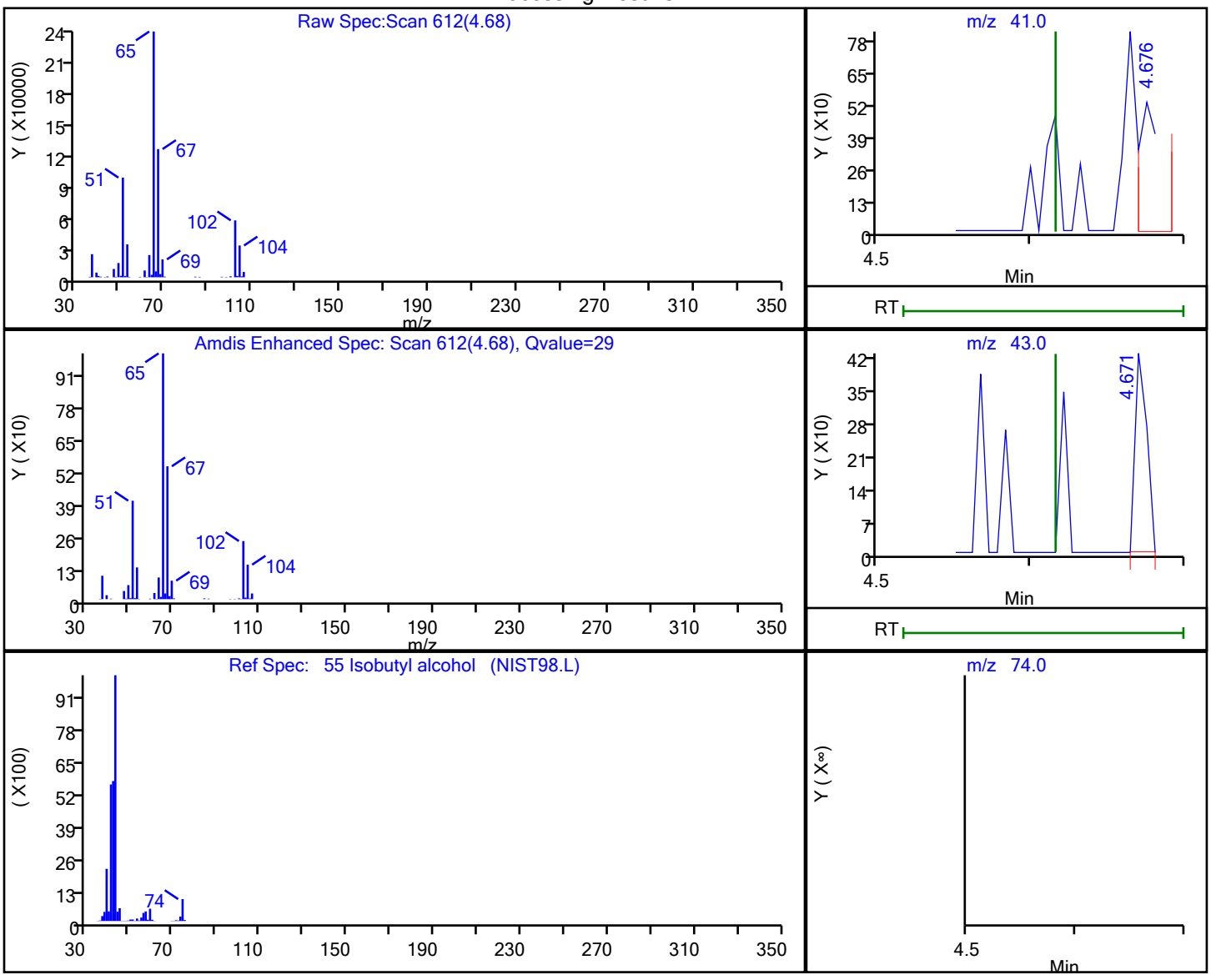
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86878.D				
Injection Date:	01-Jul-2024 13:28:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-3	Lab Sample ID:	280-193176-3		
Client ID:	RW-2172H-20240618				
Operator ID:	COULTER	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	525	2.910758
4.67	43.00	227	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:39:50 -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: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8284P-20240618 | Lab Sample ID: 280-193176-4

Matrix: Water | Lab File ID: P86879.D

Analysis Method: 8260D | Date Collected: 06/18/2024 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:49

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8284P-20240618 | Lab Sample ID: 280-193176-4

Matrix: Water | Lab File ID: P86879.D

Analysis Method: 8260D | Date Collected: 06/18/2024 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:49

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	0.64	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		1.0	0.14
79-01-6	Trichloroethene	2.8		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8284P-20240618 | Lab Sample ID: 280-193176-4

Matrix: Water | Lab File ID: P86879.D

Analysis Method: 8260D | Date Collected: 06/18/2024 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 13:49

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		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)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D
Lims ID: 280-193176-A-4
Client ID: RW-8284P-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 13:49:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-4
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:40:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1263521	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	296876	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	484523	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	329887	49.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	323310	51.6	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1245371	51.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	382199	51.4	
$ 8 BFB	95	8.539	8.539	0.000	92	382199	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	79	1393	0.1757	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	96	19033	2.76	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.679	6.679	0.000	82	3385	0.6407	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		0.1757	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1		0.000				ND	7
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		0.1757	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

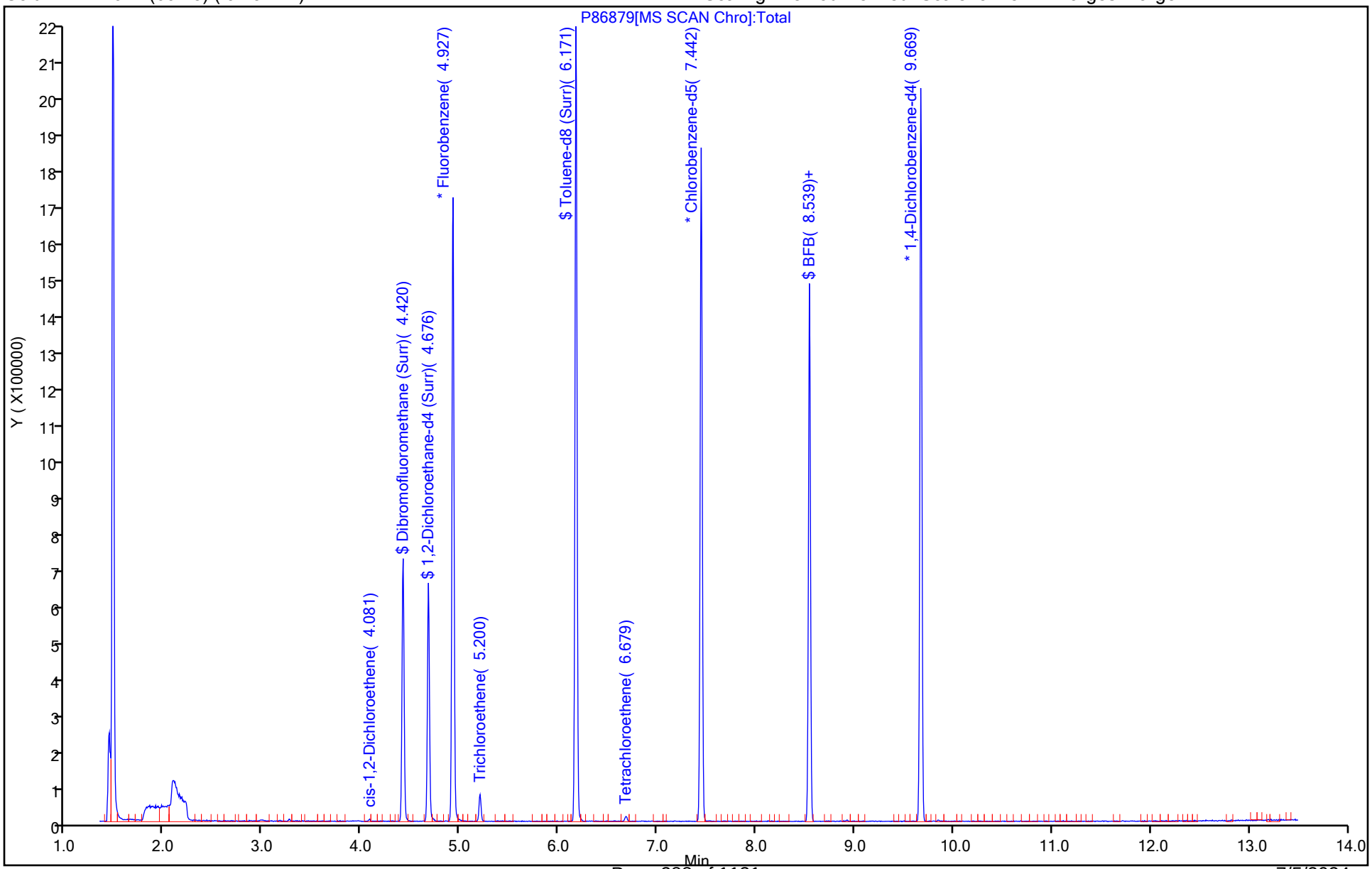
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:23 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D				
Injection Date:	01-Jul-2024 13:49:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-4	Lab Sample ID:	280-193176-4	Worklist Smp#:	17
Client ID:	RW-8284P-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D				
Lims ID:	280-193176-A-4				
Client ID:	RW-8284P-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 13:49:30	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-4				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

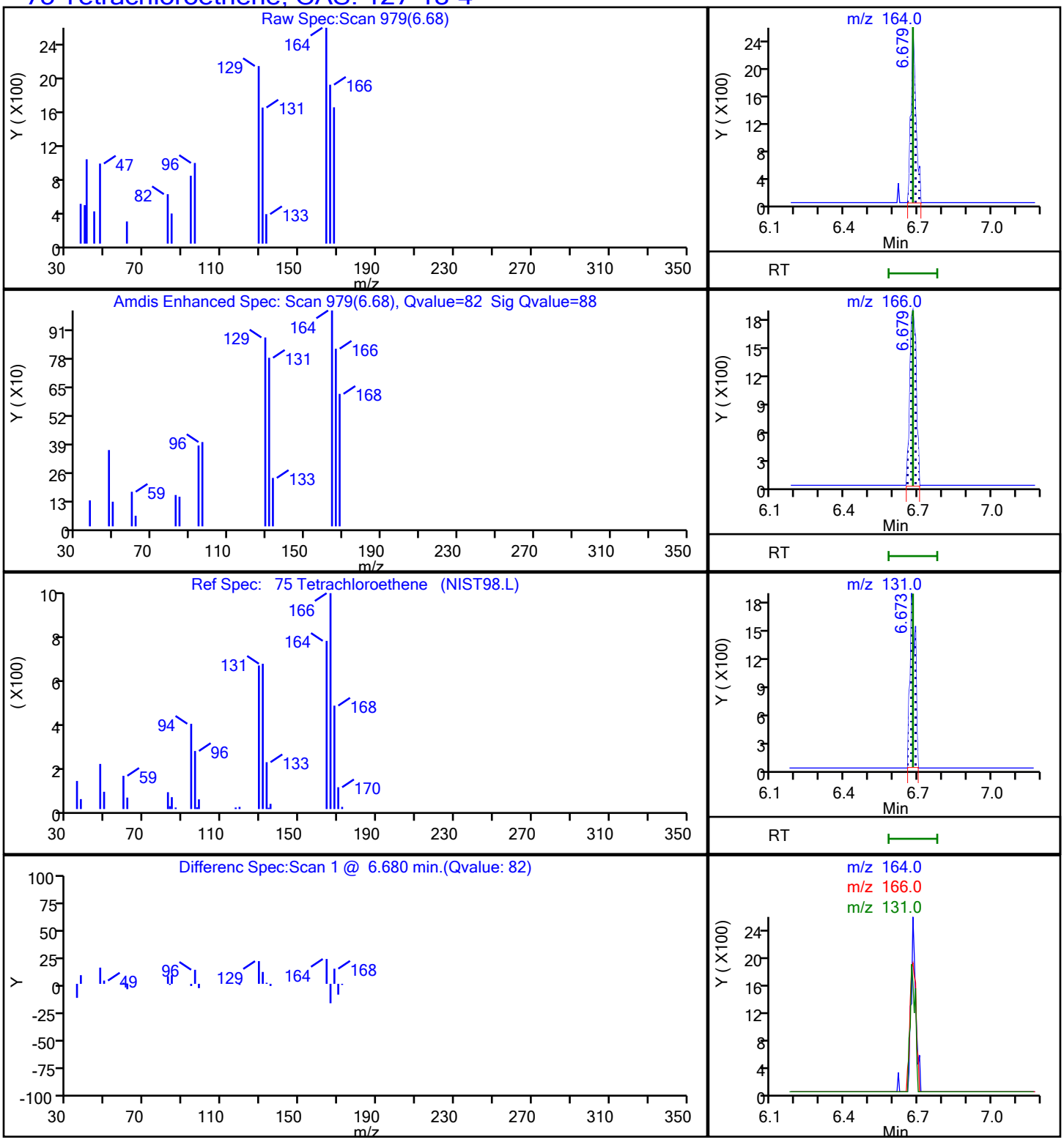
First Level Reviewer: V8PV Date: 01-Jul-2024 21:40:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.2	98.38
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.14
$ 6 Toluene-d8 (Surr)	50.0	51.7	103.42
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.72

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D
Injection Date: 01-Jul-2024 13:49:30 Instrument ID: VMS_P
Lims ID: 280-193176-A-4 Lab Sample ID: 280-193176-4
Client ID: RW-8284P-20240618
Operator ID: COULTER ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

75 Tetrachloroethene, CAS: 127-18-4

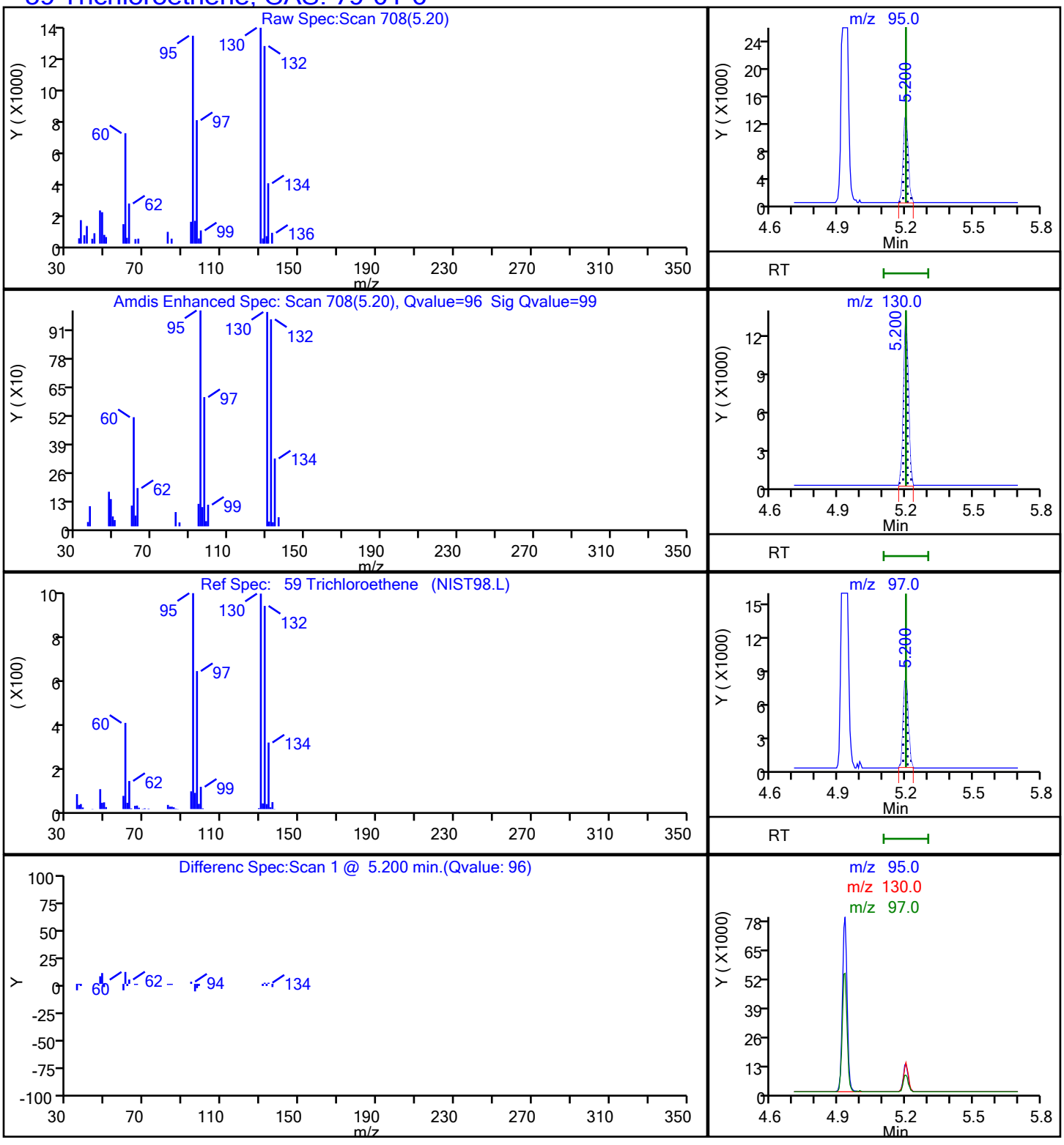


Report Date: 01-Jul-2024 21:50:23 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D				
Injection Date:	01-Jul-2024 13:49:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-4	Lab Sample ID:	280-193176-4		
Client ID:	RW-8284P-20240618				
Operator ID:	COULTER	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



7/5/2024
11:14:22 AM

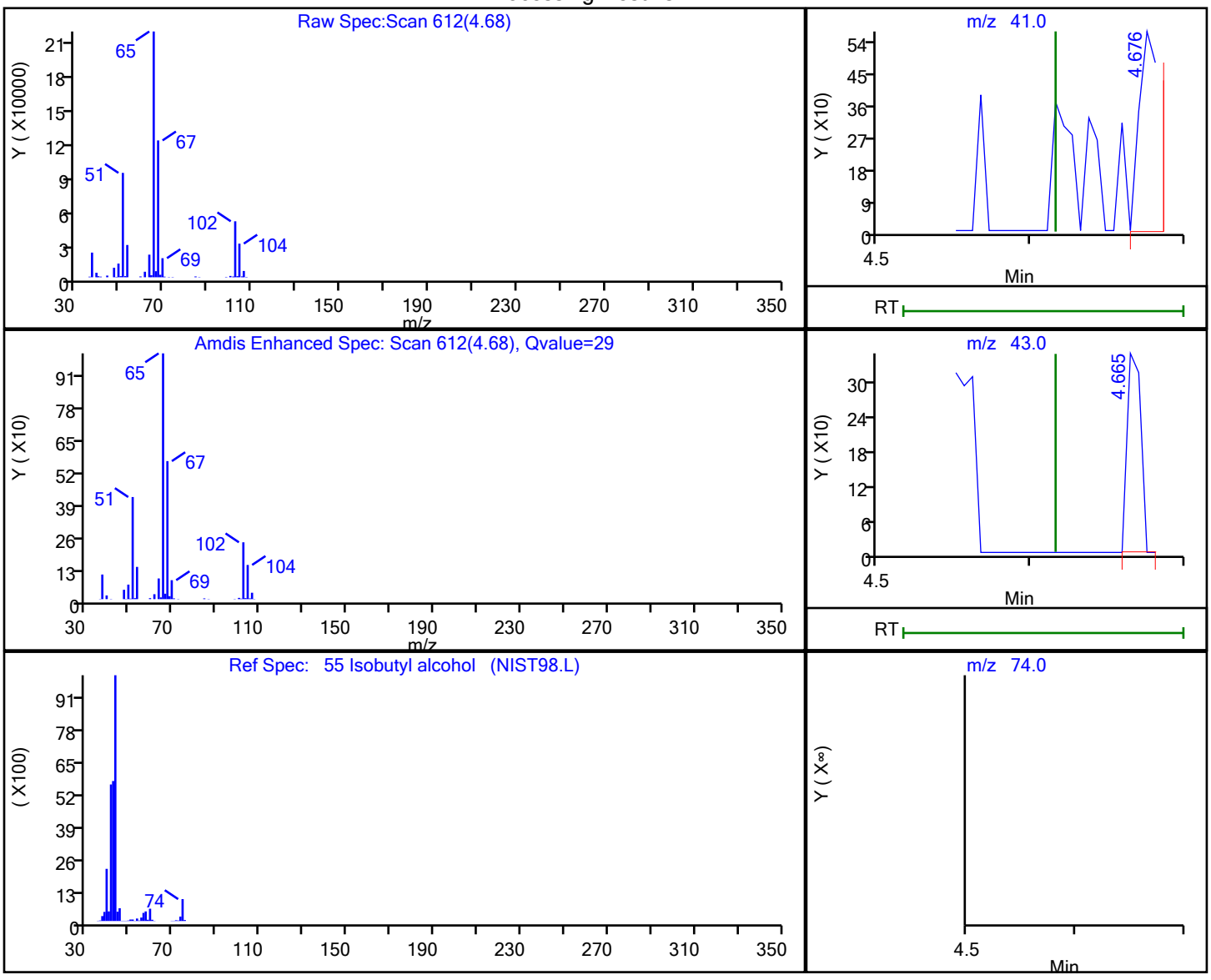
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86879.D				
Injection Date:	01-Jul-2024 13:49:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-4	Lab Sample ID:	280-193176-4		
Client ID:	RW-8284P-20240618				
Operator ID:	COULTER	ALS Bottle#:	11	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	450	2.586586
4.67	43.00	218	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:40:13 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-7677P-20240618 | Lab Sample ID: 280-193176-5

Matrix: Water | Lab File ID: P86880.D

Analysis Method: 8260D | Date Collected: 06/18/2024 18:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:09

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	0.32	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7677P-20240618 | Lab Sample ID: 280-193176-5

Matrix: Water | Lab File ID: P86880.D

Analysis Method: 8260D | Date Collected: 06/18/2024 18:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:09

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	1.4		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		1.0	0.14
79-01-6	Trichloroethene	5.9		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7677P-20240618 | Lab Sample ID: 280-193176-5

Matrix: Water | Lab File ID: P86880.D

Analysis Method: 8260D | Date Collected: 06/18/2024 18:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:09

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	97		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D
Lims ID: 280-193176-A-5
Client ID: RW-7677P-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 14:09:30 ALS Bottle#: 12 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-5
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:40:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1251408	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	291734	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	475532	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	322031	48.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	308087	49.6	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1222671	51.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	372721	51.0	
$ 8 BFB	95	8.539	8.539	0.000	92	372721	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	77	2499	0.3183	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	97	39842	5.88	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.679	6.679	0.000	91	7266	1.40	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		0.3183	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1		0.000				ND	7
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		0.3183	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

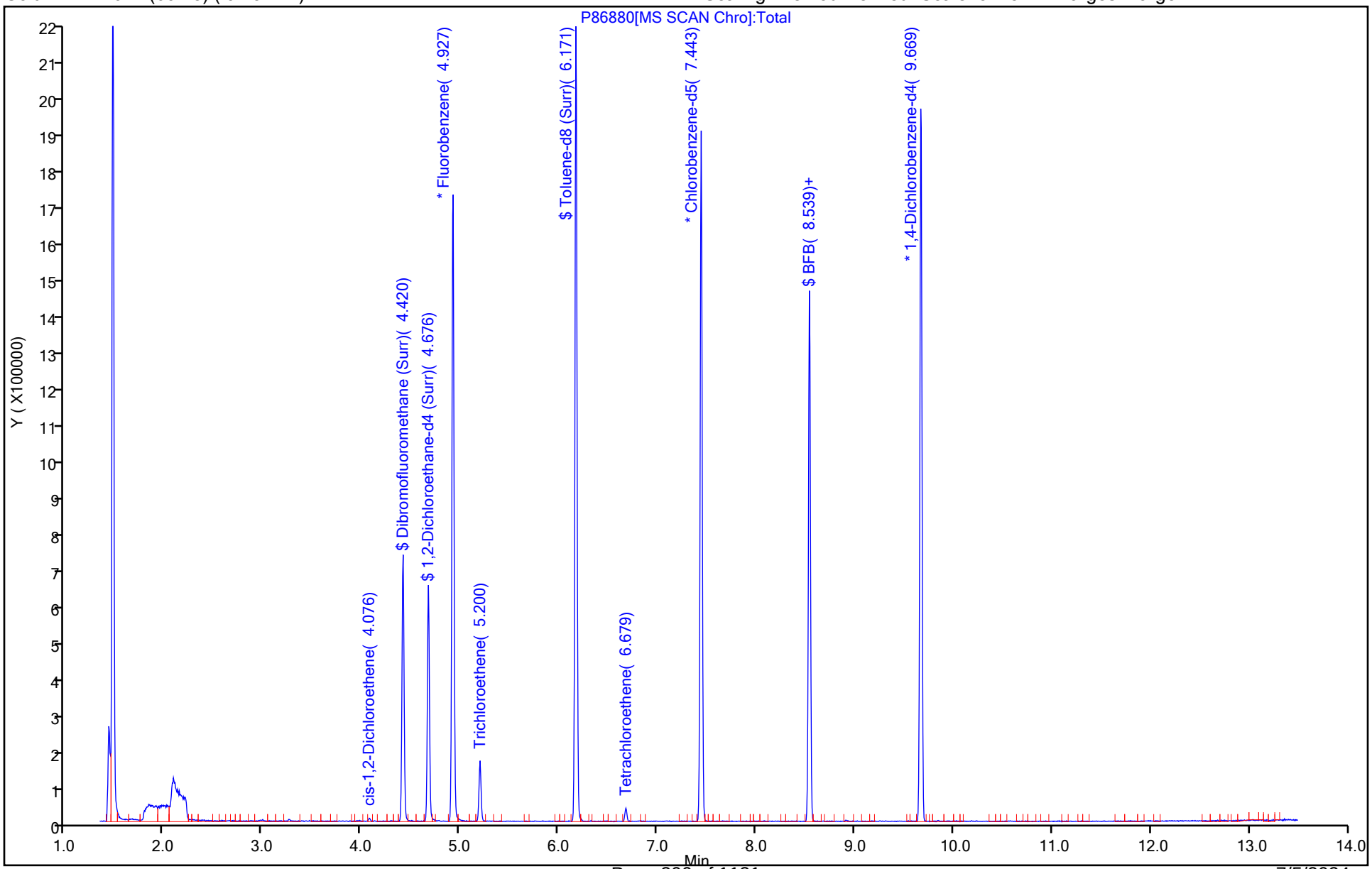
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:25 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D				
Injection Date:	01-Jul-2024 14:09:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-5	Lab Sample ID:	280-193176-5	Worklist Smp#:	18
Client ID:	RW-7677P-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D				
Lims ID:	280-193176-A-5				
Client ID:	RW-7677P-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 14:09:30	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-5				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

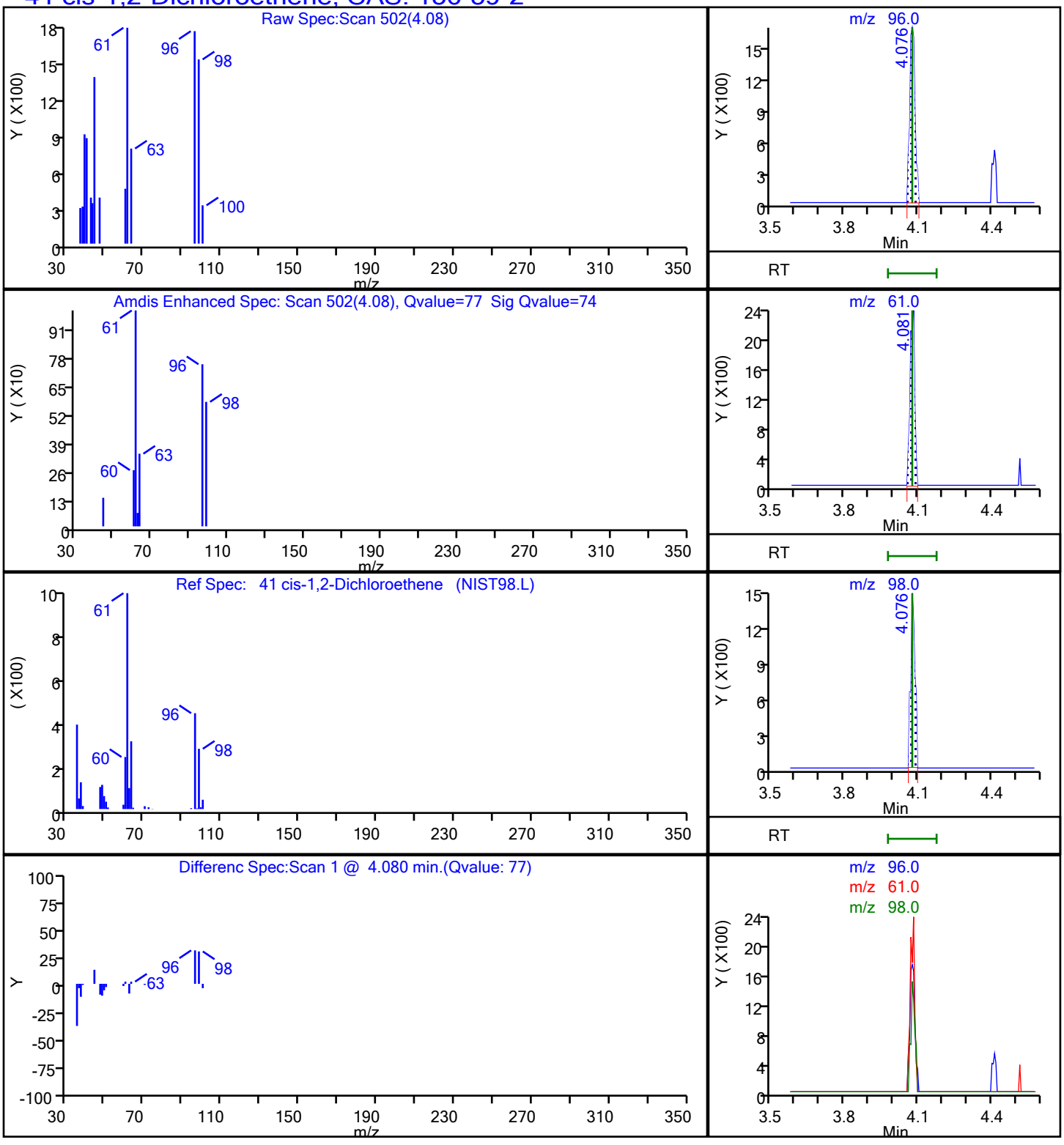
First Level Reviewer: V8PV Date: 01-Jul-2024 21:40:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.5	96.96
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.24
$ 6 Toluene-d8 (Surr)	50.0	51.7	103.33
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.0	102.07

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D				
Injection Date:	01-Jul-2024 14:09:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-5	Lab Sample ID:	280-193176-5		
Client ID:	RW-7677P-20240618				
Operator ID:	COULTER	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

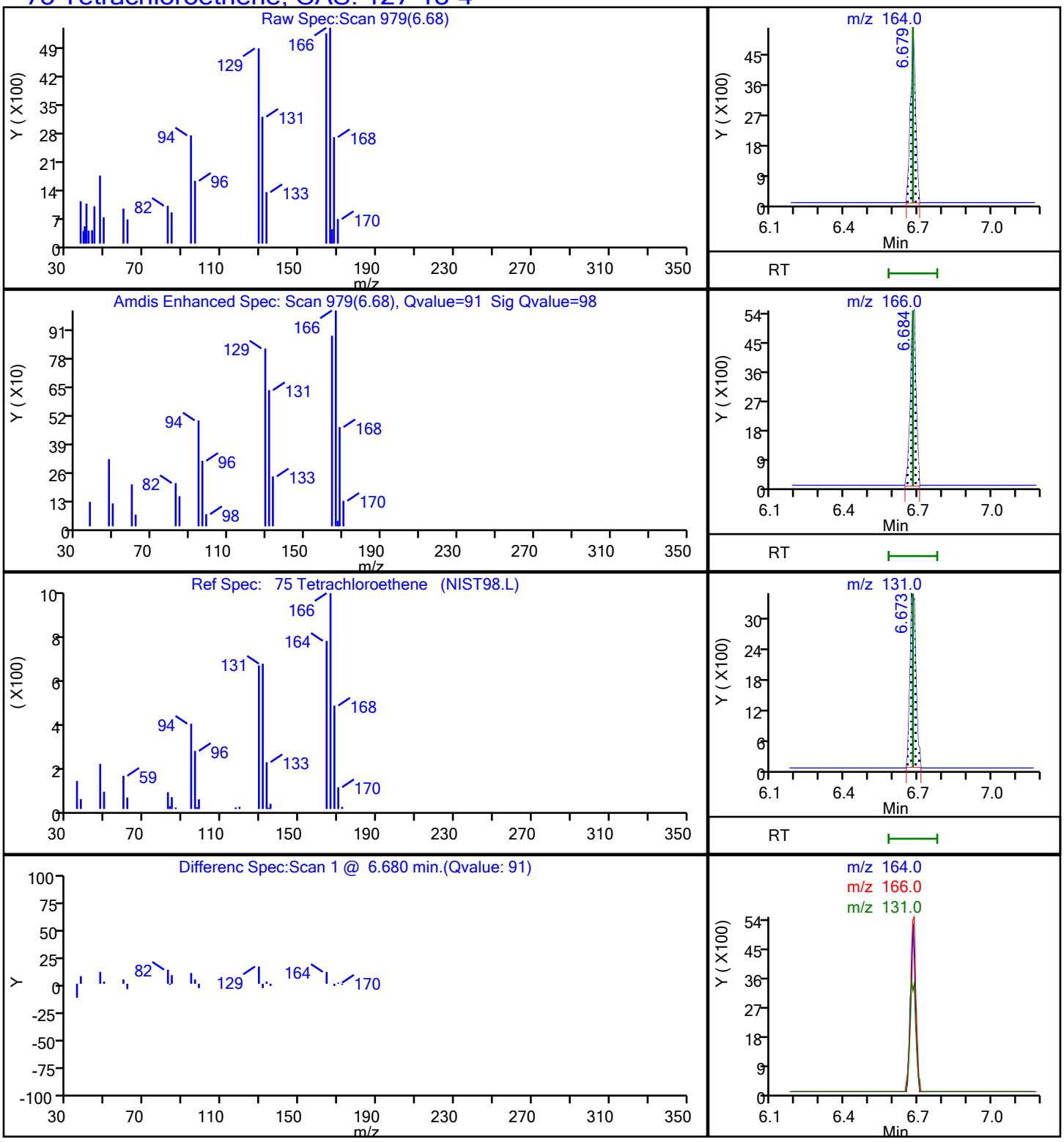
41 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D		
Injection Date:	01-Jul-2024 14:09:30	Instrument ID:	VMS_P
Lims ID:	280-193176-A-5	Lab Sample ID:	280-193176-5
Client ID:	RW-7677P-20240618		
Operator ID:	COULTER	ALS Bottle#:	12 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

75 Tetrachloroethene, CAS: 127-18-4

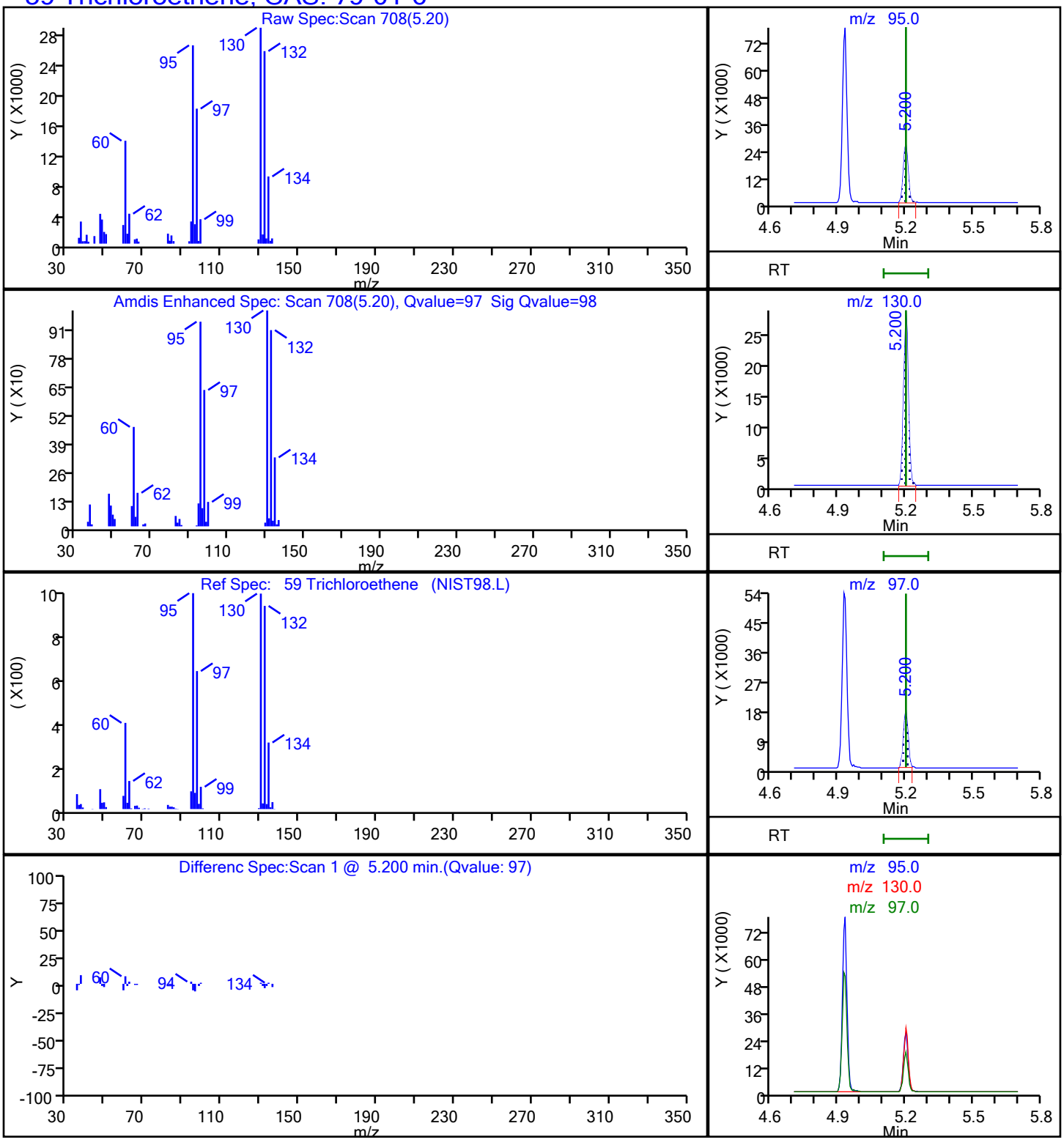


Report Date: 01-Jul-2024 21:50:25 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D				
Injection Date:	01-Jul-2024 14:09:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-5	Lab Sample ID:	280-193176-5		
Client ID:	RW-7677P-20240618				
Operator ID:	COULTER	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



7/5/2024
11:14:22 AM

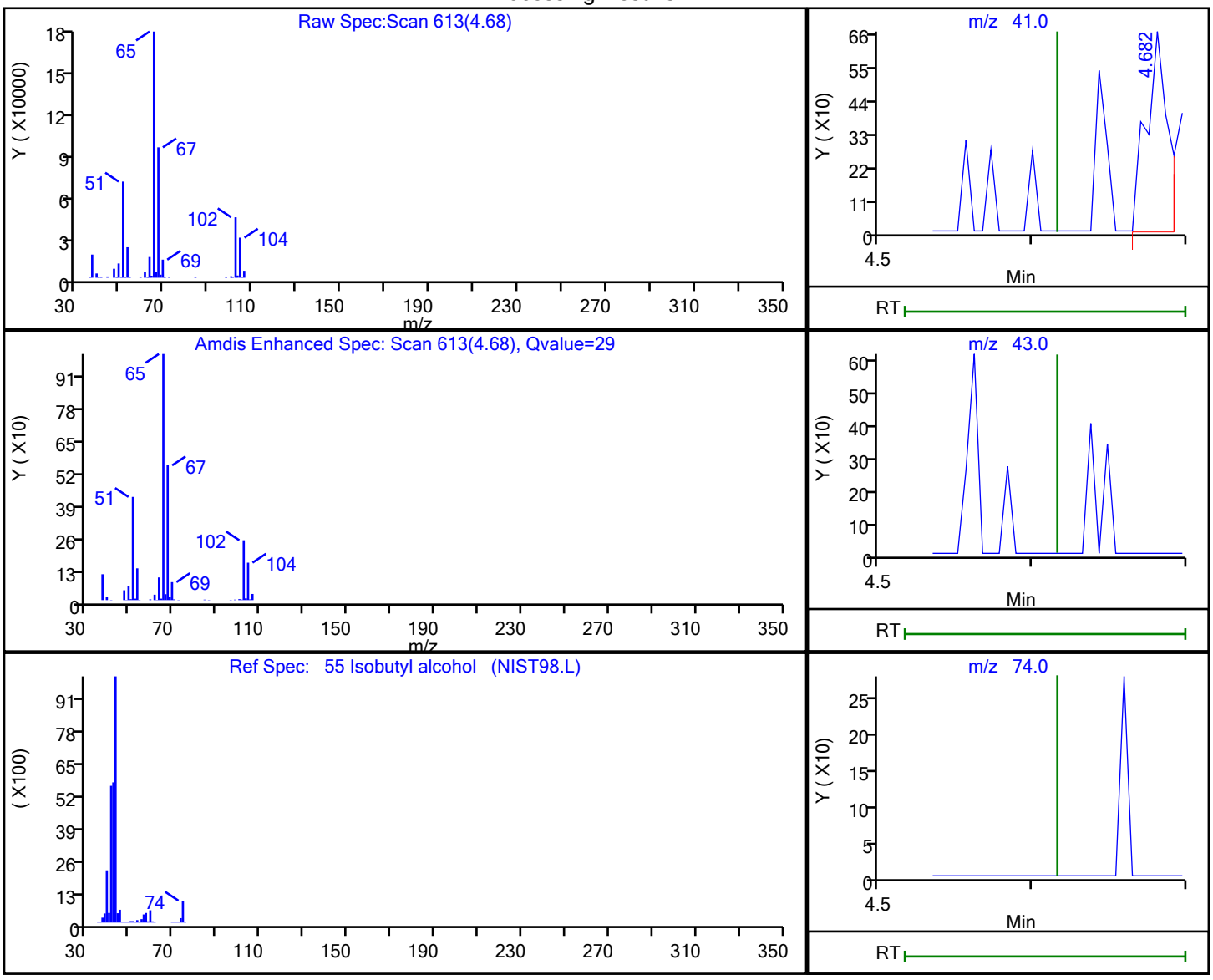
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86880.D				
Injection Date:	01-Jul-2024 14:09:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-5	Lab Sample ID:	280-193176-5		
Client ID:	RW-7677P-20240618				
Operator ID:	COULTER	ALS Bottle#:	12	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	649	3.766541
4.62	43.00	0	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:40:44 -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.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-14-20240619 | Lab Sample ID: 280-193176-6

Matrix: Water | Lab File ID: MS1_6098.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:11

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	1.3	J	2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	0.55	J	1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-14-20240619 | Lab Sample ID: 280-193176-6

Matrix: Water | Lab File ID: MS1_6098.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:11

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	0.93	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND	*1	3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-14-20240619 | Lab Sample ID: 280-193176-6

Matrix: Water | Lab File ID: MS1_6098.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:11

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.: 658996 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D
Lims ID: 280-193176-B-6
Client ID: Muni-Well-14-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:11:30 ALS Bottle#: 13 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-B-6
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:03:25

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	1845222	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	426213	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	651747	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	425158	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	546145	50.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1837029	48.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	623713	49.7	
$ 8 BFB	95	9.899	9.899	0.000	80	623713	NR	
9 Dichlorodifluoromethane	85		1.813				ND	
10 Chloromethane	50		2.009				ND	
11 Vinyl chloride	62		2.134				ND	
12 Ethylene oxide	43	2.274	2.260	0.014	87	1203	NC	
13 Bromomethane	94		2.497				ND	
14 Chloroethane	64		2.623				ND	
15 Dichlorofluoromethane	67		2.861				ND	
16 Trichlorofluoromethane	101		2.888				ND	
17 Ethanol	45		3.070				ND	
18 Ethyl ether	59		3.168				ND	
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.321				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419				ND	
22 1,1-Dichloroethene	96		3.419				ND	
23 Acetone	43		3.447				ND	7
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45	3.587	3.573	0.014	96	4787	10.9	
26 Carbon disulfide	76		3.629				ND	7
27 Acetonitrile	41		3.726				ND	U
28 Methyl acetate	43		3.740				ND	
29 3-Chloro-1-propene	41		3.768				ND	7
30 Methylene Chloride	84		3.894				ND	
31 2-Methyl-2-propanol	59		3.964				ND	
32 Acrylonitrile	53		4.103				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.131				ND	
34 trans-1,2-Dichloroethene	96		4.131				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		4.522				ND	
39 1,1-Dichloroethane	63		4.536				ND	
40 Isopropyl ether	87		4.550				ND	
41 2-Chloro-1,3-butadiene	53		4.606				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737				ND	
43 Tert-butyl ethyl ether	59		4.871				ND	
44 2-Butanone (MEK)	43		5.011				ND	
47 Ethyl acetate	43		5.039				ND	U
46 2,2-Dichloropropane	77		5.039				ND	
45 cis-1,2-Dichloroethene	96		5.039				ND	
48 Propionitrile	54		5.081				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
51 Chlorobromomethane	128		5.249				ND	
52 Tetrahydrofuran	42		5.249				ND	
53 Chloroform	83		5.319				ND	
54 1,1,1-Trichloroethane	97		5.472				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		5.542				ND	
59 Carbon tetrachloride	117		5.612				ND	
58 1,1-Dichloropropene	75		5.612				ND	
60 Isobutyl alcohol	41		5.668				ND	U
61 Benzene	78		5.793				ND	
62 1,2-Dichloroethane	62		5.821				ND	
63 Tert-amyl methyl ether	73		5.877				ND	
64 n-Heptane	43		6.003				ND	
66 Trichloroethene	95	6.352	6.352	0.000	91	6258	0.9259	
65 n-Butanol	56		6.394				ND	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.562				ND	
69 1,2-Dichloropropane	63		6.576				ND	
70 Methyl methacrylate	100		6.603				ND	
71 1,4-Dioxane	88		6.631				ND	
72 Dibromomethane	93		6.659				ND	
73 Dichlorobromomethane	83		6.799				ND	U
74 2-Nitropropane	41		6.994				ND	
75 2-Chloroethyl vinyl ether	63		7.022				ND	
76 cis-1,3-Dichloropropene	75		7.176				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		7.483				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	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.860				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164		7.958				ND	
90 1,3-Dichloropropane	76		8.014				ND	
91 2-Hexanone	43		8.042				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	82	3110	0.5547	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.349				ND	
96 1-Chlorohexane	91		8.754				ND	U
97 Chlorobenzene	112		8.796				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
98 Ethylbenzene	106		8.880				ND	
100 m-Xylene & p-Xylene	106		9.006				ND	
101 o-Xylene	106		9.369				ND	
102 Dimethyl disulfide	94		9.388				ND	
103 Styrene	104		9.397				ND	
104 Bromoform	173	9.578	9.578	0.000	89	4212	1.26	
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		10.025				ND	
109 Bromobenzene	156		10.053				ND	
110 trans-1,4-Dichloro-2-butene	53		10.053				ND	
111 1,2,3-Trichloropropane	110		10.081				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		10.346				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.682				ND	
118 sec-Butylbenzene	134		10.849				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		11.100				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		12.413				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.196				ND	
130 Naphthalene	128		13.335				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.559				ND	
140 n-Nonane TIC	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	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	
142 Ethyl acrylate	55		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
136 4-Bromofluorobenzene	95		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	96		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		1.82	
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 159 4-Ethyltoluene TIC	1		10.249				ND	
T 164 Dicyclopentadiene TIC	1		10.947				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

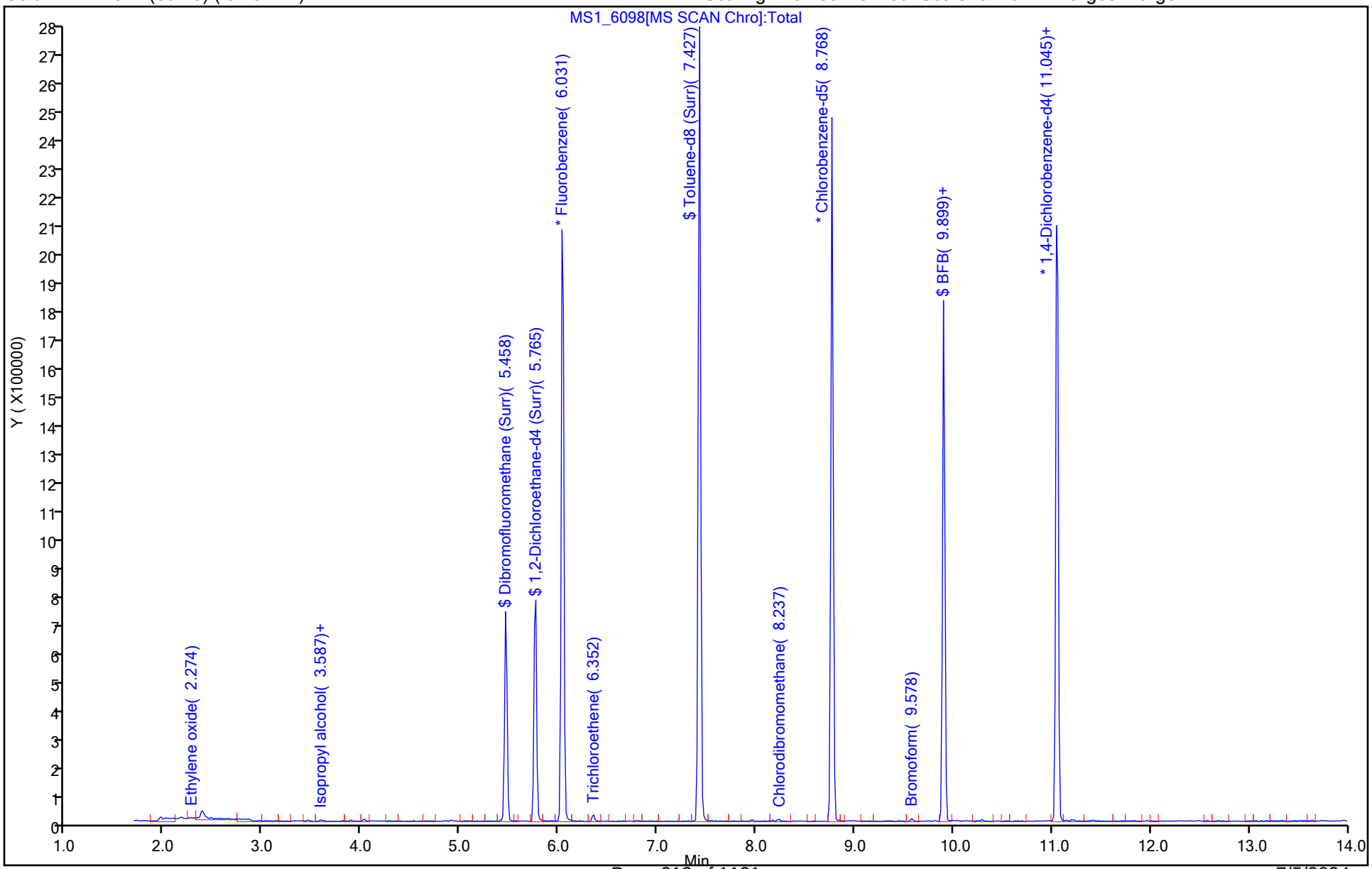
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 02-Jul-2024 16:26:09 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D				
Injection Date:	02-Jul-2024 05:11:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	280-193176-B-6	Lab Sample ID:	280-193176-6	Worklist Smp#:	25
Client ID:	Muni-Well-14-20240619				
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D
Lims ID: 280-193176-B-6
Client ID: Muni-Well-14-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:11:30 ALS Bottle#: 13 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-B-6
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

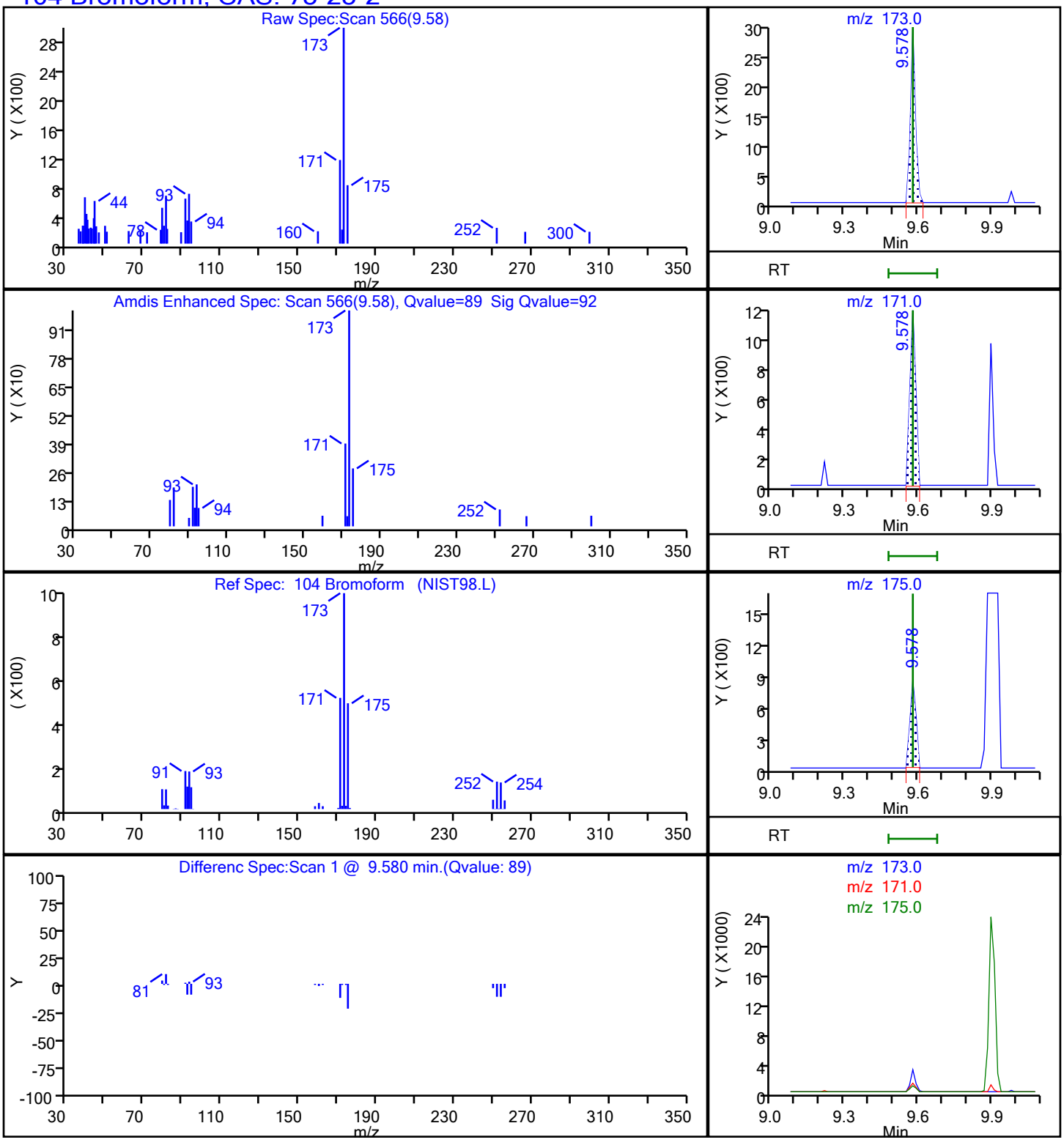
First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:03:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.8	99.67
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.54
$ 6 Toluene-d8 (Surr)	50.0	48.9	97.82
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.7	99.45

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D		
Injection Date:	02-Jul-2024 05:11:30	Instrument ID:	VMS_MS1
Lims ID:	280-193176-B-6	Lab Sample ID:	280-193176-6
Client ID:	Muni-Well-14-20240619		
Operator ID:	bj	ALS Bottle#:	13 Worklist Smp#: 25
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

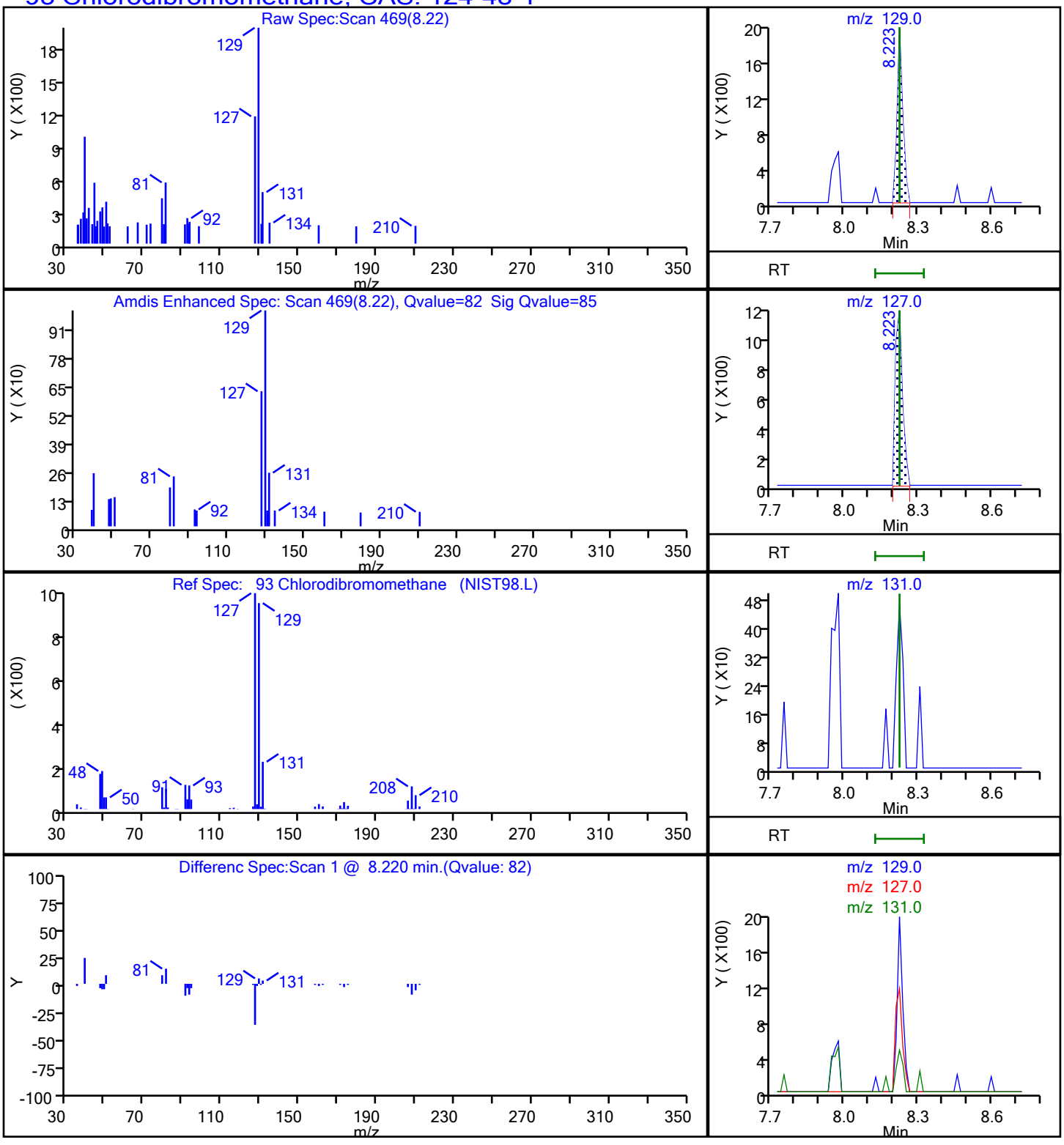
104 Bromoform, CAS: 75-25-2



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D
Injection Date: 02-Jul-2024 05:11:30 Instrument ID: VMS_MS1
Lims ID: 280-193176-B-6 Lab Sample ID: 280-193176-6
Client ID: Muni-Well-14-20240619
Operator ID: bj ALS Bottle#: 13 Worklist Smp#: 25
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

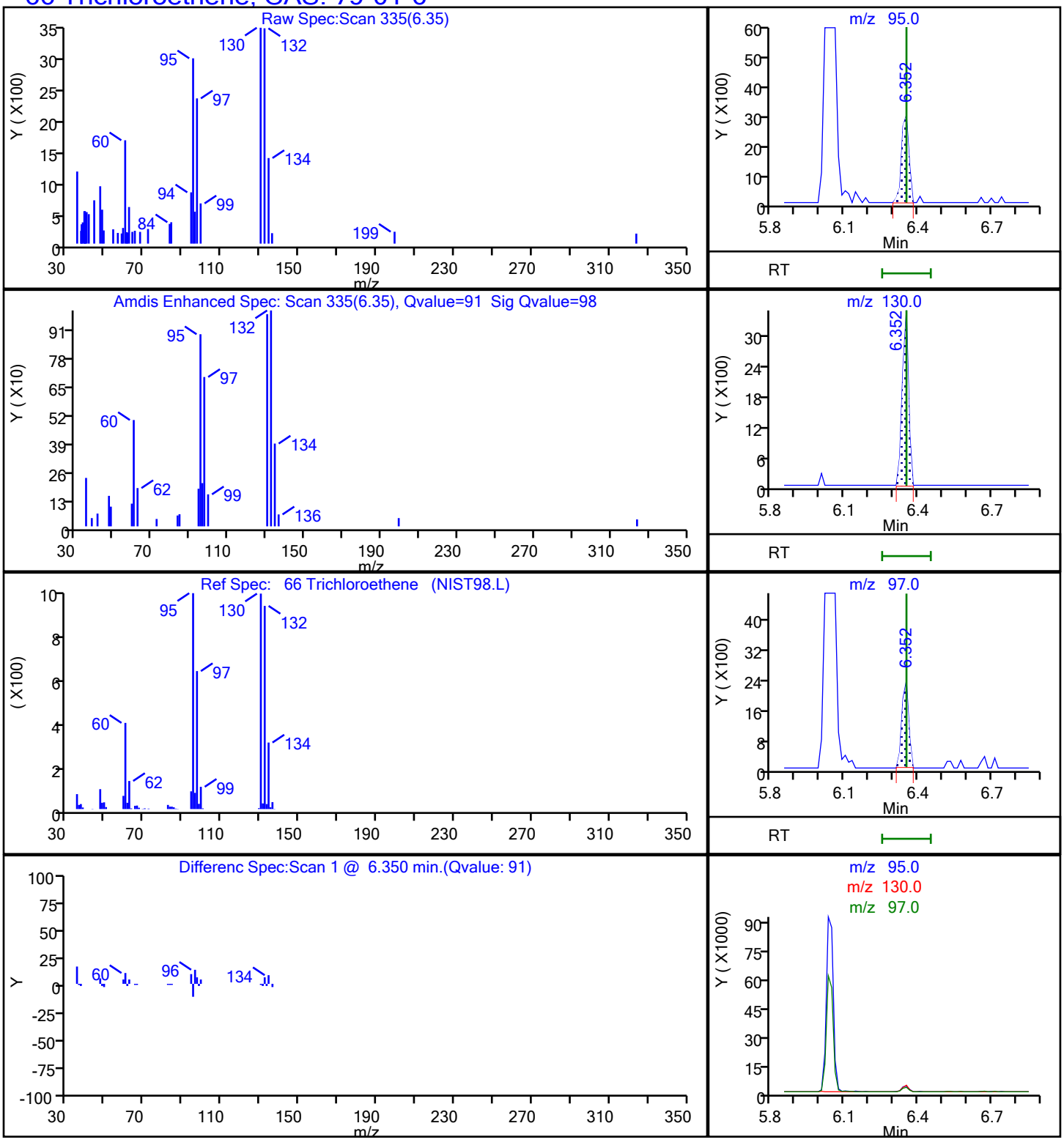
93 Chlorodibromomethane, CAS: 124-48-1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D
Injection Date: 02-Jul-2024 05:11:30 Instrument ID: VMS_MS1
Lims ID: 280-193176-B-6 Lab Sample ID: 280-193176-6
Client ID: Muni-Well-14-20240619
Operator ID: bj ALS Bottle#: 13 Worklist Smp#: 25
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



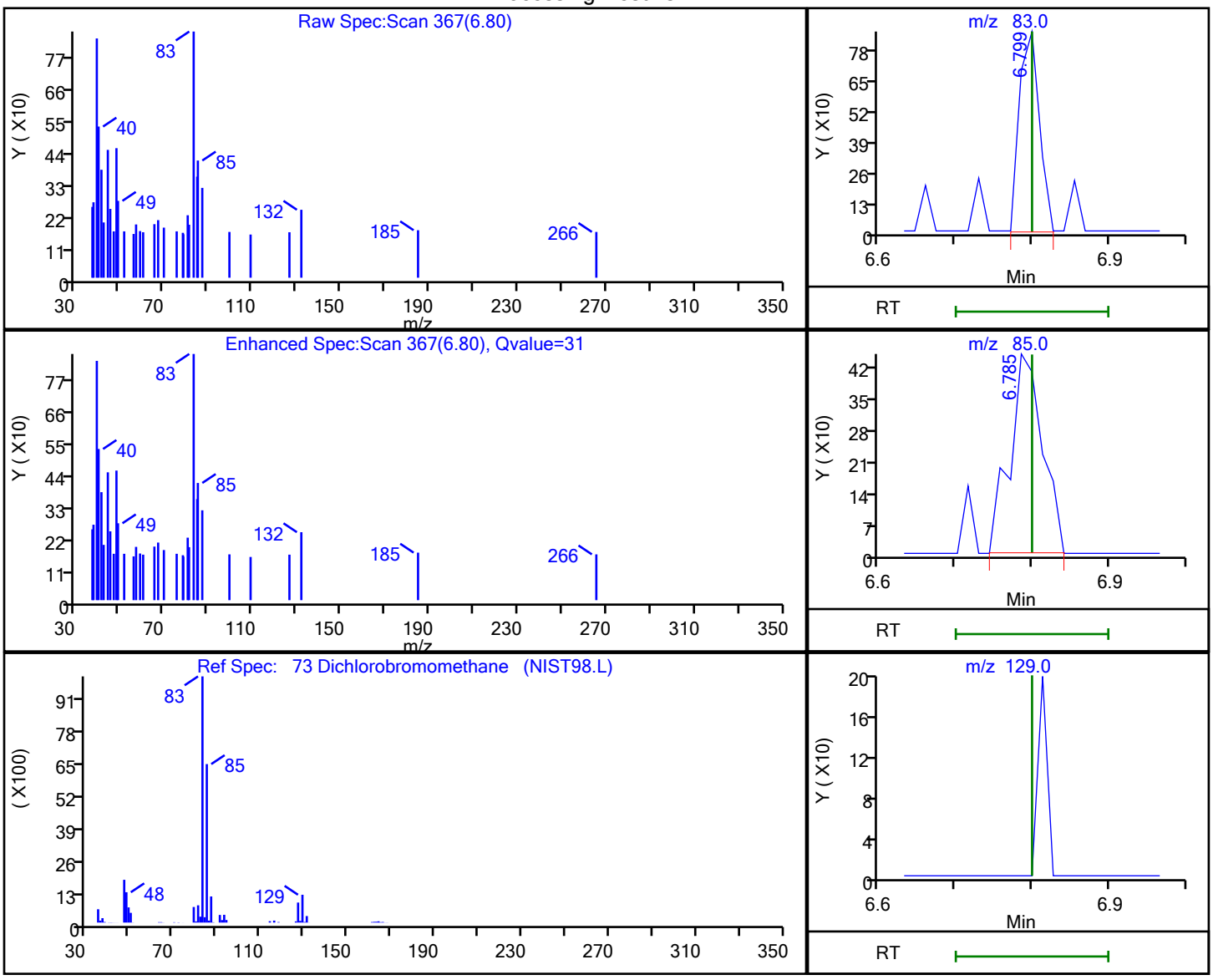
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D				
Injection Date:	02-Jul-2024 05:11:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-6	Lab Sample ID:	280-193176-6		
Client ID:	Muni-Well-14-20240619				
Operator ID:	bj	ALS Bottle#:	13	Worklist Smp#:	25
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		

73 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
6.80	83.00	1558	0.193696
6.78	85.00	1337	
6.80	129.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:03:07 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

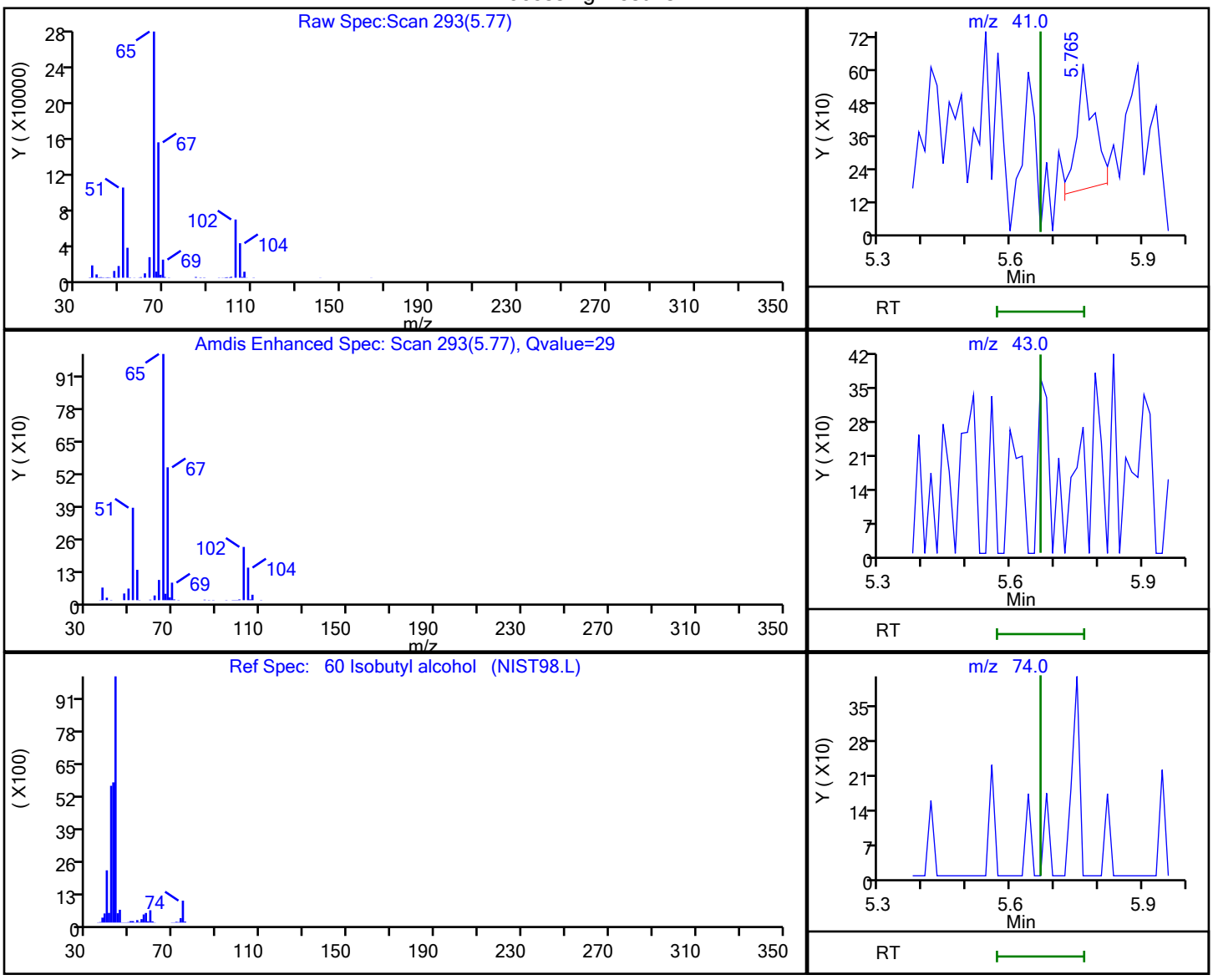
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D				
Injection Date:	02-Jul-2024 05:11:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-6	Lab Sample ID:	280-193176-6		
Client ID:	Muni-Well-14-20240619				
Operator ID:	bj	ALS Bottle#:	13	Worklist Smp#:	25
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
5.77	41.00	1254	5.480856
5.67	43.00	0	
5.67	74.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:03:00 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

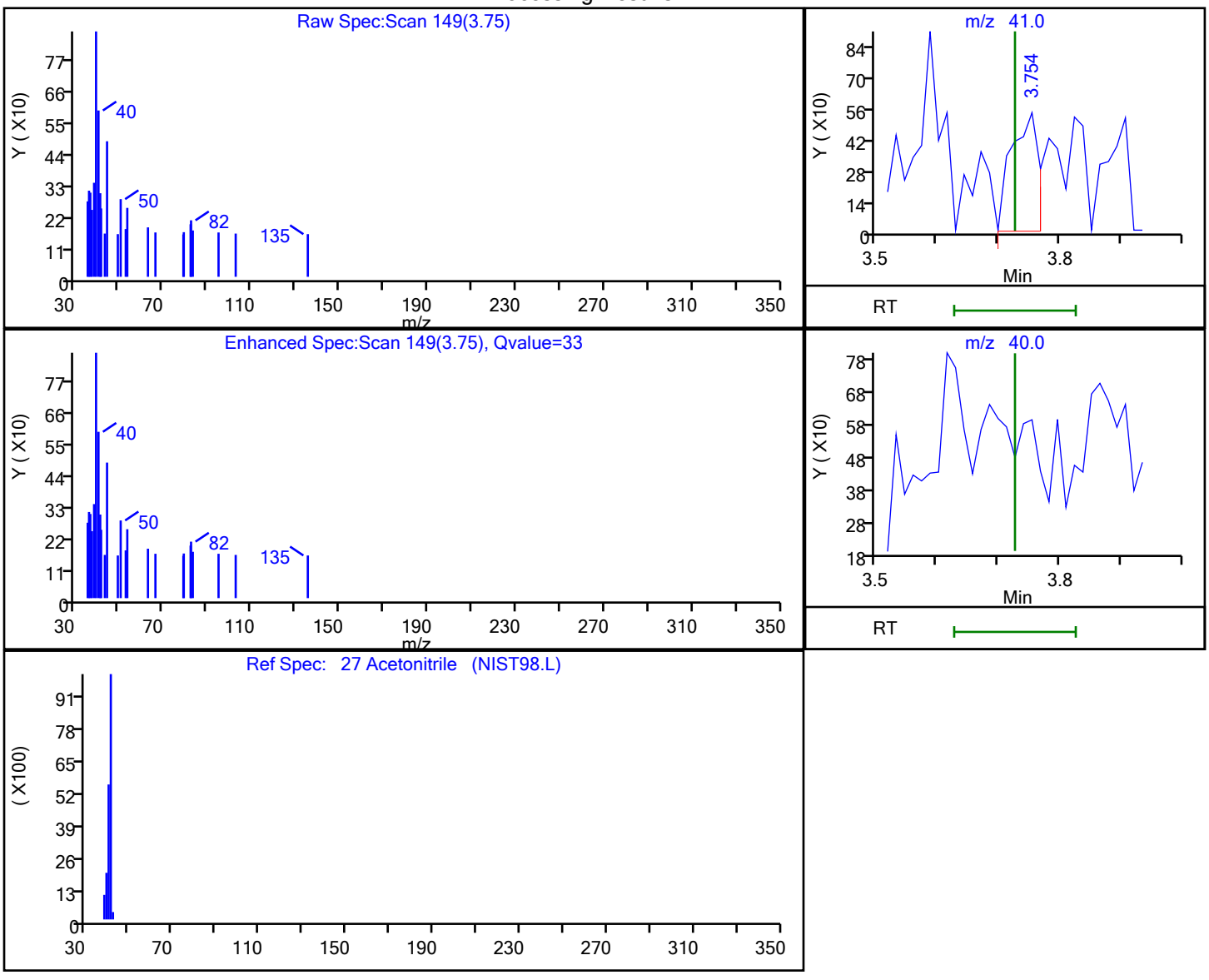
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6098.D				
Injection Date:	02-Jul-2024 05:11:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-6	Lab Sample ID:	280-193176-6		
Client ID:	Muni-Well-14-20240619				
Operator ID:	bj	ALS Bottle#:	13	Worklist Smp#:	25
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	1671	1.631218
3.73	40.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:02:55 -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.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-33-20240619 | Lab Sample ID: 280-193176-7

Matrix: Water | Lab File ID: MS1_6099.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:32

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-33-20240619 | Lab Sample ID: 280-193176-7

Matrix: Water | Lab File ID: MS1_6099.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:32

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	1.9		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND	*1	3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: Muni-Well-33-20240619 | Lab Sample ID: 280-193176-7

Matrix: Water | Lab File ID: MS1_6099.D

Analysis Method: 8260D | Date Collected: 06/19/2024 13:28

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:32

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.: 658996 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		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)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6099.D
Lims ID: 280-193176-A-7
Client ID: Muni-Well-33-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:32:30 ALS Bottle#: 14 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-A-7
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:03:51

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	1836863	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	422794	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	645635	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	429190	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.765	0.001	0	544418	50.3	
$ 6 Toluene-d8 (Surr)	98	7.428	7.427	0.001	93	1856943	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.899	0.001	84	625235	50.3	
$ 8 BFB	95	9.900	9.899	0.001	81	625235	NR	
9 Dichlorodifluoromethane	85		1.813				ND	
10 Chloromethane	50		2.009				ND	
11 Vinyl chloride	62		2.134				ND	
12 Ethylene oxide	43	2.260	2.260	0.000	96	2194	NC	
13 Bromomethane	94		2.497				ND	
14 Chloroethane	64		2.623				ND	
15 Dichlorofluoromethane	67		2.861				ND	
16 Trichlorofluoromethane	101		2.888				ND	
17 Ethanol	45		3.070				ND	
18 Ethyl ether	59		3.168				ND	
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.321				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419				ND	
22 1,1-Dichloroethene	96		3.419				ND	
23 Acetone	43		3.447				ND	7
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45	3.587	3.573	0.014	96	5898	13.5	
26 Carbon disulfide	76		3.629				ND	7
27 Acetonitrile	41		3.726				ND	
28 Methyl acetate	43		3.740				ND	
29 3-Chloro-1-propene	41		3.768				ND	
30 Methylene Chloride	84		3.894				ND	
31 2-Methyl-2-propanol	59		3.964				ND	
32 Acrylonitrile	53		4.103				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.131				ND	
34 trans-1,2-Dichloroethene	96		4.131				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		4.522				ND	7
39 1,1-Dichloroethane	63		4.536				ND	
40 Isopropyl ether	87		4.550				ND	
41 2-Chloro-1,3-butadiene	53		4.606				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737				ND	
43 Tert-butyl ethyl ether	59		4.871				ND	
44 2-Butanone (MEK)	43		5.011				ND	
47 Ethyl acetate	43		5.039				ND	
46 2,2-Dichloropropane	77		5.039				ND	
45 cis-1,2-Dichloroethene	96		5.039				ND	
48 Propionitrile	54		5.081				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
51 Chlorobromomethane	128		5.249				ND	
52 Tetrahydrofuran	42		5.249				ND	
53 Chloroform	83		5.319				ND	
54 1,1,1-Trichloroethane	97		5.472				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		5.542				ND	
59 Carbon tetrachloride	117		5.612				ND	
58 1,1-Dichloropropene	75		5.612				ND	
60 Isobutyl alcohol	41		5.668				ND	U
61 Benzene	78		5.793				ND	
62 1,2-Dichloroethane	62		5.821				ND	
63 Tert-amyl methyl ether	73		5.877				ND	
64 n-Heptane	43		6.003				ND	
66 Trichloroethene	95	6.352	6.352	0.000	94	12893	1.92	
65 n-Butanol	56		6.394				ND	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.562				ND	
69 1,2-Dichloropropane	63		6.576				ND	
70 Methyl methacrylate	100		6.603				ND	
71 1,4-Dioxane	88		6.631				ND	
72 Dibromomethane	93		6.659				ND	
73 Dichlorobromomethane	83		6.799				ND	
74 2-Nitropropane	41		6.994				ND	
75 2-Chloroethyl vinyl ether	63		7.022				ND	
76 cis-1,3-Dichloropropene	75		7.176				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		7.483				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	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.860				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164	7.958	7.958	0.000	84	1555	0.3115	
90 1,3-Dichloropropane	76		8.014				ND	
91 2-Hexanone	43		8.042				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129		8.224				ND	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.349				ND	
96 1-Chlorohexane	91		8.754				ND	U
97 Chlorobenzene	112		8.796				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
98 Ethylbenzene	106		8.880				ND	
100 m-Xylene & p-Xylene	106		9.006				ND	
101 o-Xylene	106		9.369				ND	
102 Dimethyl disulfide	94		9.388				ND	
103 Styrene	104		9.397				ND	
104 Bromoform	173		9.578				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		10.025				ND	
109 Bromobenzene	156		10.053				ND	
110 trans-1,4-Dichloro-2-butene	53		10.053				ND	
111 1,2,3-Trichloropropane	110		10.081				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		10.346				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.682				ND	
118 sec-Butylbenzene	134		10.849				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		11.100				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		12.413				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.196				ND	
130 Naphthalene	128		13.335				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.559				ND	
140 n-Nonane TIC	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	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	
142 Ethyl acrylate	55		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
136 4-Bromofluorobenzene	95		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	96		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
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 159 4-Ethyltoluene TIC	1		10.249				ND	
T 164 Dicyclopentadiene TIC	1		10.947				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

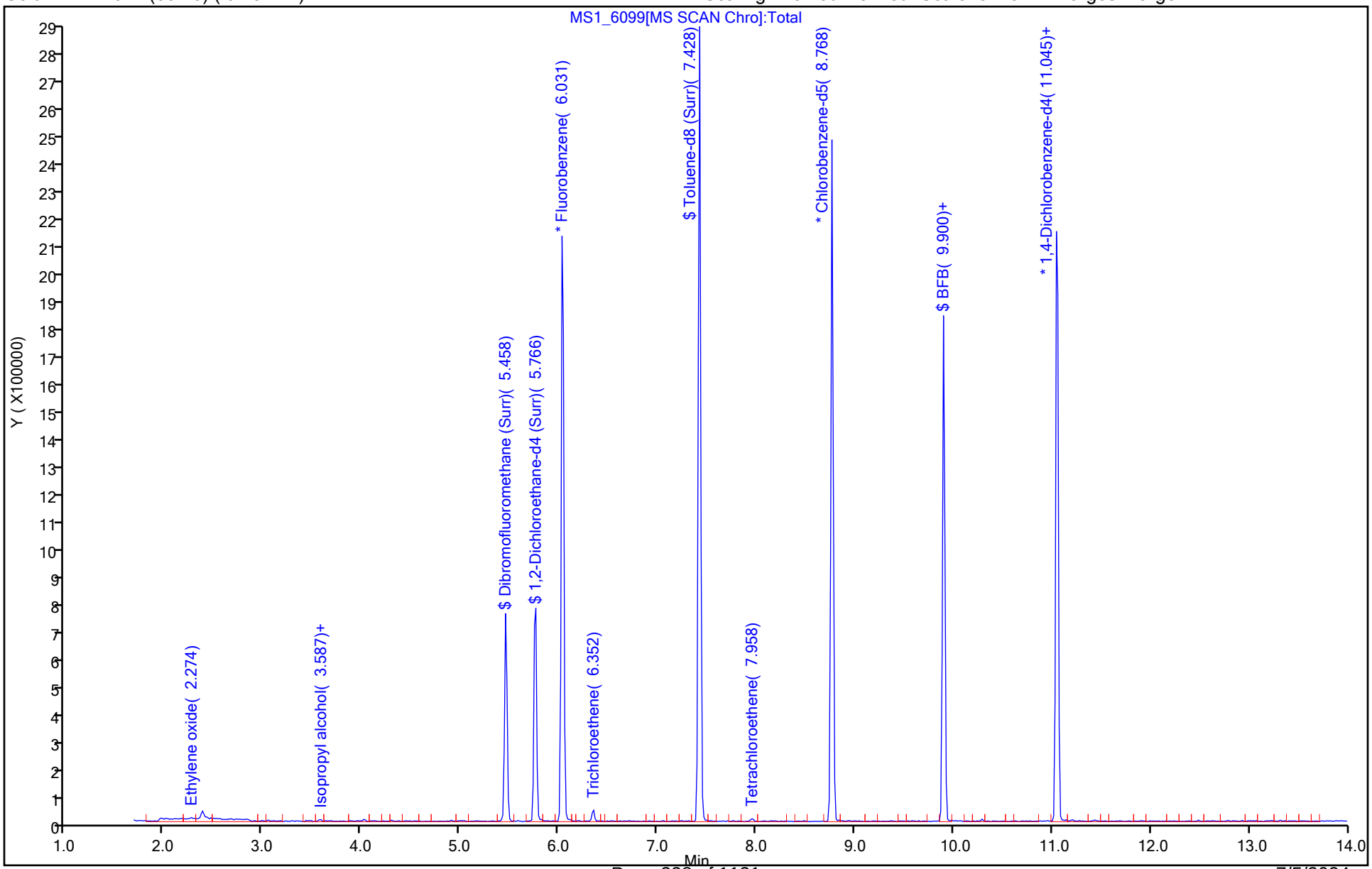
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 02-Jul-2024 16:26:11 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6099.D				
Injection Date:	02-Jul-2024 05:32:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	280-193176-A-7	Lab Sample ID:	280-193176-7	Worklist Smp#:	26
Client ID:	Muni-Well-33-20240619				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6099.D
Lims ID: 280-193176-A-7
Client ID: Muni-Well-33-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:32:30 ALS Bottle#: 14 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-A-7
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

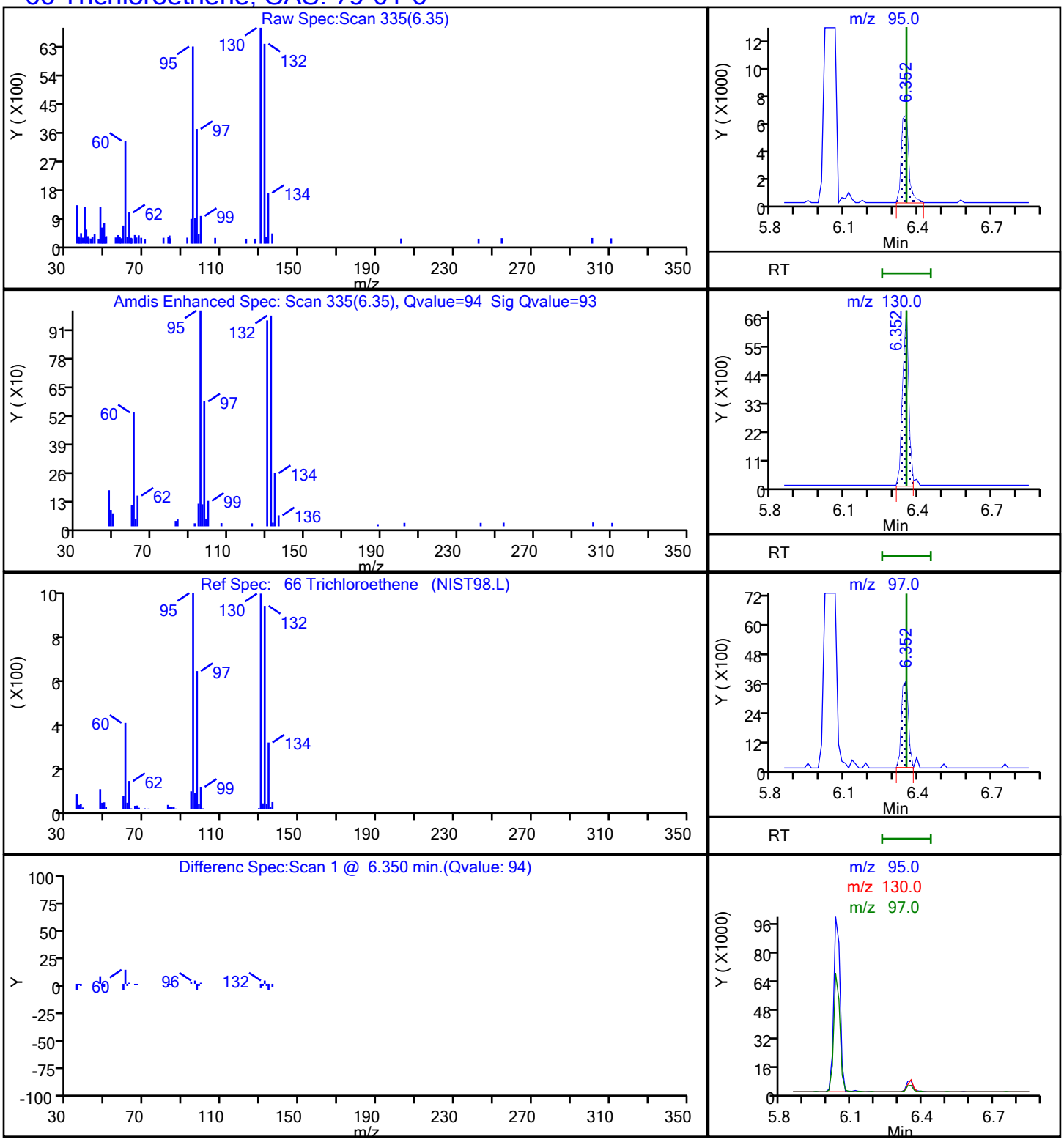
First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:03:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.5	101.08
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.68
$ 6 Toluene-d8 (Surr)	50.0	49.8	99.68
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.3	100.64

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6099.D
Injection Date: 02-Jul-2024 05:32:30 Instrument ID: VMS_MS1
Lims ID: 280-193176-A-7 Lab Sample ID: 280-193176-7
Client ID: Muni-Well-33-20240619
Operator ID: bj ALS Bottle#: 14 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



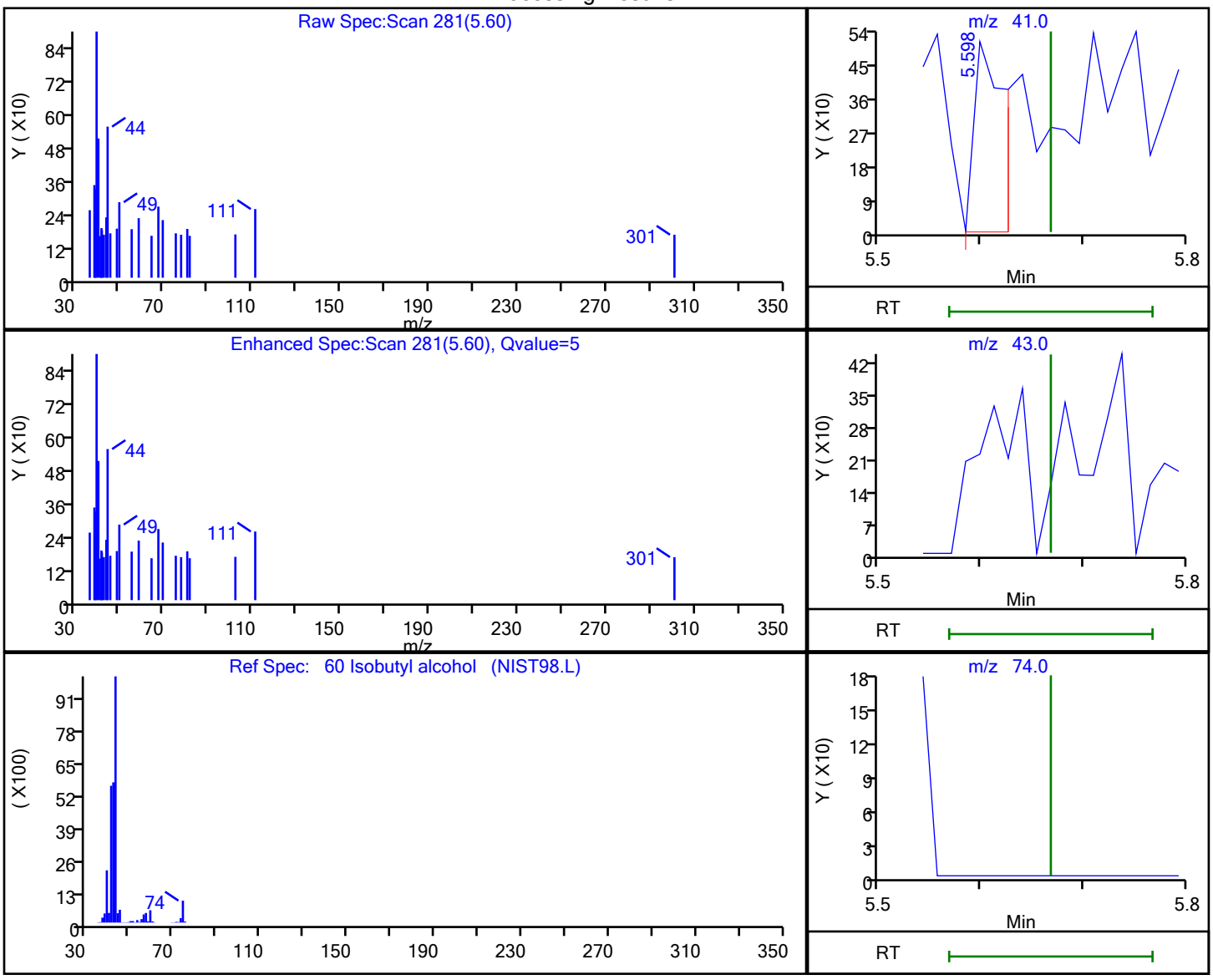
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6099.D				
Injection Date:	02-Jul-2024 05:32:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-A-7	Lab Sample ID:	280-193176-7		
Client ID:	Muni-Well-33-20240619				
Operator ID:	bj	ALS Bottle#:	14	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
5.60	41.00	1058	4.645242
5.67	43.00	0	
5.67	74.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:03:36 -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.: 280-193176-1

SDG No.:

Client Sample ID: TB-01-20240620 | Lab Sample ID: 280-193176-8

Matrix: Water | Lab File ID: MS1_6116.D

Analysis Method: 8260D | Date Collected: 06/20/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:08

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: TB-01-20240620 | Lab Sample ID: 280-193176-8

Matrix: Water | Lab File ID: MS1_6116.D

Analysis Method: 8260D | Date Collected: 06/20/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:08

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: TB-01-20240620 | Lab Sample ID: 280-193176-8

Matrix: Water | Lab File ID: MS1_6116.D

Analysis Method: 8260D | Date Collected: 06/20/2024 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:08

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.: 659045 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		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\20240702-135101.b\MS1_6116.D
Lims ID: 280-193176-B-8
Client ID: TB-01-20240620
Sample Type: Client
Inject. Date: 02-Jul-2024 12:08:30 ALS Bottle#: 60 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-B-8
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:38:48 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:36:05

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	1808371	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	417942	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.001	96	646778	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	420607	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	539917	50.7	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1825462	49.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	627436	50.4	
$ 8 BFB	95	9.899	9.900	-0.001	79	627436	NR	
9 Dichlorodifluoromethane	85		1.813				ND	
10 Chloromethane	50		2.008				ND	
11 Vinyl chloride	62		2.134				ND	
12 Ethylene oxide	43	2.260	2.260	0.000	97	2465	NC	
13 Bromomethane	94		2.497				ND	U
14 Chloroethane	64		2.623				ND	
15 Dichlorofluoromethane	67		2.860				ND	
16 Trichlorofluoromethane	101		2.888				ND	
17 Ethanol	45		3.070				ND	
18 Ethyl ether	59		3.168				ND	
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.321				ND	U
22 1,1-Dichloroethene	96		3.405				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419				ND	
23 Acetone	43		3.447				ND	
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45		3.573				ND	
26 Carbon disulfide	76	3.629	3.628	0.001	68	2942	0.1645	
27 Acetonitrile	41		3.726				ND	U
28 Methyl acetate	43		3.740				ND	
29 3-Chloro-1-propene	41		3.768				ND	7
30 Methylene Chloride	84		3.894				ND	7
31 2-Methyl-2-propanol	59		3.964				ND	
32 Acrylonitrile	53		4.103				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.131				ND	
34 trans-1,2-Dichloroethene	96		4.131				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		4.522				ND	7
39 1,1-Dichloroethane	63		4.536				ND	
40 Isopropyl ether	87		4.550				ND	
41 2-Chloro-1,3-butadiene	53		4.606				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		5.011				ND	
45 cis-1,2-Dichloroethene	96		5.039				ND	
46 2,2-Dichloropropane	77		5.039				ND	
47 Ethyl acetate	43		5.039				ND	U
48 Propionitrile	54		5.081				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
51 Chlorobromomethane	128		5.249				ND	
52 Tetrahydrofuran	42		5.249				ND	U
53 Chloroform	83		5.318				ND	
54 1,1,1-Trichloroethane	97		5.472				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		5.542				ND	
59 Carbon tetrachloride	117		5.612				ND	
58 1,1-Dichloropropene	75		5.612				ND	
60 Isobutyl alcohol	41		5.654				ND	
61 Benzene	78		5.793				ND	
62 1,2-Dichloroethane	62		5.821				ND	
63 Tert-amyl methyl ether	73		5.877				ND	
64 n-Heptane	43		6.017				ND	U
66 Trichloroethene	95		6.352				ND	
65 n-Butanol	56		6.394				ND	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.561				ND	
69 1,2-Dichloropropane	63		6.575				ND	
70 Methyl methacrylate	100		6.590				ND	
71 1,4-Dioxane	88		6.631				ND	
72 Dibromomethane	93		6.659				ND	
73 Dichlorobromomethane	83		6.799				ND	
74 2-Nitropropane	41		6.995				ND	U
75 2-Chloroethyl vinyl ether	63		7.022				ND	
76 cis-1,3-Dichloropropene	75		7.176				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		7.483				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	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.860				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164		7.958				ND	
90 1,3-Dichloropropane	76		8.014				ND	
91 2-Hexanone	43		8.042				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129		8.223				ND	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.349				ND	
96 1-Chlorohexane	91		8.754				ND	U
97 Chlorobenzene	112		8.796				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
98 Ethylbenzene	106		8.880				ND	
100 m-Xylene & p-Xylene	106		9.005				ND	
101 o-Xylene	106		9.369				ND	
102 Dimethyl disulfide	94		9.388				ND	
103 Styrene	104		9.397				ND	
104 Bromoform	173		9.578				ND	
105 Isopropylbenzene	105		9.718				ND	
106 cis-1,4-Dichloro-2-butene	53		9.774				ND	
107 Cyclohexanone	55		9.829				ND	U
108 1,1,2,2-Tetrachloroethane	83		10.025				ND	
109 Bromobenzene	156		10.053				ND	
110 trans-1,4-Dichloro-2-butene	53		10.053				ND	
111 1,2,3-Trichloropropane	110		10.081				ND	
112 N-Propylbenzene	120		10.137				ND	
113 2-Chlorotoluene	126		10.234				ND	
114 1,3,5-Trimethylbenzene	105		10.304				ND	
115 4-Chlorotoluene	126		10.346				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.681				ND	
118 sec-Butylbenzene	134		10.849				ND	
119 1,3-Dichlorobenzene	146		10.975				ND	
120 4-Isopropyltoluene	119		10.989				ND	
121 1,4-Dichlorobenzene	146		11.072				ND	U
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		12.413				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.195				ND	
130 Naphthalene	128		13.335				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.558				ND	
140 n-Nonane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	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	
142 Ethyl acrylate	55		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
136 4-Bromofluorobenzene	95		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	96		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
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 159 4-Ethyltoluene TIC	1		10.249				ND	
T 164 Dicyclopentadiene TIC	1		10.947				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

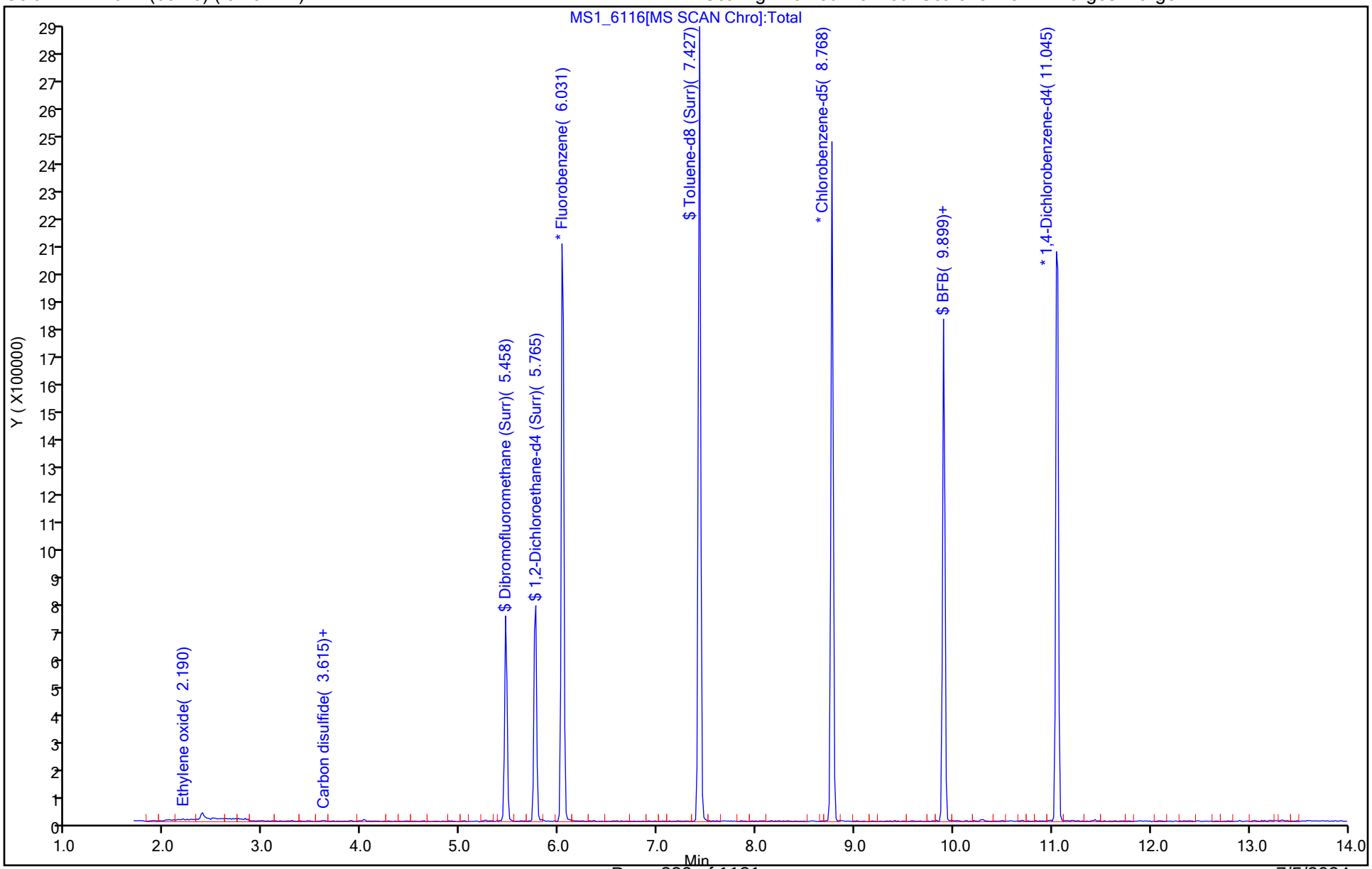
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 02-Jul-2024 16:42:43 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6116.D				
Injection Date:	02-Jul-2024 12:08:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	280-193176-B-8	Lab Sample ID:	280-193176-8	Worklist Smp#:	15
Client ID:	TB-01-20240620				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	60
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6116.D				
Lims ID:	280-193176-B-8				
Client ID:	TB-01-20240620				
Sample Type:	Client				
Inject. Date:	02-Jul-2024 12:08:30	ALS Bottle#:	60	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-B-8				
Operator ID:	go	Instrument ID:	VMS_MS1		
Method:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	02-Jul-2024 16:38:48	Calib Date:	26-Jun-2024 06:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1640				

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:36:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.62
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.42
$ 6 Toluene-d8 (Surr)	50.0	49.6	99.13
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.4	100.82

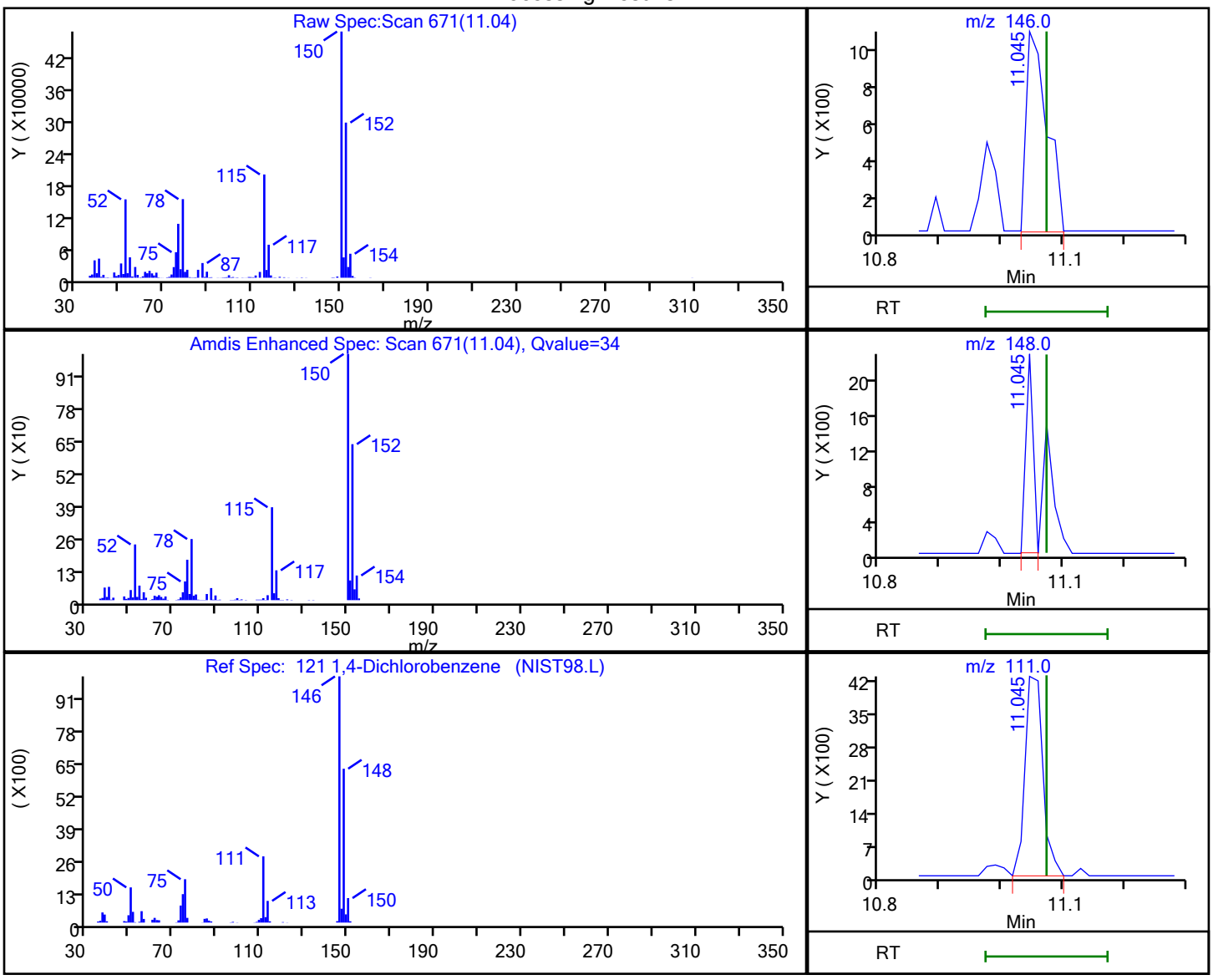
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6116.D				
Injection Date:	02-Jul-2024 12:08:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-8	Lab Sample ID:	280-193176-8		
Client ID:	TB-01-20240620				
Operator ID:	go	ALS Bottle#:	60	Worklist Smp#:	15
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
11.04	146.00	2466	0.179901
11.04	148.00	1873	
11.04	111.00	8617	

Reviewer: Q2ZS, 02-Jul-2024 16:36:02 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

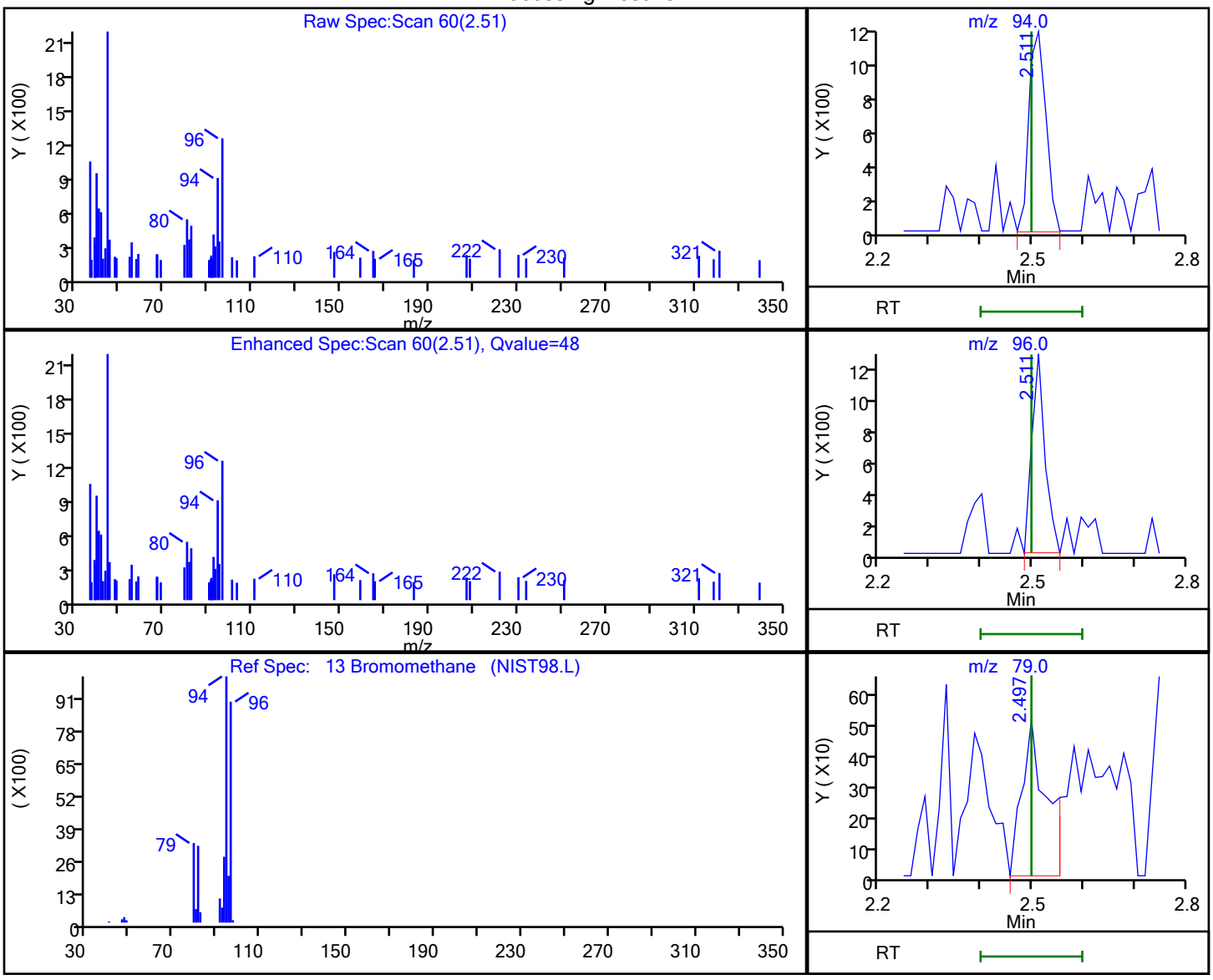
User Disabled Compound Report

Eurofins Denver

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Injection Date:	02-Jul-2024 12:08:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-8	Lab Sample ID:	280-193176-8		
Client ID:	TB-01-20240620				
Operator ID:	go	ALS Bottle#:	60	Worklist Smp#:	15
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	2732	0.954213
2.51	96.00	2182	
2.50	79.00	1755	

Reviewer: Q2ZS, 02-Jul-2024 16:35:36 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

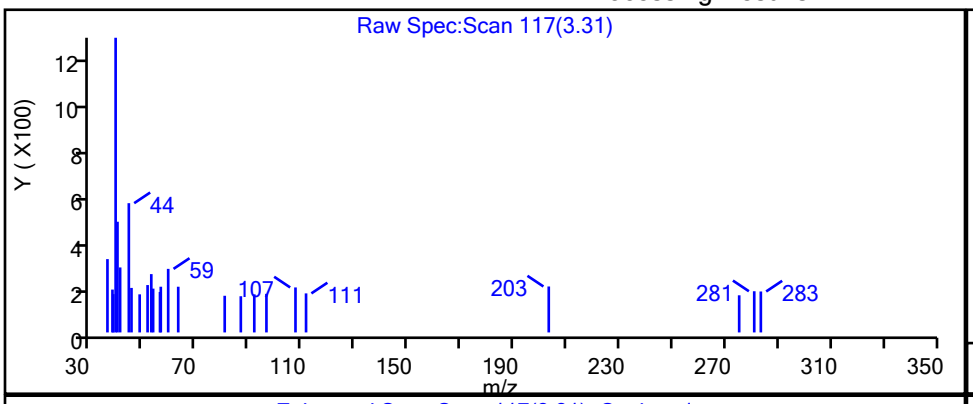
User Disabled Compound Report

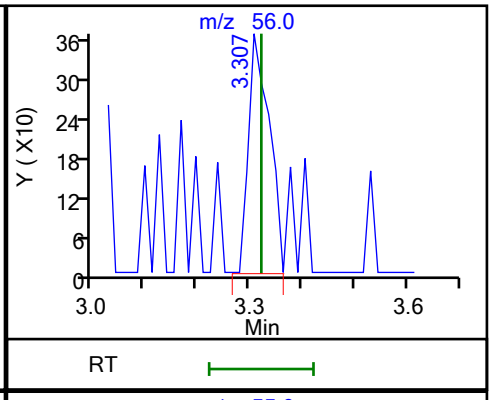
Eurofins Denver

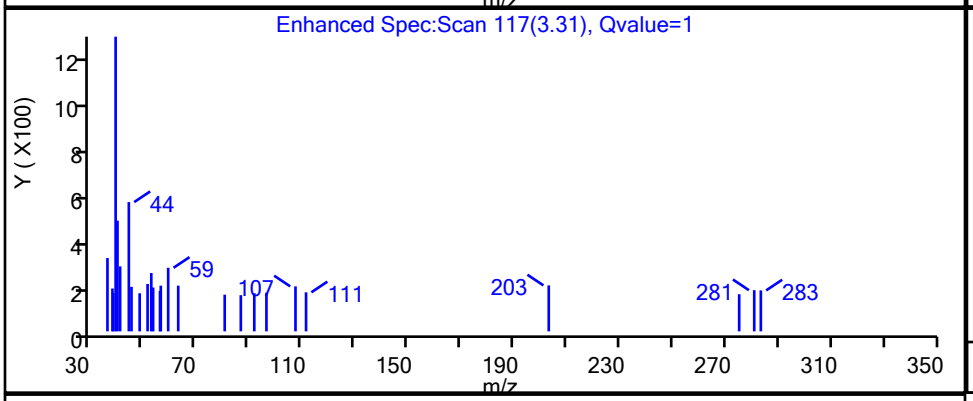
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Injection Date:	02-Jul-2024 12:08:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-8	Lab Sample ID:	280-193176-8		
Client ID:	TB-01-20240620				
Operator ID:	go	ALS Bottle#:	60	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMS1_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

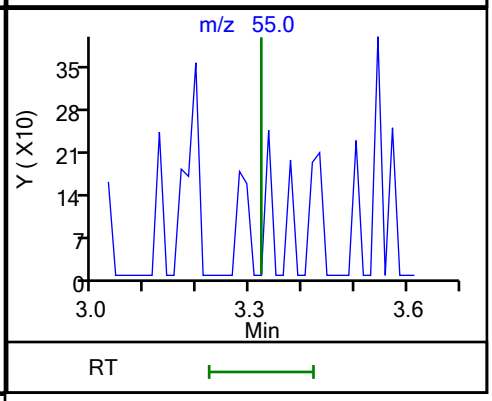
20 Acrolein, CAS: 107-02-8

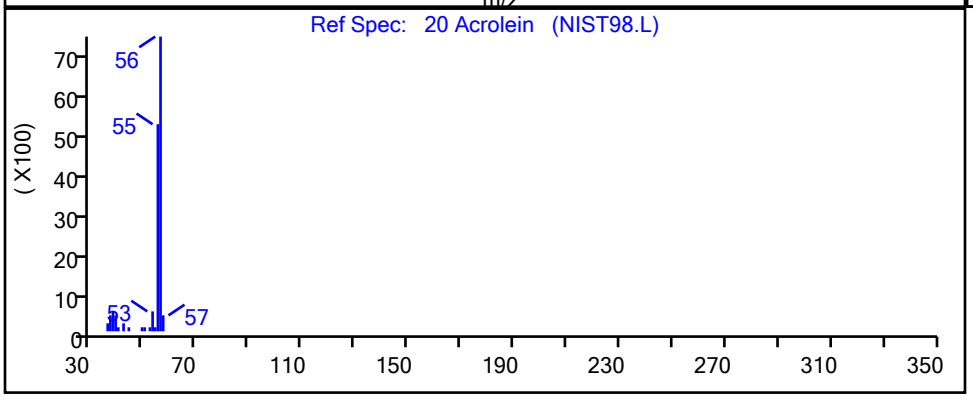
Processing Results











RT	Mass	Response	Amount
3.31	56.00	1001	2.103461
3.32	55.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:35:39 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

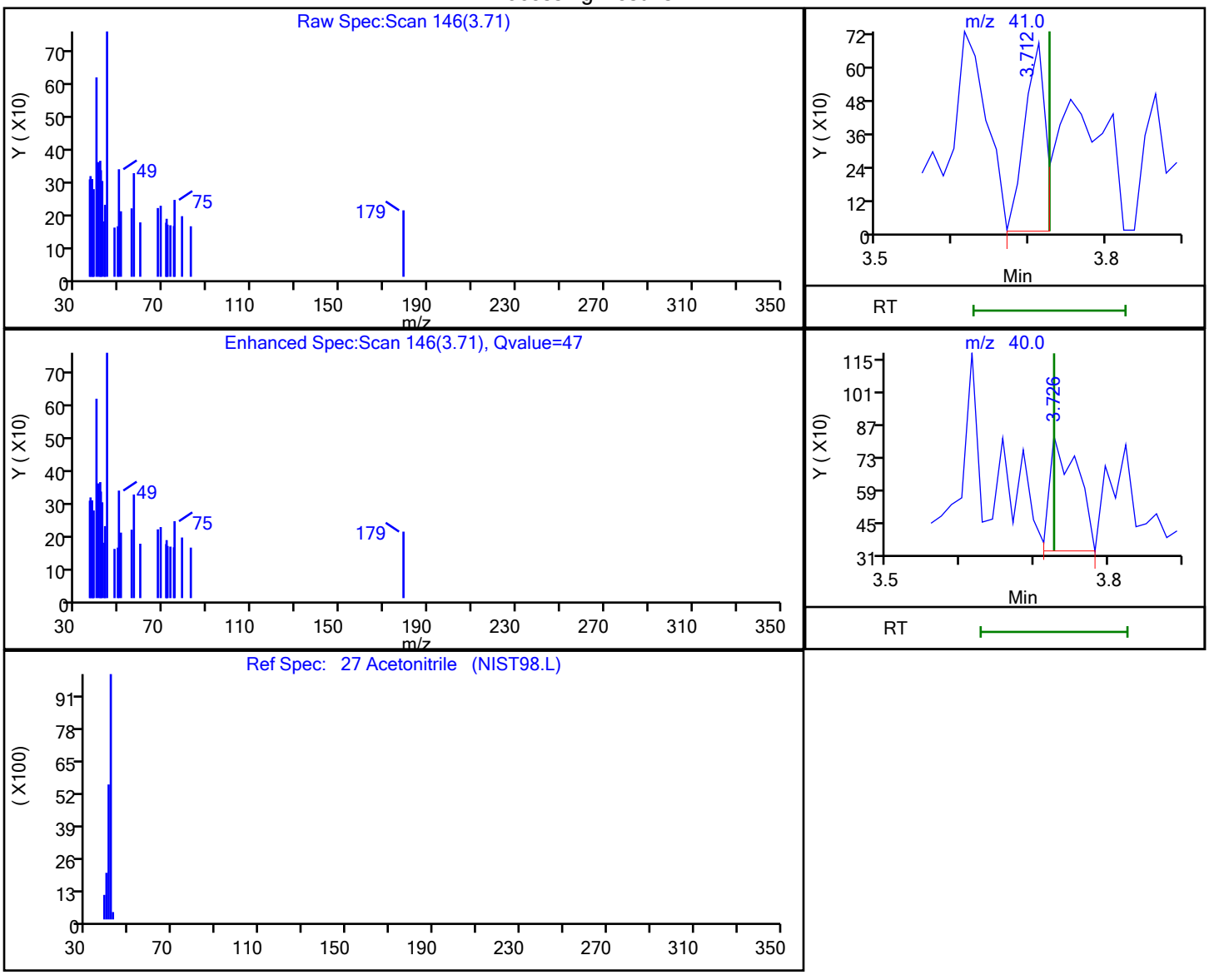
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6116.D				
Injection Date:	02-Jul-2024 12:08:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-8	Lab Sample ID:	280-193176-8		
Client ID:	TB-01-20240620				
Operator ID:	go	ALS Bottle#:	60	Worklist Smp#:	15
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
3.71	41.00	1327	1.321805
3.73	40.00	1304	

Reviewer: Q2ZS, 02-Jul-2024 16:35:45 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-2151H-20240618 | Lab Sample ID: 280-193176-9

Matrix: Water | Lab File ID: P86881.D

Analysis Method: 8260D | Date Collected: 06/18/2024 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:29

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	2.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2151H-20240618 | Lab Sample ID: 280-193176-9

Matrix: Water | Lab File ID: P86881.D

Analysis Method: 8260D | Date Collected: 06/18/2024 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:29

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	3.4		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		1.0	0.14
79-01-6	Trichloroethene	21		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2151H-20240618 | Lab Sample ID: 280-193176-9

Matrix: Water | Lab File ID: P86881.D

Analysis Method: 8260D | Date Collected: 06/18/2024 12:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:29

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.: 658893 | 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)	103		78-120
2037-26-5	Toluene-d8 (Surr)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D
Lims ID: 280-193176-A-9
Client ID: RW-2151H-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 14:29:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-9
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:41:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1226302	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	288303	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	473801	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	324930	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	315871	51.9	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1212728	51.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	376255	51.7	
$ 8 BFB	95	8.539	8.539	0.000	91	376255	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59	2.663	2.657	0.006	84	2202	0.4446	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	79	16630	2.16	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83	4.305	4.305	0.000	91	3022	0.2511	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	97	143840	21.5	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.684	6.679	0.005	92	17625	3.44	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		2.16	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1				0		0.2511	
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		2.16	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

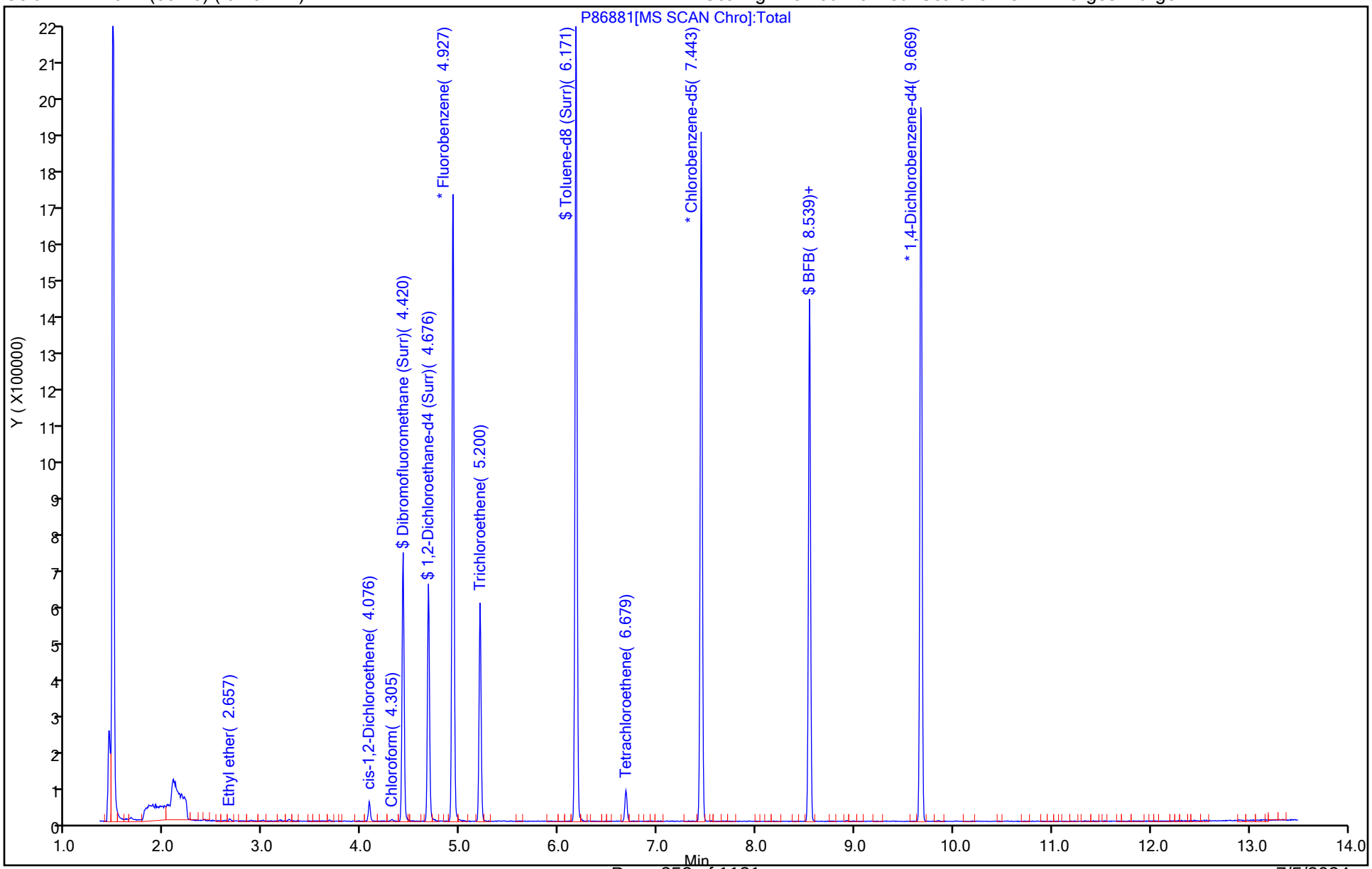
Report Date: 01-Jul-2024 21:50:26 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D

Injection Date:	01-Jul-2024 14:29:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-9	Lab Sample ID:	280-193176-9	Worklist Smp#:	19
Client ID:	RW-2151H-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D				
Lims ID:	280-193176-A-9				
Client ID:	RW-2151H-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 14:29:30	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-9				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

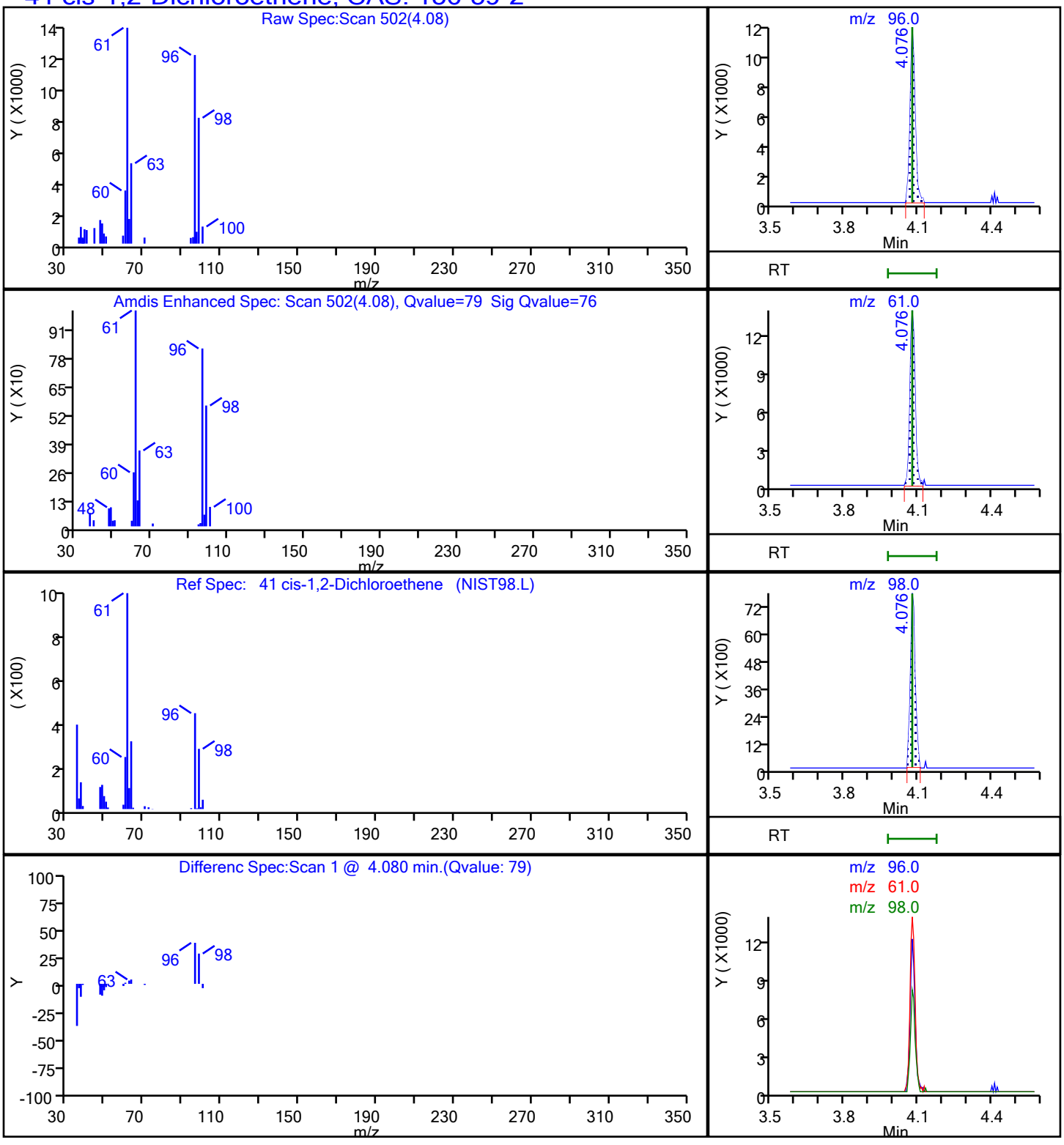
First Level Reviewer: V8PV Date: 01-Jul-2024 21:41:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.9	99.84
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.9	103.83
$ 6 Toluene-d8 (Surr)	50.0	51.9	103.70
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.7	103.41

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D				
Injection Date:	01-Jul-2024 14:29:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-9	Lab Sample ID:	280-193176-9		
Client ID:	RW-2151H-20240618				
Operator ID:	COULTER	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

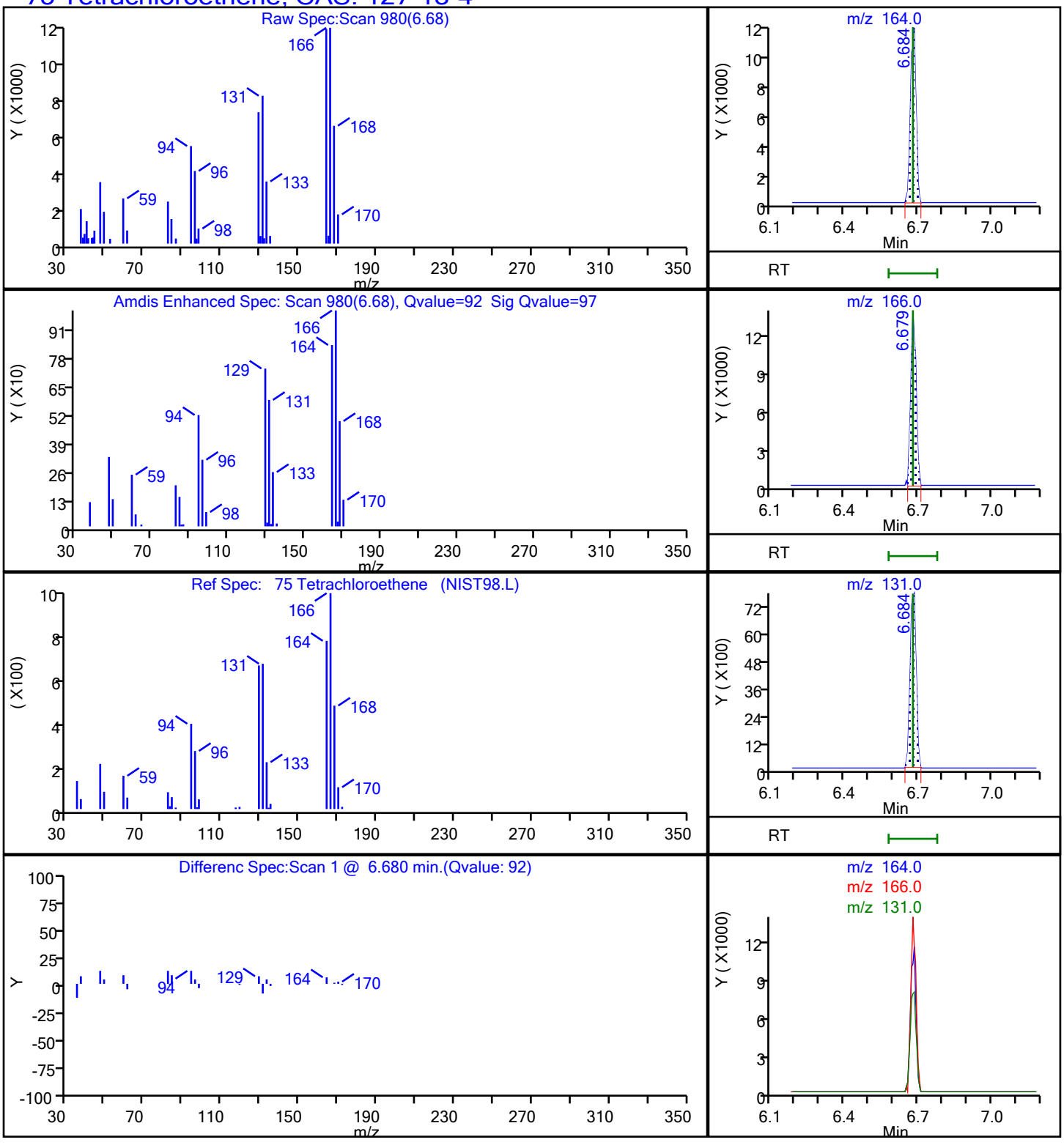
41 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D				
Injection Date:	01-Jul-2024 14:29:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-9	Lab Sample ID:	280-193176-9		
Client ID:	RW-2151H-20240618				
Operator ID:	COULTER	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

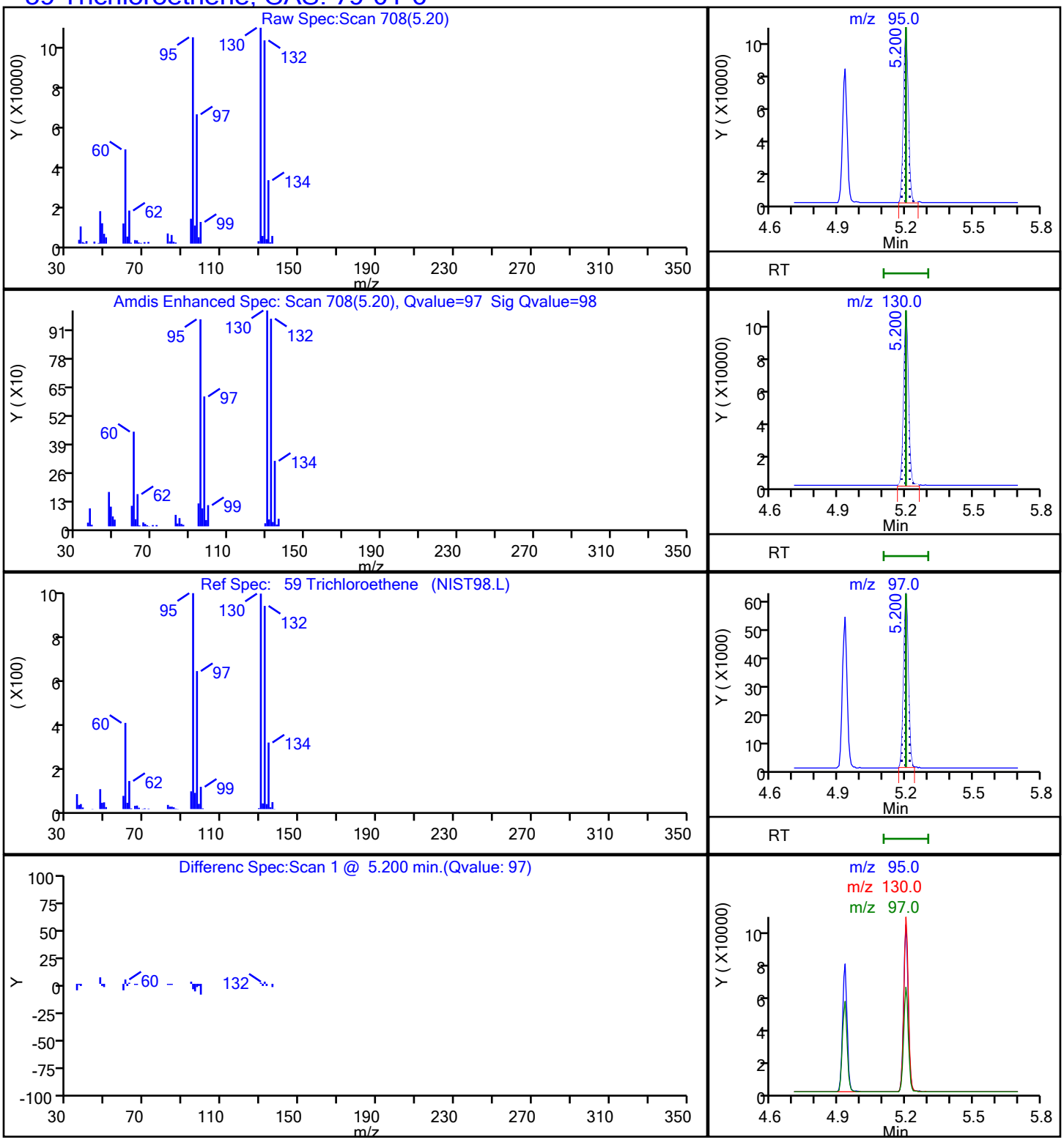
75 Tetrachloroethene, CAS: 127-18-4



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D				
Injection Date:	01-Jul-2024 14:29:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-9	Lab Sample ID:	280-193176-9		
Client ID:	RW-2151H-20240618				
Operator ID:	COULTER	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



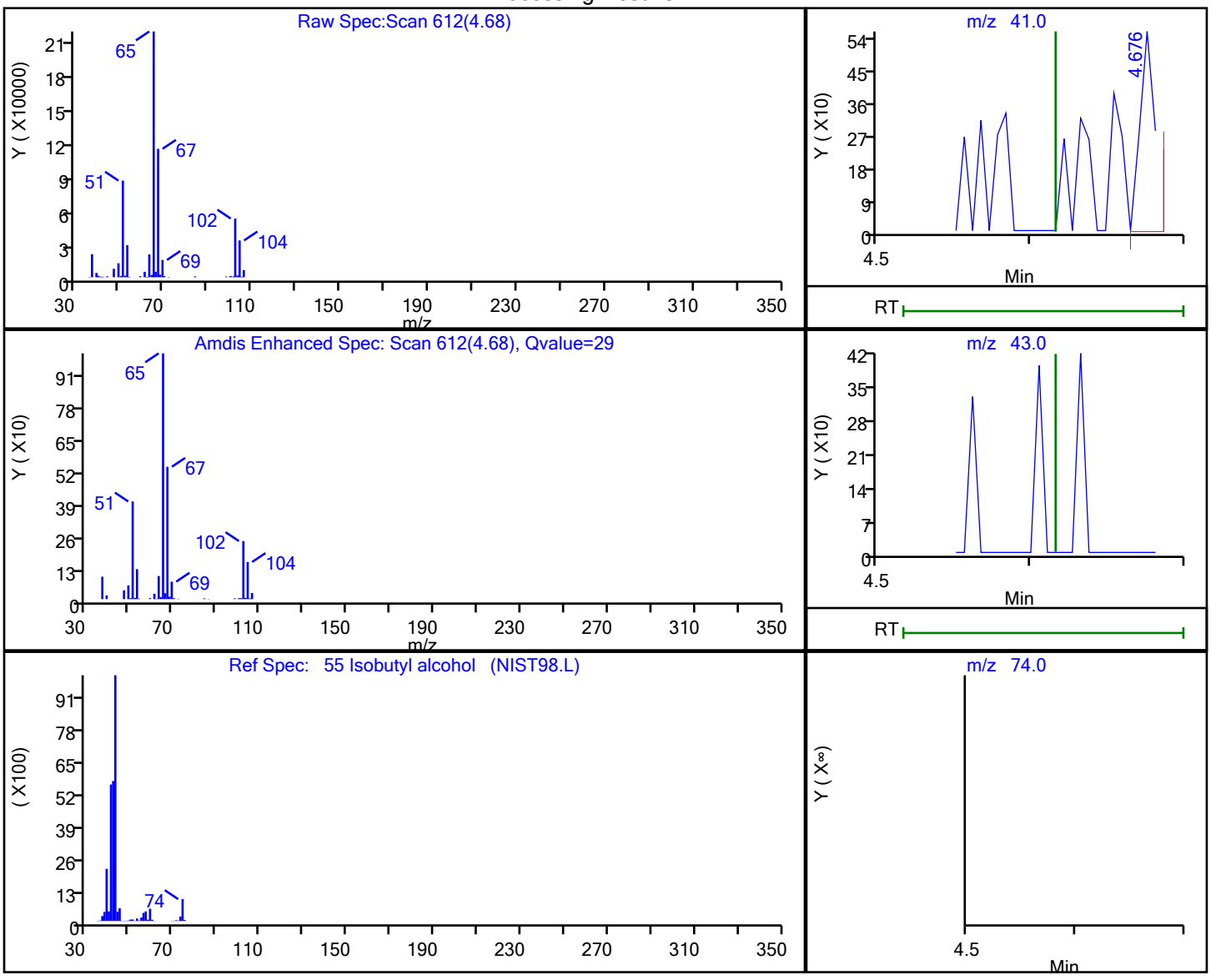
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86881.D				
Injection Date:	01-Jul-2024 14:29:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-9	Lab Sample ID:	280-193176-9		
Client ID:	RW-2151H-20240618				
Operator ID:	COULTER	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	357	2.114305
4.62	43.00	0	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:41:04 -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: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8048P-20240618 | Lab Sample ID: 280-193176-10

Matrix: Water | Lab File ID: P86882.D

Analysis Method: 8260D | Date Collected: 06/18/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:50

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8048P-20240618 | Lab Sample ID: 280-193176-10

Matrix: Water | Lab File ID: P86882.D

Analysis Method: 8260D | Date Collected: 06/18/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:50

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	0.41	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		1.0	0.14
79-01-6	Trichloroethene	2.9		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8048P-20240618 | Lab Sample ID: 280-193176-10

Matrix: Water | Lab File ID: P86882.D

Analysis Method: 8260D | Date Collected: 06/18/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 14:50

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		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_P\20240701-135055.b\P86882.D
Lims ID: 280-193176-C-10
Client ID: RW-8048P-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 14:50:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-c-10
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:41:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1220359	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	283891	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	470426	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	321148	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	307206	50.7	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1198549	52.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	368713	51.0	
$ 8 BFB	95	8.539	8.539	0.000	91	368713	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	U
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96		4.076				ND	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	93	19178	2.91	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.684	6.679	0.005	90	2083	0.4123	M
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026			ND		
86 Styrene	104		8.043			ND		
87 Bromoform	173		8.217			ND		
88 Isopropylbenzene	105		8.370			ND		
89 cis-1,4-Dichloro-2-butene	53		8.408			ND		
90 Cyclohexanone	55		8.485			ND		U
92 1,1,2,2-Tetrachloroethane	83		8.648			ND		
93 trans-1,4-Dichloro-2-butene	53		8.687			ND		
94 Bromobenzene	156		8.687			ND		
95 1,2,3-Trichloropropane	110		8.708			ND		
96 N-Propylbenzene	120		8.768			ND		
97 2-Chlorotoluene	126		8.867			ND		
98 1,3,5-Trimethylbenzene	105		8.943			ND		
99 4-Chlorotoluene	126		8.981			ND		
100 tert-Butylbenzene	119		9.254			ND		
91 Pentachloroethane	167		9.298			ND		
101 1,2,4-Trimethylbenzene	105		9.309			ND		
102 sec-Butylbenzene	134		9.472			ND		
103 1,3-Dichlorobenzene	146		9.598			ND		
104 4-Isopropyltoluene	119		9.620			ND		
105 1,4-Dichlorobenzene	146		9.696			ND		
106 1,2,3-Trimethylbenzene	105		9.718			ND		
107 n-Butylbenzene	91		10.023			ND		
108 1,2-Dichlorobenzene	146		10.056			ND		
109 1,2-Dibromo-3-Chloropropane	157		10.825			ND		
110 1,3,5-Trichlorobenzene	180		11.022			ND		
111 1,2,4-Trichlorobenzene	180		11.660			ND		
112 Hexachlorobutadiene	225		11.813			ND		
113 Naphthalene	128		11.928			ND		
114 1,2,3-Trichlorobenzene	180		12.151			ND		
115 Ethylene oxide TIC	1		0.000			ND		
116 Tetrahydrothiophene TIC	1		0.000			ND		
117 Propene oxide TIC	58		3.357			ND		
S 118 1,2-Dichloroethene, Total (URS)	96		2.000			ND		7
S 119 Xylenes, Total (URS)	1		0.000			ND		7
S 120 Trihalomethanes, Total	1		0.000			ND		7
S 121 TAH	1				0		0	7
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 Total BTEX	1		0.000			ND		7
T 126 Propene TIC	41		1.481			ND		U
T 127 1,3-Butadiene TIC	54		1.807			ND		U
T 128 4-Ethyltoluene TIC	105		8.783			ND		
T 129 Dichloroacetonitrile TIC	66		9.596			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

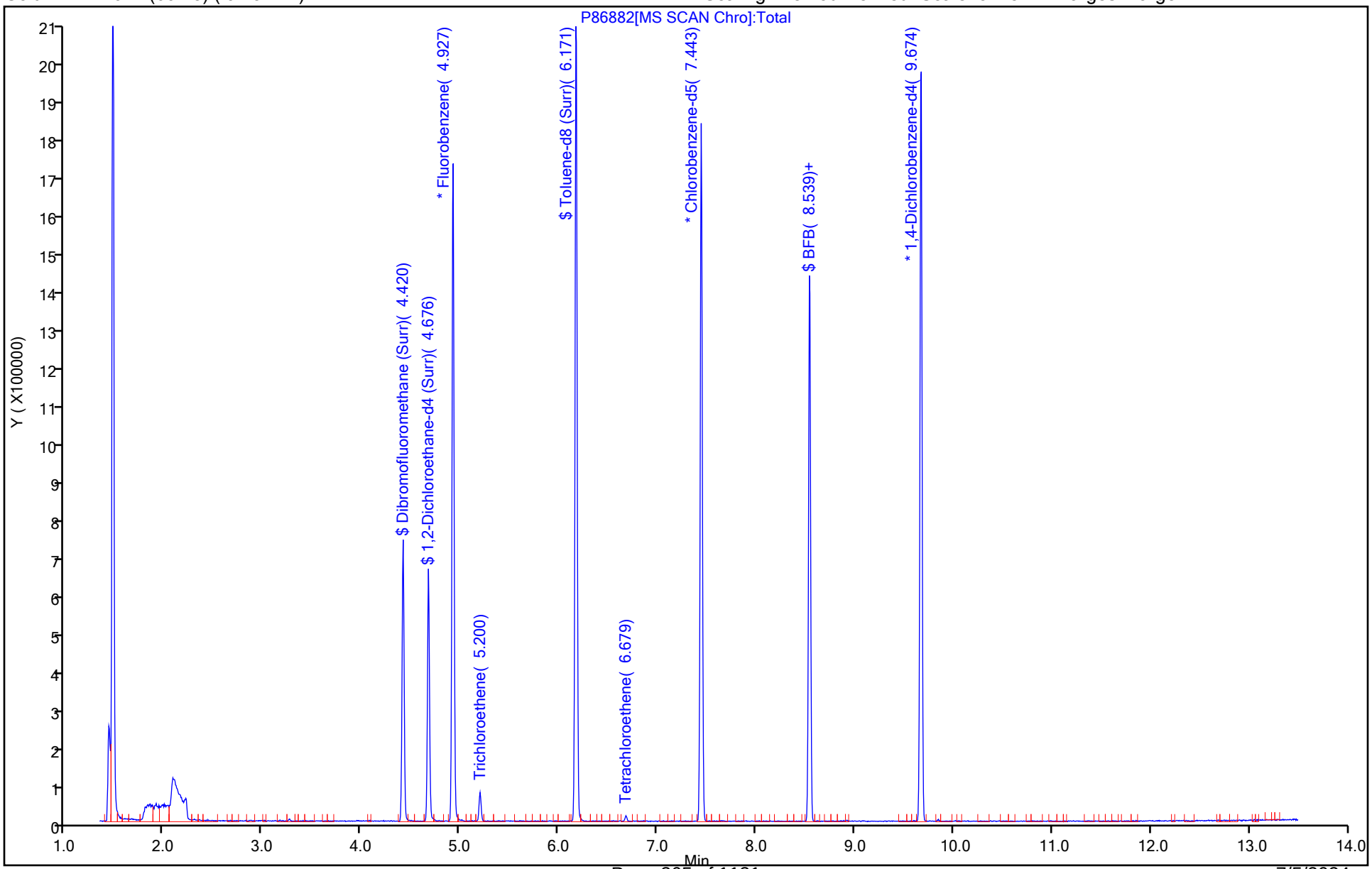
Report Date: 01-Jul-2024 21:50:28 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D

Injection Date:	01-Jul-2024 14:50:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-C-10	Lab Sample ID:	280-193176-10	Worklist Smp#:	20
Client ID:	RW-8048P-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D				
Lims ID:	280-193176-C-10				
Client ID:	RW-8048P-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 14:50:30	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-c-10				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

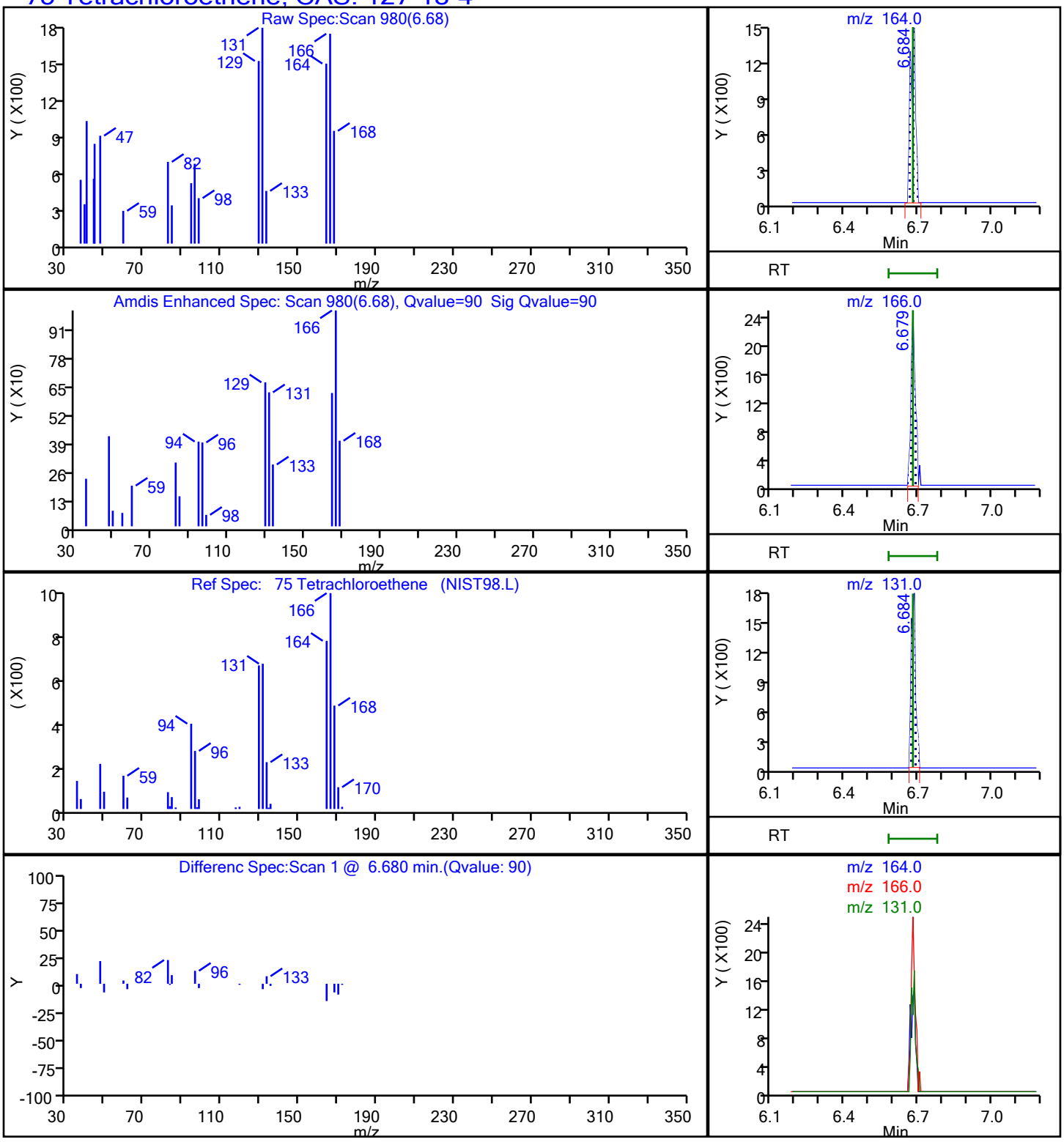
First Level Reviewer: V8PV Date: 01-Jul-2024 21:41:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.16
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.47
$ 6 Toluene-d8 (Surr)	50.0	52.0	104.09
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.0	102.07

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D
Injection Date: 01-Jul-2024 14:50:30 Instrument ID: VMS_P
Lims ID: 280-193176-C-10 Lab Sample ID: 280-193176-10
Client ID: RW-8048P-20240618
Operator ID: COULTER ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

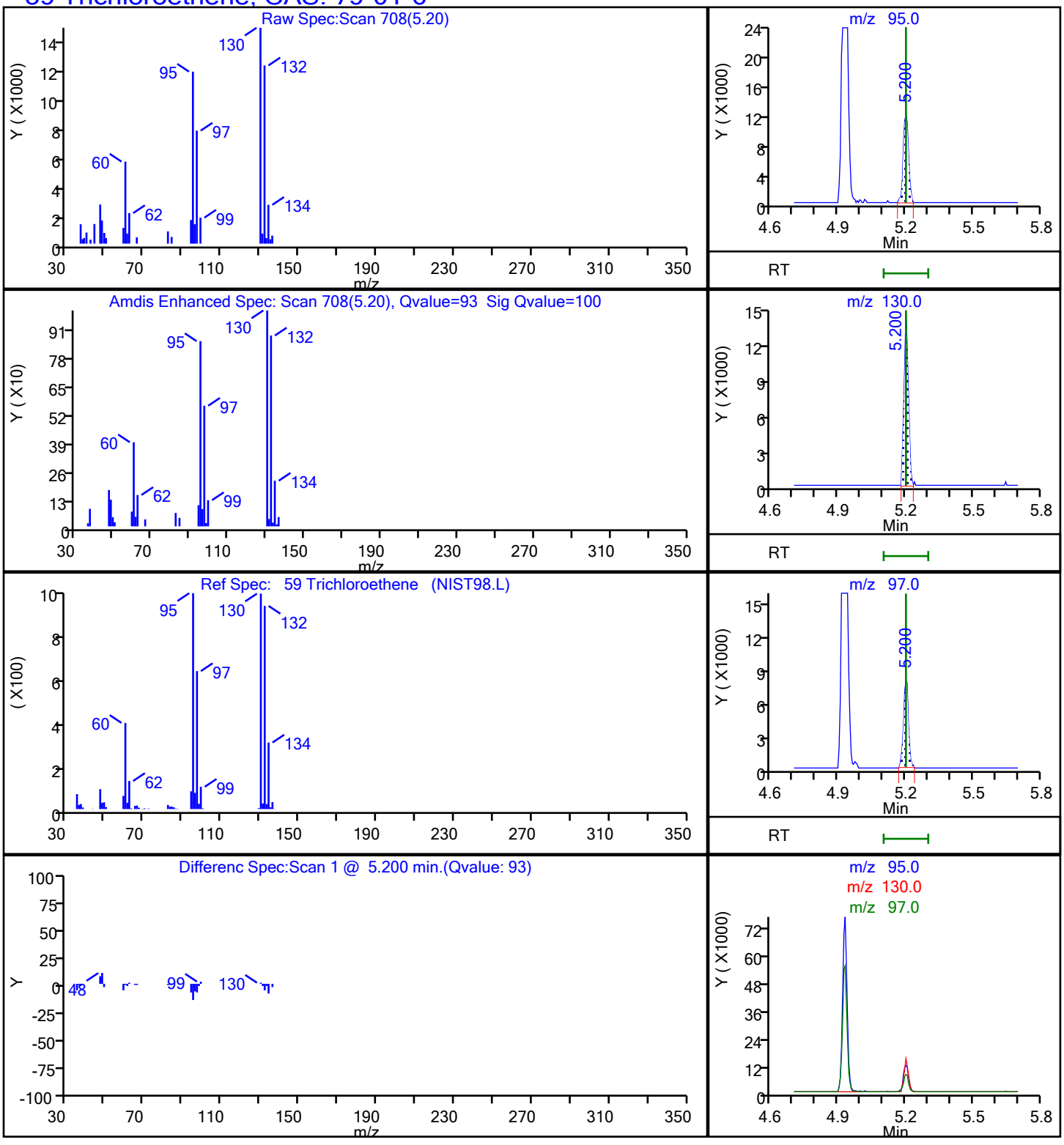
75 Tetrachloroethene, CAS: 127-18-4



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D		
Injection Date:	01-Jul-2024 14:50:30	Instrument ID:	VMS_P
Lims ID:	280-193176-C-10	Lab Sample ID:	280-193176-10
Client ID:	RW-8048P-20240618		
Operator ID:	COULTER	ALS Bottle#:	14 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

59 Trichloroethene, CAS: 79-01-6



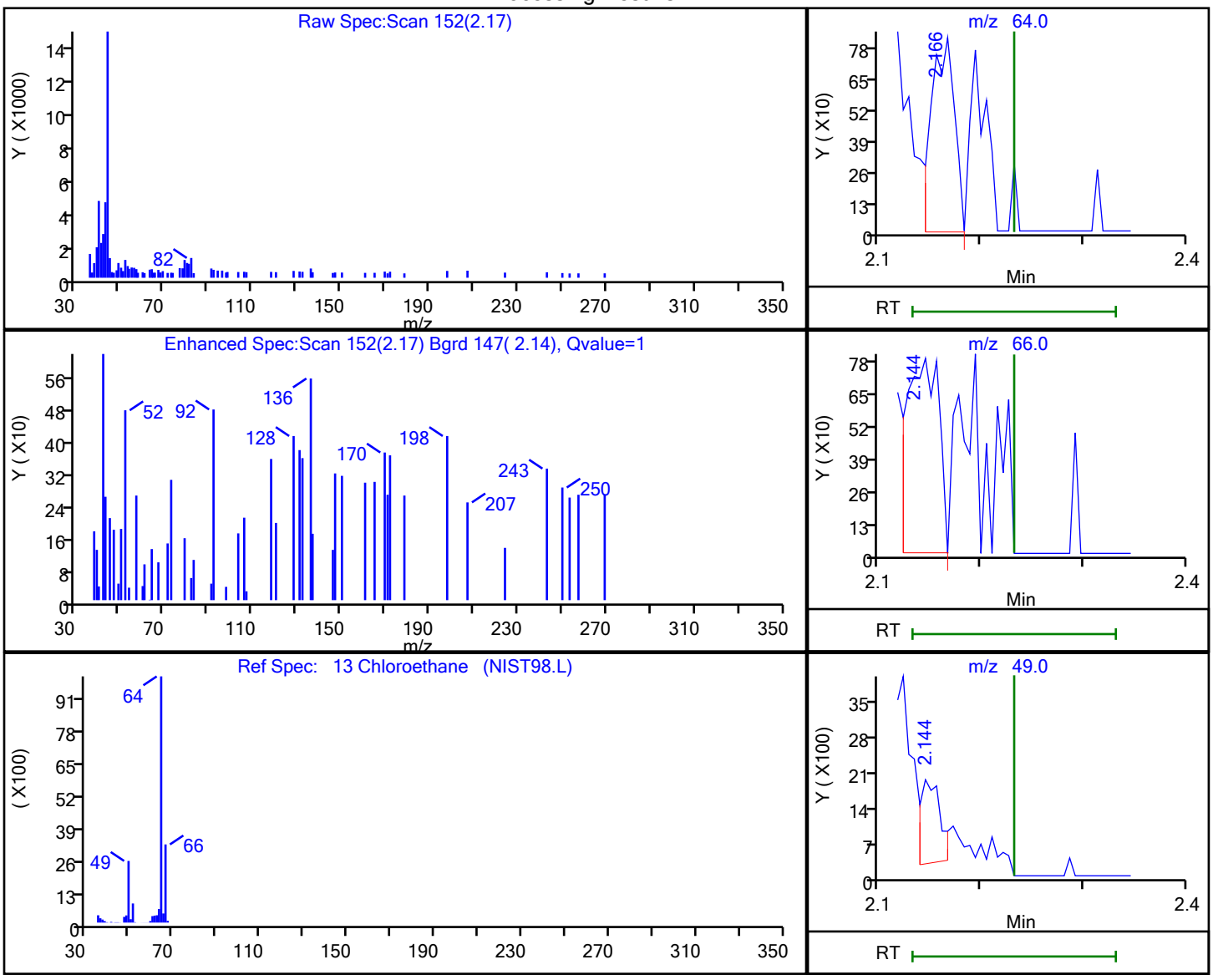
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D				
Injection Date:	01-Jul-2024 14:50:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-C-10	Lab Sample ID:	280-193176-10		
Client ID:	RW-8048P-20240618				
Operator ID:	COULTER	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

13 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.17	64.00	1282	0.108601
2.14	66.00	1737	
2.14	49.00	2291	

Reviewer: V8PV, 01-Jul-2024 21:41:53 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

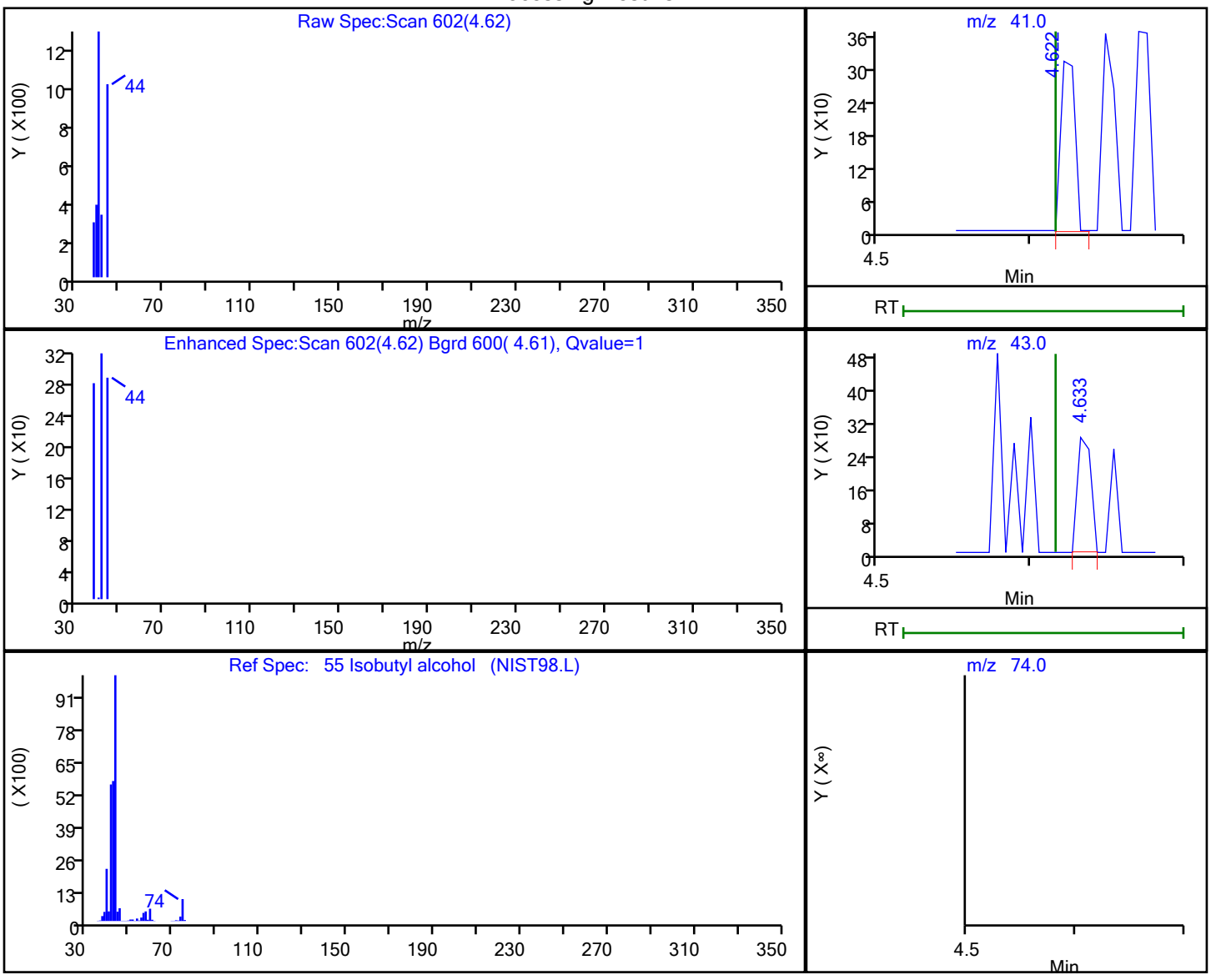
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D				
Injection Date:	01-Jul-2024 14:50:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-C-10	Lab Sample ID:	280-193176-10		
Client ID:	RW-8048P-20240618				
Operator ID:	COULTER	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.62	41.00	202	1.202156
4.63	43.00	173	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:41:49 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Denver

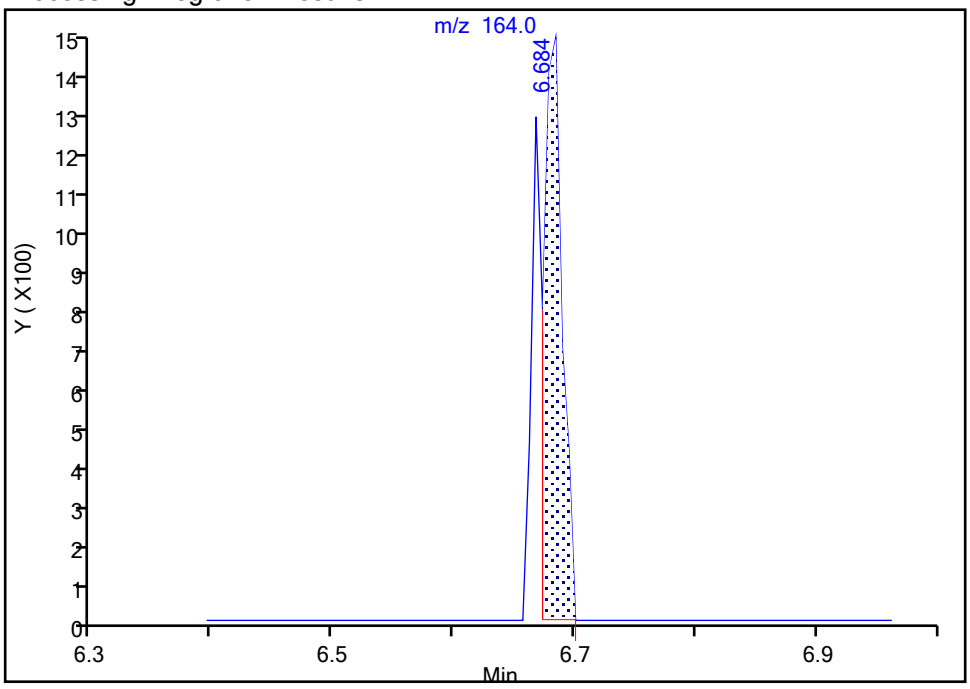
Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86882.D				
Injection Date:	01-Jul-2024 14:50:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-C-10	Lab Sample ID:	280-193176-10		
Client ID:	RW-8048P-20240618				
Operator ID:	COULTER	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

75 Tetrachloroethene, CAS: 127-18-4

Signal: 1

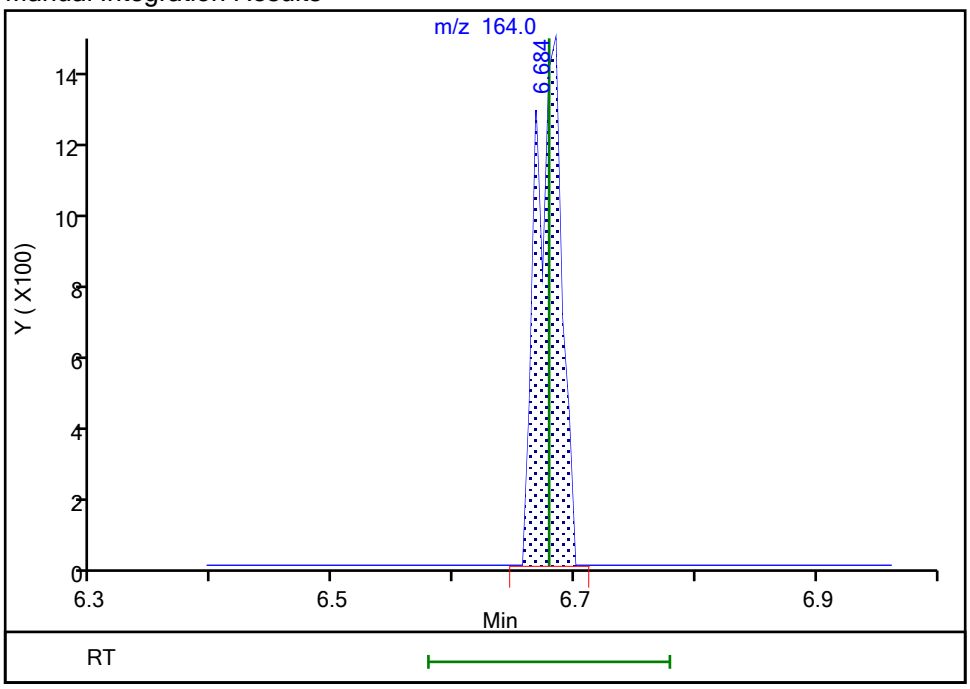
Processing Integration Results

RT: 6.68
Area: 1530
Amount: 0.302854
Amount Units: ug/l



Manual Integration Results

RT: 6.68
Area: 2083
Amount: 0.412317
Amount Units: ug/l



Reviewer: V8PV, 01-Jul-2024 21:41:44 -06:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8030P-20240618 | Lab Sample ID: 280-193176-11

Matrix: Water | Lab File ID: P86883.D

Analysis Method: 8260D | Date Collected: 06/18/2024 16:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:10

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	0.46	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8030P-20240618 | Lab Sample ID: 280-193176-11

Matrix: Water | Lab File ID: P86883.D

Analysis Method: 8260D | Date Collected: 06/18/2024 16:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:10

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	1.0		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		1.0	0.14
79-01-6	Trichloroethene	6.1		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-8030P-20240618 | Lab Sample ID: 280-193176-11

Matrix: Water | Lab File ID: P86883.D

Analysis Method: 8260D | Date Collected: 06/18/2024 16:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:10

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.: 658893 | Units: ug/L

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)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D
Lims ID: 280-193176-A-11
Client ID: RW-8030P-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 15:10:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-11
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:42:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1228994	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	286807	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	473699	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	320341	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	314184	51.5	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1196466	51.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	367506	50.5	
$ 8 BFB	95	8.539	8.539	0.000	91	367506	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	66	3560	0.4617	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95	5.200	5.200	0.000	95	40633	6.10	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164	6.684	6.679	0.005	91	5200	1.02	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026				ND	
86 Styrene	104		8.043				ND	
87 Bromoform	173		8.217				ND	
88 Isopropylbenzene	105		8.370				ND	
89 cis-1,4-Dichloro-2-butene	53		8.408				ND	
90 Cyclohexanone	55		8.485				ND	U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND	
93 trans-1,4-Dichloro-2-butene	53		8.687				ND	
94 Bromobenzene	156		8.687				ND	
95 1,2,3-Trichloropropane	110		8.708				ND	
96 N-Propylbenzene	120		8.768				ND	
97 2-Chlorotoluene	126		8.867				ND	
98 1,3,5-Trimethylbenzene	105		8.943				ND	
99 4-Chlorotoluene	126		8.981				ND	
100 tert-Butylbenzene	119		9.254				ND	
91 Pentachloroethane	167		9.298				ND	
101 1,2,4-Trimethylbenzene	105		9.309				ND	
102 sec-Butylbenzene	134		9.472				ND	
103 1,3-Dichlorobenzene	146		9.598				ND	
104 4-Isopropyltoluene	119		9.620				ND	
105 1,4-Dichlorobenzene	146		9.696				ND	
106 1,2,3-Trimethylbenzene	105		9.718				ND	
107 n-Butylbenzene	91		10.023				ND	
108 1,2-Dichlorobenzene	146		10.056				ND	
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND	
110 1,3,5-Trichlorobenzene	180		11.022				ND	
111 1,2,4-Trichlorobenzene	180		11.660				ND	
112 Hexachlorobutadiene	225		11.813				ND	
113 Naphthalene	128		11.928				ND	
114 1,2,3-Trichlorobenzene	180		12.151				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 Tetrahydrothiophene TIC	1		0.000				ND	
117 Propene oxide TIC	58		3.357				ND	
S 118 1,2-Dichloroethene, Total (URS)	96				0		0.4617	
S 119 Xylenes, Total (URS)	1		0.000				ND	7
S 120 Trihalomethanes, Total	1		0.000				ND	7
S 121 TAH	1				0		0	7
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		0.4617	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Total BTEX	1		0.000				ND	7
T 126 Propene TIC	41		1.481				ND	U
T 127 1,3-Butadiene TIC	54		1.807				ND	U
T 128 4-Ethyltoluene TIC	105		8.783				ND	
T 129 Dichloroacetonitrile TIC	66		9.596				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

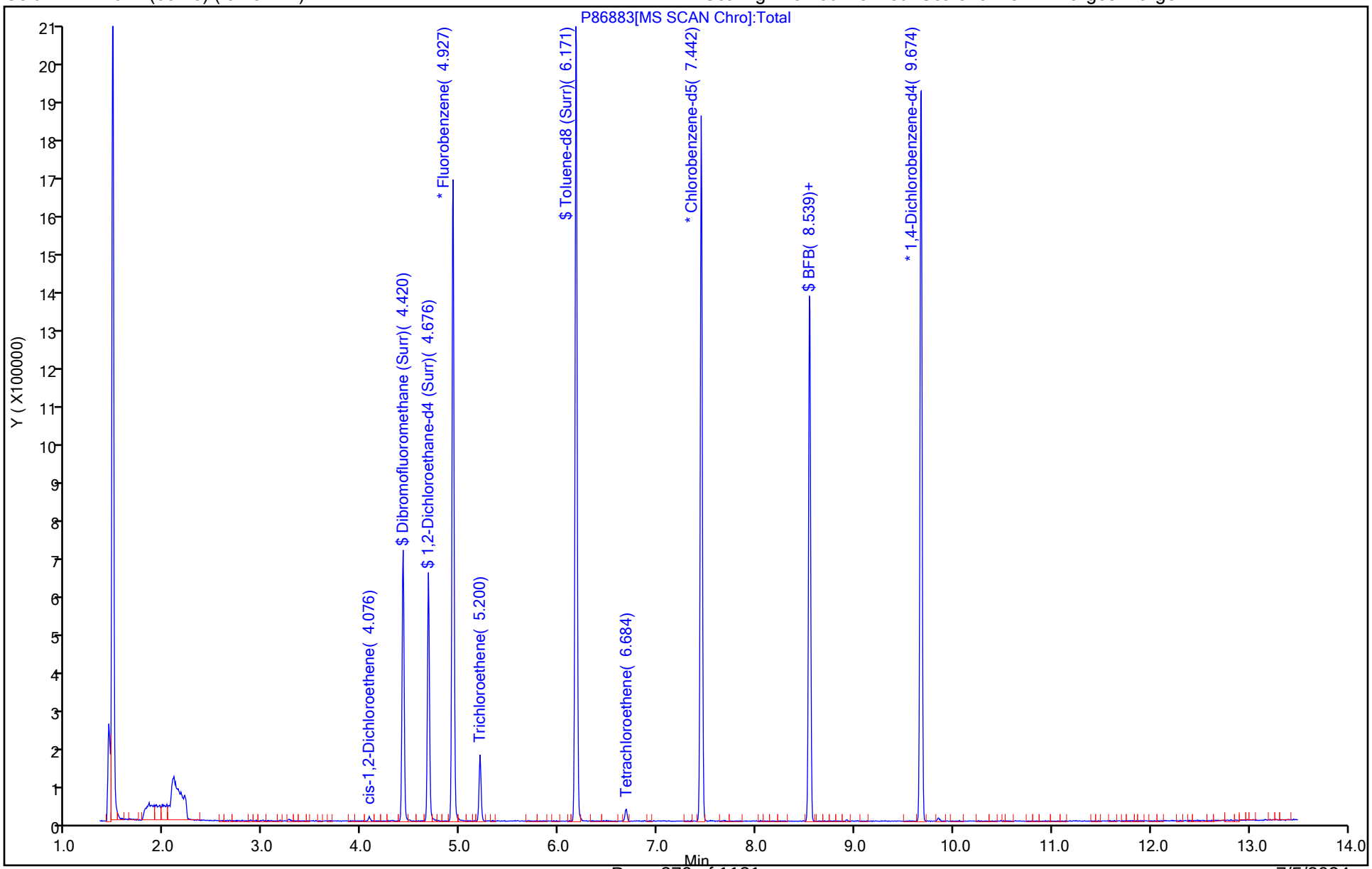
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:30 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D				
Injection Date:	01-Jul-2024 15:10:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-11	Lab Sample ID:	280-193176-11	Worklist Smp#:	21
Client ID:	RW-8030P-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D				
Lims ID:	280-193176-A-11				
Client ID:	RW-8030P-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 15:10:30	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-11				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

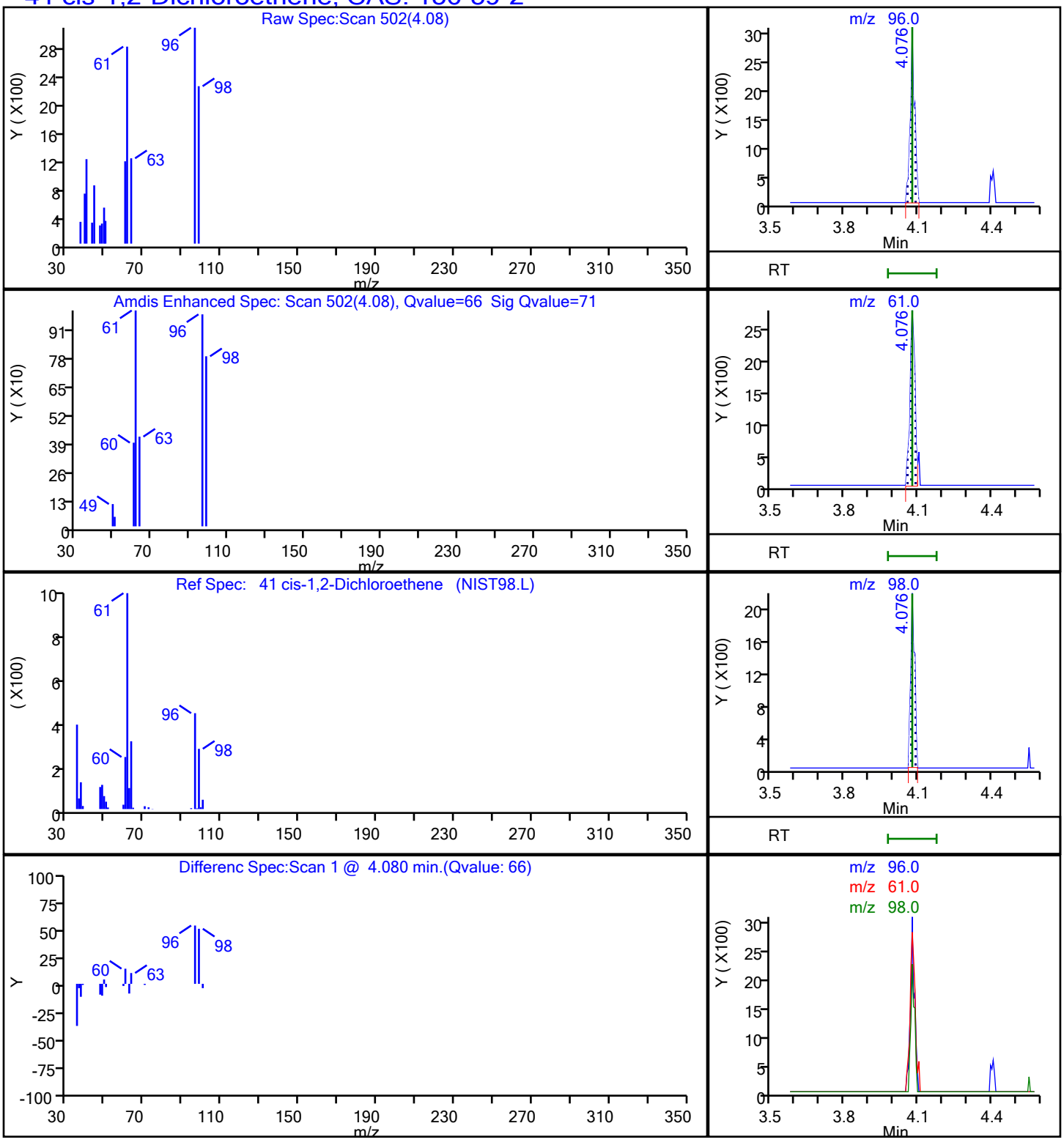
First Level Reviewer: V8PV Date: 01-Jul-2024 21:42:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.21
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	103.05
$ 6 Toluene-d8 (Surr)	50.0	51.4	102.85
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	101.03

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D				
Injection Date:	01-Jul-2024 15:10:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-11	Lab Sample ID:	280-193176-11		
Client ID:	RW-8030P-20240618				
Operator ID:	COULTER	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

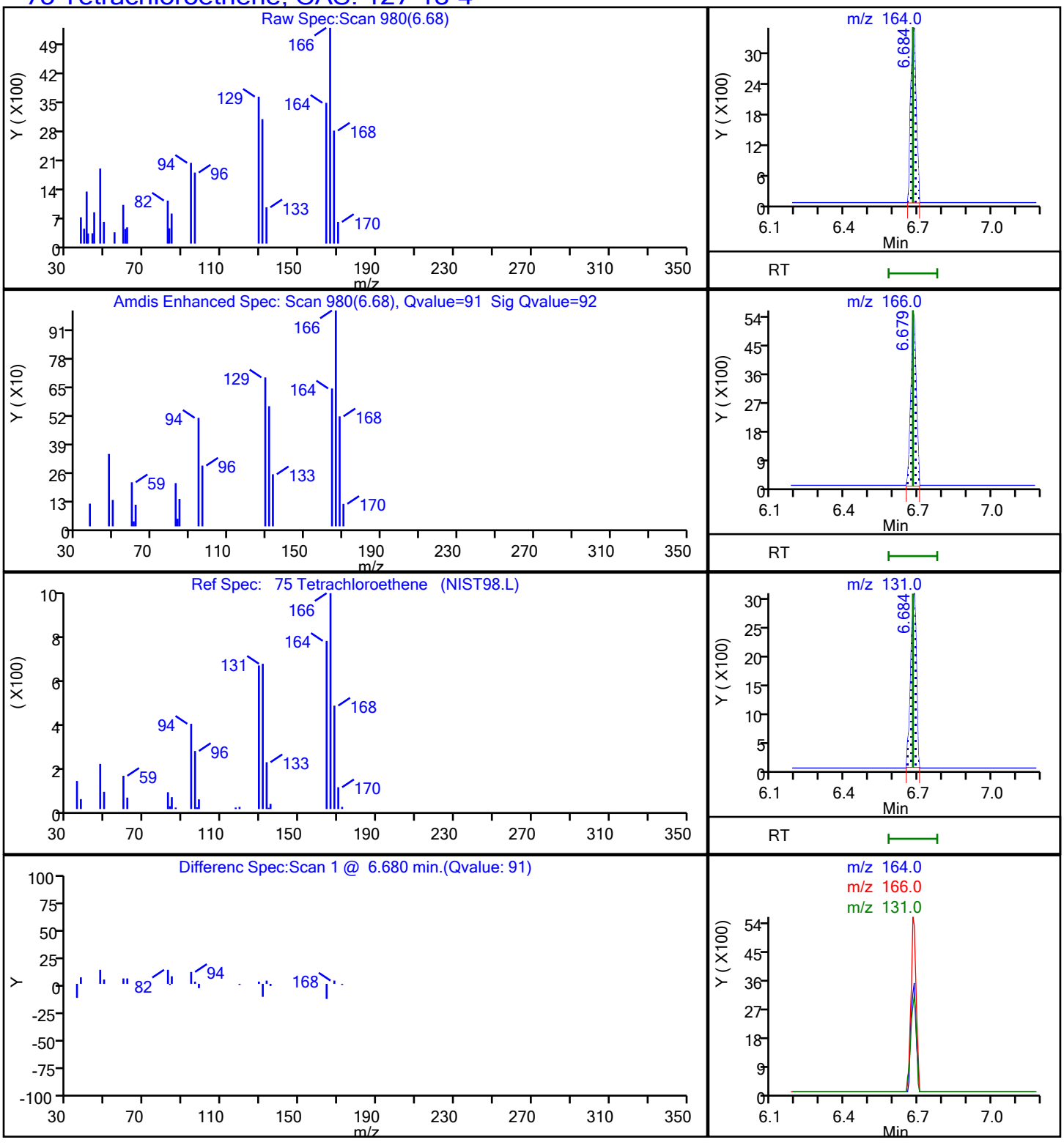
41 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D
Injection Date: 01-Jul-2024 15:10:30 Instrument ID: VMS_P
Lims ID: 280-193176-A-11 Lab Sample ID: 280-193176-11
Client ID: RW-8030P-20240618
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

75 Tetrachloroethene, CAS: 127-18-4



Report Date: 01-Jul-2024 21:50:30 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D

Injection Date: 01-Jul-2024 15:10:30 Instrument ID: VMS_P

Lims ID: 280-193176-A-11 Lab Sample ID: 280-193176-11

Client ID: RW-8030P-20240618

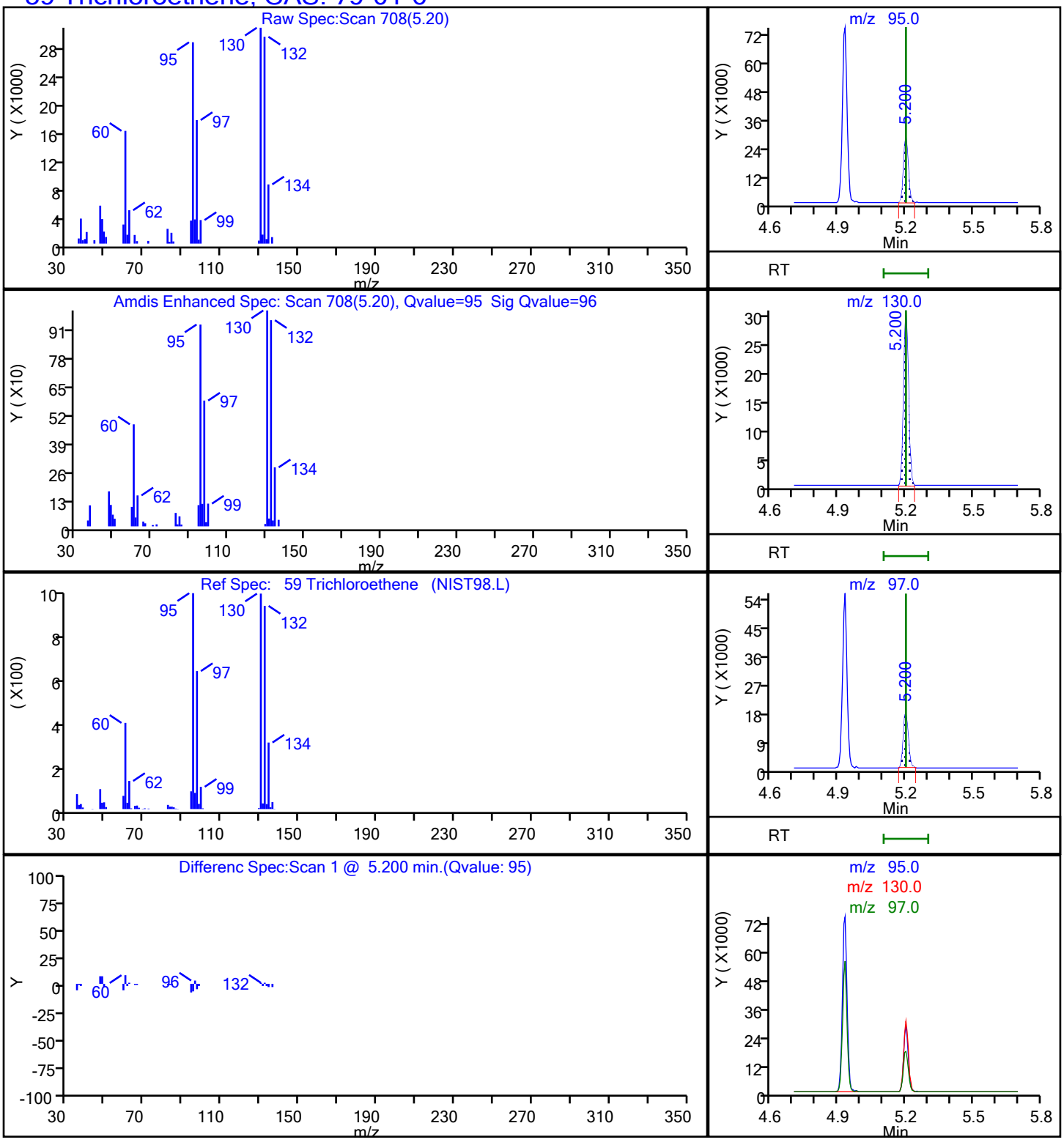
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

59 Trichloroethene, CAS: 79-01-6



7/5/2024
11:14:22 AM

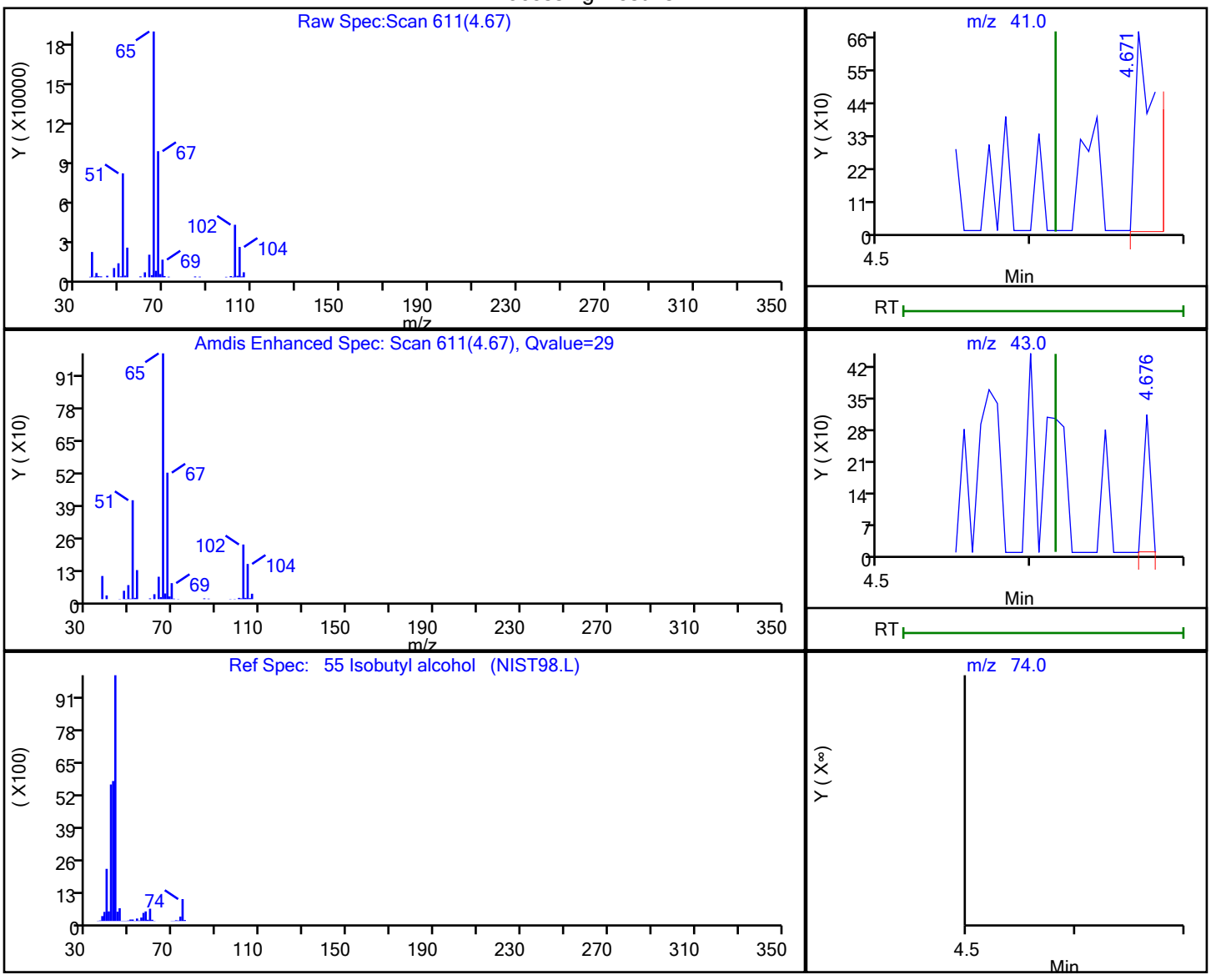
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86883.D				
Injection Date:	01-Jul-2024 15:10:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-11	Lab Sample ID:	280-193176-11		
Client ID:	RW-8030P-20240618				
Operator ID:	COULTER	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.67	41.00	502	2.966545
4.68	43.00	102	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:42:04 -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: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-20240618 | Lab Sample ID: 280-193176-12

Matrix: Water | Lab File ID: P86884.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:31

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-20240618 | Lab Sample ID: 280-193176-12

Matrix: Water | Lab File ID: P86884.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:31

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-20240618 | Lab Sample ID: 280-193176-12

Matrix: Water | Lab File ID: P86884.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:31

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.: 658893 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		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_P\20240701-135055.b\P86884.D
Lims ID: 280-193176-B-12
Client ID: RW-7505P-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 15:31:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-b-12
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:42:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1240887	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	288037	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	483313	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	91	327113	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	314001	51.0	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1213925	52.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	94	374702	50.5	
$ 8 BFB	95	8.539	8.539	0.000	91	374702	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96		4.076				ND	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95		5.200				ND	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164		6.679				ND	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026			ND		
86 Styrene	104		8.043			ND		
87 Bromoform	173		8.217			ND		
88 Isopropylbenzene	105		8.370			ND		
89 cis-1,4-Dichloro-2-butene	53		8.408			ND		
90 Cyclohexanone	55		8.485			ND		
92 1,1,2,2-Tetrachloroethane	83		8.648			ND		
93 trans-1,4-Dichloro-2-butene	53		8.687			ND		
94 Bromobenzene	156		8.687			ND		
95 1,2,3-Trichloropropane	110		8.708			ND		
96 N-Propylbenzene	120		8.768			ND		
97 2-Chlorotoluene	126		8.867			ND		
98 1,3,5-Trimethylbenzene	105		8.943			ND		
99 4-Chlorotoluene	126		8.981			ND		
100 tert-Butylbenzene	119		9.254			ND		
91 Pentachloroethane	167		9.298			ND		
101 1,2,4-Trimethylbenzene	105		9.309			ND		
102 sec-Butylbenzene	134		9.472			ND		
103 1,3-Dichlorobenzene	146		9.598			ND		
104 4-Isopropyltoluene	119		9.620			ND		
105 1,4-Dichlorobenzene	146		9.696			ND		
106 1,2,3-Trimethylbenzene	105		9.718			ND		
107 n-Butylbenzene	91		10.023			ND		
108 1,2-Dichlorobenzene	146		10.056			ND		
109 1,2-Dibromo-3-Chloropropane	157		10.825			ND		
110 1,3,5-Trichlorobenzene	180		11.022			ND		
111 1,2,4-Trichlorobenzene	180		11.660			ND		
112 Hexachlorobutadiene	225		11.813			ND		
113 Naphthalene	128		11.928			ND		
114 1,2,3-Trichlorobenzene	180		12.151			ND		
115 Ethylene oxide TIC	1		0.000			ND		
116 Tetrahydrothiophene TIC	1		0.000			ND		
117 Propene oxide TIC	58		3.357			ND		
S 118 1,2-Dichloroethene, Total (URS)	96		2.000			ND		7
S 119 Xylenes, Total (URS)	1		0.000			ND		7
S 120 Trihalomethanes, Total	1		0.000			ND		7
S 121 TAH	1				0		0	7
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 Total BTEX	1		0.000			ND		7
T 126 Propene TIC	41		1.481			ND		U
T 127 1,3-Butadiene TIC	54		1.807			ND		U
T 128 4-Ethyltoluene TIC	105		8.783			ND		
T 129 Dichloroacetonitrile TIC	66		9.596			ND		

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

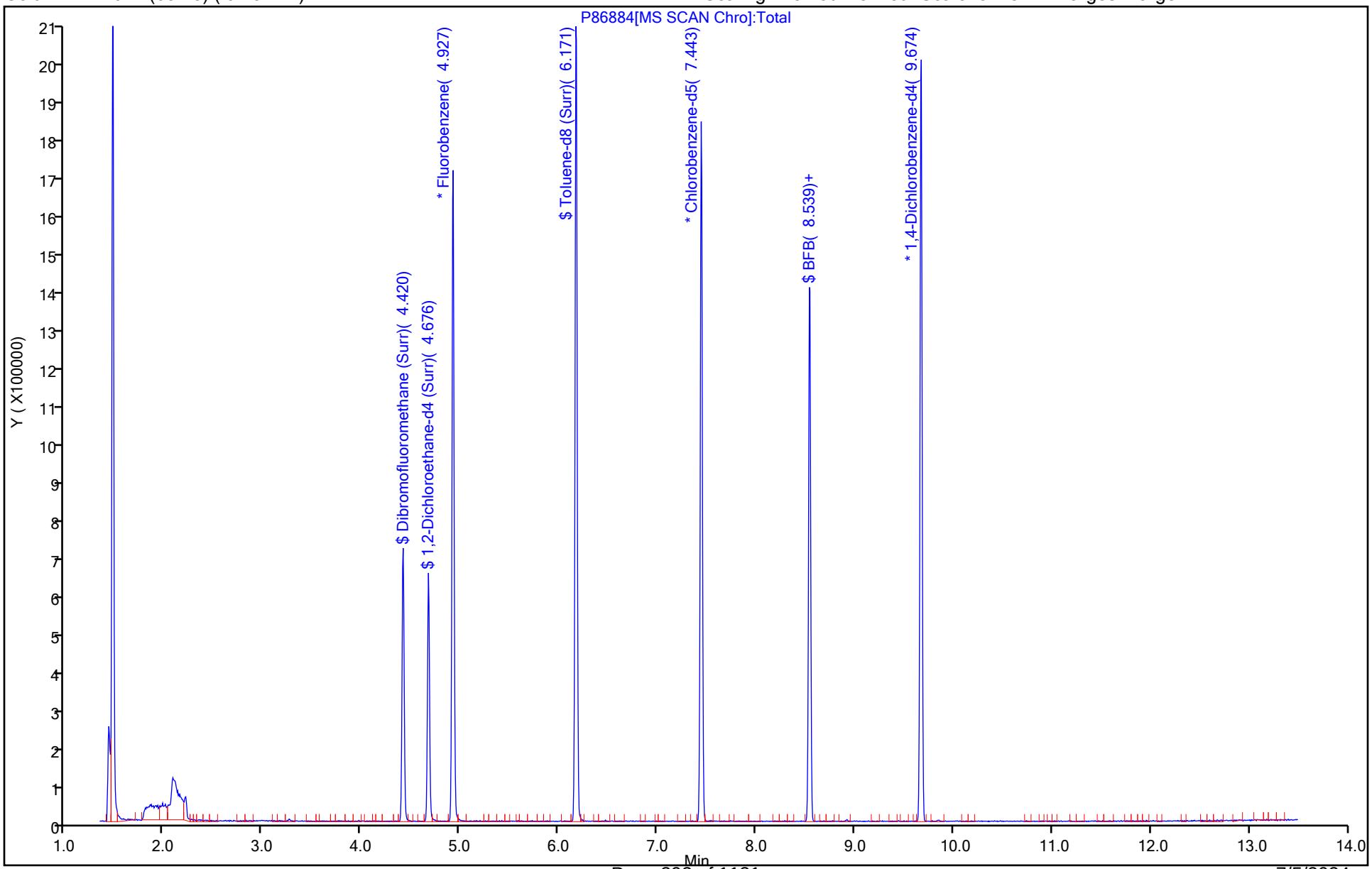
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:31 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86884.D				
Injection Date:	01-Jul-2024 15:31:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-B-12	Lab Sample ID:	280-193176-12	Worklist Smp#:	22
Client ID:	RW-7505P-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86884.D				
Lims ID:	280-193176-B-12				
Client ID:	RW-7505P-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 15:31:30	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-b-12				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

First Level Reviewer: V8PV Date: 01-Jul-2024 21:42:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.7	99.33
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.00
$ 6 Toluene-d8 (Surr)	50.0	52.0	103.90
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	100.96

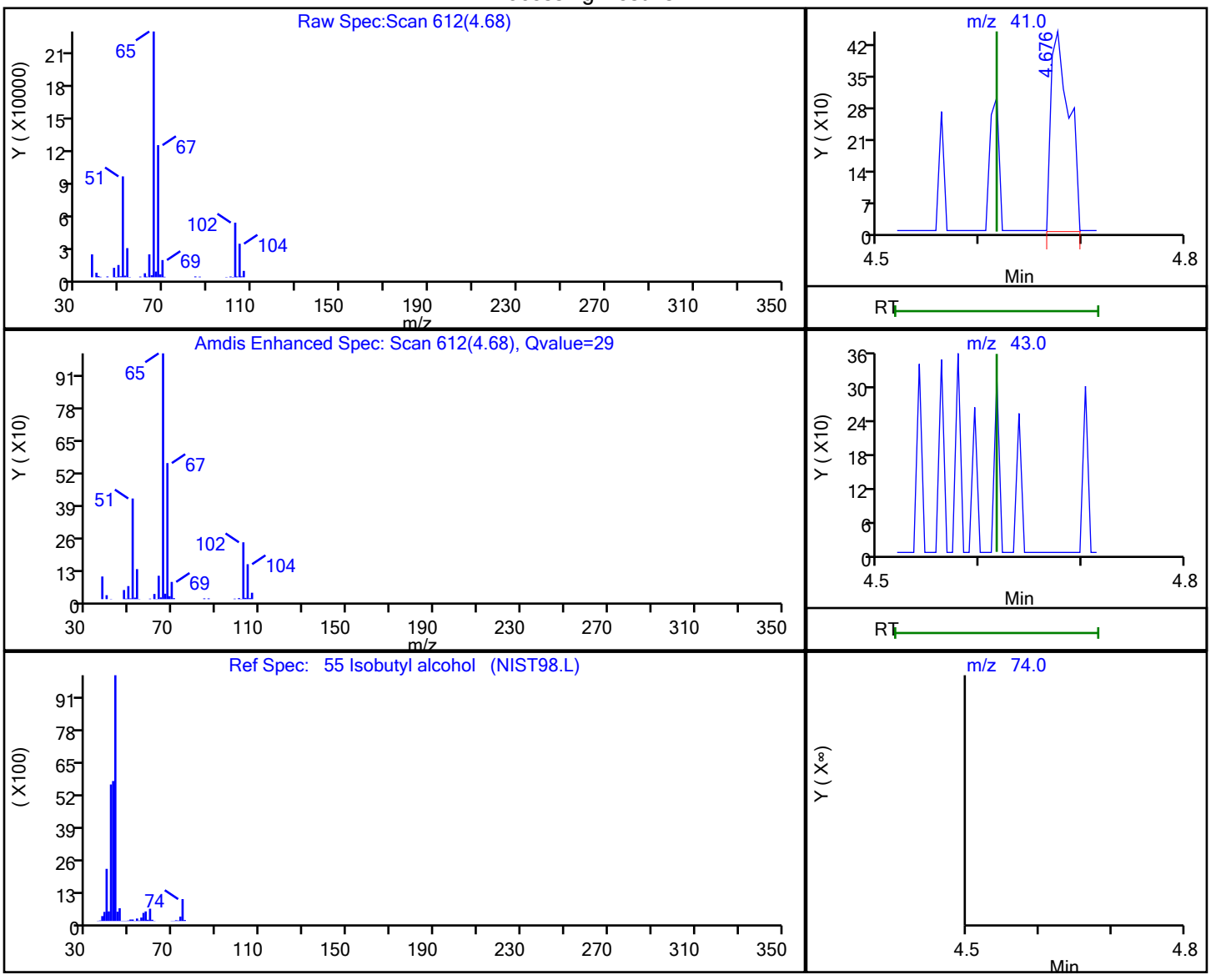
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86884.D				
Injection Date:	01-Jul-2024 15:31:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-B-12	Lab Sample ID:	280-193176-12		
Client ID:	RW-7505P-20240618				
Operator ID:	COULTER	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	549	3.213195
4.62	43.00	0	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:42:34 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-Q-20240618 | Lab Sample ID: 280-193176-13

Matrix: Water | Lab File ID: P86885.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:51

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND	*+	5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND	*+	2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-Q-20240618 | Lab Sample ID: 280-193176-13

Matrix: Water | Lab File ID: P86885.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:51

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-7505P-Q-20240618 | Lab Sample ID: 280-193176-13

Matrix: Water | Lab File ID: P86885.D

Analysis Method: 8260D | Date Collected: 06/18/2024 17:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 15:51

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.: 658893 | Units: ug/L

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)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86885.D
Lims ID: 280-193176-A-13
Client ID: RW-7505P-Q-20240618
Sample Type: Client
Inject. Date: 01-Jul-2024 15:51:30 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-13
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:43:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1245053	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	289455	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	476104	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	330972	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	319283	51.7	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	93	1220055	52.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	370395	50.7	
$ 8 BFB	95	8.539	8.539	0.000	91	370395	NR	
9 Dichlorodifluoromethane	85		1.626				ND	
10 Chloromethane	50		1.806				ND	
11 Vinyl chloride	62		1.882				ND	
12 Bromomethane	94		2.150				ND	7
13 Chloroethane	64		2.232				ND	
14 Dichlorofluoromethane	67		2.395				ND	
15 Trichlorofluoromethane	101		2.434				ND	
16 Ethanol	45		2.592				ND	
17 Ethyl ether	59		2.657				ND	
18 Acrolein	56		2.750				ND	
19 1,1-Dichloroethene	96		2.821				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821				ND	
21 Acetone	43		2.865				ND	
23 Iodomethane	142		2.936				ND	
22 Isopropyl alcohol	45		2.974				ND	
24 Carbon disulfide	76		2.996				ND	7
27 Acetonitrile	41		3.050				ND	
26 3-Chloro-1-propene	41		3.077				ND	
25 Methyl acetate	43		3.083				ND	
28 Methylene Chloride	84		3.170				ND	
29 2-Methyl-2-propanol	59		3.263				ND	
30 Acrylonitrile	53		3.328				ND	
32 trans-1,2-Dichloroethene	96		3.367				ND	
31 Methyl tert-butyl ether	73		3.383				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.552				ND	
34 Vinyl acetate	43		3.667				ND	
36 1,1-Dichloroethane	63		3.672				ND	
35 Isopropyl ether	87		3.699				ND	
37 2-Chloro-1,3-butadiene	53		3.727				ND	
38 Tert-butyl ethyl ether	59		3.956				ND	
39 2-Butanone (MEK)	43		4.076				ND	
41 cis-1,2-Dichloroethene	96		4.076				ND	
42 2,2-Dichloropropane	77		4.081				ND	
40 Ethyl acetate	43		4.098				ND	
43 Propionitrile	54		4.103				ND	
44 sec-Butyl Alcohol	45		4.207				ND	
45 Methacrylonitrile	41		4.212				ND	
46 Chlorobromomethane	128		4.245				ND	
48 Chloroform	83		4.305				ND	
47 Tetrahydrofuran	42		4.311				ND	
49 1,1,1-Trichloroethane	97		4.452				ND	
50 Cyclohexane	56		4.512				ND	
51 1,1-Dichloropropene	75		4.562				ND	
52 Carbon tetrachloride	117		4.572				ND	
55 Isobutyl alcohol	41		4.616				ND	U
53 Benzene	78		4.714				ND	
54 1,2-Dichloroethane	62		4.731				ND	
56 Tert-amyl methyl ether	73		4.812				ND	
57 n-Heptane	43		4.900				ND	
58 n-Butanol	56		5.113				ND	
59 Trichloroethene	95		5.200				ND	
60 2-Pentanone	43		5.320				ND	
61 Methylcyclohexane	55		5.391				ND	
62 1,2-Dichloropropane	63		5.391				ND	
63 Methyl methacrylate	100		5.429				ND	
65 Dibromomethane	93		5.467				ND	
64 1,4-Dioxane	88		5.489				ND	
66 Dichlorobromomethane	83		5.587				ND	
67 2-Nitropropane	41		5.751				ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	
69 cis-1,3-Dichloropropene	75		5.942				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062				ND	
71 Toluene	91		6.231				ND	
72 trans-1,3-Dichloropropene	75		6.400				ND	
73 Ethyl methacrylate	69		6.449				ND	
74 1,1,2-Trichloroethane	97		6.569				ND	
75 Tetrachloroethene	164		6.679				ND	
76 1,3-Dichloropropane	76		6.717				ND	
77 2-Hexanone	43		6.766				ND	
78 Chlorodibromomethane	129		6.913				ND	
79 Ethylene Dibromide	107		7.028				ND	
80 1-Chlorohexane	91		7.426				ND	U
81 Chlorobenzene	112		7.470				ND	
82 1,1,1,2-Tetrachloroethane	131		7.541				ND	
83 Ethylbenzene	106		7.552				ND	
84 m-Xylene & p-Xylene	106		7.666				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.026			ND		
86 Styrene	104		8.043			ND		
87 Bromoform	173		8.217			ND		
88 Isopropylbenzene	105		8.370			ND		
89 cis-1,4-Dichloro-2-butene	53		8.408			ND		
90 Cyclohexanone	55		8.485			ND		U
92 1,1,2,2-Tetrachloroethane	83		8.648			ND		
93 trans-1,4-Dichloro-2-butene	53		8.687			ND		
94 Bromobenzene	156		8.687			ND		
95 1,2,3-Trichloropropane	110		8.708			ND		
96 N-Propylbenzene	120		8.768			ND		
97 2-Chlorotoluene	126		8.867			ND		
98 1,3,5-Trimethylbenzene	105		8.943			ND		
99 4-Chlorotoluene	126		8.981			ND		
100 tert-Butylbenzene	119		9.254			ND		
91 Pentachloroethane	167		9.298			ND		
101 1,2,4-Trimethylbenzene	105		9.309			ND		
102 sec-Butylbenzene	134		9.472			ND		
103 1,3-Dichlorobenzene	146		9.598			ND		
104 4-Isopropyltoluene	119		9.620			ND		
105 1,4-Dichlorobenzene	146		9.696			ND		
106 1,2,3-Trimethylbenzene	105		9.718			ND		
107 n-Butylbenzene	91		10.023			ND		
108 1,2-Dichlorobenzene	146		10.056			ND		
109 1,2-Dibromo-3-Chloropropane	157		10.825			ND		
110 1,3,5-Trichlorobenzene	180		11.022			ND		
111 1,2,4-Trichlorobenzene	180		11.660			ND		
112 Hexachlorobutadiene	225		11.813			ND		
113 Naphthalene	128		11.928			ND		
114 1,2,3-Trichlorobenzene	180		12.151			ND		
115 Ethylene oxide TIC	1		0.000			ND		
116 Tetrahydrothiophene TIC	1		0.000			ND		
117 Propene oxide TIC	58		3.357			ND		
S 118 1,2-Dichloroethene, Total (URS)	96		2.000			ND		7
S 119 Xylenes, Total (URS)	1		0.000			ND		7
S 120 Trihalomethanes, Total	1		0.000			ND		7
S 121 TAH	1				0		0	7
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 Total BTEX	1		0.000			ND		7
T 126 Propene TIC	41		1.481			ND		U
T 127 1,3-Butadiene TIC	54		1.807			ND		U
T 128 4-Ethyltoluene TIC	105		8.783			ND		
T 129 Dichloroacetonitrile TIC	66		9.596			ND		U

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

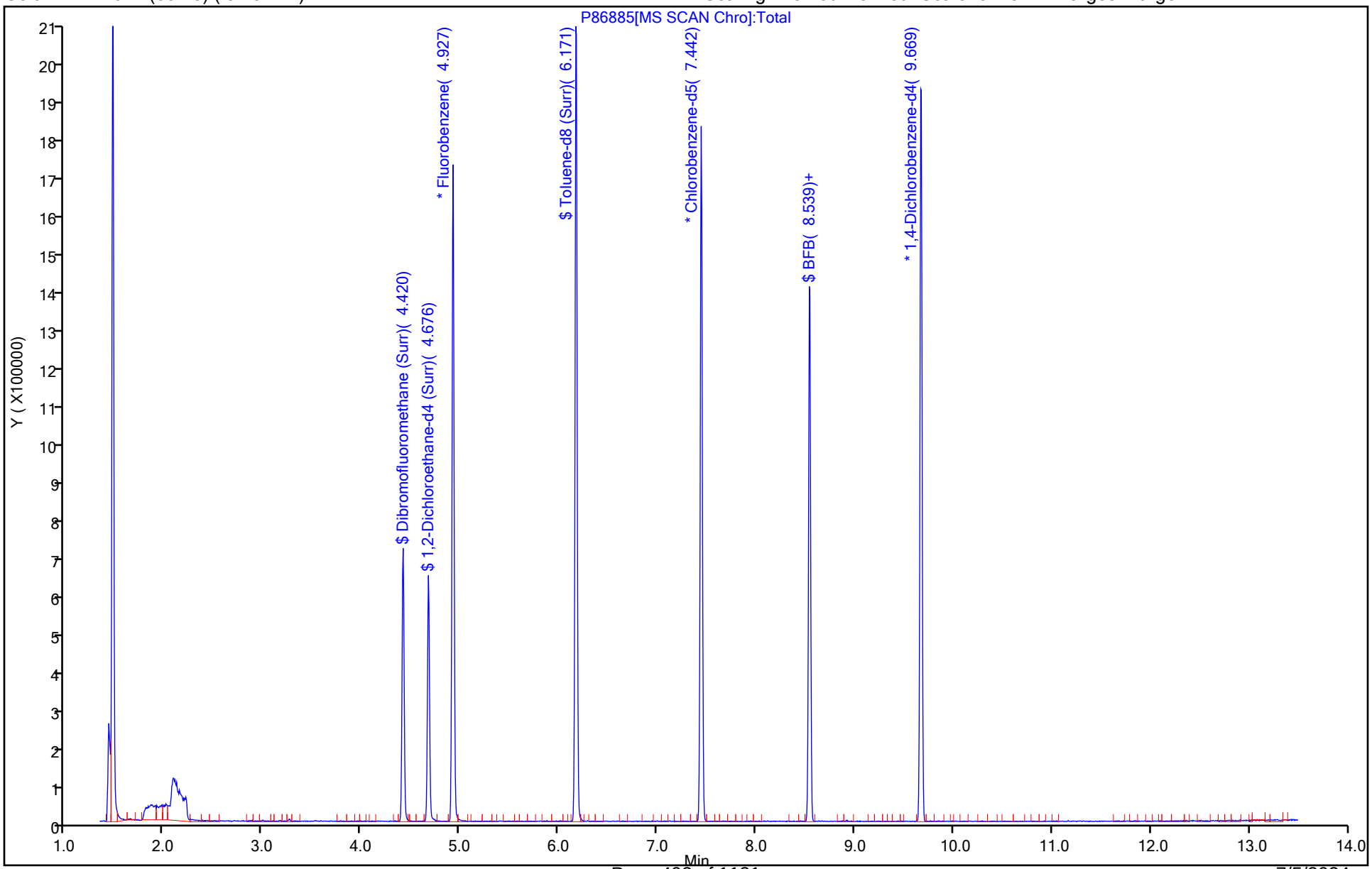
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2024 21:50:33 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86885.D				
Injection Date:	01-Jul-2024 15:51:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-13	Lab Sample ID:	280-193176-13	Worklist Smp#:	23
Client ID:	RW-7505P-Q-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86885.D				
Lims ID:	280-193176-A-13				
Client ID:	RW-7505P-Q-20240618				
Sample Type:	Client				
Inject. Date:	01-Jul-2024 15:51:30	ALS Bottle#:	17	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-13				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

First Level Reviewer: V8PV Date: 01-Jul-2024 21:43:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.1	100.16
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.37
$ 6 Toluene-d8 (Surr)	50.0	52.0	103.92
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.7	101.31

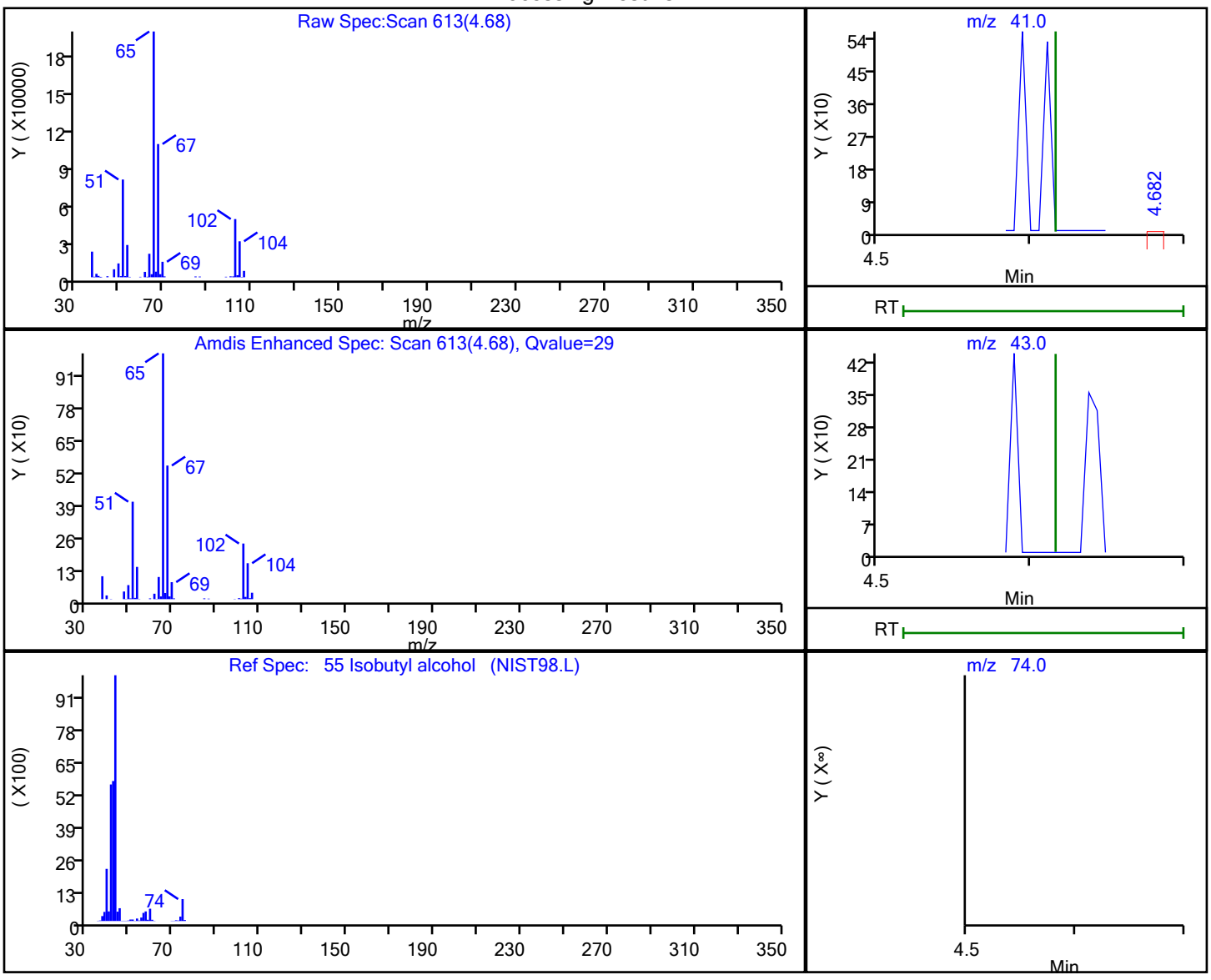
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86885.D				
Injection Date:	01-Jul-2024 15:51:30	Instrument ID:	VMS_P		
Lims ID:	280-193176-A-13	Lab Sample ID:	280-193176-13		
Client ID:	RW-7505P-Q-20240618				
Operator ID:	COULTER	ALS Bottle#:	17	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	326	1.901633
4.62	43.00	0	
4.62	74.00	0	

Reviewer: V8PV, 01-Jul-2024 21:42:43 -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: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2203H-20240619 | Lab Sample ID: 280-193176-14

Matrix: Water | Lab File ID: MS1_6100.D

Analysis Method: 8260D | Date Collected: 06/19/2024 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:53

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	1.8		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2203H-20240619 | Lab Sample ID: 280-193176-14

Matrix: Water | Lab File ID: MS1_6100.D

Analysis Method: 8260D | Date Collected: 06/19/2024 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:53

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
127-18-4	Tetrachloroethene	2.9		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		1.0	0.14
79-01-6	Trichloroethene	21		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND	*1	3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2203H-20240619 | Lab Sample ID: 280-193176-14

Matrix: Water | Lab File ID: MS1_6100.D

Analysis Method: 8260D | Date Collected: 06/19/2024 18:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 05:53

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.: 658996 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	98		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_MS1\20240701-135083.b\MS1_6100.D
Lims ID: 280-193176-B-14
Client ID: RW-2203H-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:53:30 ALS Bottle#: 15 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-B-14
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:06:12

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	1826421	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	417825	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.058	11.059	-0.001	97	665563	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	91	418999	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	542162	50.4	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1826758	49.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	84	628779	49.1	
$ 8 BFB	95	9.899	9.899	0.000	81	628779	NR	
9 Dichlorodifluoromethane	85		1.813				ND	
10 Chloromethane	50		2.009				ND	
11 Vinyl chloride	62		2.134				ND	
12 Ethylene oxide	43	2.260	2.260	0.000	94	1351	NC	
13 Bromomethane	94		2.497				ND	
14 Chloroethane	64		2.623				ND	
15 Dichlorofluoromethane	67		2.861				ND	7
16 Trichlorofluoromethane	101		2.888				ND	
17 Ethanol	45		3.070				ND	
18 Ethyl ether	59		3.168				ND	U
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.321				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419				ND	
22 1,1-Dichloroethene	96		3.419				ND	
23 Acetone	43		3.447				ND	7
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45		3.573				ND	U
26 Carbon disulfide	76		3.629				ND	7
27 Acetonitrile	41		3.726				ND	
28 Methyl acetate	43		3.740				ND	
29 3-Chloro-1-propene	41		3.768				ND	
30 Methylene Chloride	84		3.894				ND	7
31 2-Methyl-2-propanol	59		3.964				ND	U
32 Acrylonitrile	53		4.103				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.131				ND	
34 trans-1,2-Dichloroethene	96		4.131				ND	
35 Chlorotrifluoroethene	116		4.248				ND	
36 Hexane	57	4.383	4.383	0.000	90	5119	0.5449	
37 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.472				ND	
38 Vinyl acetate	43		4.522				ND	7
39 1,1-Dichloroethane	63		4.536				ND	
40 Isopropyl ether	87		4.550				ND	
41 2-Chloro-1,3-butadiene	53		4.606				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737				ND	
43 Tert-butyl ethyl ether	59		4.871				ND	
44 2-Butanone (MEK)	43		5.011				ND	
47 Ethyl acetate	43		5.039				ND	U
46 2,2-Dichloropropane	77		5.039				ND	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	76	13453	1.80	
48 Propionitrile	54		5.081				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
51 Chlorobromomethane	128		5.249				ND	
52 Tetrahydrofuran	42		5.249				ND	
53 Chloroform	83	5.318	5.319	-0.001	55	2494	0.2192	
54 1,1,1-Trichloroethane	97		5.472				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		5.542				ND	
59 Carbon tetrachloride	117		5.612				ND	
58 1,1-Dichloropropene	75		5.612				ND	
60 Isobutyl alcohol	41		5.668				ND	U
61 Benzene	78		5.793				ND	7
62 1,2-Dichloroethane	62		5.821				ND	
63 Tert-amyl methyl ether	73		5.877				ND	
64 n-Heptane	43		6.003				ND	
66 Trichloroethene	95	6.352	6.352	0.000	97	139620	21.1	
65 n-Butanol	56		6.394				ND	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.562				ND	
69 1,2-Dichloropropane	63		6.576				ND	
70 Methyl methacrylate	100		6.603				ND	
71 1,4-Dioxane	88		6.631				ND	
72 Dibromomethane	93		6.659				ND	
73 Dichlorobromomethane	83		6.799				ND	
74 2-Nitropropane	41		6.994				ND	
75 2-Chloroethyl vinyl ether	63		7.022				ND	
76 cis-1,3-Dichloropropene	75		7.176				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		7.483				ND	7
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	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.860				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	14099	2.86	
90 1,3-Dichloropropane	76		8.014				ND	
91 2-Hexanone	43		8.042				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129		8.224				ND	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.349				ND	
96 1-Chlorohexane	91		8.754				ND	U
97 Chlorobenzene	112		8.796				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
98 Ethylbenzene	106		8.880				ND	7
100 m-Xylene & p-Xylene	106		9.006				ND	
101 o-Xylene	106		9.369				ND	
102 Dimethyl disulfide	94		9.388				ND	
103 Styrene	104		9.397				ND	
104 Bromoform	173		9.578				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		10.025				ND	
109 Bromobenzene	156		10.053				ND	
110 trans-1,4-Dichloro-2-butene	53		10.053				ND	
111 1,2,3-Trichloropropane	110		10.081				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		10.346				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.682				ND	
118 sec-Butylbenzene	134		10.849				ND	
119 1,3-Dichlorobenzene	146		10.975				ND	
120 4-Isopropyltoluene	119		10.989				ND	
121 1,4-Dichlorobenzene	146		11.073				ND	U
122 1,2,3-Trimethylbenzene	105		11.100				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		12.413				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.196				ND	
130 Naphthalene	128		13.335				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.559				ND	
140 n-Nonane TIC	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	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	
142 Ethyl acrylate	55		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
136 4-Bromofluorobenzene	95		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	96				0		1.80	
S 154 1,3-Dichloropropene, Total	1		0.000				ND	7
S 153 1,2-Dichloroethene, Total	1				0		1.80	
S 152 Trihalomethanes, Total	1				0		0.2192	
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 159 4-Ethyltoluene TIC	1		10.249				ND	
T 164 Dicyclopentadiene TIC	1		10.947				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

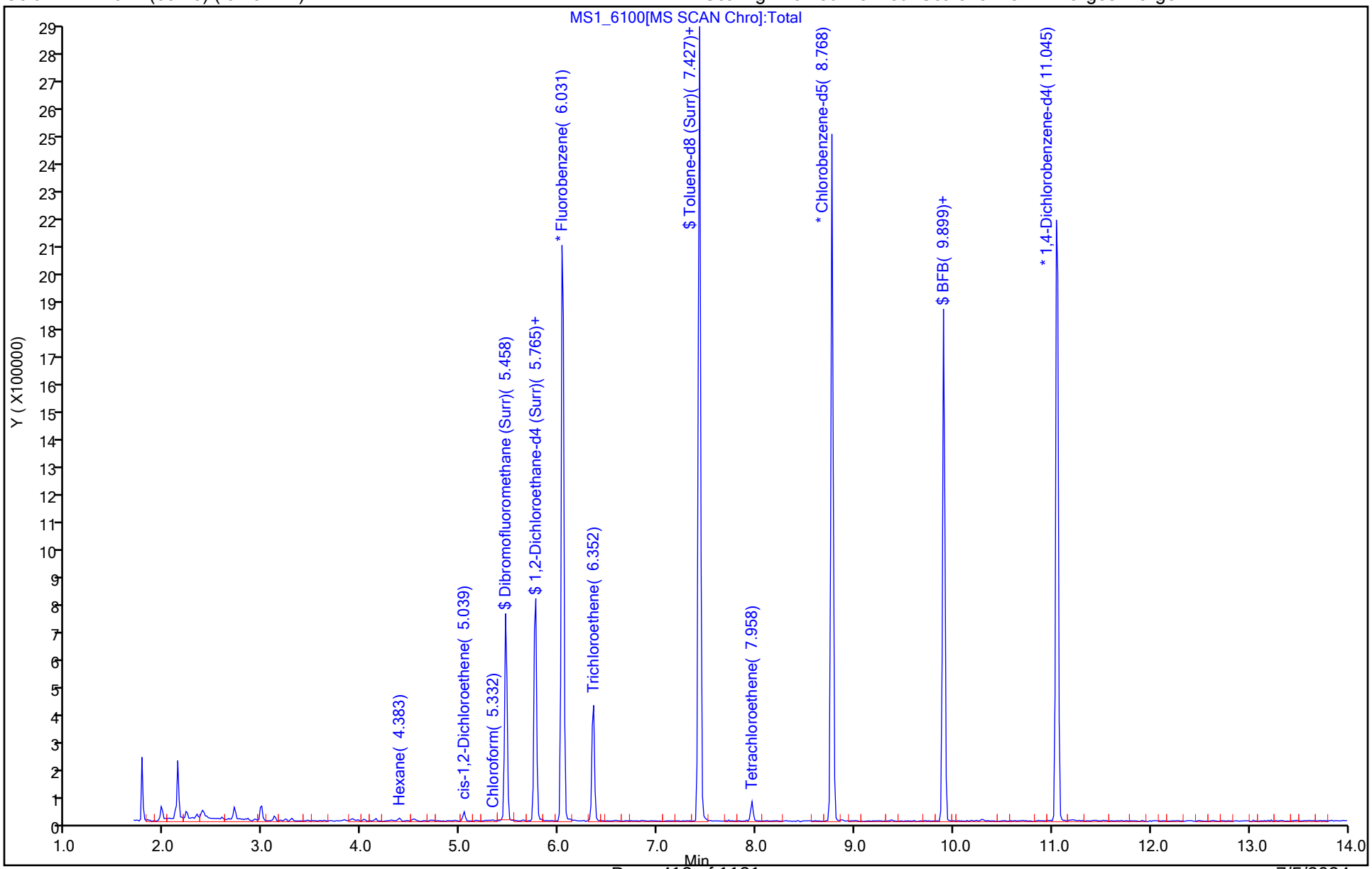
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 02-Jul-2024 16:26:13 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D				
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14	Worklist Smp#:	27
Client ID:	RW-2203H-20240619				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D
Lims ID: 280-193176-B-14
Client ID: RW-2203H-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 05:53:30 ALS Bottle#: 15 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-B-14
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

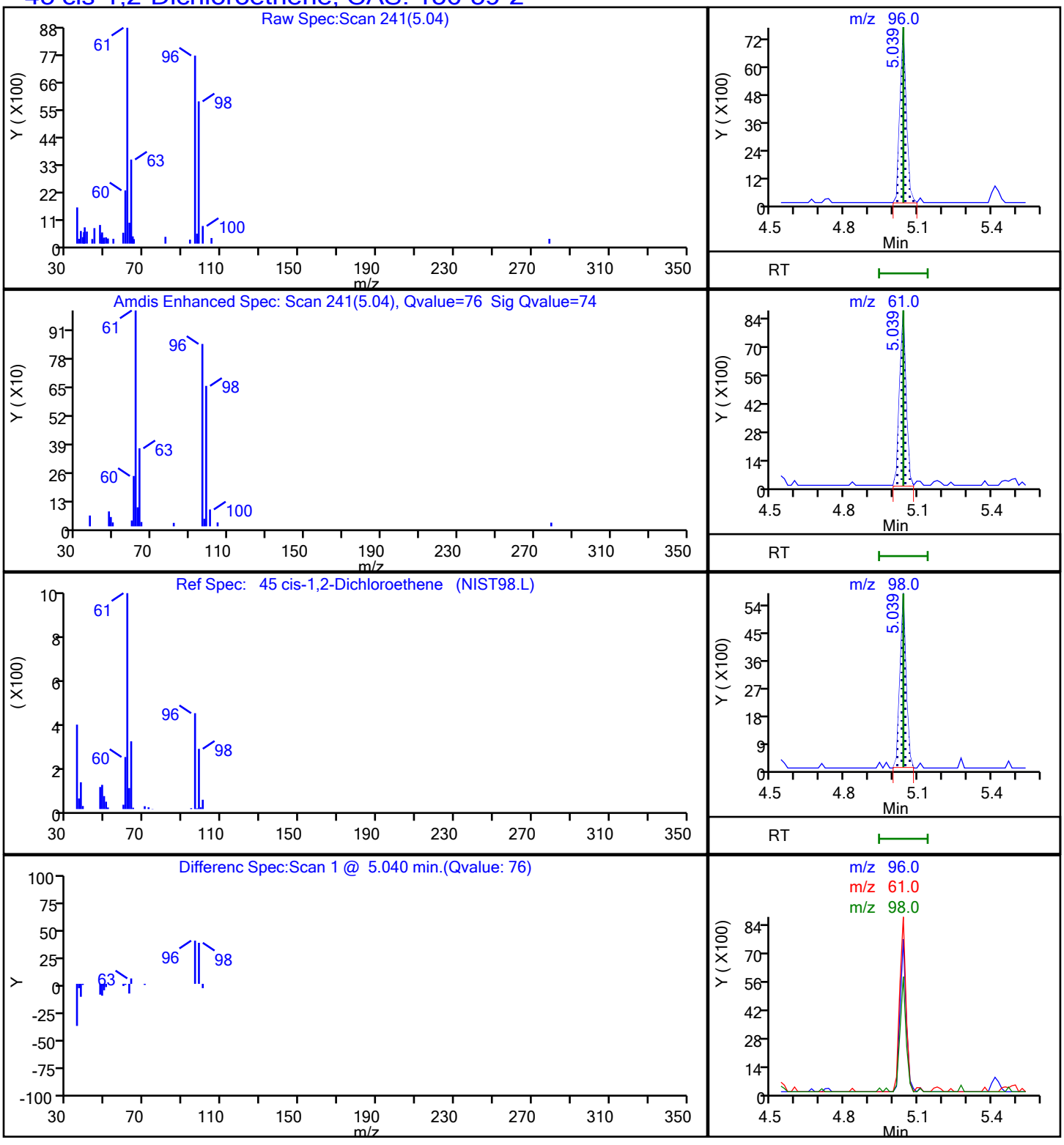
First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:06:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.24
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.4	100.84
$ 6 Toluene-d8 (Surr)	50.0	49.6	99.23
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.1	98.18

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D				
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14		
Client ID:	RW-2203H-20240619				
Operator ID:	bj	ALS Bottle#:	15	Worklist Smp#:	27
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		

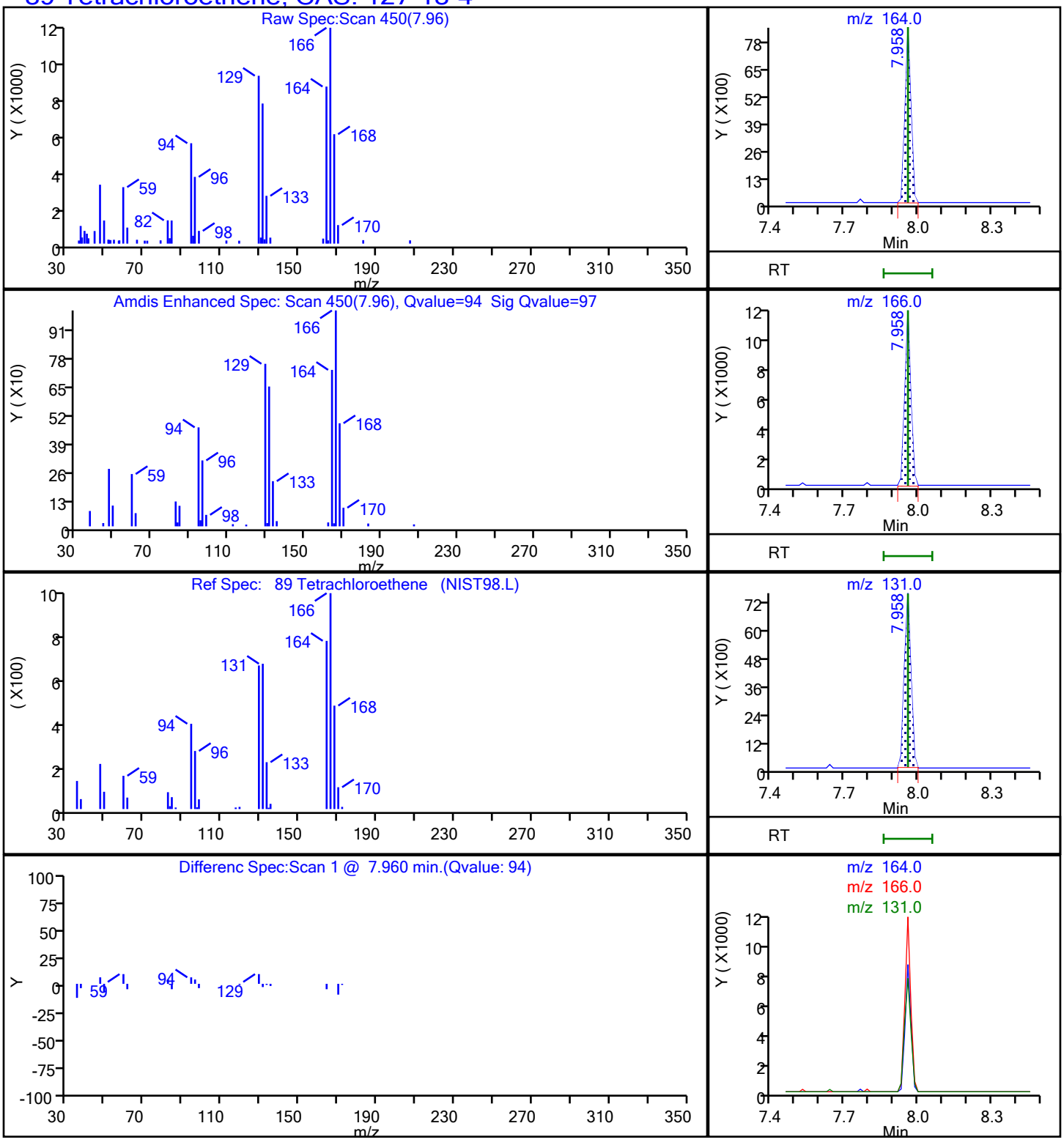
45 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D		
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14
Client ID:	RW-2203H-20240619		
Operator ID:	bj	ALS Bottle#:	15 Worklist Smp#: 27
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

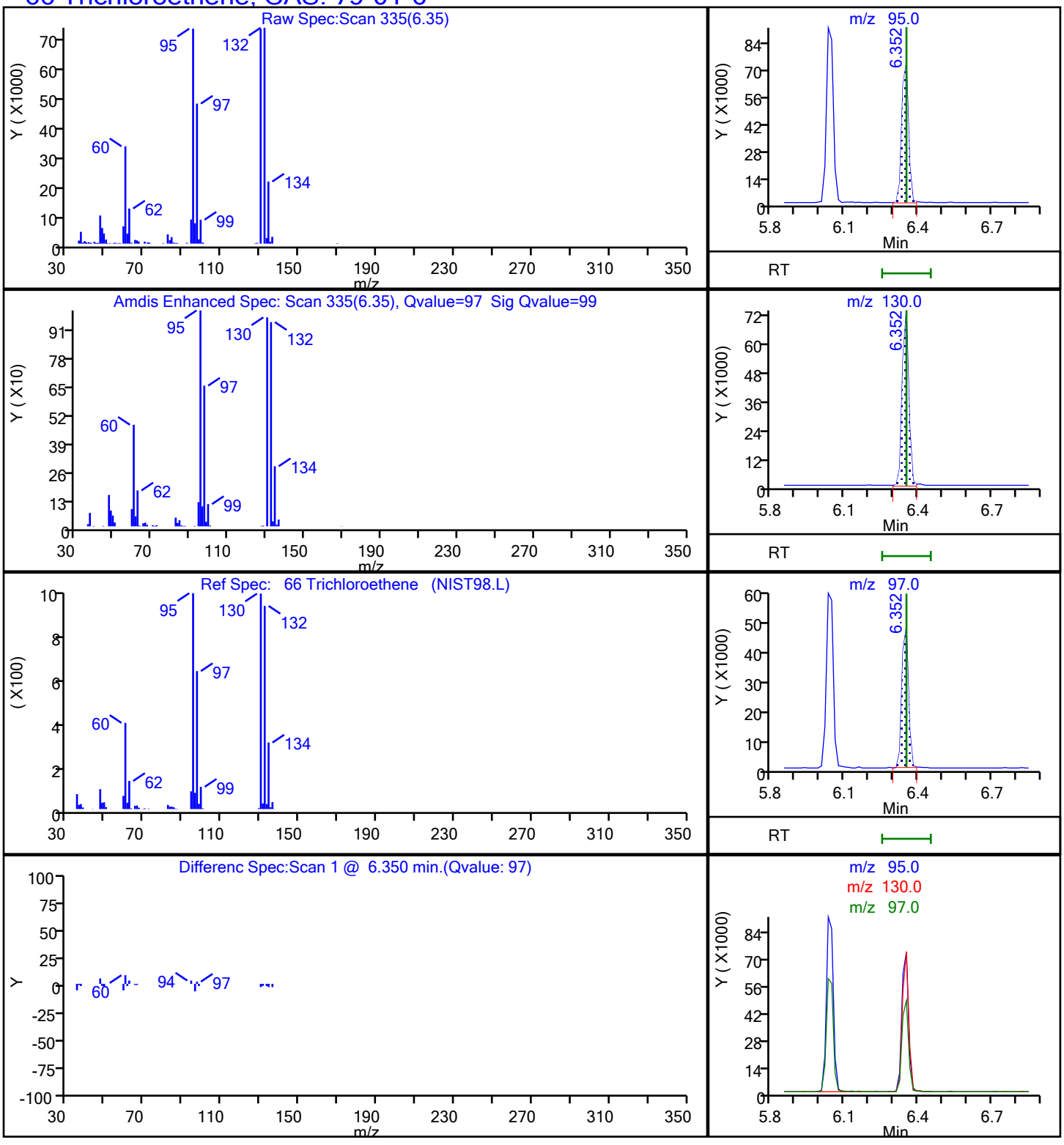
89 Tetrachloroethene, CAS: 127-18-4



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D		
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14
Client ID:	RW-2203H-20240619		
Operator ID:	bj	ALS Bottle#:	15 Worklist Smp#: 27
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



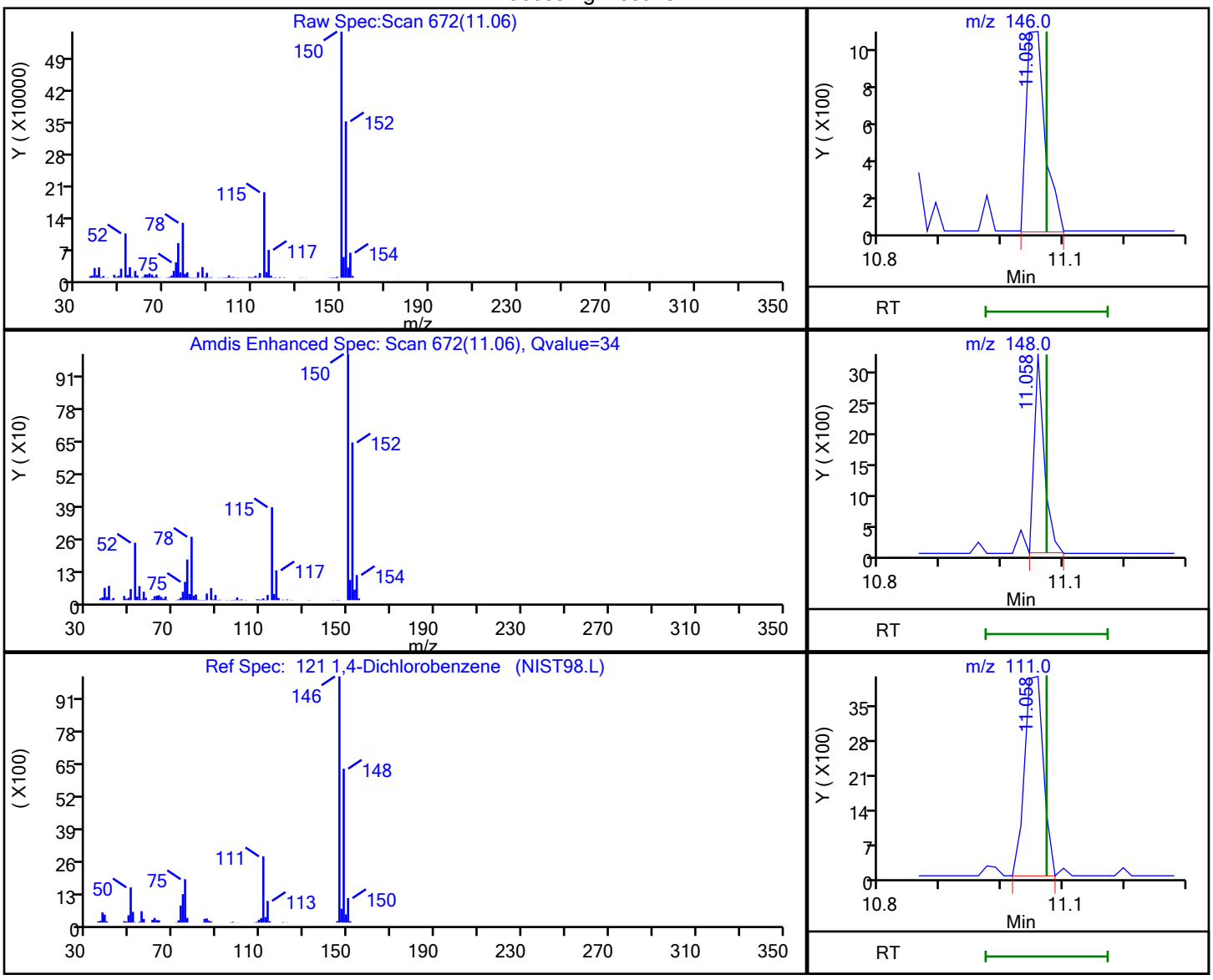
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D				
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14		
Client ID:	RW-2203H-20240619				
Operator ID:	bj	ALS Bottle#:	15	Worklist Smp#:	27
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
11.06	146.00	2339	0.165820
11.06	148.00	3627	
11.06	111.00	8697	

Reviewer: Q2ZS, 02-Jul-2024 16:06:05 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

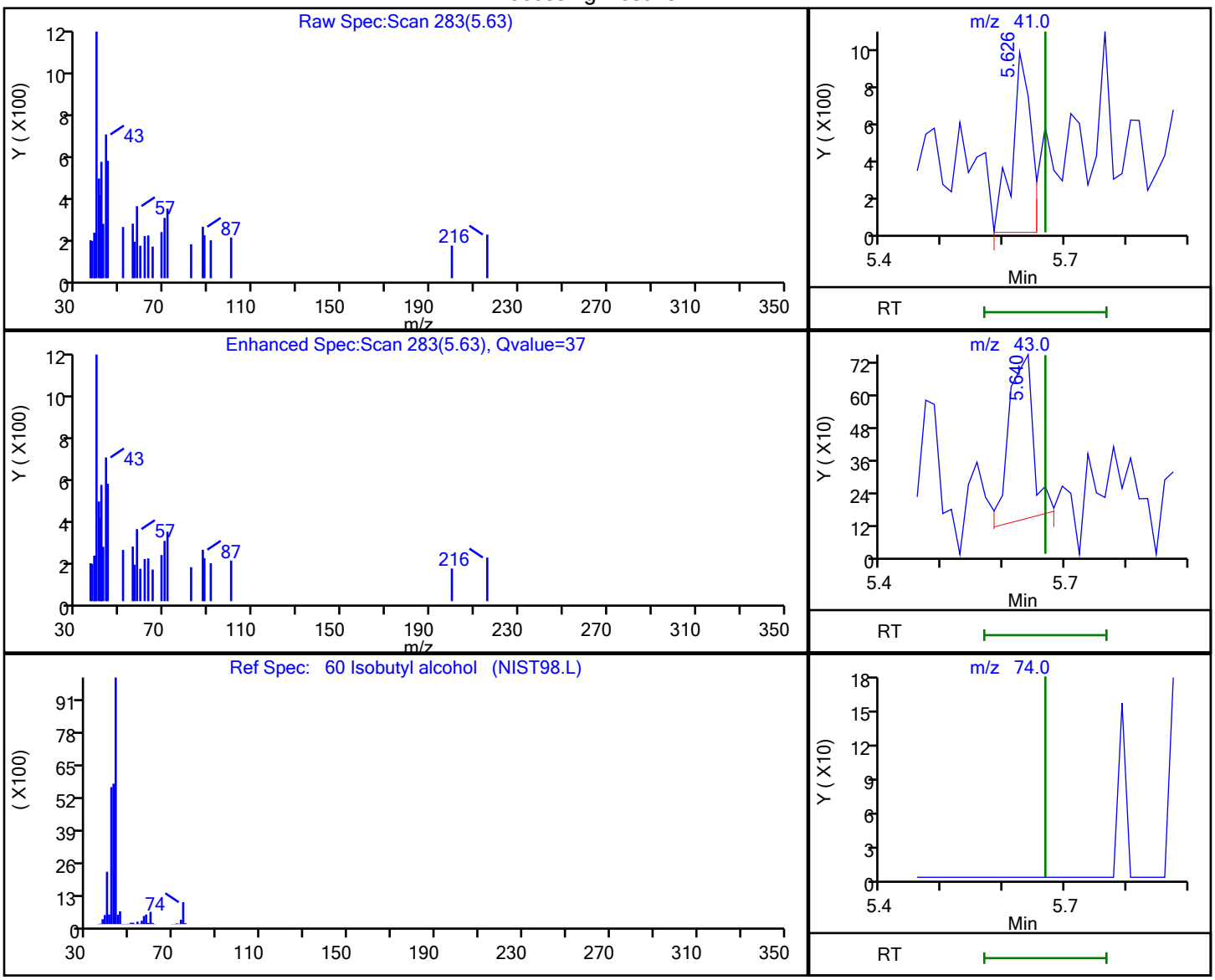
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6100.D				
Injection Date:	02-Jul-2024 05:53:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-B-14	Lab Sample ID:	280-193176-14		
Client ID:	RW-2203H-20240619				
Operator ID:	bj	ALS Bottle#:	15	Worklist Smp#:	27
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
5.63	41.00	2051	9.056580
5.64	43.00	1695	
5.67	74.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:04:17 -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.: 280-193176-1

SDG No.:

Client Sample ID: RW-2076F-20240619 | Lab Sample ID: 280-193176-15

Matrix: Water | Lab File ID: MS1_6101.D

Analysis Method: 8260D | Date Collected: 06/19/2024 19:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 06:14

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	2.3		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	4.6		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	1.0		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	3.0		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2076F-20240619 | Lab Sample ID: 280-193176-15

Matrix: Water | Lab File ID: MS1_6101.D

Analysis Method: 8260D | Date Collected: 06/19/2024 19:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 06:14

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND	*1	3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2076F-20240619 | Lab Sample ID: 280-193176-15

Matrix: Water | Lab File ID: MS1_6101.D

Analysis Method: 8260D | Date Collected: 06/19/2024 19:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 06:14

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.: 658996 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	99		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\20240701-135083.b\MS1_6101.D
Lims ID: 280-193176-A-15
Client ID: RW-2076F-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 06:14:30 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-A-15
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:06:43

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	99	1882381	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	429707	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	672201	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	431115	49.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	561960	50.7	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1883939	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	84	640879	49.5	
$ 8 BFB	95	9.899	9.899	0.000	81	640879	NR	
9 Dichlorodifluoromethane	85		1.813				ND	
10 Chloromethane	50		2.009				ND	
11 Vinyl chloride	62		2.134				ND	
12 Ethylene oxide	43	2.274	2.260	0.014	98	1166	NC	
13 Bromomethane	94		2.497				ND	
14 Chloroethane	64		2.623				ND	
15 Dichlorofluoromethane	67		2.861				ND	
16 Trichlorofluoromethane	101		2.888				ND	
17 Ethanol	45		3.070				ND	
18 Ethyl ether	59		3.168				ND	
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.321				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419				ND	
22 1,1-Dichloroethene	96		3.419				ND	
23 Acetone	43		3.447				ND	7
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45		3.573				ND	
26 Carbon disulfide	76		3.629				ND	7
27 Acetonitrile	41		3.726				ND	
28 Methyl acetate	43		3.740				ND	
29 3-Chloro-1-propene	41		3.768				ND	
30 Methylene Chloride	84		3.894				ND	
31 2-Methyl-2-propanol	59		3.964				ND	
32 Acrylonitrile	53		4.103				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.131				ND	
34 trans-1,2-Dichloroethene	96		4.131				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		4.522				ND	
39 1,1-Dichloroethane	63		4.536				ND	
40 Isopropyl ether	87		4.550				ND	
41 2-Chloro-1,3-butadiene	53		4.606				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737				ND	
43 Tert-butyl ethyl ether	59		4.871				ND	
44 2-Butanone (MEK)	43		5.011				ND	
47 Ethyl acetate	43		5.039				ND	
46 2,2-Dichloropropane	77		5.039				ND	
45 cis-1,2-Dichloroethene	96		5.039				ND	
48 Propionitrile	54		5.081				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
51 Chlorobromomethane	128		5.249				ND	
52 Tetrahydrofuran	42		5.249				ND	
53 Chloroform	83	5.319	5.319	0.000	88	11956	1.02	
54 1,1,1-Trichloroethane	97		5.472				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		5.542				ND	
59 Carbon tetrachloride	117		5.612				ND	
58 1,1-Dichloropropene	75		5.612				ND	
60 Isobutyl alcohol	41		5.668				ND	U
61 Benzene	78		5.793				ND	
62 1,2-Dichloroethane	62		5.821				ND	
63 Tert-amyl methyl ether	73		5.877				ND	
64 n-Heptane	43		6.003				ND	U
66 Trichloroethene	95		6.352				ND	
65 n-Butanol	56		6.394				ND	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.562				ND	
69 1,2-Dichloropropane	63		6.576				ND	
70 Methyl methacrylate	100		6.603				ND	
71 1,4-Dioxane	88		6.631				ND	
72 Dibromomethane	93		6.659				ND	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	24530	2.99	
74 2-Nitropropane	41		6.994				ND	U
75 2-Chloroethyl vinyl ether	63		7.022				ND	
76 cis-1,3-Dichloropropene	75		7.176				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		7.483				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	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.860				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164		7.958				ND	
90 1,3-Dichloropropane	76		8.014				ND	
91 2-Hexanone	43		8.042				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129	8.224	8.224	0.000	92	25881	4.58	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.349				ND	
96 1-Chlorohexane	91		8.754				ND	U
97 Chlorobenzene	112		8.796				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
98 Ethylbenzene	106		8.880				ND	
100 m-Xylene & p-Xylene	106		9.006				ND	
101 o-Xylene	106		9.369				ND	
102 Dimethyl disulfide	94		9.388				ND	
103 Styrene	104		9.397				ND	
104 Bromoform	173	9.578	9.578	0.000	90	7812	2.32	
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		10.025				ND	
109 Bromobenzene	156		10.053				ND	
110 trans-1,4-Dichloro-2-butene	53		10.053				ND	
111 1,2,3-Trichloropropane	110		10.081				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		10.346				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.682				ND	
118 sec-Butylbenzene	134		10.849				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		11.100				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		12.413				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.196				ND	
130 Naphthalene	128		13.335				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.559				ND	
140 n-Nonane TIC	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	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	
142 Ethyl acrylate	55		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
136 4-Bromofluorobenzene	95		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	96		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		10.9	
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 159 4-Ethyltoluene TIC	1		10.249				ND	
T 164 Dicyclopentadiene TIC	1		10.947				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

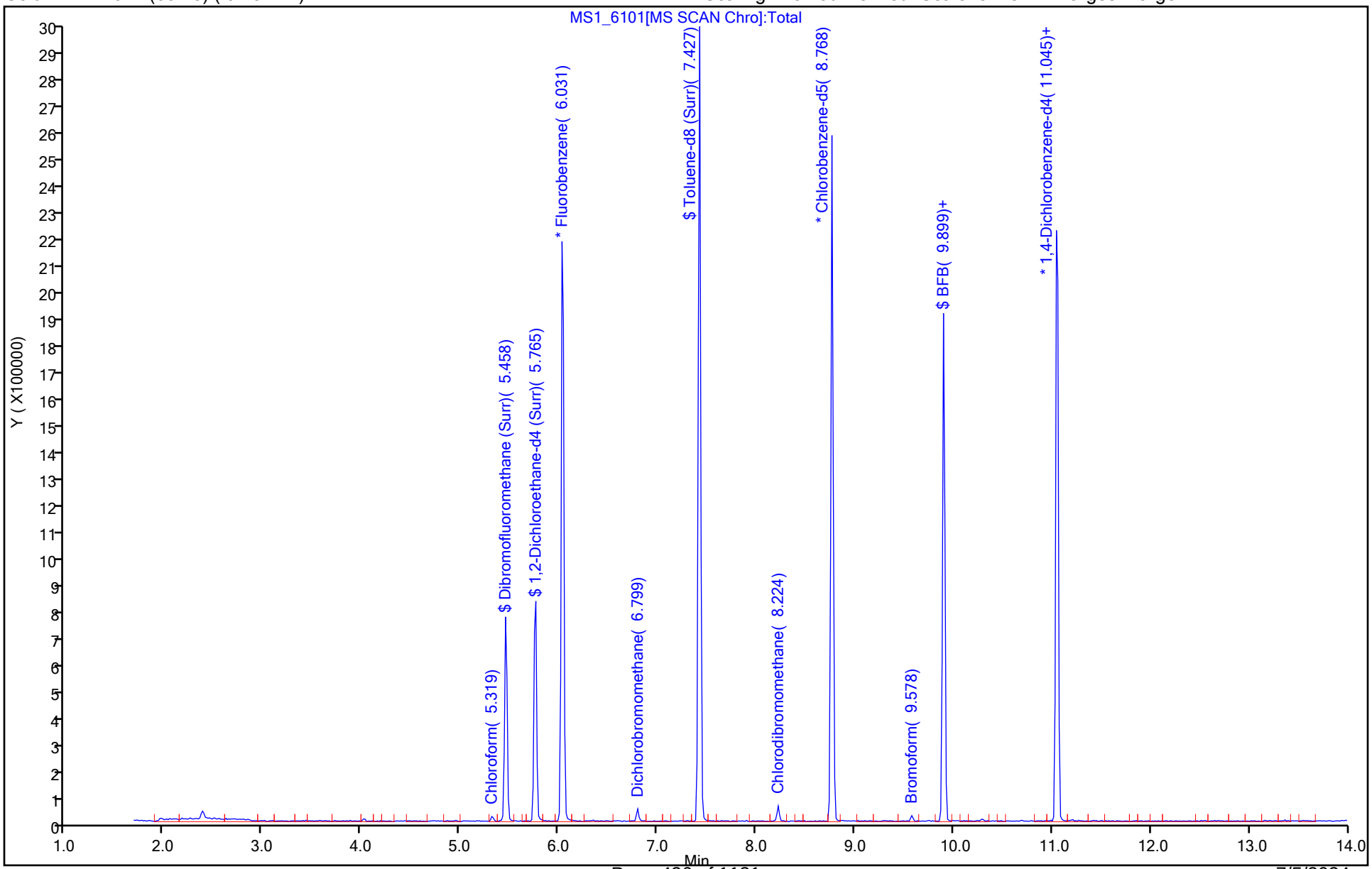
Report Date: 02-Jul-2024 16:26:16 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D

Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15	Worklist Smp#:	28
Client ID:	RW-2076F-20240619				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D
Lims ID: 280-193176-A-15
Client ID: RW-2076F-20240619
Sample Type: Client
Inject. Date: 02-Jul-2024 06:14:30 ALS Bottle#: 16 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-A-15
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

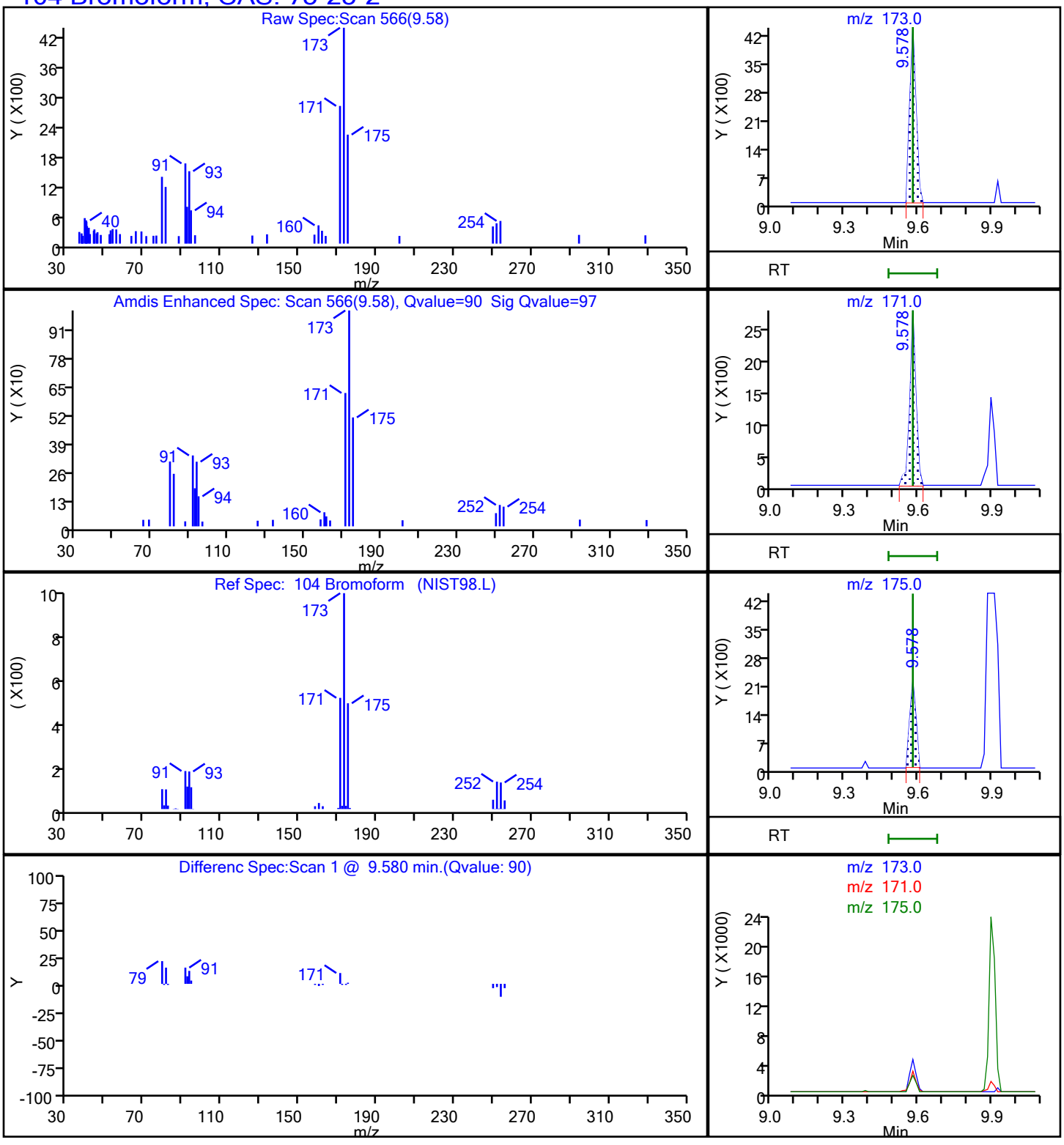
First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:06:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.5	99.07
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.41
$ 6 Toluene-d8 (Surr)	50.0	49.8	99.50
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.5	99.08

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D		
Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15
Client ID:	RW-2076F-20240619		
Operator ID:	bj	ALS Bottle#:	16 Worklist Smp#: 28
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

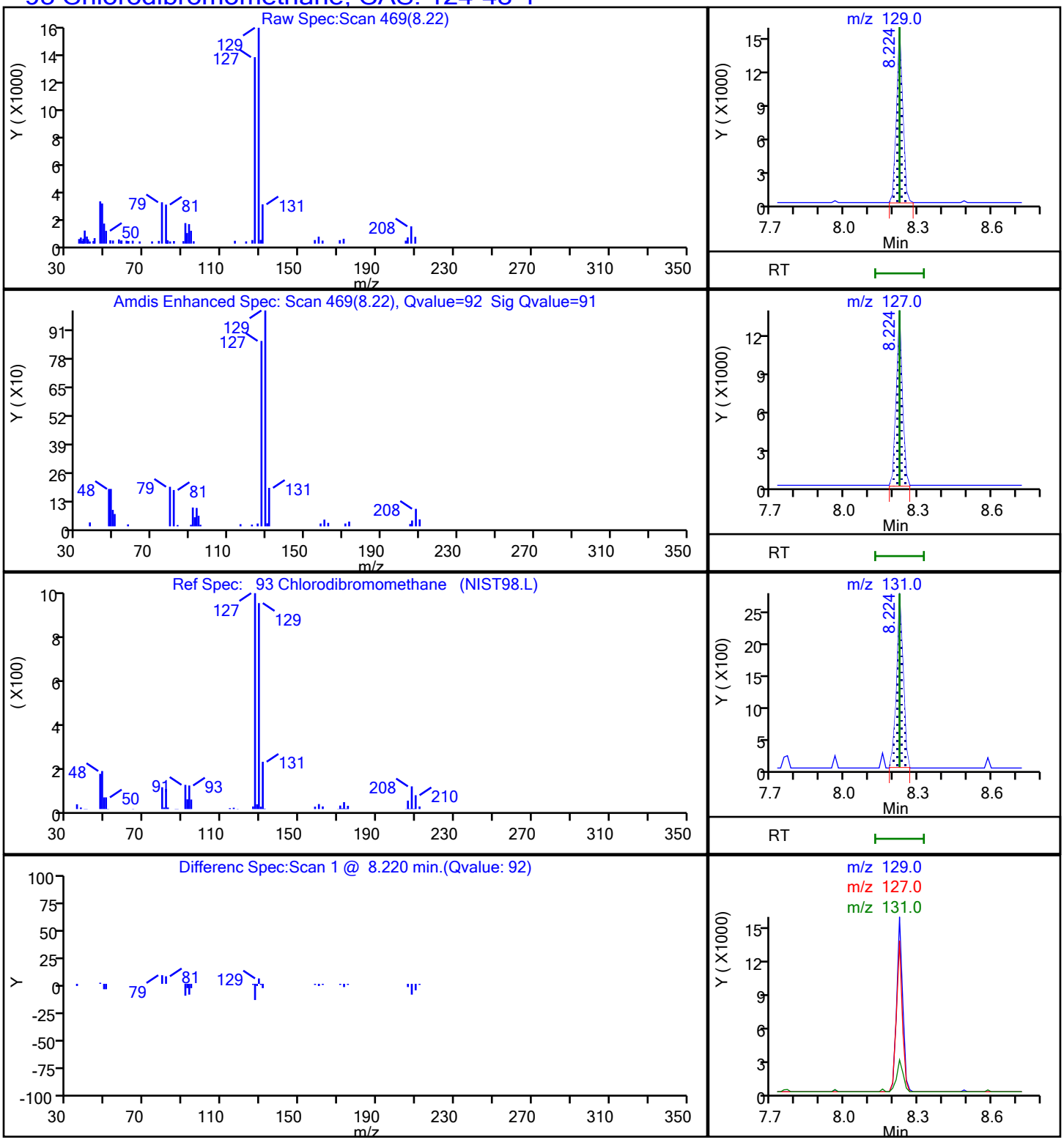
104 Bromoform, CAS: 75-25-2



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D				
Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15		
Client ID:	RW-2076F-20240619				
Operator ID:	bj	ALS Bottle#:	16	Worklist Smp#:	28
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		

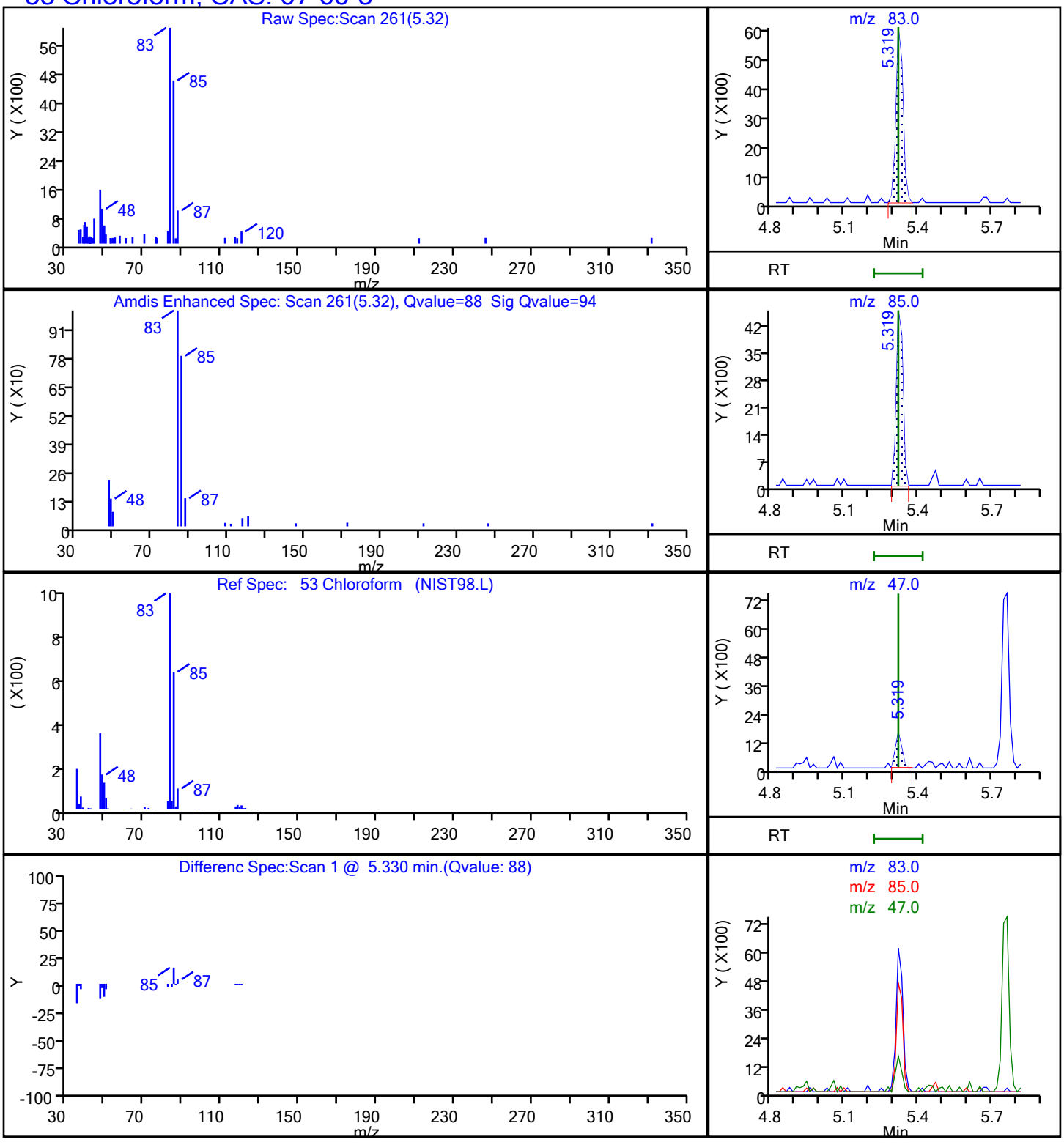
93 Chlorodibromomethane, CAS: 124-48-1



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D				
Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15		
Client ID:	RW-2076F-20240619				
Operator ID:	bj	ALS Bottle#:	16	Worklist Smp#:	28
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		

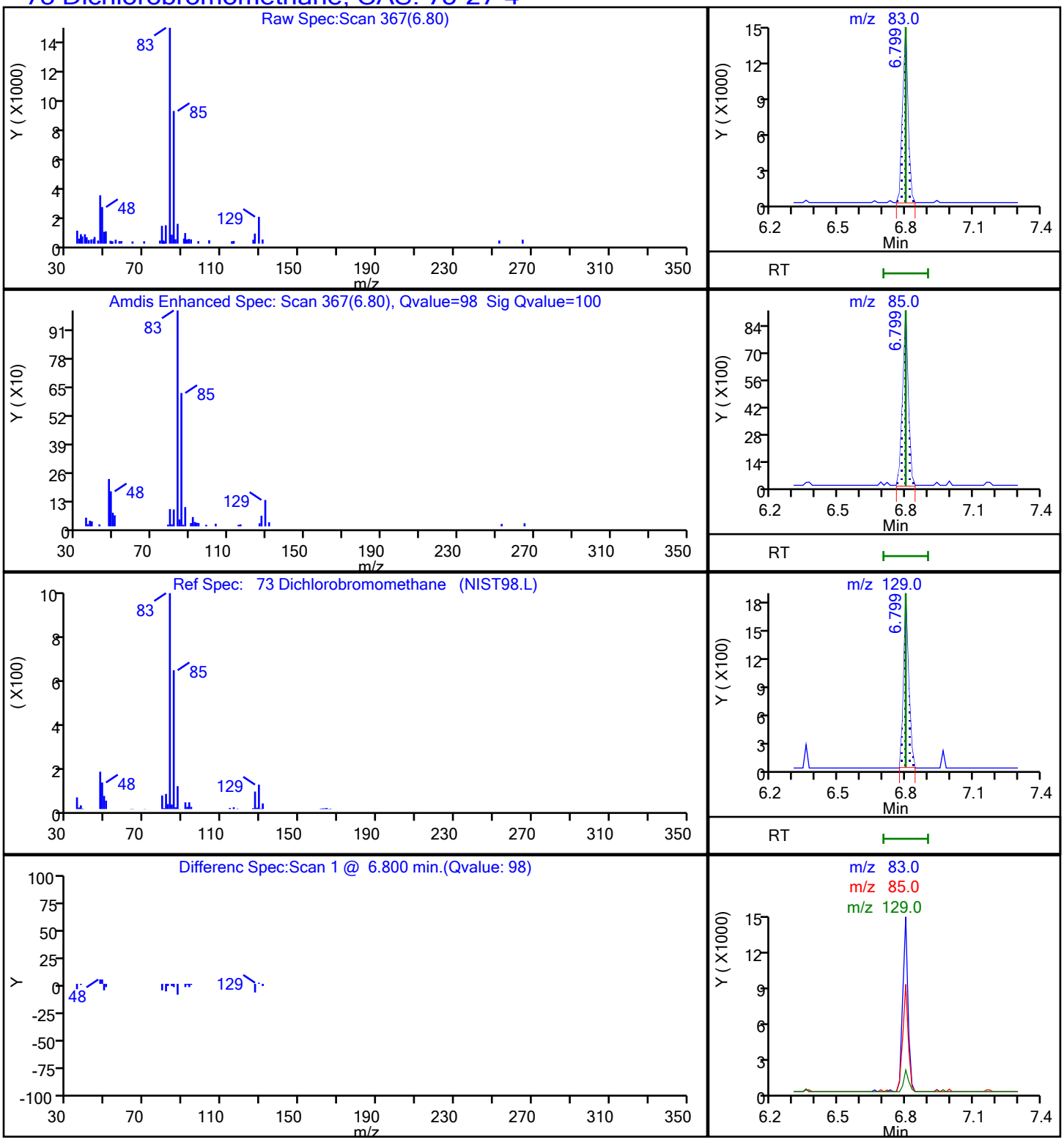
53 Chloroform, CAS: 67-66-3



Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D				
Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15		
Client ID:	RW-2076F-20240619				
Operator ID:	bj	ALS Bottle#:	16	Worklist Smp#:	28
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		

73 Dichlorobromomethane, CAS: 75-27-4



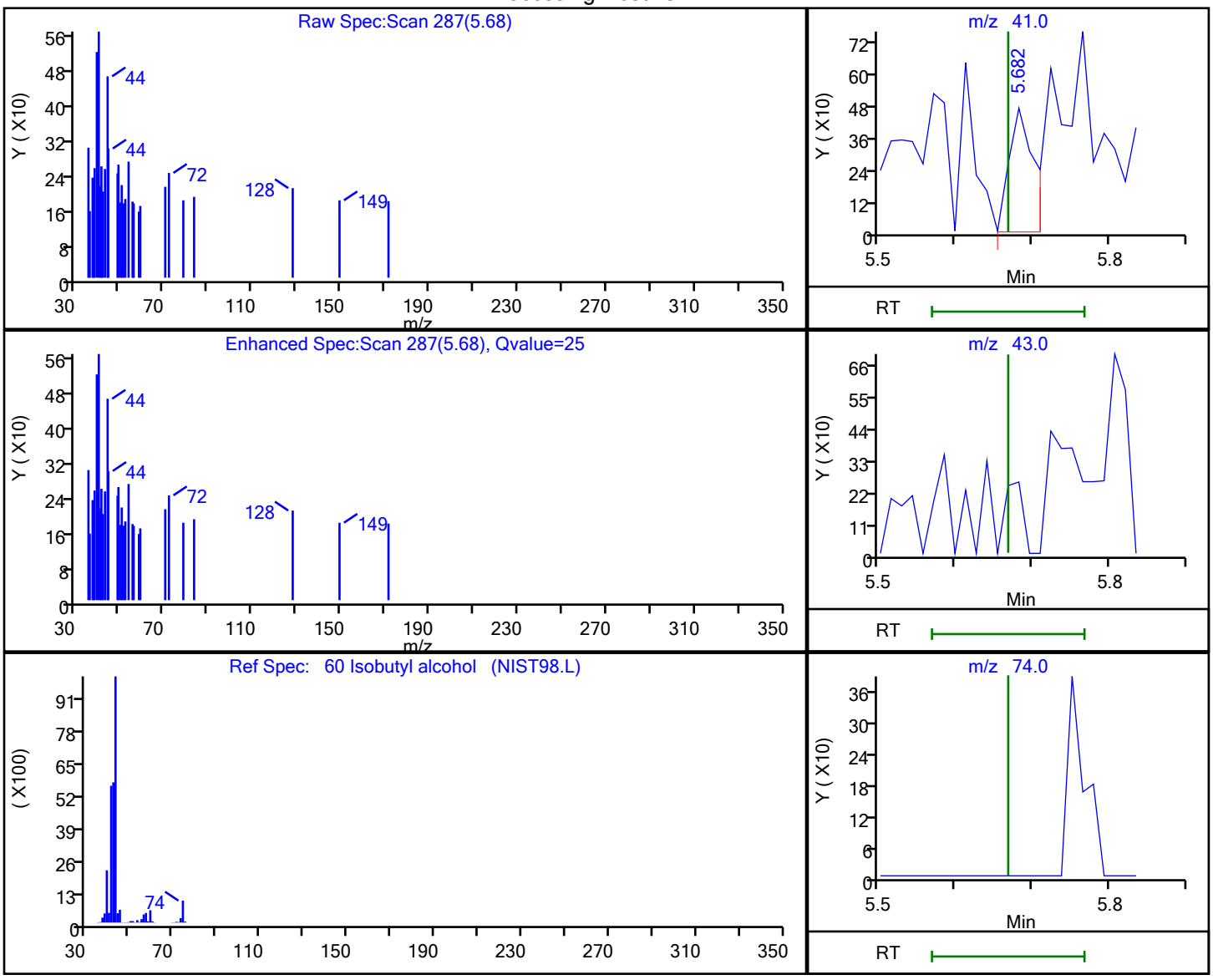
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6101.D				
Injection Date:	02-Jul-2024 06:14:30	Instrument ID:	VMS_MS1		
Lims ID:	280-193176-A-15	Lab Sample ID:	280-193176-15		
Client ID:	RW-2076F-20240619				
Operator ID:	bj	ALS Bottle#:	16	Worklist Smp#:	28
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
5.68	41.00	1055	4.520062
5.67	43.00	0	
5.67	74.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:06:27 -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.: 280-193176-1 Analy Batch No.: 648392

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2024 11:39 Calibration End Date: 04/05/2024 14:08 Calibration ID: 92018

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-648392/20	MS1_2286.D
Level 2	IC 280-648392/19	MS1_2285.D
Level 3	IC 280-648392/18	MS1_2284.D
Level 4	IC 280-648392/17	MS1_2283.D
Level 5	IC 280-648392/16	MS1_2282.D
Level 6	IC 280-648392/15	MS1_2281.D
Level 7	IC 280-648392/14	MS1_2280.D
Level 8	IC 280-648392/13	MS1_2279.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	0.0025 0.0025	0.0026 0.0025	0.0024 0.0022	0.0026	0.0025	Ave		0.0025				5.5		15.0			
Isopropyl alcohol	0.0144 0.0114	0.0130 0.0111	0.0119 0.0101	0.0118	0.0115	Ave		0.0119				11.2		15.0			
Acetonitrile	+++++ 0.0270	0.0326 0.0259	0.0289 0.0244	0.0288	0.0268	Ave		0.0278				9.5		15.0			
Isopropyl ether	0.1913 0.1720	0.2239 0.1662	0.1870 0.1632	0.1668	0.1804	Ave		0.1814				11.0		15.0			
Chloroprene	0.3480 0.2779	0.3279 0.2724	0.3064 0.2741	0.2757	0.2822	Ave		0.2956				9.7		15.0			
Tert-butyl ethyl ether	0.5600 0.5342	0.5757 0.5283	0.5537 0.5121	0.5384	0.5497	Ave		0.5440				3.7		15.0			
Ethyl acetate	0.1810 0.1756	0.1732 0.1674	0.1698 0.1620	0.1654	0.1761	Ave		0.1713				3.7		15.0			
Propionitrile	0.0328 0.0312	0.0317 0.0299	0.0308 0.0283	0.0312	0.0312	Ave		0.0309				4.3		15.0			
Methacrylonitrile	0.1211 0.1163	0.1230 0.1111	0.1212 0.1047	0.1168	0.1182	Ave		0.1165				5.2		15.0			
Tert-amyl methyl ether	0.5708 0.5152	0.5547 0.5028	0.4993 0.4870	0.5041	0.5206	Ave		0.5193				5.6		15.0			
n-Butanol	0.0057 0.0052	0.0052 0.0053	0.0047 0.0047	0.0052	0.0052	Ave		0.0052				6.6		15.0			
Methyl methacrylate	0.0481 0.0600	0.0591 0.0576	0.0561 0.0561	0.0565	0.0595	Ave		0.0566				6.7		15.0			
2-Nitropropane	+++++ 0.0318	0.0293 0.0323	0.0290 0.0321	0.0276	0.0305	Ave		0.0304				6.0		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.: 280-193176-1 Analy Batch No.: 648392

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2024 11:39 Calibration End Date: 04/05/2024 14:08 Calibration ID: 92018

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	0.1073 0.1302	0.1083 0.1234	0.1052 0.1237	0.1043	0.1219	Ave		0.1155				8.9		15.0			
1,2,3-Trimethylbenzene	2.6016 1.9906	2.4234 1.9128	2.1742 1.8415	2.0229	2.0201	Ave		2.1234				12.4		15.0			
1,3,5-Trichlorobenzene	+++++ 0.7025	0.8956 0.6686	0.8564 0.6366	0.7516	0.6918	Ave		0.7433				13.2		15.0			
Dibromofluoromethane (Surr)	0.2276 0.2291	0.2280 0.2297	0.2273 0.2309	0.2291	0.2297	Ave		0.2289				0.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2600 0.2562	0.2587 0.2637	0.2622 0.2645	0.2566	0.2674	Ave		0.2612				1.5		15.0			
Toluene-d8 (Surr)	4.1799 4.1492	4.1800 4.0905	4.1594 4.1474	4.1477	4.0906	Ave		4.1431				0.8		15.0			
4-Bromofluorobenzene (Surr)	0.8766 0.9001	0.8688 0.8944	0.8770 0.8711	0.8869	0.8848	Ave		0.8825				1.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 648392

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2024 11:39 | Calibration End Date: 04/05/2024 14:08 | Calibration ID: 92018

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-648392/20	MS1_2286.D
Level 2	IC 280-648392/19	MS1_2285.D
Level 3	IC 280-648392/18	MS1_2284.D
Level 4	IC 280-648392/17	MS1_2283.D
Level 5	IC 280-648392/16	MS1_2282.D
Level 6	IC 280-648392/15	MS1_2281.D
Level 7	IC 280-648392/14	MS1_2280.D
Level 8	IC 280-648392/13	MS1_2279.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	5381 407807	11006 551428	25667 948888	55404	271678	60.0 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Ave	5112 309924	9086 413909	20973 724014	41598	205906	10.0 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Ave	+++++ 733961	22727 970939	50665 1754591	101388	481338	+++++ 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	6769 467684	15611 622285	32845 1175023	58770	324284	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	12313 755822	22861 1019875	53807 1973049	97157	507339	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	19814 1452602	40135 1977558	97221 3686391	189706	988123	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	12811 954944	24146 1253162	59627 2331730	116583	633031	2.00 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	11622 849477	22091 1118092	54046 2036598	109920	560688	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	42837 3163418	85731 4159494	212787 7536437	411384	2124860	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	20195 1401002	38671 1882110	87676 3505670	177629	935864	1.00 75.0	2.00 100	5.00 200	10.0	50.0
n-Butanol	FB	Ave	5076 354553	9021 496762	20723 837796	46121	235666	25.0 1875	50.0 2500	125 5000	250	1250
Methyl methacrylate	FB	Ave	3404 326564	8240 431275	19685 807651	39833	214082	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	+++++ 173197	4092 241799	10188 462333	19427	109514	+++++ 150	4.00 200	10.0 400	20.0	100
cis-1,4-Dichloro-2-butene	DCBd4	Ave	3105 277928	6089 372992	14926 724963	29296	176919	2.00 150	4.00 200	10.0 400	20.0	100
1,2,3-Trimethylbenzene	DCBd4	Ave	37643 2125091	68111 2890818	154281 5397200	284057	1465509	1.00 75.0	2.00 100	5.00 200	10.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 648392

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 04/05/2024 11:39 | Calibration End Date: 04/05/2024 14:08 | Calibration ID: 92018

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
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 749912	25172 1010421	60773 1865909	105535	501920	+++++ 75.0	2.00 100	5.00 200	10.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	402656 415295	397351 429981	399072 415488	403561	412903	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	460020 464489	450910 493662	460435 476024	452070	480694	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1807643 1857994	1794978 1929896	1787232 1830901	1804630	1833481	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	634218 640611	610478 675840	622346 638287	622706	641905	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2279.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Apr-2024 11:39:30 ALS Bottle#: 8 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:45 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:56:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	1799603	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	86	441454	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	95	732720	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	415488	50.0	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	476024	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1830901	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	638287	50.0	49.4	
17 Ethanol	45	3.070	3.071	-0.001	100	948888	12000	10602	
25 Isopropyl alcohol	45	3.587	3.573	0.014	98	724014	2000.0	1690.5	
27 Acetonitrile	41	3.727	3.727	0.000	100	1754591	2000.0	1756.2	
40 Isopropyl ether	87	4.551	4.551	0.000	93	1175023	200.0	180.0	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	1973049	200.0	185.5	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	3686391	200.0	188.3	
47 Ethyl acetate	43	5.040	5.040	0.000	98	2331730	400.0	378.2	
48 Propionitrile	54	5.082	5.082	0.000	100	2036598	2000.0	1832.0	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	7536437	2000.0	1796.7	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	97	3505670	200.0	187.6	
65 n-Butanol	56	6.227	6.227	0.000	86	837796	5000.0	4509.6	
70 Methyl methacrylate	100	6.590	6.590	0.000	88	807651	400.0	396.2	
74 2-Nitropropane	41	6.981	6.981	0.000	99	462333	400.0	422.9	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	724963	400.0	428.2	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	5397200	200.0	173.5	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	98	1865909	200.0	171.3	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 200.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

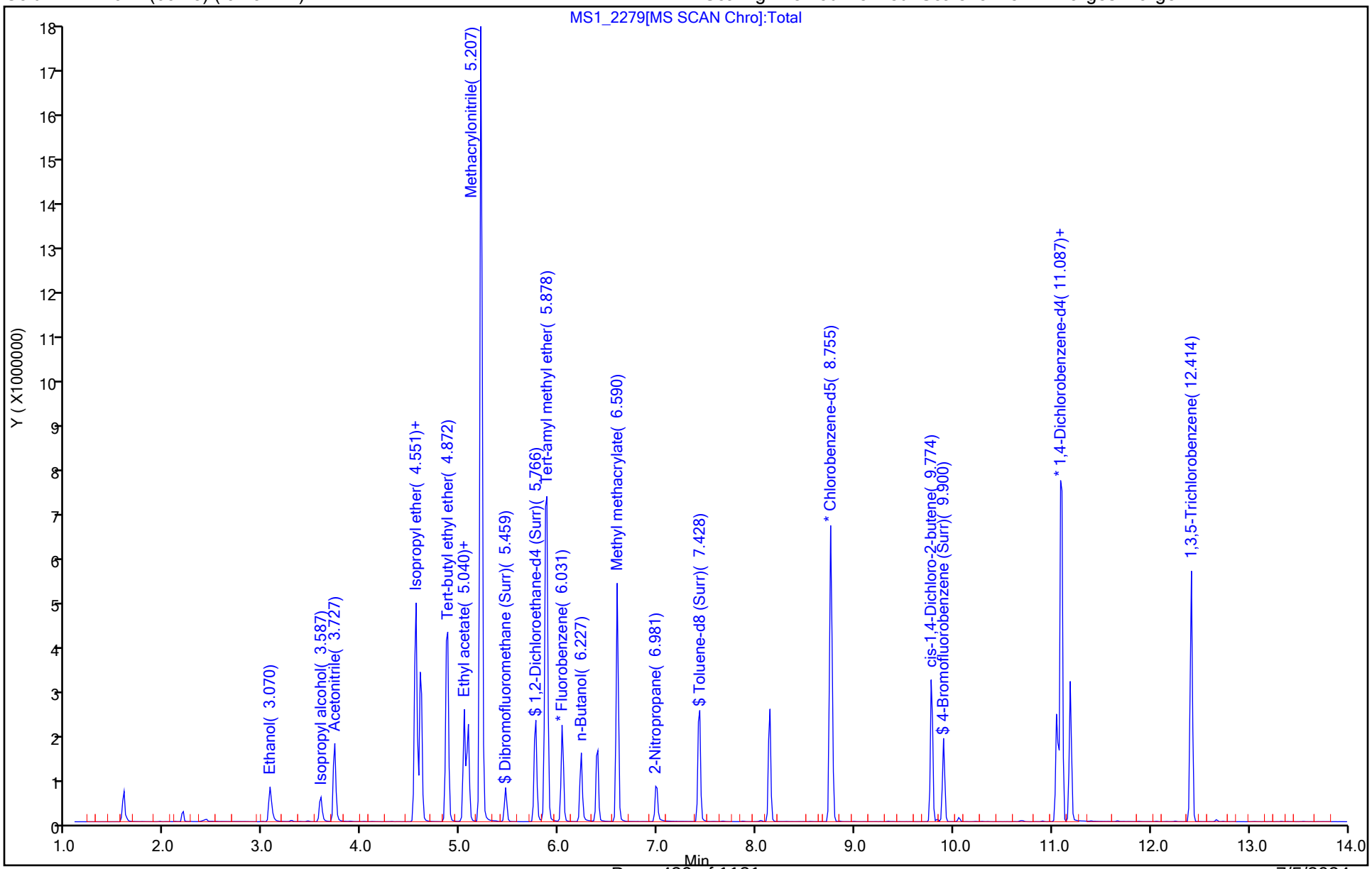
Report Date: 08-Apr-2024 16:02:46 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2279.D

Injection Date:	05-Apr-2024 11:39:30	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#:	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\20240405-131907.b\MS1_2280.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Apr-2024 12:01:30 ALS Bottle#: 9 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:47 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:56:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	1871749	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	86	471797	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	96	755666	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	429981	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	493662	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1929896	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	675840	50.0	50.7	
17 Ethanol	45	3.070	3.071	-0.001	100	551428	6000.0	5923.8	
25 Isopropyl alcohol	45	3.573	3.573	0.000	98	413909	1000.0	929.2	
27 Acetonitrile	41	3.727	3.727	0.000	99	970939	1000.0	934.4	
40 Isopropyl ether	87	4.551	4.551	0.000	93	622285	100.0	91.7	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	1019875	100.0	92.2	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	1977558	100.0	97.1	
47 Ethyl acetate	43	5.040	5.040	0.000	98	1253162	200.0	195.4	
48 Propionitrile	54	5.082	5.082	0.000	100	1118092	1000.0	967.0	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	4159494	1000.0	953.4	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	90	1882110	100.0	96.8	
65 n-Butanol	56	6.227	6.227	0.000	85	496762	2500.0	2570.9	
70 Methyl methacrylate	100	6.590	6.590	0.000	89	431275	200.0	203.4	
74 2-Nitropropane	41	6.981	6.981	0.000	99	241799	200.0	212.6	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	372992	200.0	213.6	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	97	2890818	100.0	90.1	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	98	1010421	100.0	89.9	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 100.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

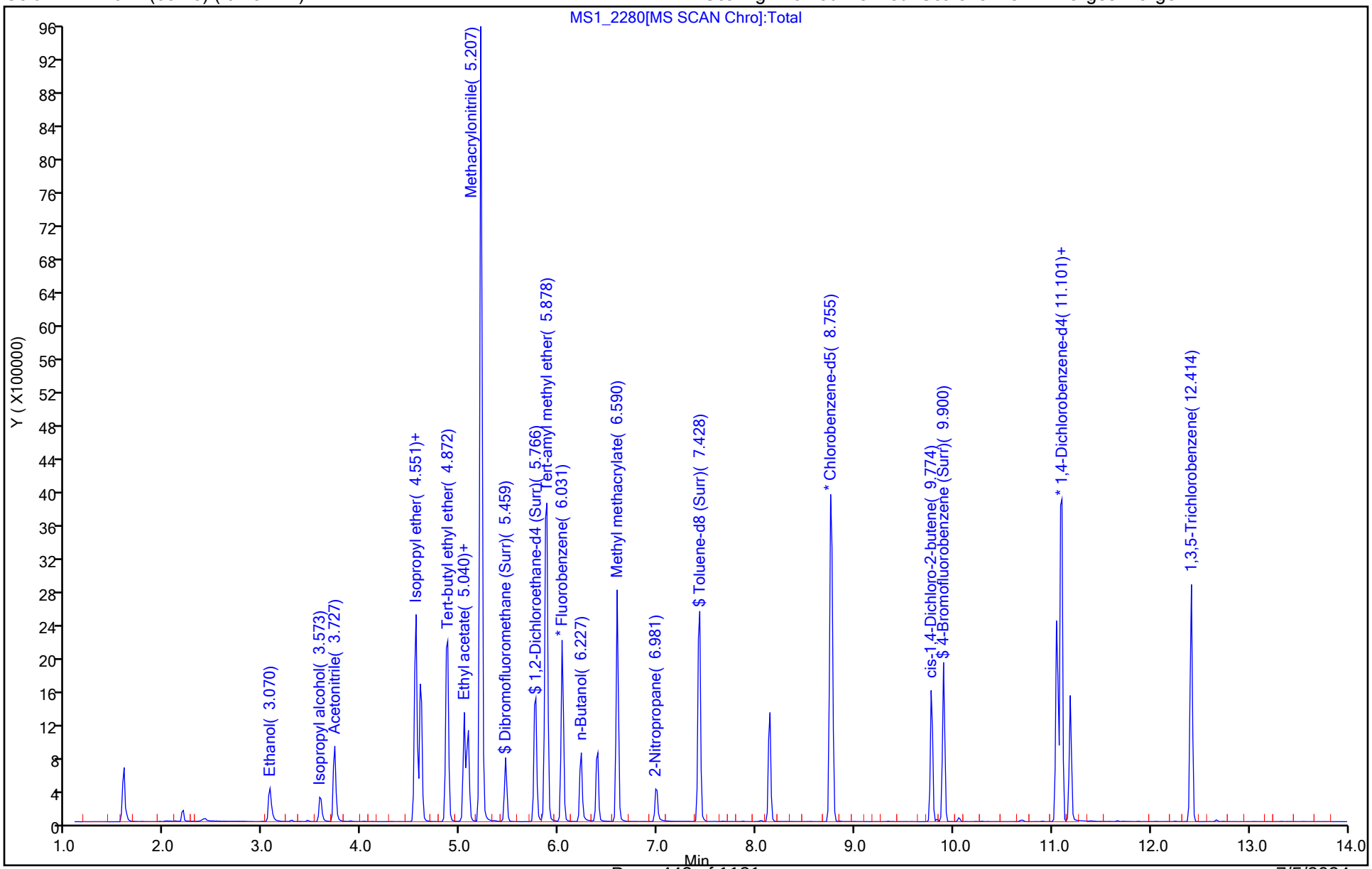
Report Date: 08-Apr-2024 16:02:47 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2280.D

Injection Date:	05-Apr-2024 12:01:30	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#:	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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2281.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Apr-2024 12:22:30 ALS Bottle#: 10 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:48 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:56:26

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	99	1812943	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	85	447801	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	95	711700	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	415295	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	464489	50.0	49.0	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1857994	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	89	640611	50.0	51.0	
17 Ethanol	45	3.071	3.071	0.000	99	407807	4500.0	4523.0	
25 Isopropyl alcohol	45	3.573	3.573	0.000	98	309924	750.0	718.3	
27 Acetonitrile	41	3.727	3.727	0.000	99	733961	750.0	729.2	
40 Isopropyl ether	87	4.551	4.551	0.000	93	467684	75.0	71.1	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	755822	75.0	70.5	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	1452602	75.0	73.6	
47 Ethyl acetate	43	5.040	5.040	0.000	98	954944	150.0	153.7	
48 Propionitrile	54	5.082	5.082	0.000	99	849477	750.0	758.5	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	3163418	750.0	748.6	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	97	1401002	75.0	74.4	
65 n-Butanol	56	6.227	6.227	0.000	85	354553	1875.0	1894.4	
70 Methyl methacrylate	100	6.590	6.590	0.000	89	326564	150.0	159.0	
74 2-Nitropropane	41	6.981	6.981	0.000	98	173197	150.0	157.2	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	277928	150.0	169.0	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	97	2125091	75.0	70.3	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	98	749912	75.0	70.9	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 75.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

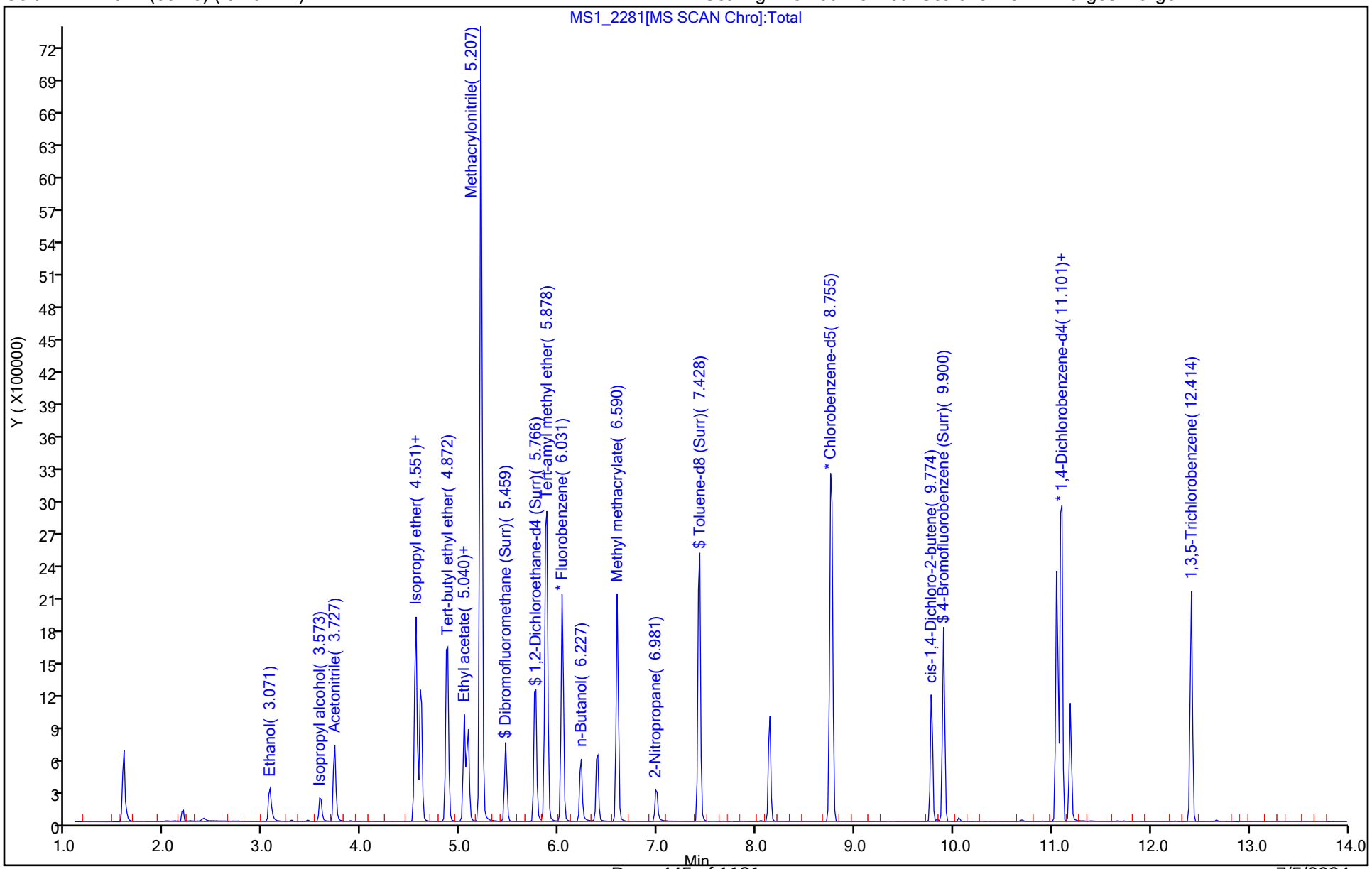
Report Date: 08-Apr-2024 16:02:48 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2281.D

Injection Date:	05-Apr-2024 12:22:30	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#:	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\20240405-131907.b\MS1_2282.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Apr-2024 12:43:30 ALS Bottle#: 11 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: wickhamt Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:50 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:56:10

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	99	1797719	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	86	448223	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	96	725481	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	412903	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	480694	50.0	51.2	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1833481	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	641905	50.0	50.1	
17 Ethanol	45	3.070	3.071	-0.001	100	271678	3000.0	3038.7	
25 Isopropyl alcohol	45	3.573	3.573	0.000	98	205906	500.0	481.3	
27 Acetonitrile	41	3.727	3.727	0.000	99	481338	500.0	482.3	
40 Isopropyl ether	87	4.551	4.551	0.000	94	324284	50.0	49.7	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	90	507339	50.0	47.7	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	988123	50.0	50.5	
47 Ethyl acetate	43	5.040	5.040	0.000	99	633031	100.0	102.8	
48 Propionitrile	54	5.082	5.082	0.000	99	560688	500.0	504.9	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	2124860	500.0	507.1	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	97	935864	50.0	50.1	
65 n-Butanol	56	6.227	6.227	0.000	85	235666	1250.0	1269.9	
70 Methyl methacrylate	100	6.590	6.590	0.000	89	214082	100.0	105.1	
74 2-Nitropropane	41	6.981	6.981	0.000	99	109514	100.0	100.3	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	176919	100.0	105.5	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	1465509	50.0	47.6	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	98	501920	50.0	46.5	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 50.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

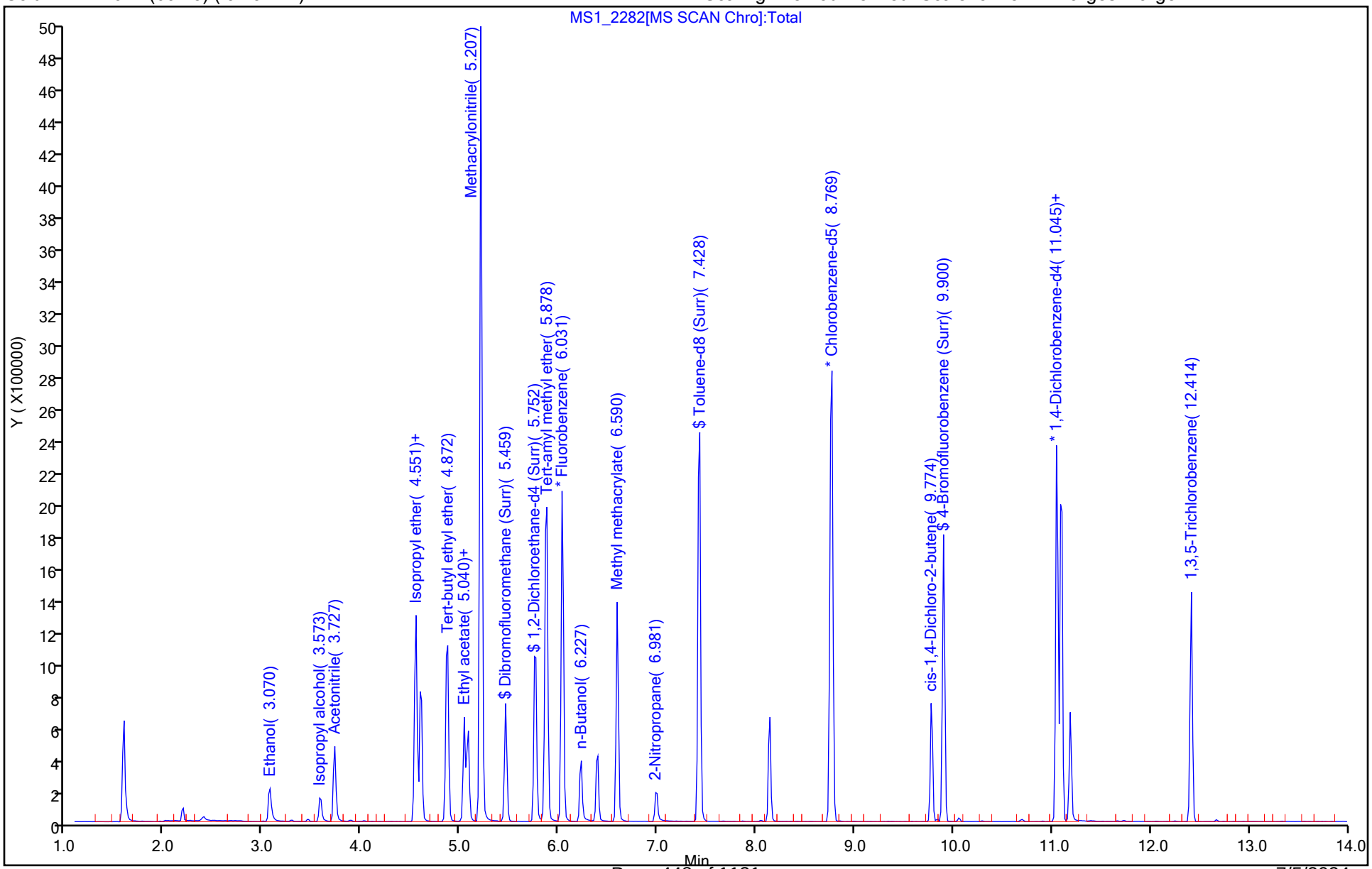
Report Date: 08-Apr-2024 16:02:50 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2282.D

Injection Date:	05-Apr-2024 12:43:30	Instrument ID:	VMS_MS1	Operator ID:	wickhamt
Lims ID:	ic			Worklist Smp#:	16
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2283.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Apr-2024 13:04:30 ALS Bottle#: 12 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:52 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 16:00:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	1761783	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	86	435095	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	96	702097	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	403561	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	452070	50.0	49.1	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1804630	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	622706	50.0	50.3	
17 Ethanol	45	3.071	3.071	-0.001	100	55404	600.0	632.3	
25 Isopropyl alcohol	45	3.573	3.573	0.000	98	41598	100.0	99.2	
27 Acetonitrile	41	3.727	3.727	0.000	100	101388	100.0	103.7	
40 Isopropyl ether	87	4.551	4.551	0.000	93	58770	10.0	9.20	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	97157	10.0	9.33	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	96	189706	10.0	9.90	
47 Ethyl acetate	43	5.040	5.040	0.000	99	116583	20.0	19.3	
48 Propionitrile	54	5.082	5.082	0.000	99	109920	100.0	101.0	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	411384	100.0	100.2	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	90	177629	10.0	9.71	
65 n-Butanol	56	6.227	6.227	0.000	88	46121	250.0	253.6	
70 Methyl methacrylate	100	6.590	6.590	0.000	87	39833	20.0	20.0	
74 2-Nitropropane	41	6.981	6.981	0.000	98	19427	20.0	18.2	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	29296	20.0	18.1	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	97	284057	10.0	9.53	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	96	105535	10.0	10.1	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 10.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

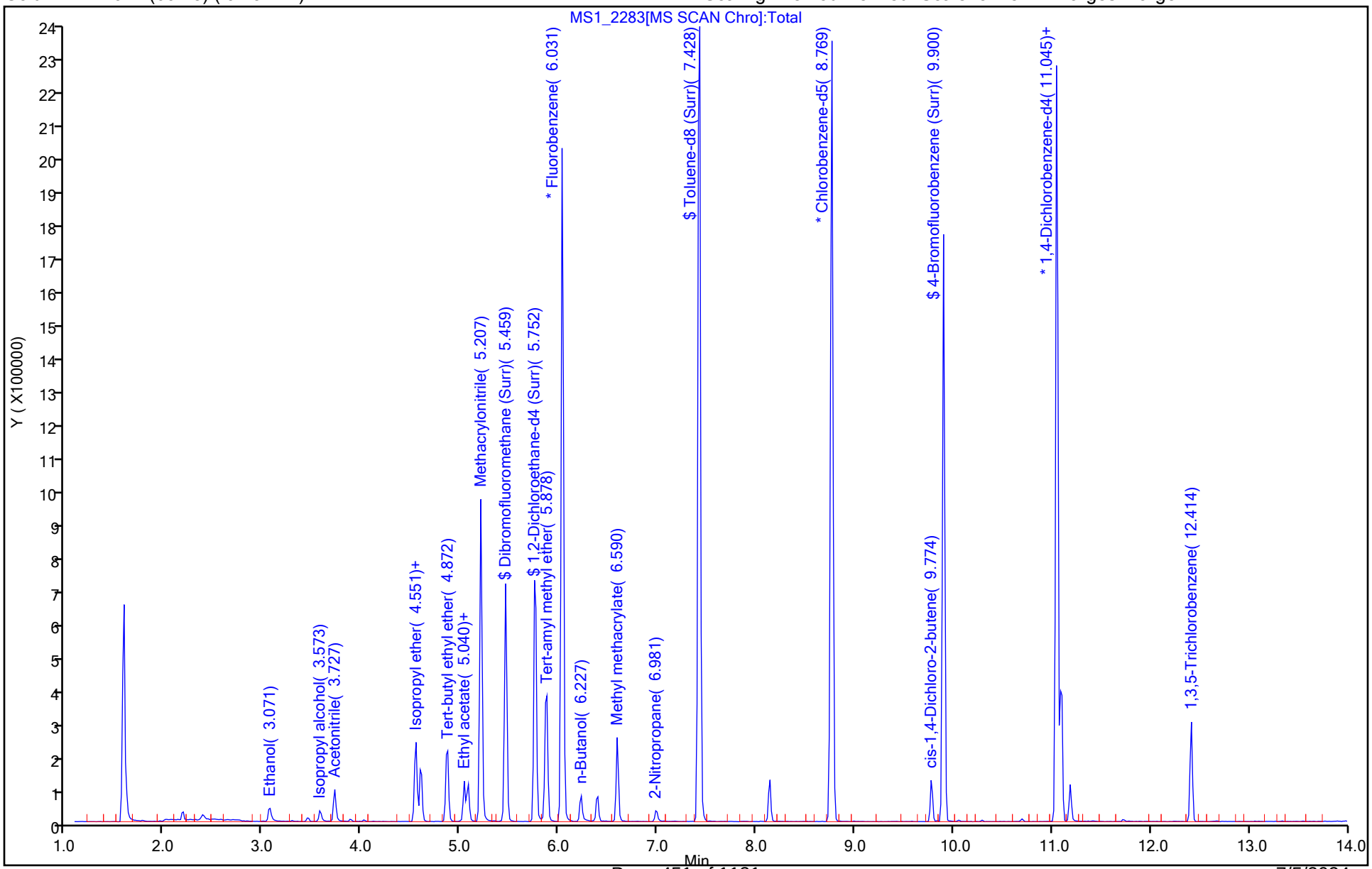
Report Date: 08-Apr-2024 16:02:52 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2283.D

Injection Date:	05-Apr-2024 13:04:30	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#:	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
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2284.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Apr-2024 13:26:30 ALS Bottle#: 13 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:53 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:55:46

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	99	1755962	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	84	429690	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	95	709610	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	399072	50.0	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	460435	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1787232	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	89	622346	50.0	49.7	
17 Ethanol	45	3.071	3.071	-0.001	100	25667	300.0	293.9	
25 Isopropyl alcohol	45	3.573	3.573	0.000	96	20973	50.0	50.2	
27 Acetonitrile	41	3.727	3.727	0.000	98	50665	50.0	52.0	
40 Isopropyl ether	87	4.551	4.551	0.000	94	32845	5.00	5.16	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	53807	5.00	5.18	
43 Tert-butyl ethyl ether	59	4.858	4.872	-0.014	97	97221	5.00	5.09	
47 Ethyl acetate	43	5.040	5.040	0.000	98	59627	10.0	9.91	
48 Propionitrile	54	5.082	5.082	0.000	99	54046	50.0	49.8	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	212787	50.0	52.0	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	91	87676	5.00	4.81	
65 n-Butanol	56	6.227	6.227	0.000	90	20723	125.0	114.3	
70 Methyl methacrylate	100	6.590	6.590	0.000	89	19685	10.0	9.90	
74 2-Nitropropane	41	6.981	6.981	0.000	99	10188	10.0	9.55	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	14926	10.0	9.10	
122 1,2,3-Trimethylbenzene	105	11.087	11.101	-0.014	99	154281	5.00	5.12	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	60773	5.00	5.76	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added:	5.00	Units: uL	
mv-IS_SS_00078	Amount Added:	5.00	Units: uL	Run Reagent

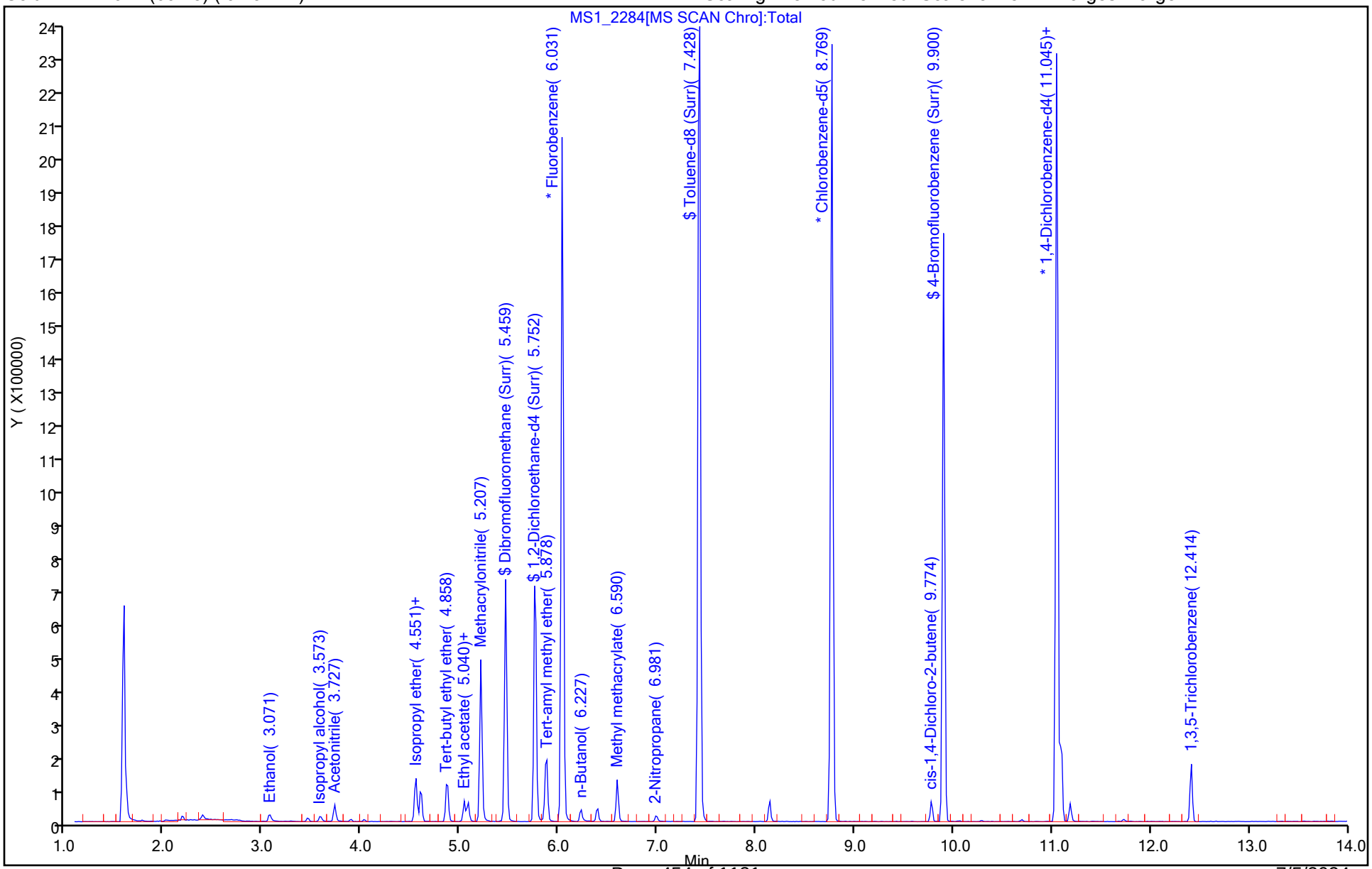
Report Date: 08-Apr-2024 16:02:54 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2284.D

Injection Date:	05-Apr-2024 13:26:30	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#:	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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2285.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Apr-2024 13:47:30 ALS Bottle#: 14 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:54 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:55:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	1742782	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	84	429419	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	95	702650	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	397351	50.0	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	450910	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1794978	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	91	610478	50.0	49.2	
17 Ethanol	45	3.071	3.071	0.000	98	11006	120.0	127.0	
25 Isopropyl alcohol	45	3.587	3.573	0.014	98	9086	20.0	21.9	
27 Acetonitrile	41	3.727	3.727	0.000	99	22727	20.0	23.5	
40 Isopropyl ether	87	4.551	4.551	0.000	93	15611	2.00	2.47	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	22861	2.00	2.22	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	96	40135	2.00	2.12	
47 Ethyl acetate	43	5.040	5.040	0.000	98	24146	4.00	4.04	
48 Propionitrile	54	5.082	5.082	0.000	99	22091	20.0	20.5	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	85731	20.0	21.1	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	97	38671	2.00	2.14	
65 n-Butanol	56	6.227	6.227	0.000	88	9021	50.0	50.1	
70 Methyl methacrylate	100	6.590	6.590	0.000	88	8240	4.00	4.17	
74 2-Nitropropane	41	6.981	6.981	0.000	99	4092	4.00	3.86	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	6089	4.00	3.75	
122 1,2,3-Trimethylbenzene	105	11.087	11.101	-0.014	96	68111	2.00	2.28	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	25172	2.00	2.41	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added:	2.00	Units: uL	
mv-IS_SS_00078	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Apr-2024 16:02:55 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2285.D

Injection Date:	05-Apr-2024 13:47:30	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#:	14
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Apr-2024 14:08:30 ALS Bottle#: 15 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*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:56 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: V8PV Date: 08-Apr-2024 15:54:14

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	1769098	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	85	432461	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	95	723464	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	402656	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	460020	50.0	49.8	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1807643	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	634218	50.0	49.7	
17 Ethanol	45	3.071	3.071	0.000	97	5381	60.0	61.2	
25 Isopropyl alcohol	45	3.587	3.573	0.014	97	5112	10.0	12.1	
27 Acetonitrile	41	3.727	3.727	0.000	98	13907	10.0	14.2	
40 Isopropyl ether	87	4.551	4.551	0.000	91	6769	1.00	1.05	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	91	12313	1.00	1.18	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	95	19814	1.00	1.03	
47 Ethyl acetate	43	5.040	5.040	0.000	98	12811	2.00	2.11	
48 Propionitrile	54	5.082	5.082	0.000	98	11622	10.0	10.6	
50 Methacrylonitrile	41	5.207	5.207	0.000	89	42837	10.0	10.4	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	92	20195	1.00	1.10	
65 n-Butanol	56	6.227	6.227	0.000	81	5076	25.0	27.8	
70 Methyl methacrylate	100	6.590	6.590	0.000	93	3404	2.00	1.70	
74 2-Nitropropane	41	6.981	6.981	0.000	87	1432	2.00	1.33	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	3105	2.00	1.86	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	93	37643	1.00	1.23	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	93	14936	1.00	1.39	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added:	1.00	Units: uL	
mv-IS_SS_00078	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Apr-2024 16:02:56 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Injection Date:	05-Apr-2024 14:08:30	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#:	15
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 VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-657652/13	MS1_5585.D
Level 2	IC 280-657652/14	MS1_5586.D
Level 3	IC 280-657652/15	MS1_5587.D
Level 4	IC 280-657652/16	MS1_5564.D
Level 5	IC 280-657652/17	MS1_5565.D
Level 6	ICIS 280-657652/18	MS1_5566.D
Level 7	IC 280-657652/19	MS1_5567.D
Level 8	IC 280-657652/20	MS1_5568.D
Level 9	IC 280-657652/21	MS1_5569.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2158 0.2149	0.2259 0.2096	0.2130 0.2095	0.2271 0.2014	0.2190	Ave		0.2151				3.8		15.0			
Chloromethane	0.2930 0.2126	0.2488 0.2039	0.2527 0.2010	0.2334 0.2109	0.2270	Ave		0.2315			0.1000	12.8		15.0			
Vinyl chloride	0.2870 0.2134	0.2096 0.1920	0.2450 0.2085	0.2219 0.1784	0.2182	Lin2	0.0378	0.2032							0.9900		0.9900
Bromomethane	+++++ 0.0849	0.1278 0.0956	0.1273 0.1061	0.1016 0.1084	0.1058	Ave		0.1072				13.6		15.0			
Chloroethane	+++++ 0.1135	0.1199 0.1126	0.1498 0.1218	0.1218 0.1105	0.1334	Ave		0.1229				10.6		15.0			
Dichlorofluoromethane	+++++ 0.2957	0.3560 0.3155	0.3895 0.3345	0.3287 0.3362	0.3616	Ave		0.3397				8.6		15.0			
Trichlorofluoromethane	0.3002 0.2231	0.2306 0.2412	0.2617 0.2510	0.2375 0.2436	0.2677	Ave		0.2507				9.3		15.0			
Ethyl ether	0.1372 0.1523	0.1615 0.1532	0.1447 0.1550	0.1746 0.1660	0.1606	Ave		0.1561				7.2		15.0			
Acrolein	0.0144 0.0117	0.0142 0.0125	0.0135 0.0124	0.0138 0.0136	0.0123	Ave		0.0132				7.1		15.0			
1,1-Dichloroethene	0.1939 0.1513	0.1562 0.1539	0.1590 0.1566	0.1652 0.1702	0.1537	Ave		0.1622				8.2		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1114 0.1146	0.1373 0.1173	0.1236 0.1160	0.1180 0.1252	0.1168	Ave		0.1200				6.4		15.0			
Acetone	0.3539 0.0602	0.1966 0.0609	0.1320 0.0604	0.0941 0.0650	0.0714	Lin2	0.5813	0.0595							0.9930		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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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	+++++ 0.1780	+++++ 0.1789	+++++ 0.1839	0.0954 0.2076	0.1307	Lin2	-0.512	0.1921							0.9960		0.9900
Carbon disulfide	0.5768 0.4731	0.4820 0.4874	0.4587 0.4805	0.4805 0.5370	0.4755	Ave		0.4946				7.6		15.0			
Methyl acetate	0.1703 0.1409	0.1406 0.1461	0.1383 0.1456	0.1639 0.1583	0.1454	Ave		0.1499				7.6		15.0			
Allyl chloride	+++++ 0.2687	0.3919 0.2705	0.3119 0.2679	0.3243 0.2535	0.2830	Lin2	0.1213	0.2684							0.9960		0.9900
Methylene Chloride	+++++ 0.1822	0.2451 0.1831	0.2367 0.1864	0.2168 0.1987	0.2009	Ave		0.2062				11.8		15.0			
2-Methyl-2-propanol	0.0150 0.0157	0.0160 0.0181	0.0152 0.0182	0.0194 0.0213	0.0160	Ave		0.0172				12.5		15.0			
Acrylonitrile	0.0865 0.0760	0.0766 0.0799	0.0803 0.0780	0.0910 0.0828	0.0804	Ave		0.0813				6.0		15.0			
Methyl tert-butyl ether	0.5330 0.4931	0.5045 0.5109	0.4791 0.5076	0.5443 0.5424	0.5031	Ave		0.5131				4.4		15.0			
trans-1,2-Dichloroethene	0.1968 0.1731	0.1749 0.1744	0.1626 0.1718	0.1778 0.1885	0.1795	Ave		0.1777				5.6		15.0			
Hexane	1.2146 1.1012	1.2554 1.1294	1.0159 1.0927	1.0493 1.1834	1.0754	Ave		1.1241				7.0		15.0			
Vinyl acetate	0.3582 0.3442	0.3160 0.3703	0.3061 0.3563	0.3781 0.3582	0.3572	Ave		0.3494				6.8		15.0			
1,1-Dichloroethane	0.4069 0.3191	0.3190 0.3272	0.3237 0.3206	0.3472 0.3425	0.3317	Ave		0.3375			0.1000	8.3		15.0			
2-Butanone (MEK)	0.1074 0.0915	0.0950 0.0956	0.0900 0.0956	0.1082 0.1031	0.0934	Ave		0.0977				6.9		15.0			
cis-1,2-Dichloroethene	0.2309 0.1904	0.1866 0.1965	0.2065 0.1949	0.2142 0.2110	0.2057	Ave		0.2041				6.7		15.0			
2,2-Dichloropropane	0.2400 0.2300	0.2240 0.2368	0.2279 0.2379	0.2301 0.2595	0.2223	Ave		0.2343				4.8		15.0			
sec-Butyl Alcohol	+++++ 0.0139	0.0128 0.0157	0.0110 0.0159	0.0161 0.0182	0.0132	Lin1	-0.224	0.0168							0.9910		0.9900
Chlorobromomethane	0.1197 0.0846	0.0897 0.0852	0.0853 0.0837	0.1063 0.0873	0.0892	Ave		0.0923				13.4		15.0			
Tetrahydrofuran	0.0691 0.0625	0.0694 0.0648	0.0651 0.0637	0.0715 0.0704	0.0647	Ave		0.0668				4.9		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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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	0.3224 0.2953	0.3238 0.2999	0.3079 0.2978	0.3239 0.3219	0.3100	Ave		0.3114				3.8		30.0			
1,1,1-Trichloroethane	0.2525 0.2403	0.2322 0.2494	0.2439 0.2466	0.2527 0.2699	0.2534	Ave		0.2490				4.2		15.0			
Cyclohexane	0.3451 0.3159	0.3394 0.3222	0.3170 0.3191	0.3174 0.3460	0.3379	Ave		0.3289				3.9		15.0			
1,1-Dichloropropene	0.2972 0.2479	0.2529 0.2565	0.2598 0.2499	0.2469 0.2729	0.2500	Ave		0.2593				6.3		15.0			
Carbon tetrachloride	0.1990 0.1917	0.1915 0.1984	0.1646 0.1998	0.1907 0.2231	0.1835	Ave		0.1936				8.0		15.0			
Isobutyl alcohol	+++++ 0.0058	0.0054 0.0064	0.0053 0.0066	0.0073 0.0073	0.0055	Ave		0.0062				13.3		15.0			
Benzene	0.8263 0.7450	0.7882 0.7542	0.7687 0.7465	0.7906 0.7867	0.7879	Ave		0.7771				3.4		15.0			
1,2-Dichloroethane	+++++ 0.2260	0.2594 0.2279	0.2350 0.2246	0.2665 0.2418	0.2437	Ave		0.2406				6.5		15.0			
n-Heptane	0.2409 0.2105	0.2404 0.2151	0.2126 0.2132	0.2027 0.2327	0.2081	Ave		0.2196				6.6		15.0			
Trichloroethene	0.7665 0.7500	0.8310 0.7694	0.7902 0.7700	0.7868 0.8395	0.8325	Ave		0.7929				4.2		15.0			
2-Pentanone	0.1436 0.1392	0.1395 0.1473	0.1337 0.1429	0.1555 0.1595	0.1412	Ave		0.1447				5.7		15.0			
Methylcyclohexane	0.2785 0.2366	0.2273 0.2394	0.2358 0.2415	0.2202 0.2607	0.2350	Ave		0.2417				7.3		15.0			
1,2-Dichloropropane	0.2302 0.1904	0.1996 0.1968	0.2086 0.1921	0.2049 0.2102	0.1962	Ave		0.2032				6.0		30.0			
1,4-Dioxane	0.0037 0.0026	0.0029 0.0027	0.0031 0.0026	0.0034 0.0030	0.0028	Ave		0.0030				12.4		15.0			
Dibromomethane	0.1087 0.1053	0.0965 0.1093	0.1081 0.1086	0.1217 0.1165	0.1103	Ave		0.1094				6.4		15.0			
Dichlorobromomethane	0.2321 0.2194	0.2005 0.2231	0.1926 0.2263	0.2139 0.2464	0.2073	Ave		0.2180				7.6		15.0			
2-Chloroethyl vinyl ether	0.0286 0.0326	0.0281 0.0345	0.0340 0.0334	0.0343 0.0348	0.0288	Ave		0.0321				8.7		15.0			
cis-1,3-Dichloropropene	1.2121 1.2188	1.0864 1.2737	1.0806 1.2700	1.2387 1.4046	1.1730	Ave		1.2176				8.2		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
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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)	0.1618 0.1767	0.1785 0.1869	0.1677 0.1850	0.2045 0.1983	0.1794	Ave		0.1821				7.4		15.0			
Toluene	0.9322 0.7992	0.8026 0.7955	0.8143 0.7974	0.8534 0.8456	0.8393	Ave		0.8310				5.3		30.0			
trans-1,3-Dichloropropene	0.2269 0.2423	0.2058 0.2537	0.1876 0.2618	0.2414 0.2897	0.2271	Ave		0.2374				12.8		15.0			
Ethyl methacrylate	0.9026 0.9766	1.0216 1.0428	0.9380 1.0457	1.0851 1.1516	1.0246	Ave		1.0209				7.4		15.0			
1,1,2-Trichloroethane	0.1882 0.1606	0.1546 0.1663	0.1707 0.1658	0.1870 0.1780	0.1670	Ave		0.1709				6.7		15.0			
Tetrachloroethene	0.6280 0.5604	0.5964 0.5735	0.5590 0.5642	0.6133 0.6266	0.5920	Ave		0.5904				4.7		15.0			
1,3-Dichloropropane	1.2160 1.2537	1.3161 1.3060	1.4117 1.2640	1.4625 1.3677	1.3683	Ave		1.3296				6.0		15.0			
2-Hexanone	0.5299 0.5148	0.5417 0.5620	0.5237 0.5395	0.6291 0.5883	0.5335	Ave		0.5514				6.6		15.0			
Chlorodibromomethane	0.6492 0.6537	0.5528 0.7022	0.5625 0.7063	0.6822 0.7814	0.6295	Ave		0.6578				10.9		15.0			
1,2-Dibromoethane	0.7279 0.6918	0.6867 0.7266	0.6622 0.7104	0.7662 0.7851	0.7372	Ave		0.7216				5.4		15.0			
1-Chlorohexane	+++++ 1.0104	1.3523 1.0481	1.2027 1.0268	1.0899 1.1340	1.0797	Ave		1.1180				10.1		15.0			
Chlorobenzene	2.2684 2.0890	2.2115 2.1379	2.1923 2.0691	2.3903 2.2521	2.1969	Ave		2.2008			0.3000	4.5		15.0			
1,1,1,2-Tetrachloroethane	0.5945 0.6355	0.6364 0.6809	0.6093 0.6777	0.6463 0.7540	0.6193	Ave		0.6504				7.4		15.0			
Ethylbenzene	1.2749 1.1697	1.2328 1.2137	1.2509 1.1735	1.2495 1.3090	1.1989	Ave		1.2303				3.8		30.0			
m-Xylene & p-Xylene	1.4141 1.4395	1.4639 1.4796	1.4809 1.4377	1.5780 1.5811	1.4683	Ave		1.4826				4.0		15.0			
o-Xylene	1.3916 1.4151	1.4894 1.4427	1.4634 1.4222	1.4557 1.5292	1.4353	Ave		1.4494				2.9		15.0			
Styrene	2.3275 2.3136	2.0583 2.3839	2.2978 2.3363	2.5476 2.5364	2.3266	Ave		2.3475				6.1		15.0			
Bromoform	0.3493 0.3843	0.3627 0.4150	0.3255 0.4221	0.4154 0.4843	0.3684	Ave		0.3919			0.1000	12.2		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
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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	2.4483 2.2742	2.2519 2.3148	2.1696 2.2723	2.2524 2.3674	2.2816	Ave		2.2925				3.4		15.0			
Cyclohexanone	0.0472 0.0440	0.0399 0.0475	0.0456 0.0464	0.0537 +++++	0.0449	Ave		0.0462				8.4		15.0			
1,1,2,2-Tetrachloroethane	0.6950 0.6147	0.6242 0.6251	0.6110 0.6151	0.7300 0.6586	0.6411	Ave		0.6461			0.3000	6.4		15.0			
Bromobenzene	0.5423 0.5212	0.4448 0.5278	0.5756 0.5279	0.5652 0.5727	0.5345	Ave		0.5347				7.4		15.0			
trans-1,4-Dichloro-2-butene	0.1667 0.1260	0.1352 0.1426	0.1188 0.1429	0.1468 0.1615	0.1204	Ave		0.1401				12.1		15.0			
1,2,3-Trichloropropane	0.2353 0.1841	0.2447 0.1851	0.1859 0.1817	0.2108 0.1994	0.1845	Ave		0.2013				11.9		15.0			
N-Propylbenzene	0.6800 0.6382	0.6435 0.6441	0.5928 0.6363	0.6626 0.6876	0.6514	Ave		0.6485				4.3		15.0			
2-Chlorotoluene	0.6559 0.5111	0.5370 0.5300	0.4930 0.5305	0.5331 0.5776	0.5451	Ave		0.5459				8.6		15.0			
1,3,5-Trimethylbenzene	2.0220 1.8857	1.8362 1.9152	1.8076 1.8798	1.8874 1.9982	1.8907	Ave		1.9025				3.6		15.0			
4-Chlorotoluene	0.6039 0.5420	0.6080 0.5560	0.4870 0.5525	0.5945 0.5944	0.5588	Ave		0.5663				6.8		15.0			
tert-Butylbenzene	1.7398 1.5789	1.4732 1.6056	1.5278 1.6024	1.5649 1.6983	1.5932	Ave		1.5982				5.1		15.0			
1,2,4-Trimethylbenzene	1.9570 1.9481	1.9349 1.9708	1.7639 1.9600	1.9274 2.0435	1.9687	Ave		1.9416				3.8		15.0			
sec-Butylbenzene	0.5353 0.4487	0.4395 0.4700	0.4377 0.4719	0.4314 0.5042	0.4741	Ave		0.4681				7.3		15.0			
1,3-Dichlorobenzene	1.1733 0.9952	1.0271 1.0019	1.0151 0.9875	1.0711 1.0740	1.0217	Ave		1.0408				5.6		15.0			
4-Isopropyltoluene	2.1323 1.9718	1.8995 1.9801	1.7557 2.0015	1.8652 2.1185	1.8946	Ave		1.9577				6.1		15.0			
1,4-Dichlorobenzene	1.0871 1.0083	1.1100 1.0167	1.0414 1.0265	1.1156 1.0900	1.0415	Ave		1.0597				3.9		15.0			
n-Butylbenzene	1.8396 1.7652	1.6312 1.8118	1.6609 1.7897	1.7043 1.9125	1.6286	Ave		1.7493				5.7		15.0			
1,2-Dichlorobenzene	0.8336 0.9281	0.9527 0.9280	0.8556 0.9470	1.0213 1.0137	0.9731	Ave		0.9392				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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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	+++++ 0.0896	0.0637 0.1003	0.0755 0.1062	0.0973 0.1171	0.0896	Lin2	-0.041	0.1020							0.9910		0.9900
1,2,4-Trichlorobenzene	0.5923 0.4663	0.4817 0.5067	0.4424 0.5188	0.4868 0.5627	0.4621	Ave		0.5022				9.8		15.0			
Hexachlorobutadiene	0.2231 0.1825	0.2129 0.1907	0.1884 0.1912	0.1560 0.2106	0.1660	Ave		0.1913				11.4		15.0			
Naphthalene	1.5833 1.0668	1.1237 1.2531	1.0211 1.2740	1.1574 1.3830	1.0692	Ave		1.2146				14.9		15.0			
1,2,3-Trichlorobenzene	0.4449 0.3492	0.3557 0.3884	0.3420 0.3938	0.3823 0.4381	0.3323	Ave		0.3808				10.6		15.0			
Dibromofluoromethane (Surr)	0.2227 0.2245	0.2209 0.2260	0.2231 0.2290	0.2249 0.2276	0.2240	Ave		0.2248				1.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2569 0.2602	0.2534 0.2628	0.2645 0.2567	0.2594 0.2540	0.2590	Ave		0.2585				1.4		15.0			
Toluene-d8 (Surr)	4.2334 4.2747	4.3944 4.3206	4.3345 4.1820	4.3431 4.2518	4.3478	Ave		4.2980				1.6		15.0			
4-Bromofluorobenzene (Surr)	0.9537 0.9523	0.9358 0.9617	0.9376 0.9414	0.9352 0.9271	0.9531	Ave		0.9442				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.: 280-193176-1 | Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 | Calibration End Date: 06/19/2024 23:49 | Calibration ID: 94690

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-657652/13	MS1_5585.D
Level 2	IC 280-657652/14	MS1_5586.D
Level 3	IC 280-657652/15	MS1_5587.D
Level 4	IC 280-657652/16	MS1_5564.D
Level 5	IC 280-657652/17	MS1_5565.D
Level 6	ICIS 280-657652/18	MS1_5566.D
Level 7	IC 280-657652/19	MS1_5567.D
Level 8	IC 280-657652/20	MS1_5568.D
Level 9	IC 280-657652/21	MS1_5569.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	4648 488417	9897 735190	18487 977374	50082 1906969	99117	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	6312 483111	10902 715158	21932 937740	51462 1997019	102756	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Lin2	6183 484844	9186 673426	21265 972708	48947 1689216	98774	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 192974	5602 335308	11047 494854	22400 1026612	47882	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	+++++ 257822	5252 395056	13002 568193	26854 1045997	60382	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	+++++ 671892	15600 1106625	33802 1560809	72483 3183819	163660	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	6466 506904	10106 846181	22709 1170859	52386 2307116	121155	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	2955 346133	7076 537342	12556 723296	38503 1572370	72698	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	3059 263476	6155 433228	11569 571891	30033 1269489	54909	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1-Dichloroethene	FB	Ave	4177 343697	6844 539976	13799 730837	36422 1612166	69548	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	2400 260319	6014 411611	10727 541189	26031 1185483	52862	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	30488 547620	34462 854474	45834 1127557	83006 2462872	129194	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Iodomethane	FB	Lin2	+++++ 404450	+++++ 627652	+++++ 857829	21028 1965676	59133	+++++ 50.0	+++++ 75.0	+++++ 100	5.00 200	10.0
Carbon disulfide	FB	Ave	12425 1074960	21118 1709639	39805 2242048	105968 5084712	215217	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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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
Methyl acetate	FB	Ave	7335 640216	12321 1024618	24008 1358839	72290 2997546	131623	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Lin2	+++++ 610505	17171 948861	27064 1249807	71524 2400536	128076	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	+++++ 414012	10741 642288	20542 869651	47810 1881652	90910	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	3241 357265	7024 633634	13226 849394	42887 2013923	72267	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	18625 1726485	33569 2804119	69665 3638197	200715 7838051	363805	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	11481 1120560	22106 1791883	41576 2368475	120037 5136277	227716	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	4240 393363	7665 611714	14107 801442	39202 1785046	81232	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZd5	Ave	6015 577933	12250 906384	19859 1191839	52536 2601708	110408	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	15431 1564399	27690 2597555	53125 3324352	166767 6784239	323324	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	8765 724986	13978 1147783	28095 1495724	76567 3243166	150129	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	9255 831907	16647 1341651	31227 1783779	95407 3906111	169046	2.00 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Ave	4973 432668	8178 689206	17922 909454	47237 1998008	93113	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	5169 522688	9815 830545	19774 1110105	50738 2457158	100603	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin1	+++++ 760055	13500 1322833	22815 1783123	85322 4129071	143055	+++++ 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	2579 192214	3929 298958	7407 390686	23438 826905	40365	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	2977 284089	6083 454335	11307 594290	31518 1332807	58591	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	6945 670899	14189 1051973	26725 1389373	71423 3048244	140310	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	5439 545960	10174 874833	21170 1150373	55731 2555840	114698	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	7433 717849	14871 1130175	27509 1488908	69995 3276495	152912	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	6402 563218	11080 899674	22547 1165841	54456 2584563	113148	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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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
Carbon tetrachloride	FB	Ave	4286 435628	8389 695867	14282 932302	42048 2112659	83060	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Ave	+++++ 329856	5862 564676	11437 769984	39994 1736014	62687	+++++ 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	17798 1692791	34536 2645546	66707 3482962	174344 7449683	356605	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	+++++ 513539	11368 799224	20394 1047922	58775 2289253	110310	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	5190 478330	10533 754504	18453 994603	44702 2203383	94192	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZd5	Ave	3796 393620	8109 617450	15448 839906	39394 1845636	85476	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Ave	9896 1011845	19566 1653177	37130 2133852	109736 4833720	204473	1.60 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	5999 537587	9960 839720	20464 1126529	48572 2468516	106365	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	4958 432680	8745 690232	18102 896397	45189 1990727	88788	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Ave	1588 117109	2531 192052	5371 246463	15043 563201	25018	10.0 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	2342 239385	4227 383507	9380 506754	26835 1103368	49905	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	4999 498597	8784 782476	16719 1055924	47167 2333037	93832	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	617 74065	1230 120999	2947 155717	7572 329811	13018	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZd5	Ave	6003 639631	10601 1022115	21124 1385269	62023 3088110	120428	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13944 1606110	31290 2622631	58223 3453016	180386 7511891	324834	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	20079 1815955	35168 2790134	70669 3720234	188201 8007454	379844	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	4887 550594	9016 889812	16282 1221621	53237 2742841	102768	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZd5	Ave	4470 512537	9968 836885	18336 1140602	54328 2531695	105191	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	4053 365023	6772 583239	14816 773331	41237 1685495	75591	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.: 280-193176-1 | Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 | Calibration End Date: 06/19/2024 23:49 | Calibration ID: 94690

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
Tetrachloroethene	CBNZd5	Ave	3110 294103	5819 460263	10927 615421	30708 1377507	60776	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZd5	Ave	6022 657953	12842 1048087	27597 1378767	73228 3006852	140483	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZd5	Ave	10498 1080612	21144 1804033	40949 2353672	125989 5173599	219111	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZd5	Ave	3215 343084	5394 563482	10997 770427	34155 1717846	64633	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZd5	Ave	3605 363086	6701 583099	12945 774823	38361 1725994	75687	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZd5	Ave	+++++ 424205	10556 672901	18809 895954	43657 1994500	88680	+++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZd5	Ave	11234 1096314	21579 1715678	42856 2256902	119682 4951153	225554	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2944 333536	6210 546410	11910 739164	32359 1657568	63583	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZd5	Ave	6314 613865	12029 974007	24454 1279969	62561 2877943	123084	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZd5	Ave	7003 755462	14284 1187402	28950 1568181	79010 3476164	150749	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZd5	Ave	6892 742644	14533 1157758	28607 1551307	72886 3361918	147362	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZd5	Ave	11527 1214180	20084 1913062	44919 2548317	127554 5576338	238864	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZd5	Ave	1730 201694	3539 333054	6363 460417	20801 1064740	37821	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd4	Ave	18325 1828113	34502 2890135	67239 3799042	179476 8124699	363715	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZd5	Ave	7009	11682	26747	80729	138225	15.0	30.0	60.0	150	300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 | Calibration End Date: 06/19/2024 23:49 | Calibration ID: 94690

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
			692982	1143180	1518577	+++++		1500	2250	3000	+++++	
1,1,2,2-Tetrachloroethane	DCBd4	Ave	5202 494145	9563 780416	18935 1028386	58168 2260104	102201	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd4	Ave	4059 418935	6815 658983	17839 882611	45033 1965267	85212	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	1248 101305	2072 178001	3683 238957	11697 554096	19188	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd4	Ave	1761 148015	3749 231055	5761 303732	16801 684219	29418	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd4	Ave	5090 513032	9860 804245	18370 1063874	52801 2359878	103845	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd4	Ave	4909 410889	8227 661771	15280 886899	42477 1982141	86896	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	15134 1515839	28133 2391299	56018 3142861	150391 6857564	301409	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd4	Ave	4520 435664	9316 694183	15093 923753	47370 2039987	89080	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd4	Ave	13022 1269188	22571 2004659	47349 2679061	124697 5828262	253986	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	14648 1566010	29646 2460632	54665 3276927	153579 7012977	313846	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd4	Ave	4007 360699	6733 586825	13564 788891	34373 1730393	75573	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd4	Ave	8782 799993	15737 1250943	31459 1651052	85350 3685855	162876	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd4	Ave	15960 1585090	29103 2472234	54412 3346226	148624 7270441	302026	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd4	Ave	8137 810551	17006 1269476	32274 1716093	88892 3740880	166028	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd4	Ave	13769 1418995	24993 2262149	51473 2992097	135801 6563403	259627	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd4	Ave	6239 746058	14597 1158719	26516 1583207	81381 3478944	155130	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Lin2	+++++ 72013	976 125256	2341 177571	7751 401938	14284	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	4433 374833	7380 632588	13709 867313	38791 1931008	73673	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd4	Ave	1670 146707	3262 238143	5838 319605	12427 722899	26466	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd4	Ave	11851 857574	17217 1564539	31645 2130032	92221 4746128	170448	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.: 280-193176-1 Analy Batch No.: 657652

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 20:59 Calibration End Date: 06/19/2024 23:49 Calibration ID: 94690

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
1,2,3-Trichlorobenzene	DCBd4	Ave	3330 280722	5450 484908	10599 658428	30463 1503611	52975	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	479646 510236	484069 528434	484025 534322	495927 538855	506914	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	553297 591343	555116 614643	573860 598839	572042 601245	586064	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	2096562 2243387	2143956 2311552	2118327 2280764	2174559 2336896	2231890	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	713798 765555	716888 800489	726410 786932	745205 795415	759707	50.0 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

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5585.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Jun-2024 20:59:30 ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:32 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:47:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	2154011	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	495243	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	748484	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	479646	50.0	49.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	553297	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	2096562	50.0	49.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	713798	50.0	50.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	96	4648	0.5000	0.5015	
10 Chloromethane	50	2.008	2.009	-0.001	98	6312	0.5000	0.6330	
11 Vinyl chloride	62	2.134	2.134	0.000	95	6183	0.5000	0.5204	
13 Bromomethane	94	2.511	2.497	0.014	90	4529	0.5000	0.9808	
14 Chloroethane	64	2.623	2.623	0.000	98	4427	0.5000	0.8361	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	98	11017	0.5000	0.7528	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	96	6466	0.5000	0.5986	
18 Ethyl ether	59	3.168	3.168	0.000	90	2955	0.5000	0.4393	
20 Acrolein	56	3.321	3.321	0.000	92	3059	4.94	5.40	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	69	2400	0.5000	0.4642	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	96	4177	0.5000	0.5977	
23 Acetone	43	3.447	3.447	0.000	100	30488	2.00	2.12	
24 Iodomethane	142	3.559	3.559	0.000	69	1939	0.5000	2.90	M
26 Carbon disulfide	76	3.629	3.629	0.000	97	12425	0.5000	0.5831	
28 Methyl acetate	43	3.754	3.754	0.000	92	7335	1.00	1.14	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	88	11082	0.5000	0.5065	
30 Methylene Chloride	84	3.894	3.894	0.000	92	6760	0.5000	0.7608	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	3241	5.00	4.37	
32 Acrylonitrile	53	4.103	4.104	-0.001	94	18625	5.00	5.32	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	84	11481	0.5000	0.5194	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	97	4240	0.5000	0.5538	
36 Hexane	57	4.383	4.383	0.000	89	6015	0.5000	0.5402	
38 Vinyl acetate	43	4.522	4.523	-0.001	95	15431	1.00	1.03	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	72	8765	0.5000	0.6028	

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	5.025	5.011	0.014	94	9255	2.00	2.20	
46 2,2-Dichloropropane	77	5.053	5.039	0.014	71	5169	0.5000	0.5122	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	4973	0.5000	0.5656	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	94	6686	12.0	22.6	
51 Chlorobromomethane	128	5.249	5.249	0.000	92	2579	0.5000	0.6483	
52 Tetrahydrofuran	42	5.249	5.249	0.000	78	2977	1.00	1.03	
53 Chloroform	83	5.318	5.319	-0.001	94	6945	0.5000	0.5176	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	35	5439	0.5000	0.5071	
57 Cyclohexane	56	5.542	5.542	0.000	91	7433	0.5000	0.5246	
59 Carbon tetrachloride	117	5.612	5.612	0.000	69	4286	0.5000	0.5139	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	95	6402	0.5000	0.5730	
60 Isobutyl alcohol	41	5.668	5.654	0.014	89	2563	12.5	9.60	
61 Benzene	78	5.793	5.793	0.000	93	17798	0.5000	0.5316	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	95	7702	0.5000	0.7430	M
64 n-Heptane	43	6.017	6.017	0.000	35	5190	0.5000	0.5486	
66 Trichloroethene	95	6.352	6.352	0.000	92	3796	0.5000	0.4834	
67 2-Pentanone	43	6.478	6.478	0.000	97	9896	1.60	1.59	
68 Methylcyclohexane	55	6.561	6.562	-0.001	90	5999	0.5000	0.5762	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	93	4958	0.5000	0.5663	
71 1,4-Dioxane	88	6.617	6.631	-0.014	60	1588	10.0	12.4	
72 Dibromomethane	93	6.659	6.659	0.000	85	2342	0.5000	0.4967	
73 Dichlorobromomethane	83	6.799	6.799	0.000	97	4999	0.5000	0.5324	
75 2-Chloroethyl vinyl ether	63	7.036	7.023	0.013	11	617	0.5000	0.4459	M
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	6003	0.5000	0.4978	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	95	13944	2.00	1.78	
80 Toluene	91	7.483	7.483	0.000	95	20079	0.5000	0.5608	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	4887	0.5000	0.4779	
84 Ethyl methacrylate	69	7.707	7.707	0.000	88	4470	0.5000	0.4420	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	90	4053	0.5000	0.5505	
89 Tetrachloroethene	164	7.958	7.958	0.000	91	3110	0.5000	0.5319	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	87	6022	0.5000	0.4573	
91 2-Hexanone	43	8.042	8.042	0.000	96	10498	2.00	1.92	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	89	3215	0.5000	0.4935	
95 Ethylene Dibromide	107	8.349	8.349	0.000	98	3605	0.5000	0.5044	
96 1-Chlorohexane	91	8.768	8.754	0.014	33	7601	0.4000	0.6864	
97 Chlorobenzene	112	8.796	8.796	0.000	93	11234	0.5000	0.5153	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	41	2944	0.5000	0.4570	
98 Ethylbenzene	106	8.880	8.880	0.000	97	6314	0.5000	0.5181	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	7003	0.5000	0.4769	
101 o-Xylene	106	9.369	9.369	0.000	94	6892	0.5000	0.4801	
103 Styrene	104	9.397	9.397	0.000	95	11527	0.5000	0.4957	
104 Bromoform	173	9.578	9.578	0.000	84	1730	0.5000	0.4457	
105 Isopropylbenzene	105	9.718	9.718	0.000	93	18325	0.5000	0.5340	
107 Cyclohexanone	55	9.830	9.830	0.000	90	7009	15.0	15.3	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	89	5202	0.5000	0.5379	
109 Bromobenzene	156	10.053	10.053	0.000	96	4059	0.5000	0.5071	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	43	1248	0.5000	0.5950	
111 1,2,3-Trichloropropane	110	10.095	10.081	0.014	47	1761	0.5000	0.5845	
112 N-Propylbenzene	120	10.137	10.137	0.000	96	5090	0.5000	0.5243	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	4909	0.5000	0.6007	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	15134	0.5000	0.5314	
115 4-Chlorotoluene	126	10.346	10.346	0.000	96	4520	0.5000	0.5331	

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	92	13022	0.5000	0.5443	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	94	14648	0.5000	0.5040	
118 sec-Butylbenzene	134	10.835	10.849	-0.014	94	4007	0.5000	0.5719	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	91	8782	0.5000	0.5637	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	96	15960	0.5000	0.5446	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	89	8137	0.5000	0.5130	
124 n-Butylbenzene	91	11.408	11.408	0.000	96	13769	0.5000	0.5258	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	86	6239	0.5000	0.4437	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	1	755	0.5000	0.9004	M
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	86	4433	0.5000	0.5897	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	82	1670	0.5000	0.5833	
130 Naphthalene	128	13.335	13.335	0.000	96	11851	0.5000	0.6518	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	92	3330	0.5000	0.5842	
S 147 1,2-Dichloroethene, Total (URS)	96				0		1.00	1.12	
S 148 Xylenes, Total	106				0		1.00	0.9570	
S 150 Xylenes, Total (URS)	1				0		1.00	0.9570	
S 151 Total BTEX	1				0			2.57	
S 152 Trihalomethanes, Total	1				0		2.00	1.99	
S 153 1,2-Dichloroethene, Total	1				0		1.00	1.12	
S 154 1,3-Dichloropropene, Total	1				0		1.00	0.9757	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00374	Amount Added:	5.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 20-Jun-2024 06:43:33 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5585.D

Injection Date: 19-Jun-2024 20:59:30 Instrument ID: VMS_MS1 Operator ID: bj

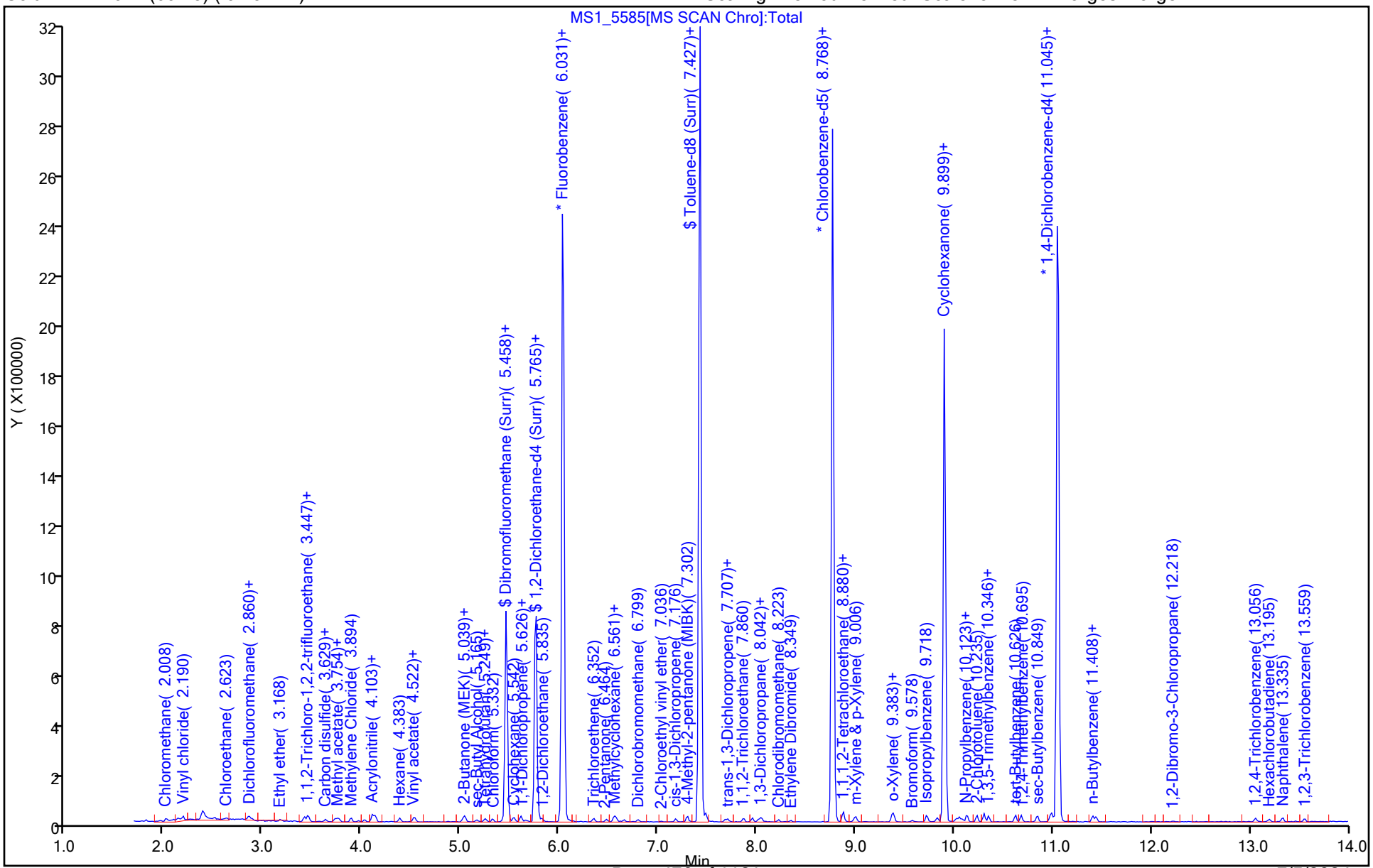
Lims ID: ic Worklist Smp#: 13

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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

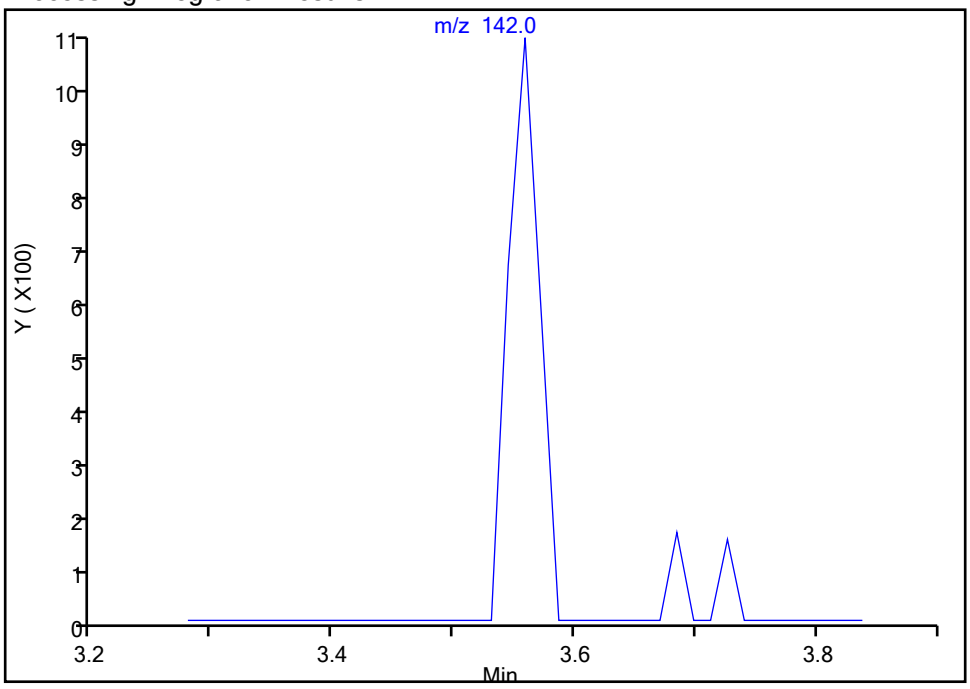
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5585.D
Injection Date: 19-Jun-2024 20:59:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: bj ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Iodomethane, CAS: 74-88-4

Signal: 1

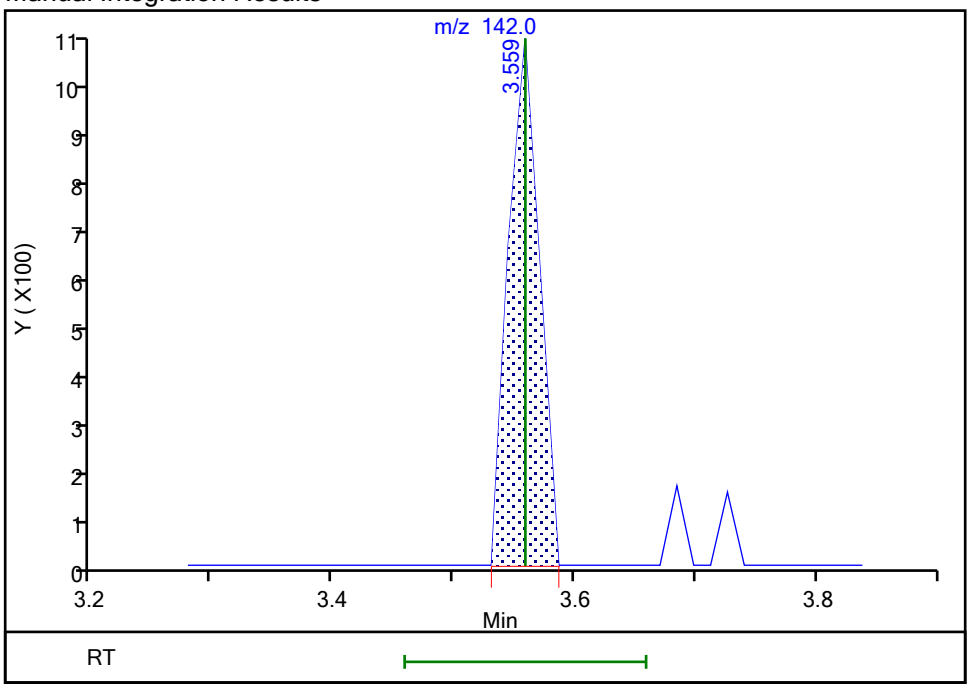
Not Detected
Expected RT: 3.56

Processing Integration Results



Manual Integration Results

RT: 3.56
Area: 1939
Amount: 2.899902
Amount Units: ug/l



Reviewer: AF7X, 20-Jun-2024 05:46:37 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

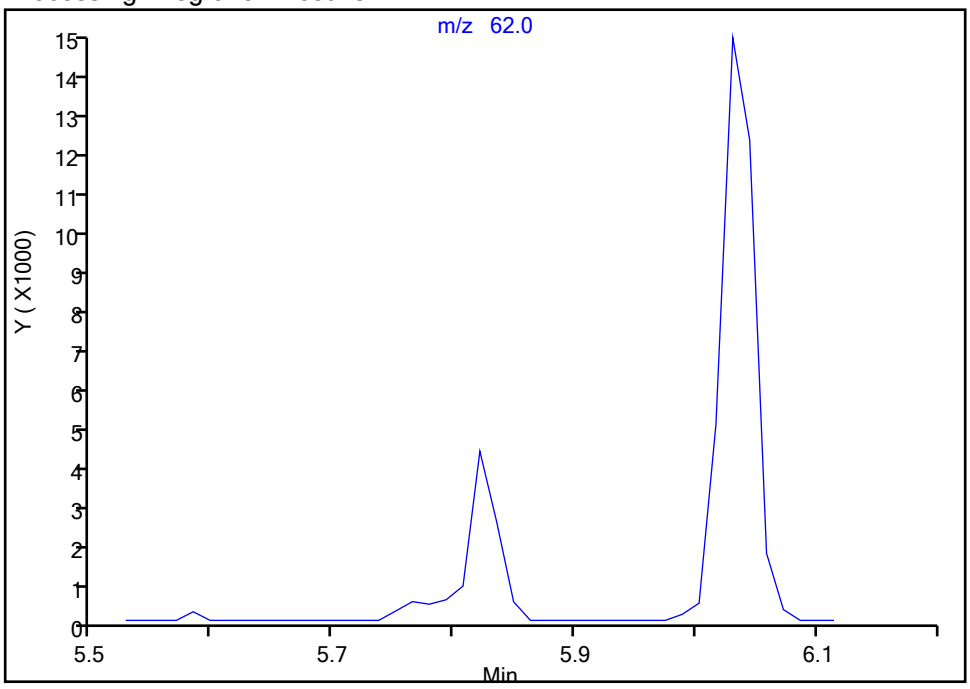
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Injection Date: 19-Jun-2024 20:59:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: bj ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

62 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

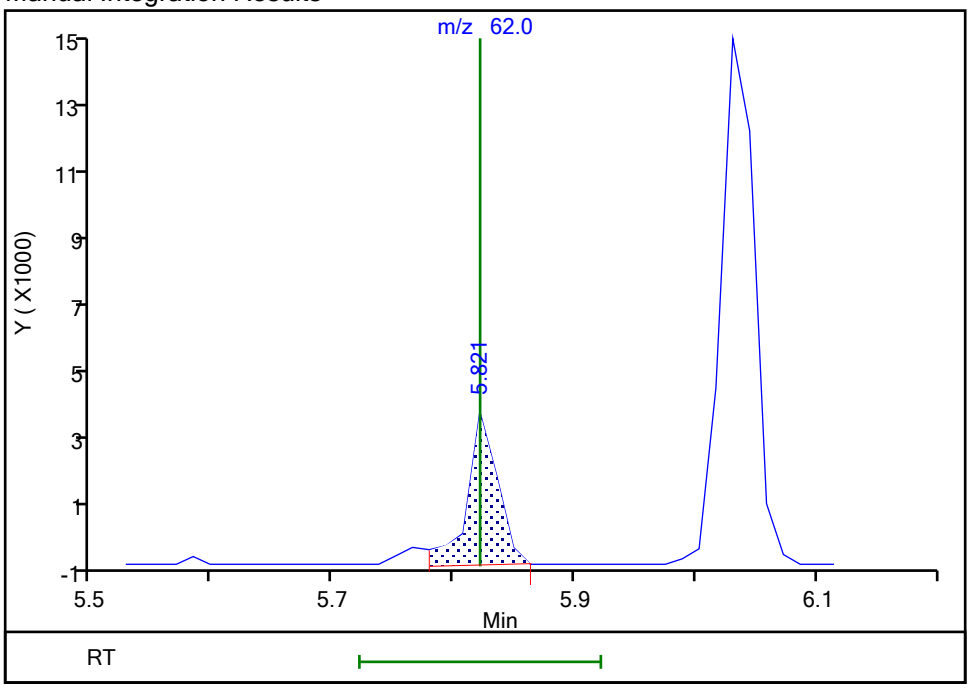
Not Detected
Expected RT: 5.82

Processing Integration Results



Manual Integration Results

RT: 5.82
Area: 7702
Amount: 0.743035
Amount Units: ug/l



Reviewer: AF7X, 20-Jun-2024 05:47:09 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

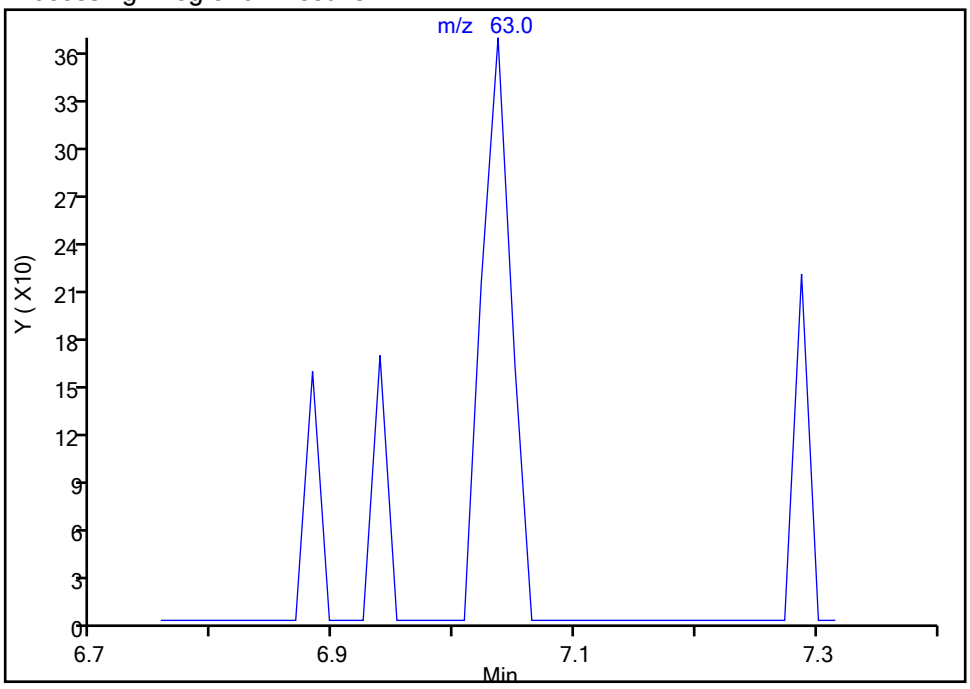
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Injection Date: 19-Jun-2024 20:59:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: bj ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

75 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

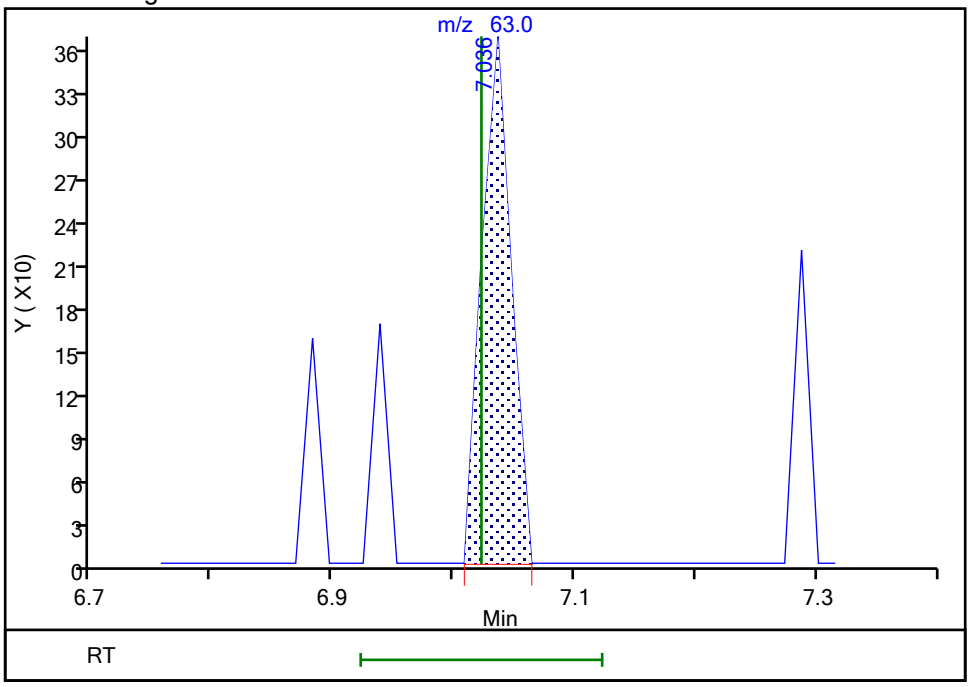
Not Detected
Expected RT: 7.02

Processing Integration Results



Manual Integration Results

RT: 7.04
Area: 617
Amount: 0.445915
Amount Units: ug/l



Reviewer: AF7X, 20-Jun-2024 05:47:20 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

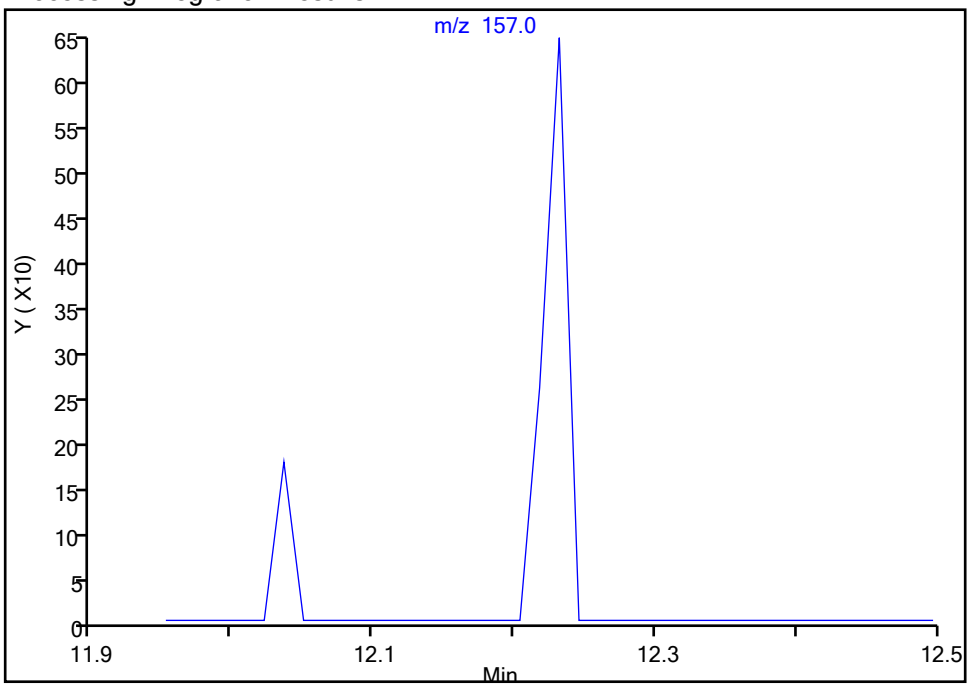
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5585.D
Injection Date: 19-Jun-2024 20:59:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: bj ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

126 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

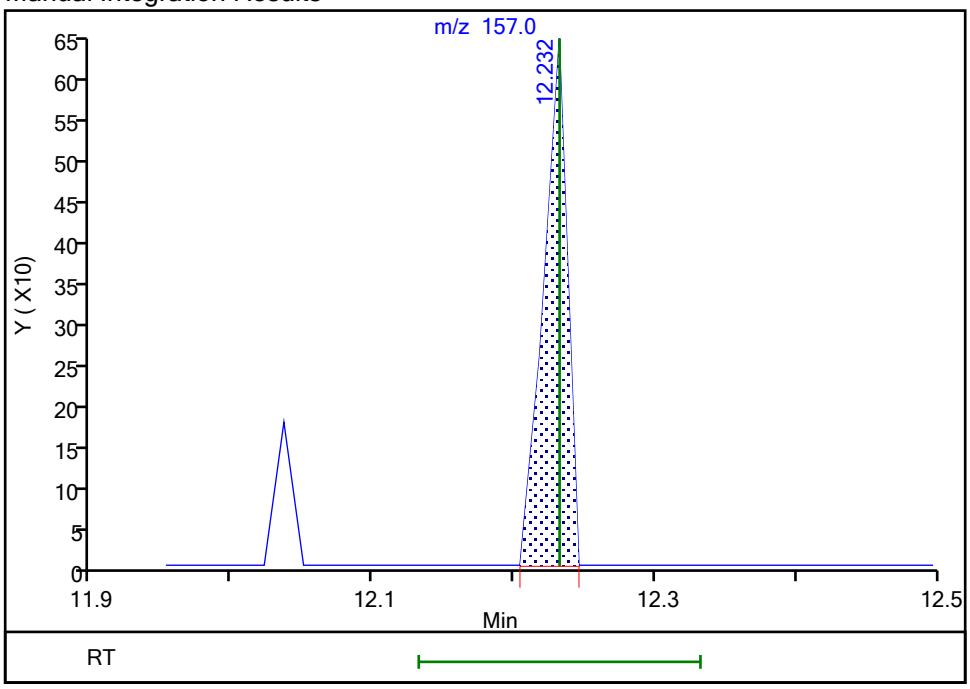
Not Detected
Expected RT: 12.23

Processing Integration Results



Manual Integration Results

RT: 12.23
Area: 755
Amount: 0.900384
Amount Units: ug/l



Reviewer: AF7X, 20-Jun-2024 05:47:28 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5586.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2024 21:20:30 ALS Bottle#: 4 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:36 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:48:51

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	99	2190855	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	487883	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	766069	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	484069	50.0	49.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	555116	50.0	49.0	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	2143956	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	86	716888	50.0	49.6	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	9897	1.00	1.05	
10 Chloromethane	50	2.009	2.009	0.000	99	10902	1.00	1.07	
11 Vinyl chloride	62	2.134	2.134	0.000	96	9186	1.00	0.8458	
13 Bromomethane	94	2.497	2.497	0.000	89	5602	1.00	1.19	
14 Chloroethane	64	2.623	2.623	0.000	93	5252	1.00	0.9753	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	96	15600	1.00	1.05	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	94	10106	1.00	0.9198	
18 Ethyl ether	59	3.168	3.168	0.000	93	7076	1.00	1.03	
20 Acrolein	56	3.321	3.321	0.000	94	6155	9.88	10.7	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	97	6844	1.00	0.9628	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	77	6014	1.00	1.14	
23 Acetone	43	3.447	3.447	0.000	99	34462	4.00	3.45	
24 Iodomethane	142	3.559	3.559	0.000	95	3225	1.00	3.05	
26 Carbon disulfide	76	3.629	3.629	0.000	98	21118	1.00	0.9744	
28 Methyl acetate	43	3.754	3.754	0.000	96	12321	2.00	1.88	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	91	17171	1.00	1.01	
30 Methylene Chloride	84	3.894	3.894	0.000	82	10741	1.00	1.19	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	95	7024	10.0	9.31	
32 Acrylonitrile	53	4.103	4.104	-0.001	95	33569	10.0	9.43	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	96	22106	1.00	0.9832	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	98	7665	1.00	0.9844	
36 Hexane	57	4.383	4.383	0.000	90	12250	1.00	1.12	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	27690	2.00	1.81	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	95	13978	1.00	0.9451	

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	5.025	5.011	0.014	97	16647	4.00	3.89	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	60	9815	1.00	0.9562	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	84	8178	1.00	0.9145	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	97	13500	24.0	31.7	
51 Chlorobromomethane	128	5.249	5.249	0.000	93	3929	1.00	0.9710	
52 Tetrahydrofuran	42	5.263	5.249	0.014	78	6083	2.00	2.08	
53 Chloroform	83	5.319	5.319	-0.001	92	14189	1.00	1.04	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	35	10174	1.00	0.9325	
57 Cyclohexane	56	5.542	5.542	0.000	88	14871	1.00	1.03	
59 Carbon tetrachloride	117	5.612	5.612	0.000	78	8389	1.00	0.9890	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	11080	1.00	0.9751	
60 Isobutyl alcohol	41	5.668	5.654	0.014	90	5862	25.0	21.6	
61 Benzene	78	5.793	5.793	0.000	95	34536	1.00	1.01	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	94	11368	1.00	1.08	
64 n-Heptane	43	6.017	6.017	0.000	84	10533	1.00	1.09	
66 Trichloroethene	95	6.352	6.352	0.000	97	8109	1.00	1.05	
67 2-Pentanone	43	6.478	6.478	0.000	98	19566	3.20	3.09	
68 Methylcyclohexane	55	6.562	6.562	0.000	83	9960	1.00	0.9406	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	94	8745	1.00	0.9821	
71 1,4-Dioxane	88	6.631	6.631	0.000	47	2531	20.0	19.4	
72 Dibromomethane	93	6.659	6.659	0.000	89	4227	1.00	0.8814	
73 Dichlorobromomethane	83	6.799	6.799	0.000	97	8784	1.00	0.9198	
75 2-Chloroethyl vinyl ether	63	7.036	7.023	0.013	81	1230	1.00	0.8740	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	94	10601	1.00	0.8923	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	31290	4.00	3.92	
80 Toluene	91	7.483	7.483	0.000	97	35168	1.00	0.9658	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	90	9016	1.00	0.8669	
84 Ethyl methacrylate	69	7.707	7.707	0.000	88	9968	1.00	1.00	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	89	6772	1.00	0.9043	
89 Tetrachloroethene	164	7.958	7.958	0.000	91	5819	1.00	1.01	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	85	12842	1.00	0.9899	
91 2-Hexanone	43	8.042	8.042	0.000	95	21144	4.00	3.93	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	89	5394	1.00	0.8404	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	6701	1.00	0.9517	
96 1-Chlorohexane	91	8.754	8.754	0.000	69	10556	0.8000	0.9677	
97 Chlorobenzene	112	8.796	8.796	0.000	95	21579	1.00	1.00	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	42	6210	1.00	0.9785	
98 Ethylbenzene	106	8.880	8.880	0.000	98	12029	1.00	1.00	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	14284	1.00	0.9874	
101 o-Xylene	106	9.369	9.369	0.000	96	14533	1.00	1.03	
103 Styrene	104	9.397	9.397	0.000	93	20084	1.00	0.8768	
104 Bromoform	173	9.578	9.578	0.000	92	3539	1.00	0.9255	
105 Isopropylbenzene	105	9.718	9.718	0.000	95	34502	1.00	0.9823	
107 Cyclohexanone	55	9.830	9.830	0.000	93	11682	30.0	25.9	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	9563	1.00	0.9661	
109 Bromobenzene	156	10.053	10.053	0.000	93	6815	1.00	0.8319	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	42	2072	1.00	0.9652	
111 1,2,3-Trichloropropane	110	10.095	10.081	0.014	84	3749	1.00	1.22	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	9860	1.00	0.99	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	8227	1.00	0.9836	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	28133	1.00	0.9651	
115 4-Chlorotoluene	126	10.346	10.346	0.000	96	9316	1.00	1.07	

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	92	22571	1.00	0.9217	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	96	29646	1.00	1.00	
118 sec-Butylbenzene	134	10.835	10.849	-0.014	95	6733	1.00	0.9388	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	94	15737	1.00	0.9869	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	96	29103	1.00	0.9703	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	92	17006	1.00	1.05	
124 n-Butylbenzene	91	11.408	11.408	0.000	97	24993	1.00	0.9325	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	14597	1.00	1.01	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	1	976	1.00	1.03	M
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	91	7380	1.00	0.9592	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	89	3262	1.00	1.11	
130 Naphthalene	128	13.335	13.335	0.000	98	17217	1.00	0.9252	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	92	5450	1.00	0.9342	
S 147 1,2-Dichloroethene, Total (URS)	96				0		2.00	1.90	
S 148 Xylenes, Total	106				0		2.00	2.01	
S 150 Xylenes, Total (URS)	1				0		2.00	2.01	
S 151 Total BTEX	1				0			5.00	
S 152 Trihalomethanes, Total	1				0		4.00	3.73	
S 153 1,2-Dichloroethene, Total	1				0		2.00	1.90	
S 154 1,3-Dichloropropene, Total	1				0		2.00	1.76	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00374	Amount Added:	10.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 20-Jun-2024 06:43:36 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5586.D

Injection Date:	19-Jun-2024 21:20:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	14
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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

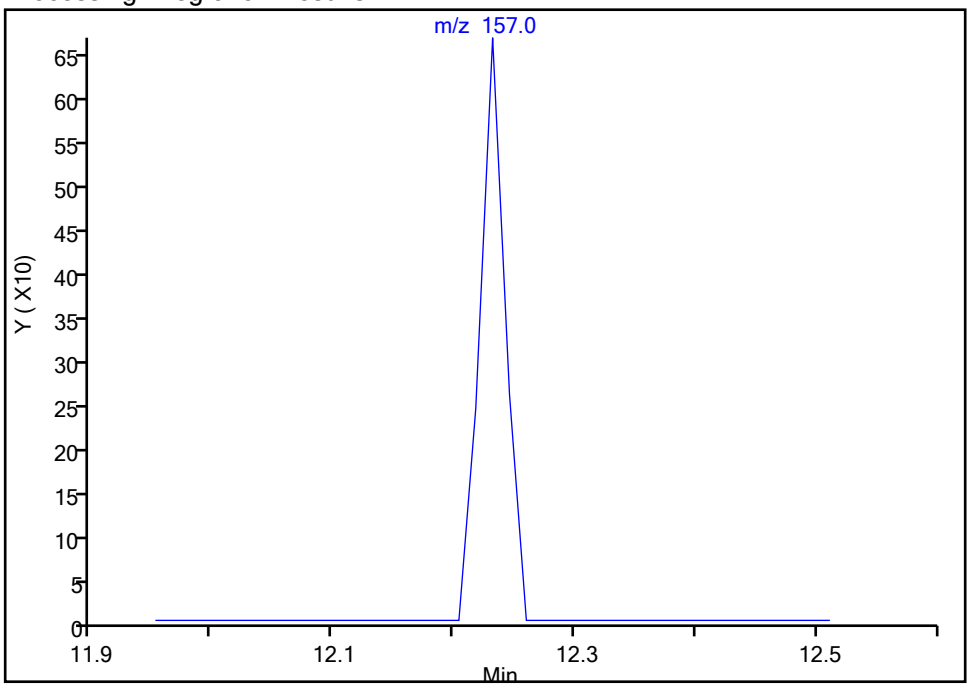
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5586.D
Injection Date: 19-Jun-2024 21:20:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: bj ALS Bottle#: 4 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

126 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

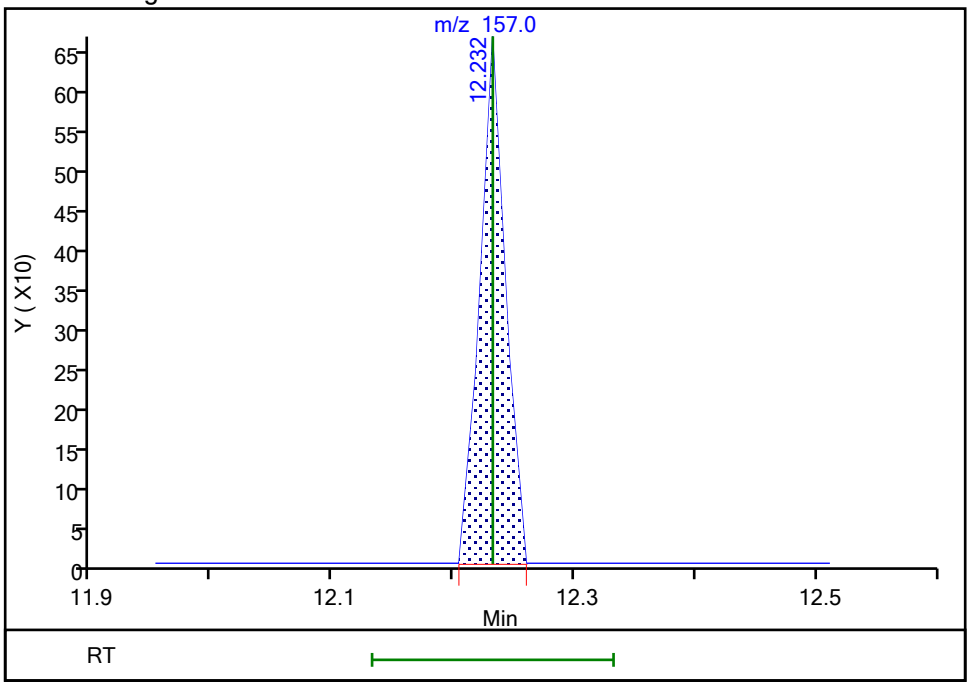
Not Detected
Expected RT: 12.23

Processing Integration Results



Manual Integration Results

RT: 12.23
Area: 976
Amount: 1.030473
Amount Units: ug/l



Reviewer: AF7X, 20-Jun-2024 05:48:37 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5587.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2024 21:41:30 ALS Bottle#: 5 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:39 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:49:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	2169615	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	488715	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	774776	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	484025	50.0	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	573860	50.0	51.2	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	2118327	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	726410	50.0	49.6	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	97	18487	2.00	1.98	
10 Chloromethane	50	2.009	2.009	0.000	98	21932	2.00	2.18	
11 Vinyl chloride	62	2.134	2.134	0.000	98	21265	2.00	2.23	
13 Bromomethane	94	2.497	2.497	0.000	91	11047	2.00	2.38	
14 Chloroethane	64	2.623	2.623	0.000	98	13002	2.00	2.44	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	96	33802	2.00	2.29	
16 Trichlorofluoromethane	101	2.889	2.889	-0.001	95	22709	2.00	2.09	
18 Ethyl ether	59	3.168	3.168	0.000	88	12556	2.00	1.85	
20 Acrolein	56	3.321	3.321	0.000	96	11569	19.8	20.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	95	10727	2.00	2.06	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	13799	2.00	1.96	
23 Acetone	43	3.447	3.447	0.000	99	45834	8.00	7.99	
24 Iodomethane	142	3.559	3.559	0.000	96	6596	2.00	3.46	
26 Carbon disulfide	76	3.629	3.629	0.000	98	39805	2.00	1.85	
28 Methyl acetate	43	3.754	3.754	0.000	96	24008	4.00	3.69	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	95	27064	2.00	1.87	
30 Methylene Chloride	84	3.894	3.894	0.000	89	20542	2.00	2.30	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	95	13226	20.0	17.7	
32 Acrylonitrile	53	4.104	4.104	0.000	98	69665	20.0	19.8	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	95	41576	2.00	1.87	
34 trans-1,2-Dichloroethene	96	4.132	4.145	-0.013	96	14107	2.00	1.83	
36 Hexane	57	4.383	4.383	0.000	92	19859	2.00	1.81	
38 Vinyl acetate	43	4.523	4.523	0.000	97	53125	4.00	3.50	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	94	28095	2.00	1.92	

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	5.011	5.011	0.000	98	31227	8.00	7.36	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	63	19774	2.00	1.95	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	81	17922	2.00	2.02	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	96	22815	48.0	44.7	
51 Chlorobromomethane	128	5.249	5.249	0.000	94	7407	2.00	1.85	
52 Tetrahydrofuran	42	5.263	5.249	0.014	85	11307	4.00	3.90	
53 Chloroform	83	5.319	5.319	0.000	92	26725	2.00	1.98	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	97	21170	2.00	1.96	
57 Cyclohexane	56	5.542	5.542	0.000	89	27509	2.00	1.93	
59 Carbon tetrachloride	117	5.612	5.612	0.000	70	14282	2.00	1.70	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	22547	2.00	2.00	
60 Isobutyl alcohol	41	5.654	5.654	0.000	95	11437	50.0	42.5	
61 Benzene	78	5.780	5.793	-0.013	91	66707	2.00	1.98	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	93	20394	2.00	1.95	
64 n-Heptane	43	6.017	6.017	0.000	90	18453	2.00	1.94	
66 Trichloroethene	95	6.352	6.352	0.000	97	15448	2.00	1.99	
67 2-Pentanone	43	6.478	6.478	0.000	98	37130	6.40	5.91	
68 Methylcyclohexane	55	6.562	6.562	0.000	89	20464	2.00	1.95	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	94	18102	2.00	2.05	
71 1,4-Dioxane	88	6.631	6.631	0.000	93	5371	40.0	41.6	
72 Dibromomethane	93	6.659	6.659	0.000	87	9380	2.00	1.98	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	16719	2.00	1.77	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	-0.001	88	2947	2.00	2.11	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	94	21124	2.00	1.78	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	95	58223	8.00	7.37	
80 Toluene	91	7.483	7.483	0.000	96	70669	2.00	1.96	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	94	16282	2.00	1.58	
84 Ethyl methacrylate	69	7.707	7.707	0.000	87	18336	2.00	1.84	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	86	14816	2.00	2.00	
89 Tetrachloroethene	164	7.958	7.958	0.000	95	10927	2.00	1.89	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	89	27597	2.00	2.12	
91 2-Hexanone	43	8.042	8.042	0.000	97	40949	8.00	7.60	
93 Chlorodibromomethane	129	8.224	8.224	0.000	89	10997	2.00	1.71	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	12945	2.00	1.84	
96 1-Chlorohexane	91	8.754	8.754	0.000	81	18809	1.60	1.72	
97 Chlorobenzene	112	8.796	8.796	0.000	97	42856	2.00	1.99	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	42	11910	2.00	1.87	
98 Ethylbenzene	106	8.880	8.880	0.000	97	24454	2.00	2.03	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	28950	2.00	2.00	
101 o-Xylene	106	9.369	9.369	0.000	97	28607	2.00	2.02	
103 Styrene	104	9.383	9.397	-0.014	95	44919	2.00	1.96	
104 Bromoform	173	9.578	9.578	0.000	92	6363	2.00	1.66	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	67239	2.00	1.89	
107 Cyclohexanone	55	9.830	9.830	0.000	90	26747	60.0	59.3	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	18935	2.00	1.89	
109 Bromobenzene	156	10.053	10.053	0.000	95	17839	2.00	2.15	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	42	3683	2.00	1.70	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	81	5761	2.00	1.85	
112 N-Propylbenzene	120	10.137	10.137	0.000	98	18370	2.00	1.83	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	15280	2.00	1.81	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	95	56018	2.00	1.90	
115 4-Chlorotoluene	126	10.346	10.346	0.000	97	15093	2.00	1.72	

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	47349	2.00	1.91	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	54665	2.00	1.82	
118 sec-Butylbenzene	134	10.849	10.849	0.000	93	13564	2.00	1.87	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	31459	2.00	1.95	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	54412	2.00	1.79	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	32274	2.00	1.97	
124 n-Butylbenzene	91	11.408	11.408	0.000	97	51473	2.00	1.90	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	94	26516	2.00	1.82	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	73	2341	2.00	1.89	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	90	13709	2.00	1.76	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	93	5838	2.00	1.97	
130 Naphthalene	128	13.335	13.335	0.000	96	31645	2.00	1.68	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	92	10599	2.00	1.80	
S 147 1,2-Dichloroethene, Total (URS)	96				0		4.00	3.85	
S 148 Xylenes, Total	106				0		4.00	4.02	
S 150 Xylenes, Total (URS)	1				0		4.00	4.02	
S 151 Total BTEX	1				0			9.99	
S 152 Trihalomethanes, Total	1				0		8.00	7.12	
S 153 1,2-Dichloroethene, Total	1				0		4.00	3.85	
S 154 1,3-Dichloropropene, Total	1				0		4.00	3.36	

QC Flag Legend

Processing Flags

Reagents:

Cal Dil Std_00374	Amount Added: 20.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

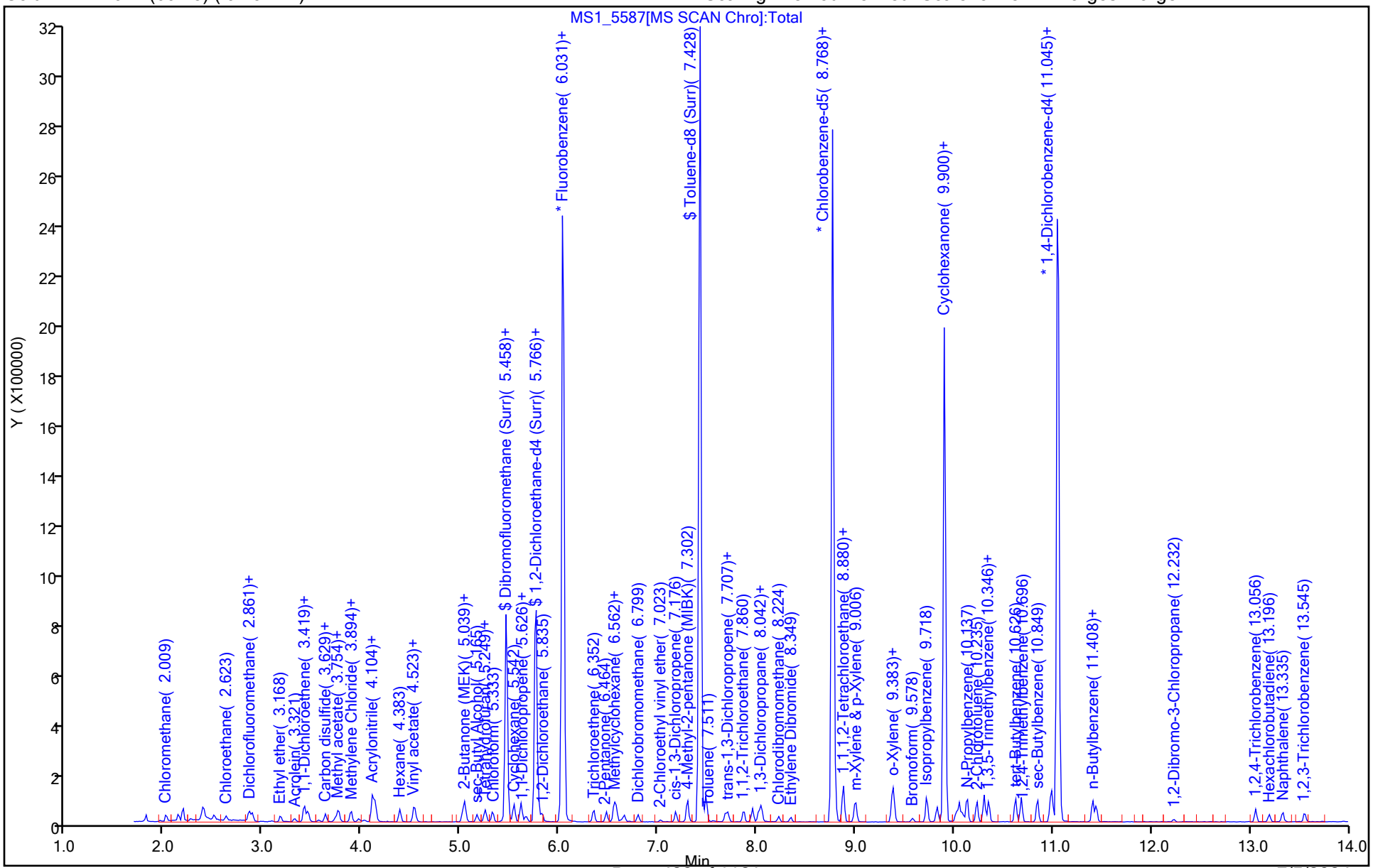
Report Date: 20-Jun-2024 06:43:40 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5587.D

Injection Date:	19-Jun-2024 21:41:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	15
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5564.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Jun-2024 22:02:30 ALS Bottle#: 6 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:43 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:50:17

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	99	2205330	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	500692	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	796824	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	495927	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	572042	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	2174559	50.0	50.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	745205	50.0	49.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	50082	5.00	5.28	
10 Chloromethane	50	2.008	2.009	-0.001	99	51462	5.00	5.04	
11 Vinyl chloride	62	2.134	2.134	0.000	98	48947	5.00	5.28	
13 Bromomethane	94	2.497	2.497	0.000	89	22400	5.00	4.74	
14 Chloroethane	64	2.623	2.623	0.000	98	26854	5.00	4.95	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	72483	5.00	4.84	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	97	52386	5.00	4.74	
18 Ethyl ether	59	3.168	3.168	0.000	96	38503	5.00	5.59	
20 Acrolein	56	3.321	3.321	0.000	99	30033	49.4	51.8	
22 1,1-Dichloroethene	96	3.405	3.419	-0.014	97	36422	5.00	5.09	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	94	26031	5.00	4.92	
23 Acetone	43	3.447	3.447	0.000	100	83006	20.0	21.9	
24 Iodomethane	142	3.559	3.559	0.000	99	21028	5.00	5.15	
26 Carbon disulfide	76	3.629	3.629	0.000	99	105968	5.00	4.86	
28 Methyl acetate	43	3.754	3.754	0.000	97	72290	10.0	10.9	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	91	71524	5.00	5.59	
30 Methylene Chloride	84	3.894	3.894	0.000	94	47810	5.00	5.26	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	94	42887	50.0	56.5	
32 Acrylonitrile	53	4.103	4.104	-0.001	98	200715	50.0	56.0	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	95	120037	5.00	5.30	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	98	39202	5.00	5.00	
36 Hexane	57	4.383	4.383	0.000	92	52536	5.00	4.67	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	166767	10.0	10.8	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	76567	5.00	5.14	

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	5.011	5.011	0.000	99	95407	20.0	22.1	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	88	50738	5.00	4.91	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	47237	5.00	5.25	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	85322	120.0	128.8	
51 Chlorobromomethane	128	5.249	5.249	0.000	95	23438	5.00	5.75	
52 Tetrahydrofuran	42	5.249	5.249	0.000	89	31518	10.0	10.7	
53 Chloroform	83	5.318	5.319	-0.001	93	71423	5.00	5.20	
54 1,1,1-Trichloroethane	97	5.486	5.472	0.014	95	55731	5.00	5.07	
57 Cyclohexane	56	5.542	5.542	0.000	91	69995	5.00	4.83	
59 Carbon tetrachloride	117	5.612	5.612	0.000	79	42048	5.00	4.92	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	54456	5.00	4.76	
60 Isobutyl alcohol	41	5.654	5.654	0.000	96	39994	125.0	146.3	
61 Benzene	78	5.793	5.793	0.000	96	174344	5.00	5.09	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	96	58775	5.00	5.54	
64 n-Heptane	43	6.017	6.017	0.000	93	44702	5.00	4.62	
66 Trichloroethene	95	6.352	6.352	0.000	99	39394	5.00	4.96	
67 2-Pentanone	43	6.478	6.478	0.000	99	109736	16.0	17.2	
68 Methylcyclohexane	55	6.561	6.562	-0.001	90	48572	5.00	4.56	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	96	45189	5.00	5.04	
71 1,4-Dioxane	88	6.631	6.631	0.000	92	15043	100.0	114.7	
72 Dibromomethane	93	6.659	6.659	0.000	94	26835	5.00	5.56	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	47167	5.00	4.91	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	88	7572	5.00	5.35	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	95	62023	5.00	5.09	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	180386	20.0	22.5	
80 Toluene	91	7.483	7.483	0.000	98	188201	5.00	5.13	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	92	53237	5.00	5.09	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	54328	5.00	5.31	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	91	41237	5.00	5.47	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	30708	5.00	5.19	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	93	73228	5.00	5.50	
91 2-Hexanone	43	8.042	8.042	0.000	95	125989	20.0	22.8	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	89	34155	5.00	5.19	
95 Ethylene Dibromide	107	8.349	8.349	0.000	100	38361	5.00	5.31	
96 1-Chlorohexane	91	8.754	8.754	0.000	96	43657	4.00	3.90	
97 Chlorobenzene	112	8.796	8.796	0.000	95	119682	5.00	5.43	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	42	32359	5.00	4.97	
98 Ethylbenzene	106	8.880	8.880	0.000	98	62561	5.00	5.08	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	79010	5.00	5.32	
101 o-Xylene	106	9.369	9.369	0.000	97	72886	5.00	5.02	
103 Styrene	104	9.397	9.397	0.000	96	127554	5.00	5.43	
104 Bromoform	173	9.578	9.578	0.000	94	20801	5.00	5.30	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	179476	5.00	4.91	
107 Cyclohexanone	55	9.830	9.830	0.000	91	80729	150.0	174.7	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	58168	5.00	5.65	
109 Bromobenzene	156	10.053	10.053	0.000	94	45033	5.00	5.29	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	74	11697	5.00	5.24	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	84	16801	5.00	5.24	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	52801	5.00	5.11	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	42477	5.00	4.88	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	93	150391	5.00	4.96	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	47370	5.00	5.25	

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	124697	5.00	4.90	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	97	153579	5.00	4.96	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	34373	5.00	4.61	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	85350	5.00	5.15	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	148624	5.00	4.76	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	95	88892	5.00	5.26	
124 n-Butylbenzene	91	11.408	11.408	0.000	96	135801	5.00	4.87	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	81381	5.00	5.44	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	7751	5.00	5.18	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	38791	5.00	4.85	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	93	12427	5.00	4.08	
130 Naphthalene	128	13.335	13.335	0.000	97	92221	5.00	4.76	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	93	30463	5.00	5.02	
S 147 1,2-Dichloroethene, Total (URS)	96				0		10.0	10.2	
S 148 Xylenes, Total	106				0		10.0	10.3	
S 150 Xylenes, Total (URS)	1				0		10.0	10.3	
S 151 Total BTEX	1				0			25.6	
S 152 Trihalomethanes, Total	1				0		20.0	20.6	
S 153 1,2-Dichloroethene, Total	1				0		10.0	10.2	
S 154 1,3-Dichloropropene, Total	1				0		10.0	10.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added:	2.50	Units: uL	
MV-Gas A_00190	Amount Added:	1.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 20-Jun-2024 06:43:43 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5564.D

Injection Date: 19-Jun-2024 22:02:30 Instrument ID: VMS_MS1 Operator ID: bj

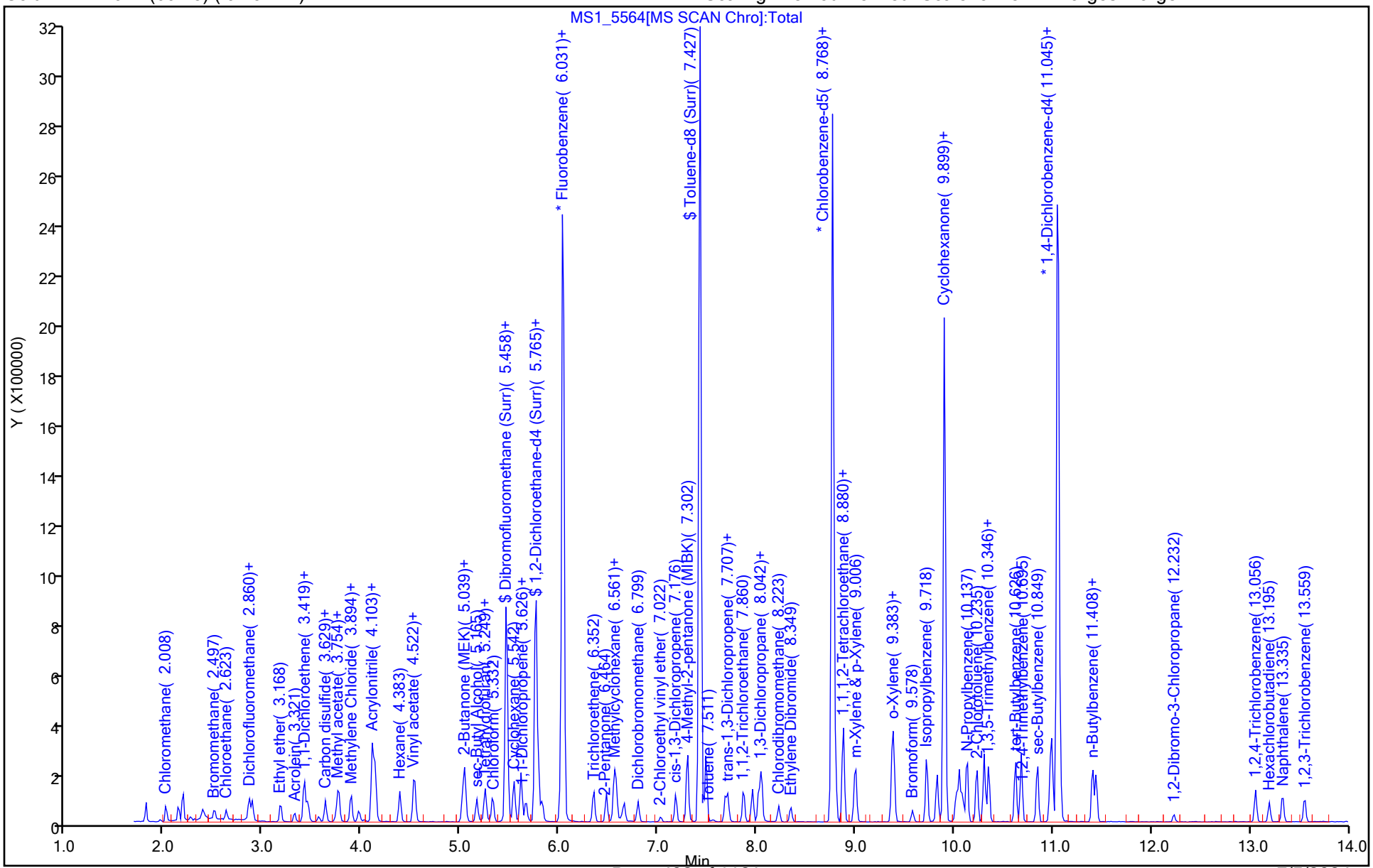
Lims ID: ic Worklist Smp#: 16

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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5565.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Jun-2024 22:24:30 ALS Bottle#: 7 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:46 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:50:57

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	99	2262954	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	513340	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	797071	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	506914	50.0	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	586064	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	2231890	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	759707	50.0	50.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	99117	10.0	10.2	
10 Chloromethane	50	2.008	2.009	-0.001	99	102756	10.0	9.81	
11 Vinyl chloride	62	2.134	2.134	0.000	97	98774	10.0	10.6	
13 Bromomethane	94	2.497	2.497	0.000	90	47882	10.0	9.87	
14 Chloroethane	64	2.623	2.623	0.000	99	60382	10.0	10.9	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	163660	10.0	10.6	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	98	121155	10.0	10.7	
18 Ethyl ether	59	3.168	3.168	0.000	91	72698	10.0	10.3	
20 Acrolein	56	3.321	3.321	0.000	99	54909	98.8	92.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	52862	10.0	9.73	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	97	69548	10.0	9.47	
23 Acetone	43	3.447	3.447	0.000	99	129194	40.0	38.2	
24 Iodomethane	142	3.559	3.559	0.000	97	59133	10.0	9.47	
26 Carbon disulfide	76	3.628	3.629	-0.001	99	215217	10.0	9.61	
28 Methyl acetate	43	3.754	3.754	0.000	97	131623	20.0	19.4	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	93	128076	10.0	10.1	
30 Methylene Chloride	84	3.894	3.894	0.000	91	90910	10.0	9.74	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	72267	100.0	92.7	
32 Acrylonitrile	53	4.103	4.104	-0.001	100	363805	100.0	98.9	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	96	227716	10.0	9.81	
34 trans-1,2-Dichloroethene	96	4.131	4.145	-0.014	99	81232	10.0	10.1	
36 Hexane	57	4.383	4.383	0.000	92	110408	10.0	9.57	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	323324	20.0	20.4	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	150129	10.0	9.83	

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	5.011	5.011	0.000	100	169046	40.0	38.2	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	89	100603	10.0	9.49	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	93113	10.0	10.1	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	143055	240.0	202.0	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	40365	10.0	9.66	
52 Tetrahydrofuran	42	5.249	5.249	0.000	89	58591	20.0	19.4	
53 Chloroform	83	5.318	5.319	-0.001	94	140310	10.0	9.95	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	114698	10.0	10.2	
57 Cyclohexane	56	5.542	5.542	0.000	90	152912	10.0	10.3	
59 Carbon tetrachloride	117	5.612	5.612	0.000	78	83060	10.0	9.48	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	113148	10.0	9.64	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	62687	250.0	223.4	
61 Benzene	78	5.793	5.793	0.000	94	356605	10.0	10.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	110310	10.0	10.1	
64 n-Heptane	43	6.017	6.017	0.000	92	94192	10.0	9.48	
66 Trichloroethene	95	6.352	6.352	0.000	99	85476	10.0	10.5	
67 2-Pentanone	43	6.478	6.478	0.000	99	204473	32.0	31.2	
68 Methylcyclohexane	55	6.561	6.562	-0.001	91	106365	10.0	9.72	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	97	88788	10.0	9.65	
71 1,4-Dioxane	88	6.631	6.631	0.000	91	25018	200.0	185.8	
72 Dibromomethane	93	6.659	6.659	0.000	94	49905	10.0	10.1	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	93832	10.0	9.51	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	94	13018	10.0	8.96	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	96	120428	10.0	9.63	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	324834	40.0	39.4	
80 Toluene	91	7.483	7.483	0.000	98	379844	10.0	10.1	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	93	102768	10.0	9.57	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	105191	10.0	10.0	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	89	75591	10.0	9.77	
89 Tetrachloroethene	164	7.958	7.958	0.000	96	60776	10.0	10.0	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	90	140483	10.0	10.3	
91 2-Hexanone	43	8.042	8.042	0.000	95	219111	40.0	38.7	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	91	64633	10.0	9.57	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	75687	10.0	10.2	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	88680	8.00	7.73	
97 Chlorobenzene	112	8.796	8.796	0.000	95	225554	10.0	9.98	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	42	63583	10.0	9.52	
98 Ethylbenzene	106	8.880	8.880	0.000	98	123084	10.0	9.74	
100 m-Xylene & p-Xylene	106	9.005	9.006	-0.001	0	150749	10.0	9.90	
101 o-Xylene	106	9.369	9.369	0.000	97	147362	10.0	9.90	
103 Styrene	104	9.397	9.397	0.000	95	238864	10.0	9.91	
104 Bromoform	173	9.578	9.578	0.000	95	37821	10.0	9.40	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	363715	10.0	9.95	
107 Cyclohexanone	55	9.830	9.830	0.000	93	138225	300.0	291.7	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	95	102201	10.0	9.92	
109 Bromobenzene	156	10.053	10.053	0.000	95	85212	10.0	10.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	72	19188	10.0	8.59	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	85	29418	10.0	9.17	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	103845	10.0	10.0	
113 2-Chlorotoluene	126	10.235	10.235	0.000	97	86896	10.0	9.98	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	301409	10.0	9.94	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	89080	10.0	9.87	

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	253986	10.0	9.97	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	97	313846	10.0	10.1	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	75573	10.0	10.1	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	162876	10.0	9.82	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	302026	10.0	9.68	
121 1,4-Dichlorobenzene	146	11.073	11.073	-0.001	94	166028	10.0	9.83	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	259627	10.0	9.31	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	155130	10.0	10.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	78	14284	10.0	9.19	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	95	73673	10.0	9.20	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	96	26466	10.0	8.68	
130 Naphthalene	128	13.335	13.335	0.000	97	170448	10.0	8.80	
132 1,2,3-Trichlorobenzene	180	13.558	13.559	-0.001	96	52975	10.0	8.73	
S 147 1,2-Dichloroethene, Total (URS)	96				0		20.0	20.2	
S 148 Xylenes, Total	106				0		20.0	19.8	
S 150 Xylenes, Total (URS)	1				0		20.0	19.8	
S 151 Total BTEX	1				0			49.8	
S 152 Trihalomethanes, Total	1				0		40.0	38.4	
S 153 1,2-Dichloroethene, Total	1				0		20.0	20.2	
S 154 1,3-Dichloropropene, Total	1				0		20.0	19.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added:	5.00	Units: uL	
MV-Gas A_00190	Amount Added:	2.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

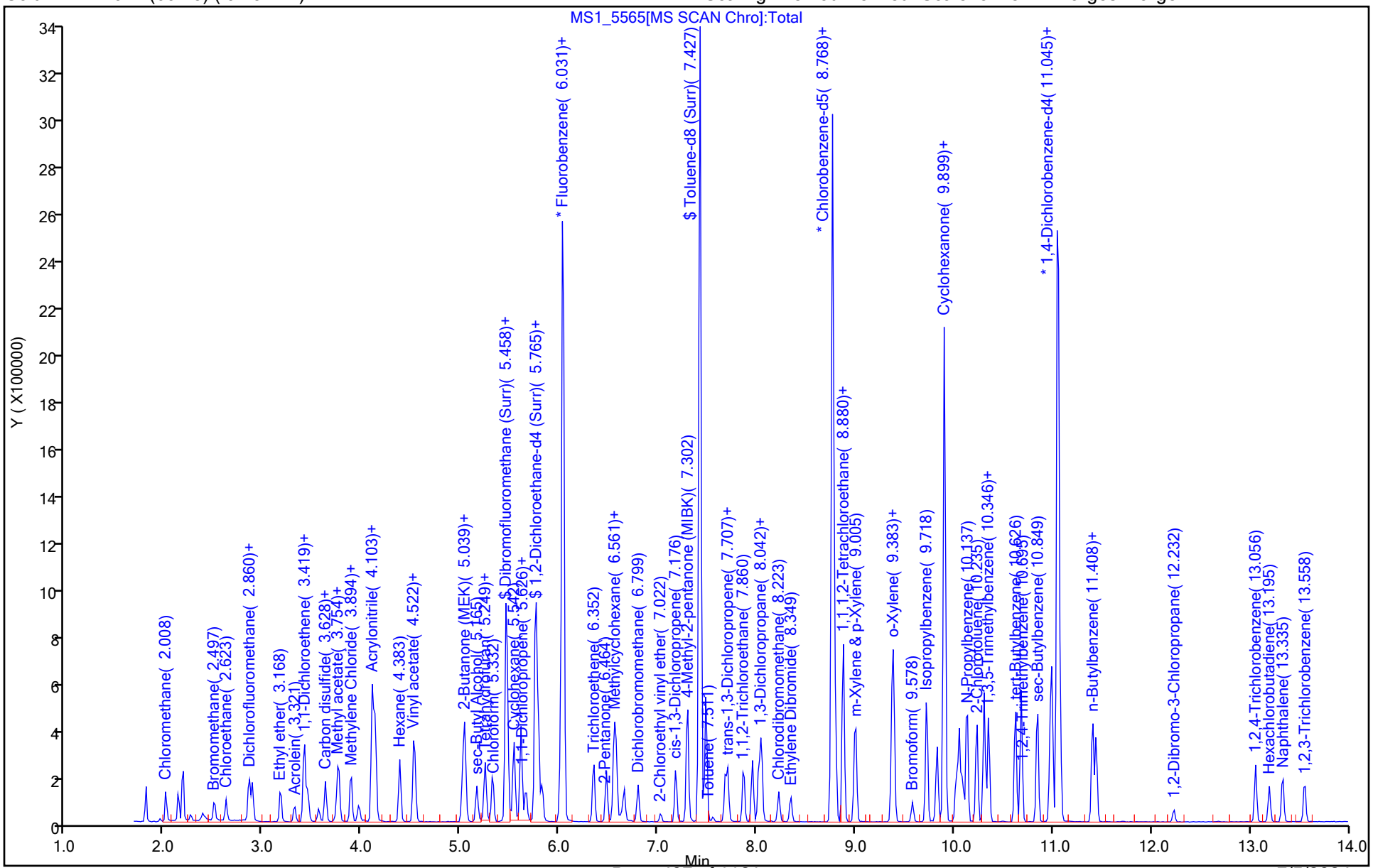
Report Date: 20-Jun-2024 06:43:46 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5565.D

Injection Date:	19-Jun-2024 22:24:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	17
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\20240619-134653.b\MS1_5566.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 19-Jun-2024 22:45:30 ALS Bottle#: 8 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: icis
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:48 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:51:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	2272296	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	524805	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	803863	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	510236	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	591343	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	2243387	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	765555	50.0	50.4	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	488417	50.0	50.0	
10 Chloromethane	50	2.009	2.009	0.000	99	483111	50.0	45.9	
11 Vinyl chloride	62	2.134	2.134	0.000	98	484844	50.0	52.3	
13 Bromomethane	94	2.497	2.497	0.000	91	192974	50.0	39.6	
14 Chloroethane	64	2.623	2.623	0.000	100	257822	50.0	46.2	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	671892	50.0	43.5	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	506904	50.0	44.5	
18 Ethyl ether	59	3.168	3.168	0.000	93	346133	50.0	48.8	
20 Acrolein	56	3.321	3.321	0.000	99	263476	493.8	440.6	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	343697	50.0	46.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	260319	50.0	47.7	
23 Acetone	43	3.447	3.447	0.000	100	547620	200.0	192.8	
24 Iodomethane	142	3.559	3.559	0.000	98	404450	50.0	49.0	
26 Carbon disulfide	76	3.629	3.629	0.000	99	1074960	50.0	47.8	
28 Methyl acetate	43	3.754	3.754	0.000	97	640216	100.0	94.0	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	94	610505	50.0	49.6	
30 Methylene Chloride	84	3.894	3.894	0.000	92	414012	50.0	44.2	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	357265	500.0	456.5	
32 Acrylonitrile	53	4.104	4.104	0.000	99	1726485	500.0	467.5	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	95	1120560	50.0	48.1	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	100	393363	50.0	48.7	
36 Hexane	57	4.383	4.383	0.000	92	577933	50.0	49.0	
38 Vinyl acetate	43	4.523	4.523	0.000	97	1564399	100.0	98.5	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	724986	50.0	47.3	

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	5.011	5.011	0.000	100	831907	200.0	187.3	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	89	522688	50.0	49.1	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	432668	50.0	46.6	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	760055	1200.0	1011.4	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	192214	50.0	45.8	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	284089	100.0	93.6	
53 Chloroform	83	5.319	5.319	0.000	93	670899	50.0	47.4	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	545960	50.0	48.2	
57 Cyclohexane	56	5.542	5.542	0.000	89	717849	50.0	48.0	
59 Carbon tetrachloride	117	5.612	5.612	0.000	81	435628	50.0	49.5	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	563218	50.0	47.8	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	329856	1250.0	1170.7	
61 Benzene	78	5.793	5.793	0.000	96	1692791	50.0	47.9	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	513539	50.0	47.0	
64 n-Heptane	43	6.017	6.017	0.000	91	478330	50.0	47.9	
66 Trichloroethene	95	6.352	6.352	0.000	97	393620	50.0	47.3	
67 2-Pentanone	43	6.478	6.478	0.000	99	1011845	160.0	153.9	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	537587	50.0	48.9	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	98	432680	50.0	46.8	
71 1,4-Dioxane	88	6.631	6.631	0.000	91	117109	1000.0	866.3	
72 Dibromomethane	93	6.659	6.659	0.000	96	239385	50.0	48.1	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	498597	50.0	50.3	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	91	74065	50.0	50.7	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	97	639631	50.0	50.1	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	1606110	200.0	194.1	
80 Toluene	91	7.483	7.483	0.000	98	1815955	50.0	48.1	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	550594	50.0	51.0	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	512537	50.0	47.8	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	90	365023	50.0	47.0	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	294103	50.0	47.5	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	91	657953	50.0	47.1	
91 2-Hexanone	43	8.042	8.042	0.000	95	1080612	200.0	186.7	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	343084	50.0	49.7	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	363086	50.0	47.9	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	424205	40.0	36.2	
97 Chlorobenzene	112	8.796	8.796	0.000	94	1096314	50.0	47.5	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	333536	50.0	48.9	
98 Ethylbenzene	106	8.880	8.880	0.000	98	613865	50.0	47.5	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	755462	50.0	48.5	
101 o-Xylene	106	9.369	9.369	0.000	97	742644	50.0	48.8	
103 Styrene	104	9.397	9.397	0.000	95	1214180	50.0	49.3	
104 Bromoform	173	9.578	9.578	0.000	95	201694	50.0	49.0	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	1828113	50.0	49.6	
107 Cyclohexanone	55	9.830	9.830	0.000	91	692982	1500.0	1430.5	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	494145	50.0	47.6	
109 Bromobenzene	156	10.053	10.053	0.000	96	418935	50.0	48.7	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	71	101305	50.0	45.0	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	148015	50.0	45.7	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	513032	50.0	49.2	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	410889	50.0	46.8	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	93	1515839	50.0	49.6	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	435664	50.0	47.8	

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	1269188	50.0	49.4	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1566010	50.0	50.2	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	360699	50.0	47.9	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	799993	50.0	47.8	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1585090	50.0	50.4	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	94	810551	50.0	47.6	
124 n-Butylbenzene	91	11.408	11.408	0.000	97	1418995	50.0	50.5	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	746058	50.0	49.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	83	72013	50.0	44.3	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	374833	50.0	46.4	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	97	146707	50.0	47.7	
130 Naphthalene	128	13.335	13.335	0.000	97	857574	50.0	43.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	280722	50.0	45.9	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	95.4	
S 148 Xylenes, Total	106				0		100.0	97.4	
S 150 Xylenes, Total (URS)	1				0		100.0	97.4	
S 152 Trihalomethanes, Total	1				0		200.0	196.5	
S 153 1,2-Dichloroethene, Total	1				0		100.0	95.4	
S 154 1,3-Dichloropropene, Total	1				0		100.0	101.1	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00190	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

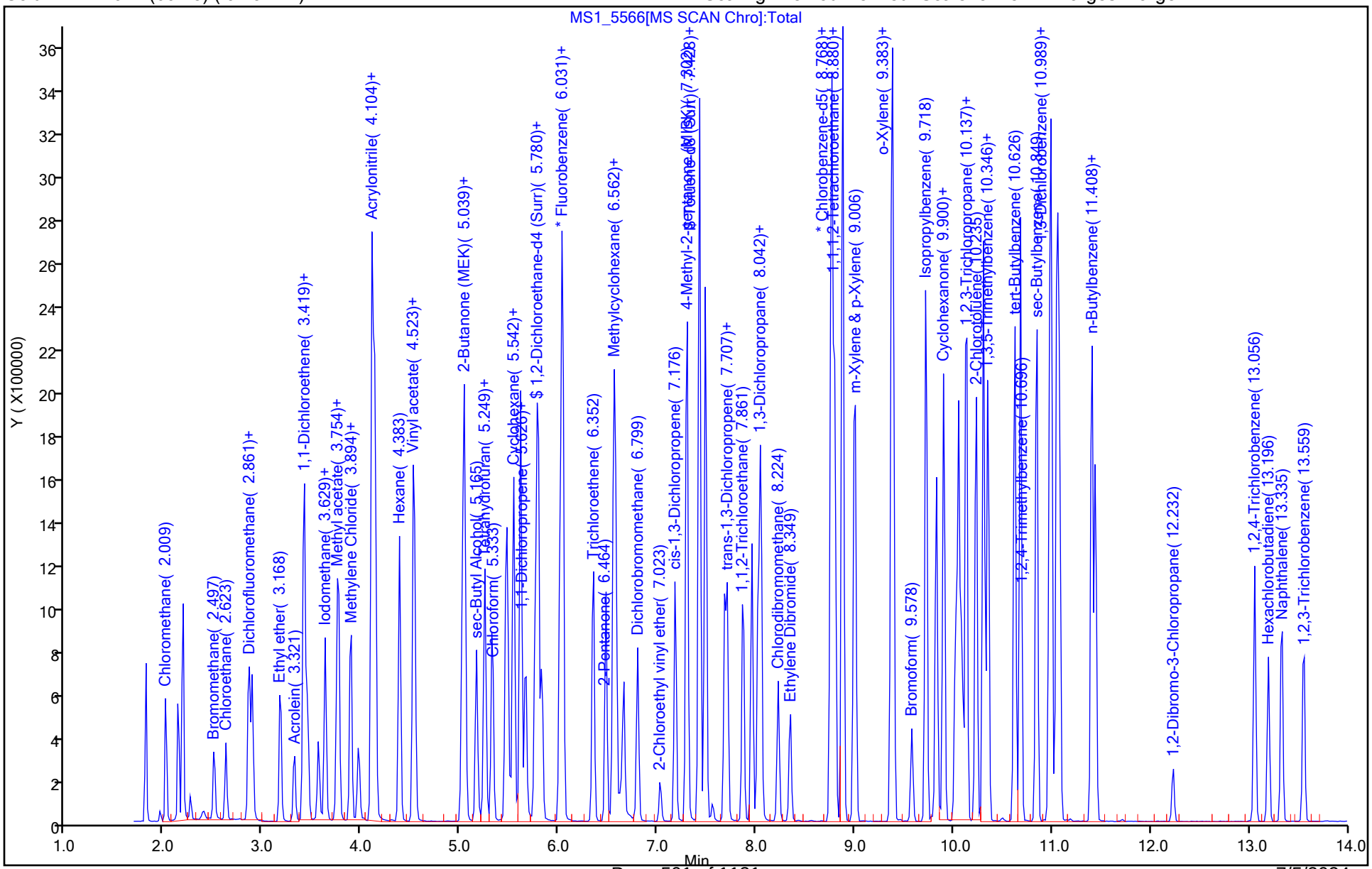
Report Date: 20-Jun-2024 06:43:48 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5566.D

Injection Date:	19-Jun-2024 22:45:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	icis			Worklist Smp#:	18
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5567.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Jun-2024 23:06:30 ALS Bottle#: 9 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:50 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:52:23

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	99	2338409	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	535004	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	832377	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	528434	50.0	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	614643	50.0	50.8	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	92	2311552	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	800489	50.0	50.9	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	735190	75.0	73.1	
10 Chloromethane	50	2.008	2.009	-0.001	99	715158	75.0	66.1	
11 Vinyl chloride	62	2.148	2.134	0.014	98	673426	75.0	70.7	
13 Bromomethane	94	2.497	2.497	0.000	90	335308	75.0	66.9	
14 Chloroethane	64	2.623	2.623	0.000	99	395056	75.0	68.7	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	1106625	75.0	69.7	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	99	846181	75.0	72.2	
18 Ethyl ether	59	3.168	3.168	0.000	93	537342	75.0	73.6	
20 Acrolein	56	3.321	3.321	0.000	100	433228	740.6	704.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	94	411611	75.0	73.3	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	539976	75.0	71.2	
23 Acetone	43	3.447	3.447	0.000	100	854474	300.0	297.4	
24 Iodomethane	142	3.559	3.559	0.000	98	627652	75.0	72.5	
26 Carbon disulfide	76	3.628	3.629	-0.001	99	1709639	75.0	73.9	
28 Methyl acetate	43	3.754	3.754	0.000	97	1024618	150.0	146.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	93	948861	75.0	75.1	
30 Methylene Chloride	84	3.894	3.894	0.000	92	642288	75.0	66.6	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	98	633634	750.0	786.7	
32 Acrylonitrile	53	4.103	4.104	-0.001	99	2804119	750.0	737.8	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	95	1791883	75.0	74.7	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	99	611714	75.0	73.6	
36 Hexane	57	4.383	4.383	0.000	91	906384	75.0	75.4	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	2597555	150.0	159.0	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	1147783	75.0	72.7	

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	5.011	5.011	0.000	100	1341651	300.0	293.5	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	88	830545	75.0	75.8	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	689206	75.0	72.2	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	1322833	1800.0	1701.3	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	298958	75.0	69.2	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	454335	150.0	145.4	
53 Chloroform	83	5.318	5.319	-0.001	93	1051973	75.0	72.2	
54 1,1,1-Trichloroethane	97	5.486	5.472	0.014	99	874833	75.0	75.1	
57 Cyclohexane	56	5.542	5.542	0.000	90	1130175	75.0	73.5	
59 Carbon tetrachloride	117	5.612	5.612	0.000	81	695867	75.0	76.9	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	98	899674	75.0	74.2	
60 Isobutyl alcohol	41	5.668	5.654	0.014	96	564676	1875.0	1947.5	
61 Benzene	78	5.793	5.793	0.000	96	2645546	75.0	72.8	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	799224	75.0	71.0	
64 n-Heptane	43	6.017	6.017	0.000	92	754504	75.0	73.5	
66 Trichloroethene	95	6.352	6.352	0.000	98	617450	75.0	72.8	
67 2-Pentanone	43	6.478	6.478	0.000	99	1653177	240.0	244.3	
68 Methylcyclohexane	55	6.561	6.562	-0.001	91	839720	75.0	74.3	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	98	690232	75.0	72.6	
71 1,4-Dioxane	88	6.631	6.631	0.000	93	192052	1500.0	1380.4	
72 Dibromomethane	93	6.659	6.659	0.000	94	383507	75.0	74.9	
73 Dichlorobromomethane	83	6.799	6.799	0.000	100	782476	75.0	76.8	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	90	120999	75.0	80.6	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	96	1022115	75.0	78.5	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	95	2622631	300.0	307.9	
80 Toluene	91	7.483	7.483	0.000	98	2790134	75.0	71.8	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	889812	75.0	80.2	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	836885	75.0	76.6	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	90	583239	75.0	73.0	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	460263	75.0	72.9	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	90	1048087	75.0	73.7	
91 2-Hexanone	43	8.042	8.042	0.000	96	1804033	300.0	305.8	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	90	563482	75.0	80.1	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	583099	75.0	75.5	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	672901	60.0	56.3	
97 Chlorobenzene	112	8.796	8.796	0.000	94	1715678	75.0	72.9	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	546410	75.0	78.5	
98 Ethylbenzene	106	8.880	8.880	0.000	98	974007	75.0	74.0	
100 m-Xylene & p-Xylene	106	9.005	9.006	-0.001	0	1187402	75.0	74.9	
101 o-Xylene	106	9.369	9.369	0.000	97	1157758	75.0	74.7	
103 Styrene	104	9.397	9.397	0.000	95	1913062	75.0	76.2	
104 Bromoform	173	9.578	9.578	0.000	95	333054	75.0	79.4	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	2890135	75.0	75.7	
107 Cyclohexanone	55	9.830	9.830	0.000	91	1143180	2250.0	2314.9	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	780416	75.0	72.6	
109 Bromobenzene	156	10.053	10.053	0.000	95	658983	75.0	74.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	83	178001	75.0	76.3	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	84	231055	75.0	69.0	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	804245	75.0	74.5	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	661771	75.0	72.8	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	2391299	75.0	75.5	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	694183	75.0	73.6	

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	2004659	75.0	75.3	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	97	2460632	75.0	76.1	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	586825	75.0	75.3	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	1250943	75.0	72.2	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	2472234	75.0	75.9	
121 1,4-Dichlorobenzene	146	11.073	11.073	-0.001	94	1269476	75.0	72.0	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	2262149	75.0	77.7	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	1158719	75.0	74.1	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	84	125256	75.0	74.2	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	632588	75.0	75.7	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	98	238143	75.0	74.8	
130 Naphthalene	128	13.335	13.335	0.000	97	1564539	75.0	77.4	
132 1,2,3-Trichlorobenzene	180	13.558	13.559	-0.001	95	484908	75.0	76.5	
S 147 1,2-Dichloroethene, Total (URS)	96				0		150.0	145.8	
S 148 Xylenes, Total	106				0		150.0	149.5	
S 150 Xylenes, Total (URS)	1				0		150.0	149.5	
S 151 Total BTEX	1				0			368.1	
S 152 Trihalomethanes, Total	1				0		300.0	308.5	
S 153 1,2-Dichloroethene, Total	1				0		150.0	145.8	
S 154 1,3-Dichloropropene, Total	1				0		150.0	158.6	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 37.50	Units: uL	
MV-Gas A_00190	Amount Added: 15.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

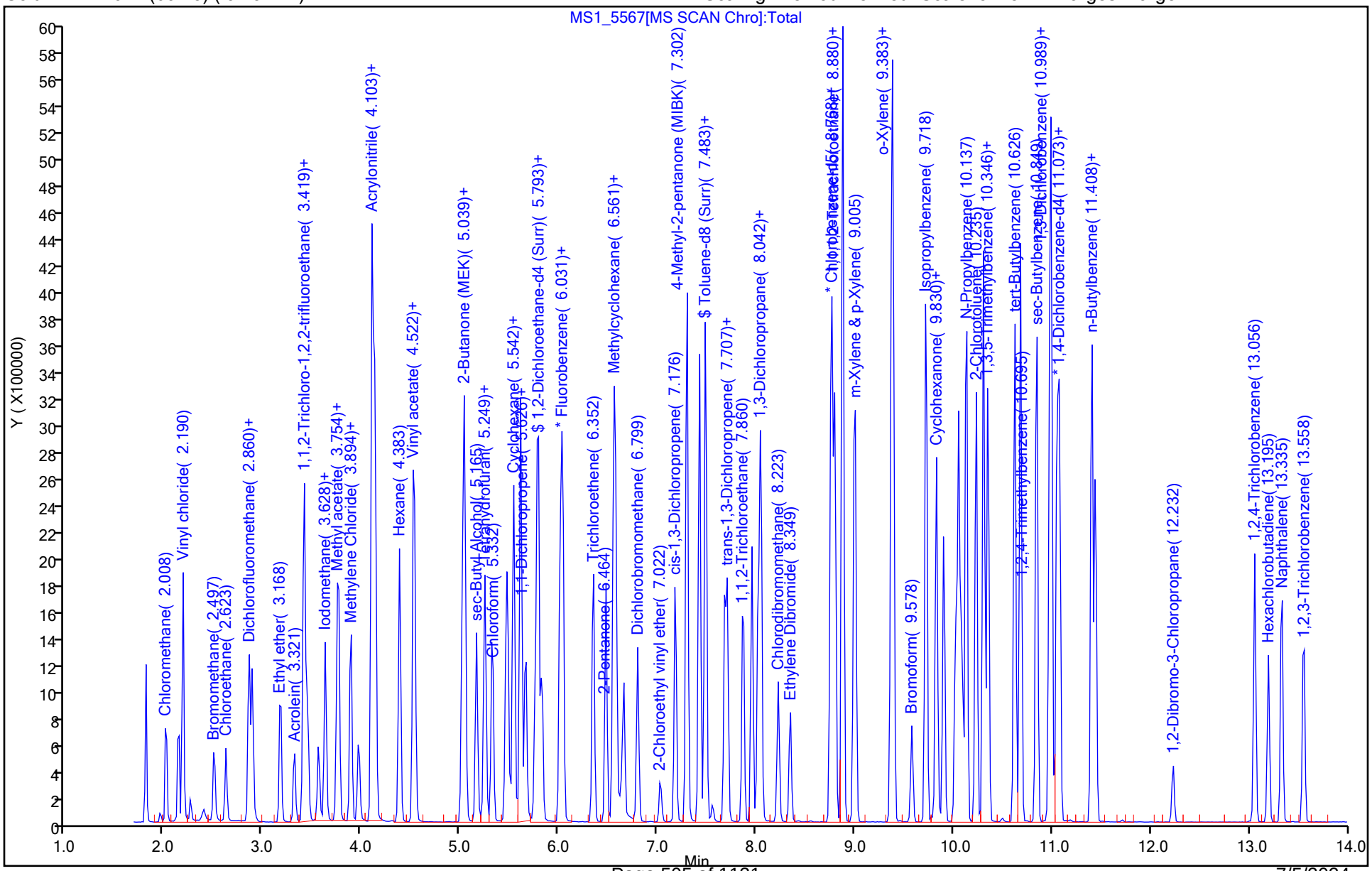
Report Date: 20-Jun-2024 06:43:50 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5567.D

Injection Date:	19-Jun-2024 23:06:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	19
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5568.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 19-Jun-2024 23:28:30 ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:52 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:53:16

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	2332808	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	545380	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	94	835934	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	534322	50.0	51.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	598839	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	2280764	50.0	48.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	786932	50.0	49.9	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	977374	100.0	97.4	
10 Chloromethane	50	2.009	2.009	0.000	99	937740	100.0	86.8	
11 Vinyl chloride	62	2.134	2.134	0.000	98	972708	100.0	102.4	
13 Bromomethane	94	2.497	2.497	0.000	91	494854	100.0	99.0	
14 Chloroethane	64	2.623	2.623	0.000	100	568193	100.0	99.1	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	1560809	100.0	98.5	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	99	1170859	100.0	100.1	
18 Ethyl ether	59	3.168	3.168	0.000	92	723296	100.0	99.3	
20 Acrolein	56	3.321	3.321	0.000	100	571891	987.5	931.6	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	730837	100.0	96.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	94	541189	100.0	96.6	
23 Acetone	43	3.447	3.447	0.000	100	1127557	400.0	396.6	
24 Iodomethane	142	3.559	3.559	0.000	98	857829	100.0	98.4	
26 Carbon disulfide	76	3.629	3.629	0.000	99	2242048	100.0	97.2	
28 Methyl acetate	43	3.754	3.754	0.000	97	1358839	200.0	194.3	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	94	1249807	100.0	99.3	
30 Methylene Chloride	84	3.894	3.894	0.000	91	869651	100.0	90.4	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	98	849394	1000.0	1057.1	
32 Acrylonitrile	53	4.103	4.104	-0.001	99	3638197	1000.0	959.5	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	95	2368475	100.0	98.9	
34 trans-1,2-Dichloroethene	96	4.131	4.145	-0.014	99	801442	100.0	96.7	
36 Hexane	57	4.383	4.383	0.000	91	1191839	100.0	97.2	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	3324352	200.0	203.9	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	1495724	100.0	95.0	

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	5.011	5.011	0.000	100	1783779	400.0	391.1	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	88	1110105	100.0	101.6	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	909454	100.0	95.5	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	1783123	2400.0	2294.2	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	390686	100.0	90.7	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	594290	200.0	190.7	
53 Chloroform	83	5.319	5.319	0.000	93	1389373	100.0	95.6	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	99	1150373	100.0	99.0	
57 Cyclohexane	56	5.542	5.542	0.000	89	1488908	100.0	97.0	
59 Carbon tetrachloride	117	5.612	5.612	0.000	83	932302	100.0	103.2	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	1165841	100.0	96.4	
60 Isobutyl alcohol	41	5.654	5.654	0.000	95	769984	2500.0	2662.0	
61 Benzene	78	5.793	5.793	0.000	95	3482962	100.0	96.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	1047922	100.0	93.3	
64 n-Heptane	43	6.003	6.017	-0.014	96	994603	100.0	97.1	
66 Trichloroethene	95	6.352	6.352	0.000	99	839906	100.0	97.1	
67 2-Pentanone	43	6.478	6.478	0.000	99	2133852	320.0	316.1	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	1126529	100.0	99.9	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	97	896397	100.0	94.5	
71 1,4-Dioxane	88	6.631	6.631	0.000	93	246463	2000.0	1775.8	
72 Dibromomethane	93	6.659	6.659	0.000	96	506754	100.0	99.2	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	1055924	100.0	103.8	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	91	155717	100.0	103.9	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	96	1385269	100.0	104.3	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	95	3453016	400.0	406.4	
80 Toluene	91	7.483	7.483	0.000	98	3720234	100.0	95.9	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	91	1221621	100.0	110.3	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	1140602	100.0	102.4	
86 1,1,2-Trichloroethane	97	7.860	7.861	0.000	90	773331	100.0	97.0	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	615421	100.0	95.6	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	95	1378767	100.0	95.1	
91 2-Hexanone	43	8.042	8.042	0.000	95	2353672	400.0	391.3	
93 Chlorodibromomethane	129	8.224	8.224	0.000	89	770427	100.0	107.4	
95 Ethylene Dibromide	107	8.349	8.349	0.000	98	774823	100.0	98.4	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	895954	80.0	73.5	
97 Chlorobenzene	112	8.796	8.796	0.000	94	2256902	100.0	94.0	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	739164	100.0	104.2	
98 Ethylbenzene	106	8.880	8.880	0.000	98	1279969	100.0	95.4	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	1568181	100.0	97.0	
101 o-Xylene	106	9.369	9.369	0.000	97	1551307	100.0	98.1	
103 Styrene	104	9.397	9.397	0.000	95	2548317	100.0	99.5	
104 Bromoform	173	9.578	9.578	0.000	95	460417	100.0	107.7	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	3799042	100.0	99.1	
107 Cyclohexanone	55	9.830	9.830	0.000	91	1518577	3000.0	3016.6	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	1028386	100.0	95.2	
109 Bromobenzene	156	10.053	10.053	0.000	96	882611	100.0	98.7	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	82	238957	100.0	102.0	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	84	303732	100.0	90.3	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	1063874	100.0	98.1	
113 2-Chlorotoluene	126	10.235	10.235	0.000	97	886899	100.0	97.2	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	3142861	100.0	98.8	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	923753	100.0	97.6	

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	2679061	100.0	100.3	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	3276927	100.0	100.9	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	788891	100.0	100.8	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	1651052	100.0	94.9	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	3346226	100.0	102.2	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	94	1716093	100.0	96.9	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	2992097	100.0	102.3	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	1583207	100.0	100.8	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	86	177571	100.0	104.6	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	867313	100.0	103.3	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	319605	100.0	99.9	
130 Naphthalene	128	13.335	13.335	0.000	97	2130032	100.0	104.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	658428	100.0	103.4	
S 147 1,2-Dichloroethene, Total (URS)	96				0		200.0	192.2	
S 148 Xylenes, Total	106				0		200.0	195.1	
S 150 Xylenes, Total (URS)	1				0		200.0	195.1	
S 151 Total BTEX	1				0			482.5	
S 152 Trihalomethanes, Total	1				0		400.0	414.5	
S 153 1,2-Dichloroethene, Total	1				0		200.0	192.2	
S 154 1,3-Dichloropropene, Total	1				0		200.0	214.6	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 50.00	Units: uL	
MV-Gas A_00190	Amount Added: 20.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 20-Jun-2024 06:43:52 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5568.D

Injection Date: 19-Jun-2024 23:28:30 Instrument ID: VMS_MS1 Operator ID: bj

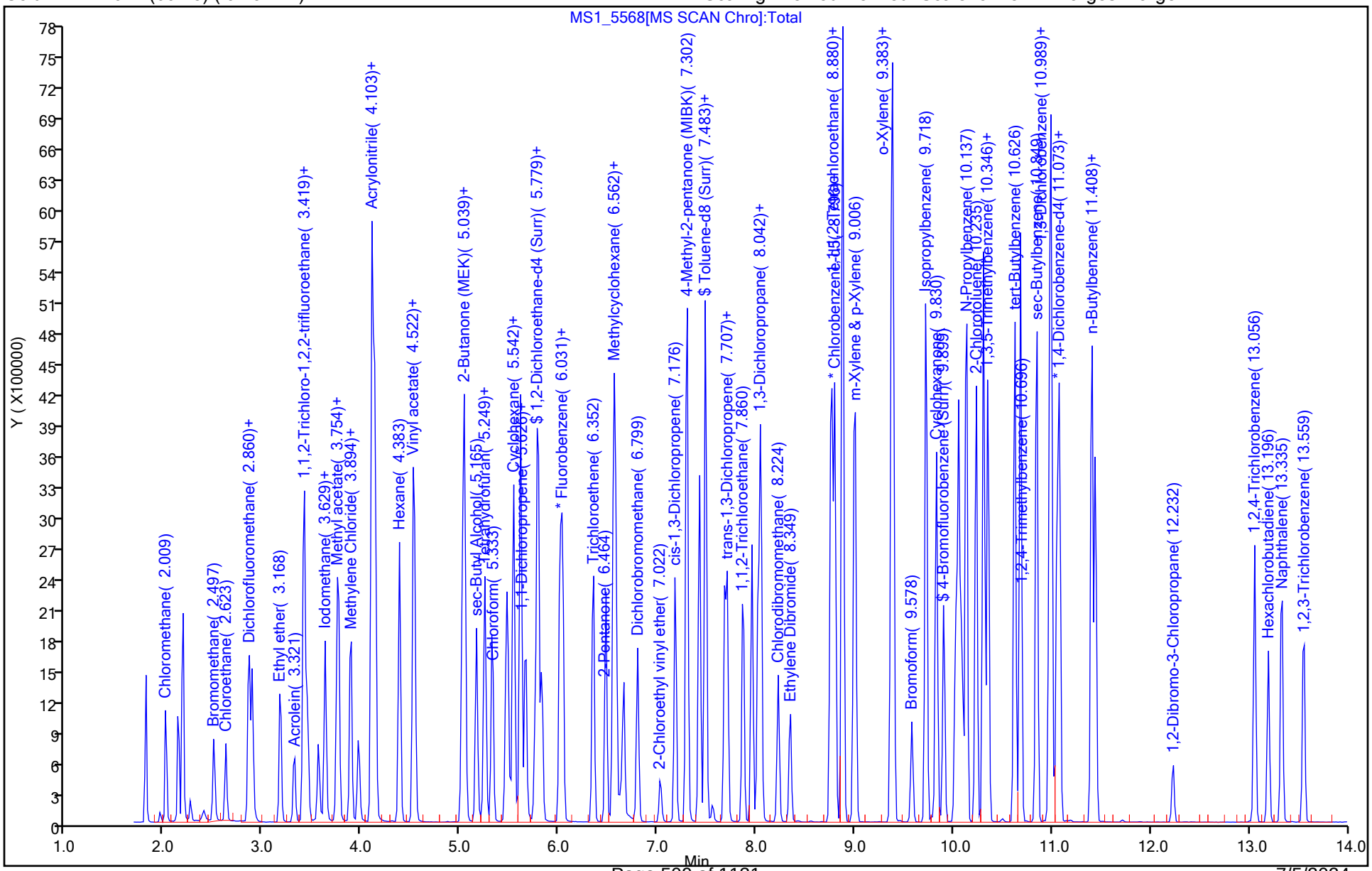
Lims ID: ic Worklist Smp#: 20

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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 19-Jun-2024 23:49:30 ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 06:43:53 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 05:54:22

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	96	2367362	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	86	549626	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	94	857970	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	93	538855	50.0	50.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	601245	50.0	49.1	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	92	2336896	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	795415	50.0	49.1	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	1906969	200.0	187.2	
10 Chloromethane	50	2.009	2.009	0.000	99	1997019	200.0	182.2	
11 Vinyl chloride	62	2.134	2.134	0.000	98	1689216	200.0	175.4	
13 Bromomethane	94	2.497	2.497	0.000	91	1026612	200.0	202.3	
14 Chloroethane	64	2.623	2.623	0.000	100	1045997	200.0	179.8	
15 Dichlorofluoromethane	67	2.861	2.861	-0.001	97	3183819	200.0	197.9	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	98	2307116	200.0	194.3	
18 Ethyl ether	59	3.168	3.168	0.000	91	1572370	200.0	212.7	
20 Acrolein	56	3.321	3.321	0.000	100	1269489	1975.0	2037.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	1185483	200.0	208.6	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	1612166	200.0	209.9	
23 Acetone	43	3.447	3.447	0.000	100	2462872	800.0	864.8	
24 Iodomethane	142	3.559	3.559	0.000	98	1965676	200.0	218.7	
26 Carbon disulfide	76	3.629	3.629	0.000	99	5084712	200.0	217.1	
28 Methyl acetate	43	3.754	3.754	0.000	98	2997546	400.0	422.3	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	94	2400536	200.0	188.4	
30 Methylene Chloride	84	3.894	3.894	0.000	91	1881652	200.0	192.7	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	2013923	2000.0	2469.9	
32 Acrylonitrile	53	4.104	4.104	0.000	99	7838051	2000.0	2037.0	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	96	5136277	200.0	211.4	
34 trans-1,2-Dichloroethene	96	4.131	4.145	-0.014	99	1785046	200.0	212.2	
36 Hexane	57	4.383	4.383	0.000	91	2601708	200.0	210.5	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	6784239	400.0	410.1	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	3243166	200.0	202.9	

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	5.011	5.011	0.000	100	3906111	800.0	844.0	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	88	2457158	200.0	221.5	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	1998008	200.0	206.8	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	4129071	4800.0	5217.8	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	826905	200.0	189.1	
52 Tetrahydrofuran	42	5.249	5.249	0.000	89	1332807	400.0	421.4	
53 Chloroform	83	5.319	5.319	0.000	93	3048244	200.0	206.7	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	2555840	200.0	216.8	
57 Cyclohexane	56	5.542	5.542	0.000	89	3276495	200.0	210.4	
59 Carbon tetrachloride	117	5.612	5.612	0.000	83	2112659	200.0	230.5	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	97	2584563	200.0	210.5	
60 Isobutyl alcohol	41	5.668	5.654	0.014	95	1736014	5000.0	5914.1	
61 Benzene	78	5.793	5.793	0.000	95	7449683	200.0	202.5	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	2289253	200.0	200.9	
64 n-Heptane	43	6.017	6.017	0.000	91	2203383	200.0	211.9	
66 Trichloroethene	95	6.352	6.352	0.000	99	1845636	200.0	211.8	
67 2-Pentanone	43	6.478	6.478	0.000	99	4833720	640.0	705.5	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	2468516	200.0	215.7	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	98	1990727	200.0	206.9	
71 1,4-Dioxane	88	6.631	6.631	0.000	93	563201	4000.0	3998.7	
72 Dibromomethane	93	6.659	6.659	0.000	96	1103368	200.0	212.9	
73 Dichlorobromomethane	83	6.799	6.799	0.000	100	2333037	200.0	226.1	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	90	329811	200.0	216.9	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	97	3088110	200.0	230.7	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	7511891	800.0	871.2	
80 Toluene	91	7.483	7.483	0.000	98	8007454	200.0	203.5	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	92	2742841	200.0	244.1	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	2531695	200.0	225.6	
86 1,1,2-Trichloroethane	97	7.874	7.861	0.014	90	1685495	200.0	208.3	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	1377507	200.0	212.3	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	97	3006852	200.0	205.7	
91 2-Hexanone	43	8.042	8.042	0.000	94	5173599	800.0	853.6	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	1717846	200.0	237.6	
95 Ethylene Dibromide	107	8.349	8.349	0.000	98	1725994	200.0	217.6	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	1994500	160.0	162.3	
97 Chlorobenzene	112	8.796	8.796	0.000	94	4951153	200.0	204.7	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	44	1657568	200.0	231.8	
98 Ethylbenzene	106	8.880	8.880	0.000	98	2877943	200.0	212.8	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	3476164	200.0	213.3	
101 o-Xylene	106	9.369	9.369	0.000	96	3361918	200.0	211.0	
103 Styrene	104	9.397	9.397	0.000	95	5576338	200.0	216.1	
104 Bromoform	173	9.578	9.578	0.000	95	1064740	200.0	247.2	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	8124699	200.0	206.5	
107 Cyclohexanone	55	9.830	9.830	0.000	91	3377472	6000.0	6657.3	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	2260104	200.0	203.9	
109 Bromobenzene	156	10.053	10.053	0.000	95	1965267	200.0	214.2	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	76	554096	200.0	230.5	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	83	684219	200.0	198.1	
112 N-Propylbenzene	120	10.137	10.137	0.000	98	2359878	200.0	212.1	
113 2-Chlorotoluene	126	10.235	10.235	0.000	97	1982141	200.0	211.6	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	-0.001	94	6857564	200.0	210.1	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	2039987	200.0	209.9	

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	93	5828262	200.0	212.5	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	7012977	200.0	210.5	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	1730393	200.0	215.4	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	3685855	200.0	206.4	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	7270441	200.0	216.4	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	96	3740880	200.0	205.7	
124 n-Butylbenzene	91	11.408	11.408	0.000	97	6563403	200.0	218.7	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	3478944	200.0	215.9	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	88	401938	200.0	230.1	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	1931008	200.0	224.1	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	722899	200.0	220.3	
130 Naphthalene	128	13.335	13.335	0.000	97	4746128	200.0	227.7	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	1503611	200.0	230.1	
S 147 1,2-Dichloroethene, Total (URS)	96				0		400.0	418.9	
S 148 Xylenes, Total	106				0		400.0	424.3	
S 150 Xylenes, Total (URS)	1				0		400.0	424.3	
S 151 Total BTEX	1				0			1043.1	
S 152 Trihalomethanes, Total	1				0		800.0	917.5	
S 153 1,2-Dichloroethene, Total	1				0		400.0	418.9	
S 154 1,3-Dichloropropene, Total	1				0		400.0	474.8	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 100.00	Units: uL	
MV-Gas A_00190	Amount Added: 40.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

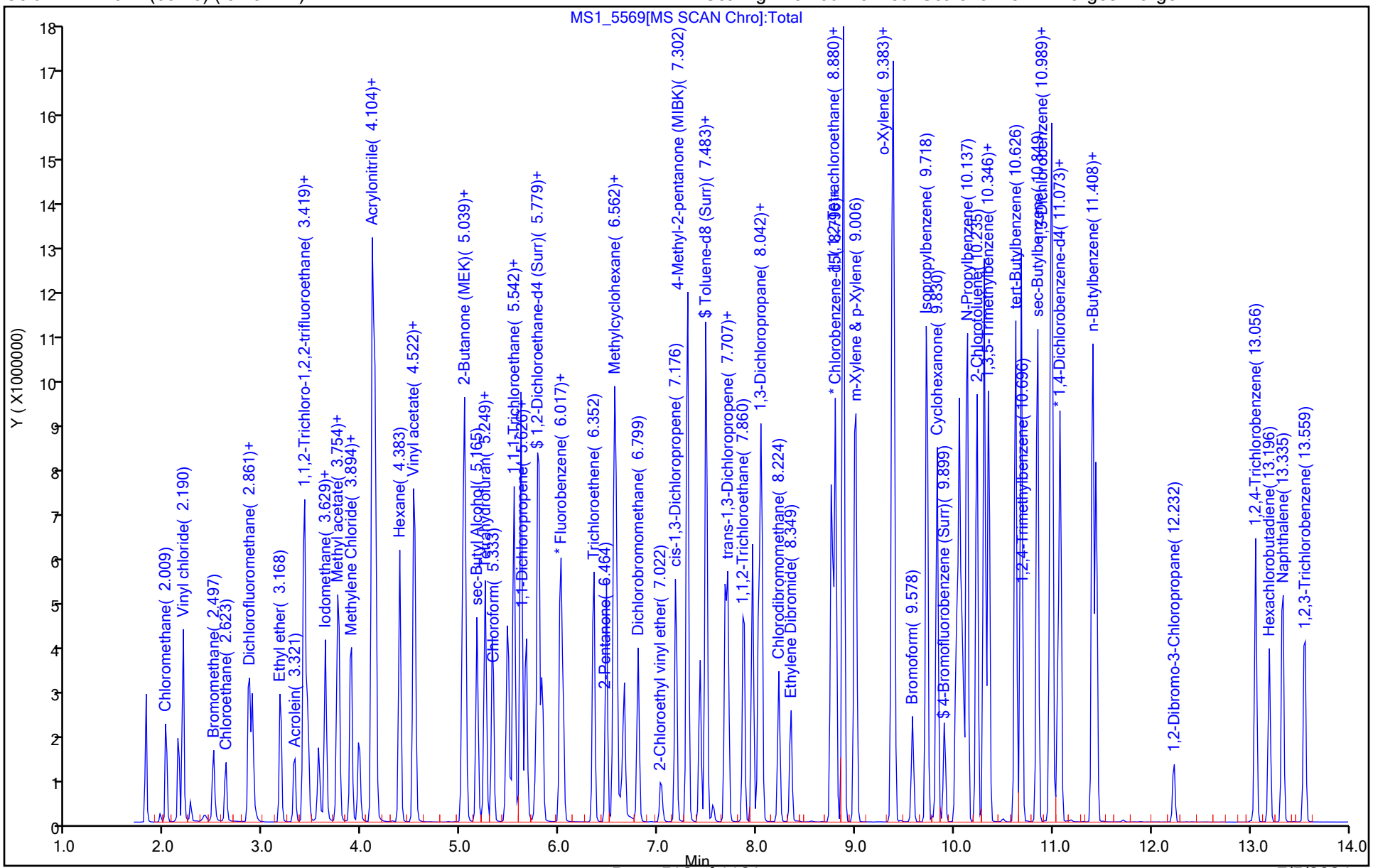
Report Date: 20-Jun-2024 06:43:54 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Injection Date:	19-Jun-2024 23:49:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	21
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



7/5/2024
11:14:22 AM

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

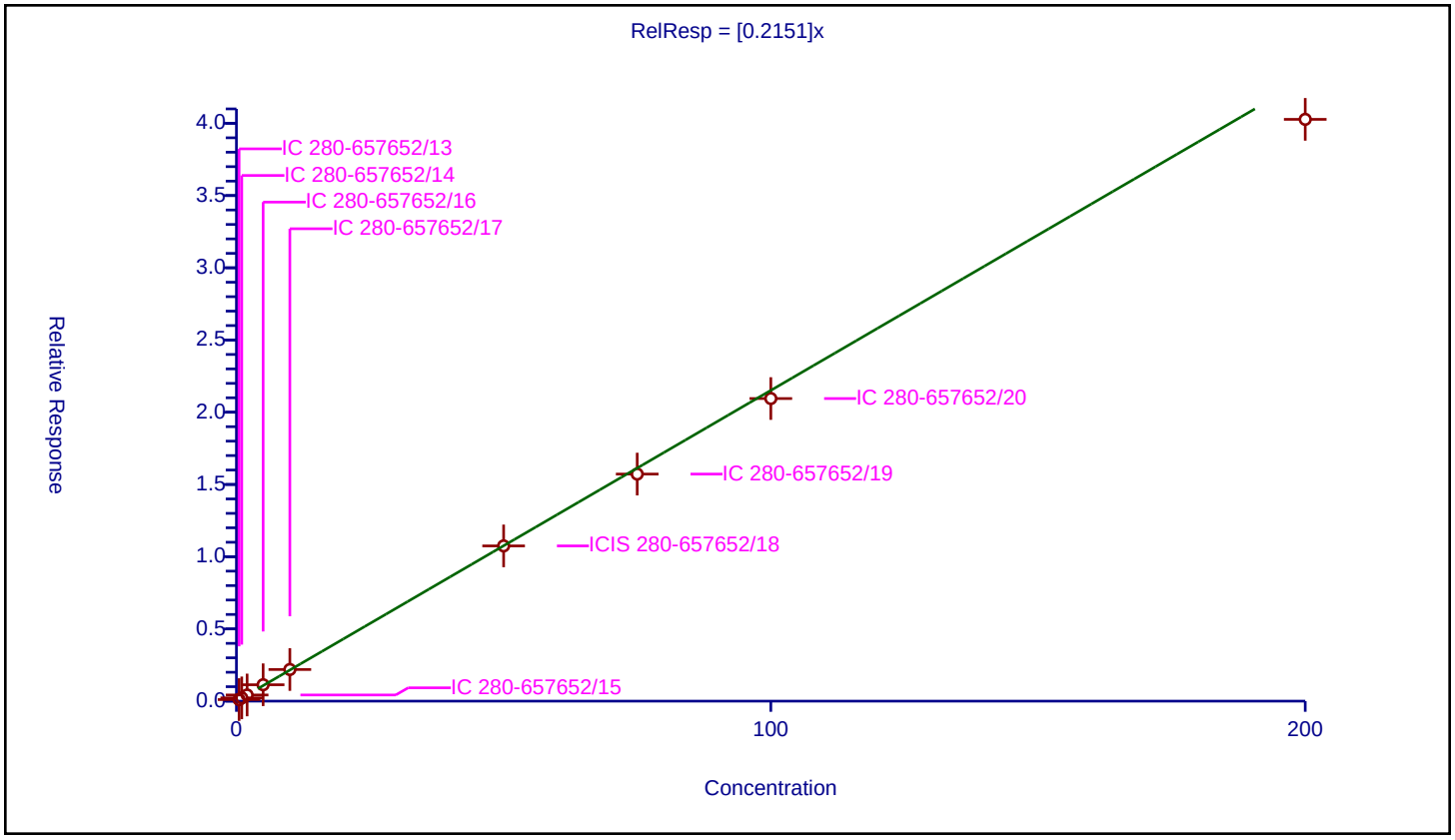
Curve Coefficients

Intercept:	0
Slope:	0.2151

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.107892	50.0	2154011.0	0.215783	Y
2	IC 280-657652/14	1.0	0.225871	50.0	2190855.0	0.225871	Y
3	IC 280-657652/15	2.0	0.426043	50.0	2169615.0	0.213022	Y
4	IC 280-657652/16	5.0	1.135476	50.0	2205330.0	0.227095	Y
5	IC 280-657652/17	10.0	2.189991	50.0	2262954.0	0.218999	Y
6	ICIS 280-657652/18	50.0	10.747213	50.0	2272296.0	0.214944	Y
7	IC 280-657652/19	75.0	15.719876	50.0	2338409.0	0.209598	Y
8	IC 280-657652/20	100.0	20.948445	50.0	2332808.0	0.209484	Y
9	IC 280-657652/21	200.0	40.276244	50.0	2367362.0	0.201381	Y



7/5/2024
11:14:22 AM

Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

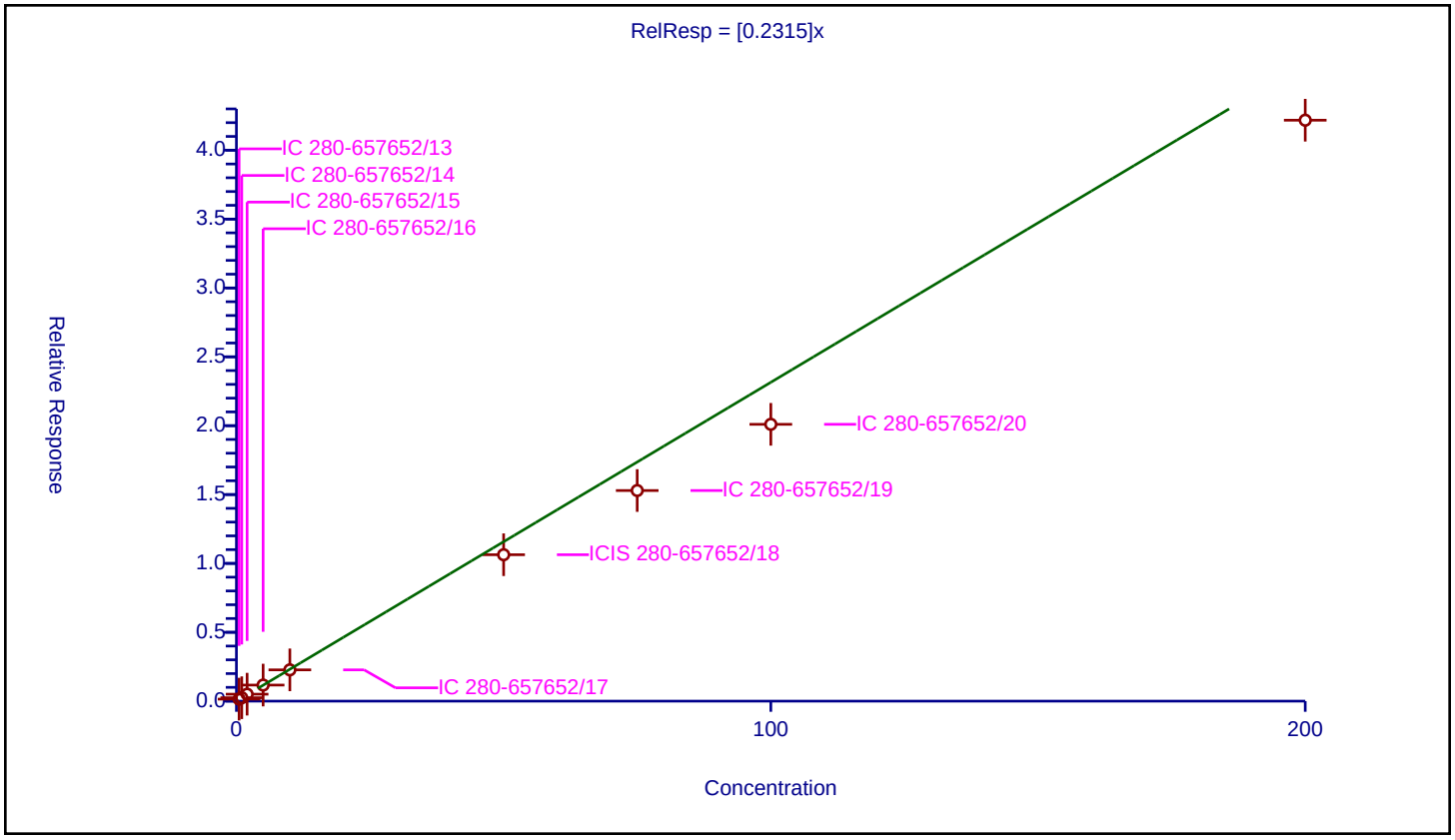
Curve Coefficients

Intercept:	0
Slope:	0.2315

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.146517	50.0	2154011.0	0.293035	Y
2	IC 280-657652/14	1.0	0.248807	50.0	2190855.0	0.248807	Y
3	IC 280-657652/15	2.0	0.505435	50.0	2169615.0	0.252718	Y
4	IC 280-657652/16	5.0	1.166764	50.0	2205330.0	0.233353	Y
5	IC 280-657652/17	10.0	2.270395	50.0	2262954.0	0.22704	Y
6	ICIS 280-657652/18	50.0	10.630459	50.0	2272296.0	0.212609	Y
7	IC 280-657652/19	75.0	15.291551	50.0	2338409.0	0.203887	Y
8	IC 280-657652/20	100.0	20.098954	50.0	2332808.0	0.20099	Y
9	IC 280-657652/21	200.0	42.17815	50.0	2367362.0	0.210891	Y



7/5/2024
11:14:22 AM

Calibration / Vinyl chloride

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

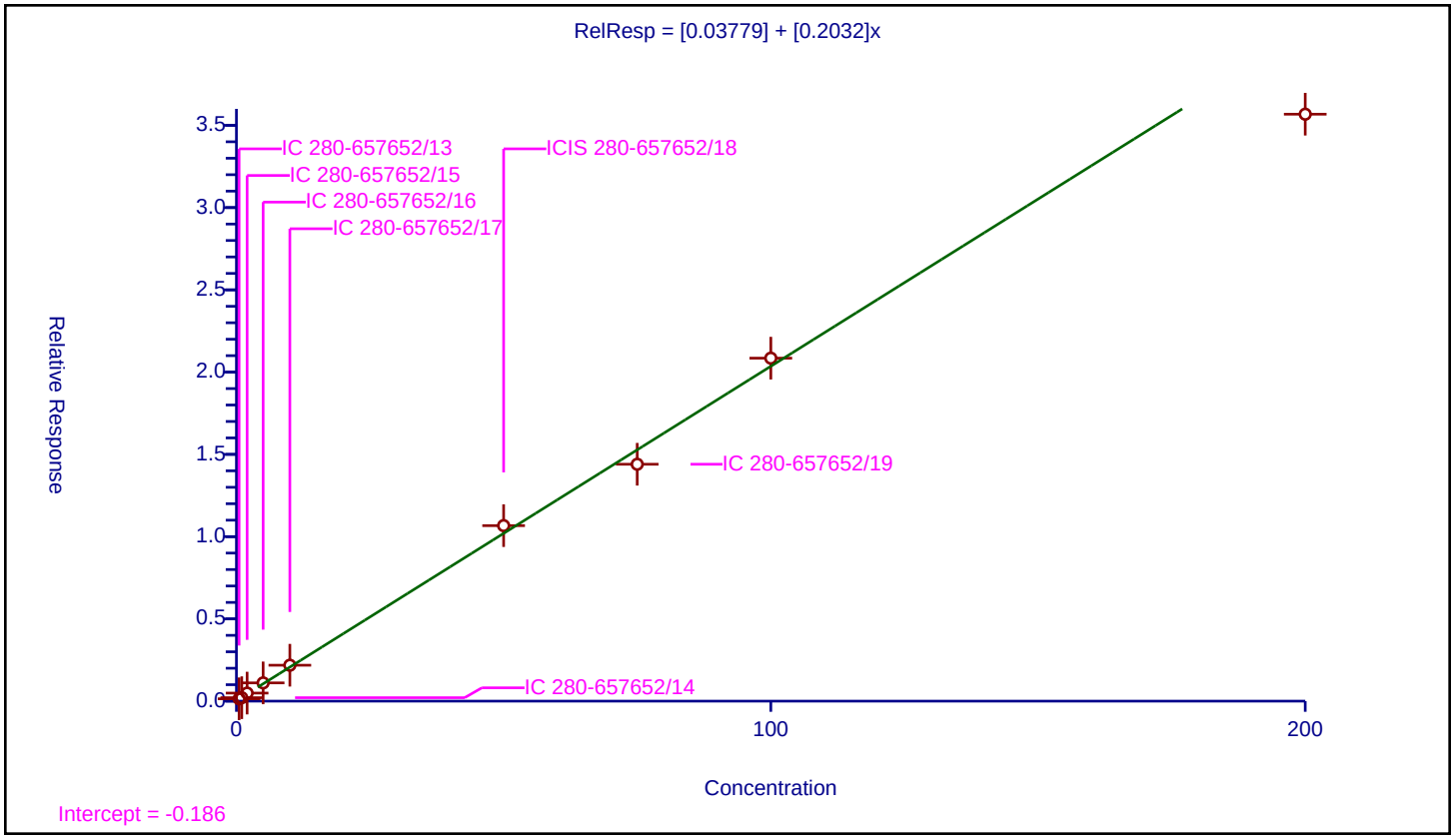
Curve Coefficients

Intercept:	0.03779
Slope:	0.2032

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.143523	50.0	2154011.0	0.287046	Y
2	IC 280-657652/14	1.0	0.209644	50.0	2190855.0	0.209644	Y
3	IC 280-657652/15	2.0	0.490064	50.0	2169615.0	0.245032	Y
4	IC 280-657652/16	5.0	1.109743	50.0	2205330.0	0.221949	Y
5	IC 280-657652/17	10.0	2.182413	50.0	2262954.0	0.218241	Y
6	ICIS 280-657652/18	50.0	10.668592	50.0	2272296.0	0.213372	Y
7	IC 280-657652/19	75.0	14.399235	50.0	2338409.0	0.19199	Y
8	IC 280-657652/20	100.0	20.848437	50.0	2332808.0	0.208484	Y
9	IC 280-657652/21	200.0	35.67718	50.0	2367362.0	0.178386	Y



7/5/2024
11:14:22 AM

Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

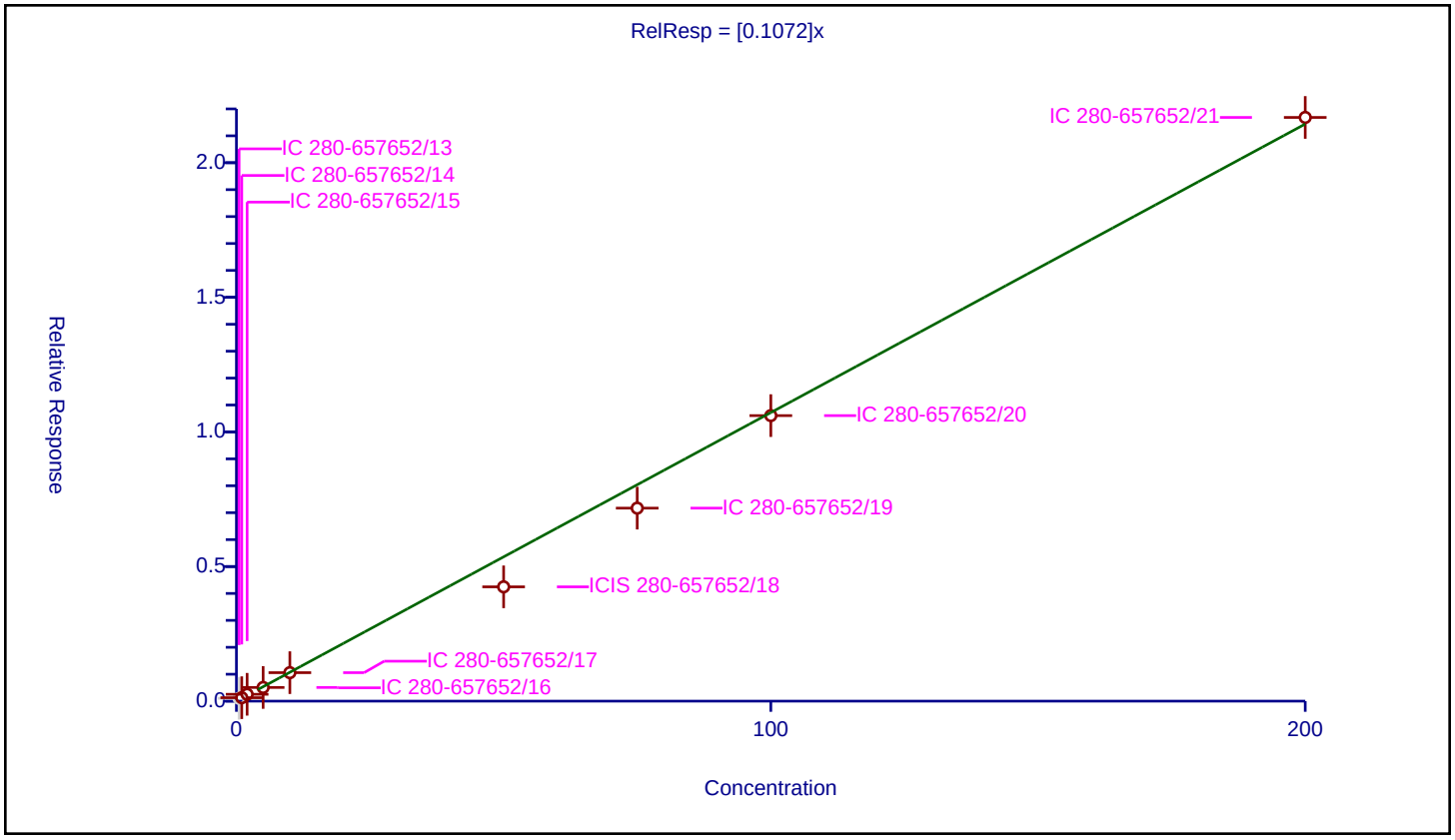
Curve Coefficients

Intercept:	0
Slope:	0.1072

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.105129	50.0	2154011.0	0.210259	N
2	IC 280-657652/14	1.0	0.12785	50.0	2190855.0	0.12785	Y
3	IC 280-657652/15	2.0	0.254584	50.0	2169615.0	0.127292	Y
4	IC 280-657652/16	5.0	0.507861	50.0	2205330.0	0.101572	Y
5	IC 280-657652/17	10.0	1.057953	50.0	2262954.0	0.105795	Y
6	ICIS 280-657652/18	50.0	4.246234	50.0	2272296.0	0.084925	Y
7	IC 280-657652/19	75.0	7.169576	50.0	2338409.0	0.095594	Y
8	IC 280-657652/20	100.0	10.606402	50.0	2332808.0	0.106064	Y
9	IC 280-657652/21	200.0	21.682616	50.0	2367362.0	0.108413	Y



7/5/2024
11:14:22 AM

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

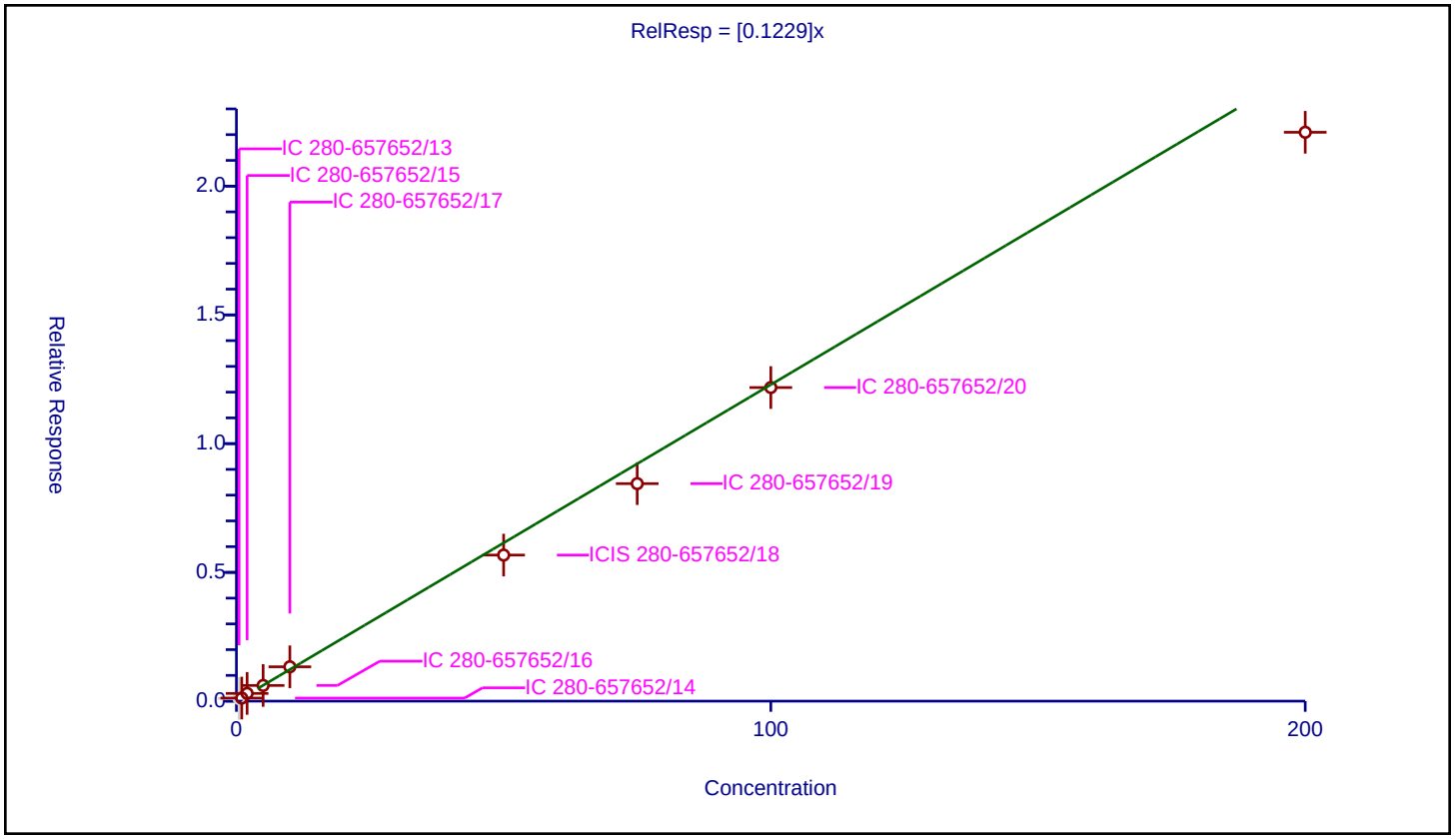
Curve Coefficients

Intercept:	0
Slope:	0.1229

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.102762	50.0	2154011.0	0.205524	N
2	IC 280-657652/14	1.0	0.119862	50.0	2190855.0	0.119862	Y
3	IC 280-657652/15	2.0	0.299638	50.0	2169615.0	0.149819	Y
4	IC 280-657652/16	5.0	0.608843	50.0	2205330.0	0.121769	Y
5	IC 280-657652/17	10.0	1.334141	50.0	2262954.0	0.133414	Y
6	ICIS 280-657652/18	50.0	5.673161	50.0	2272296.0	0.113463	Y
7	IC 280-657652/19	75.0	8.447111	50.0	2338409.0	0.112628	Y
8	IC 280-657652/20	100.0	12.178306	50.0	2332808.0	0.121783	Y
9	IC 280-657652/21	200.0	22.092037	50.0	2367362.0	0.11046	Y



7/5/2024
11:14:22 AM

Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

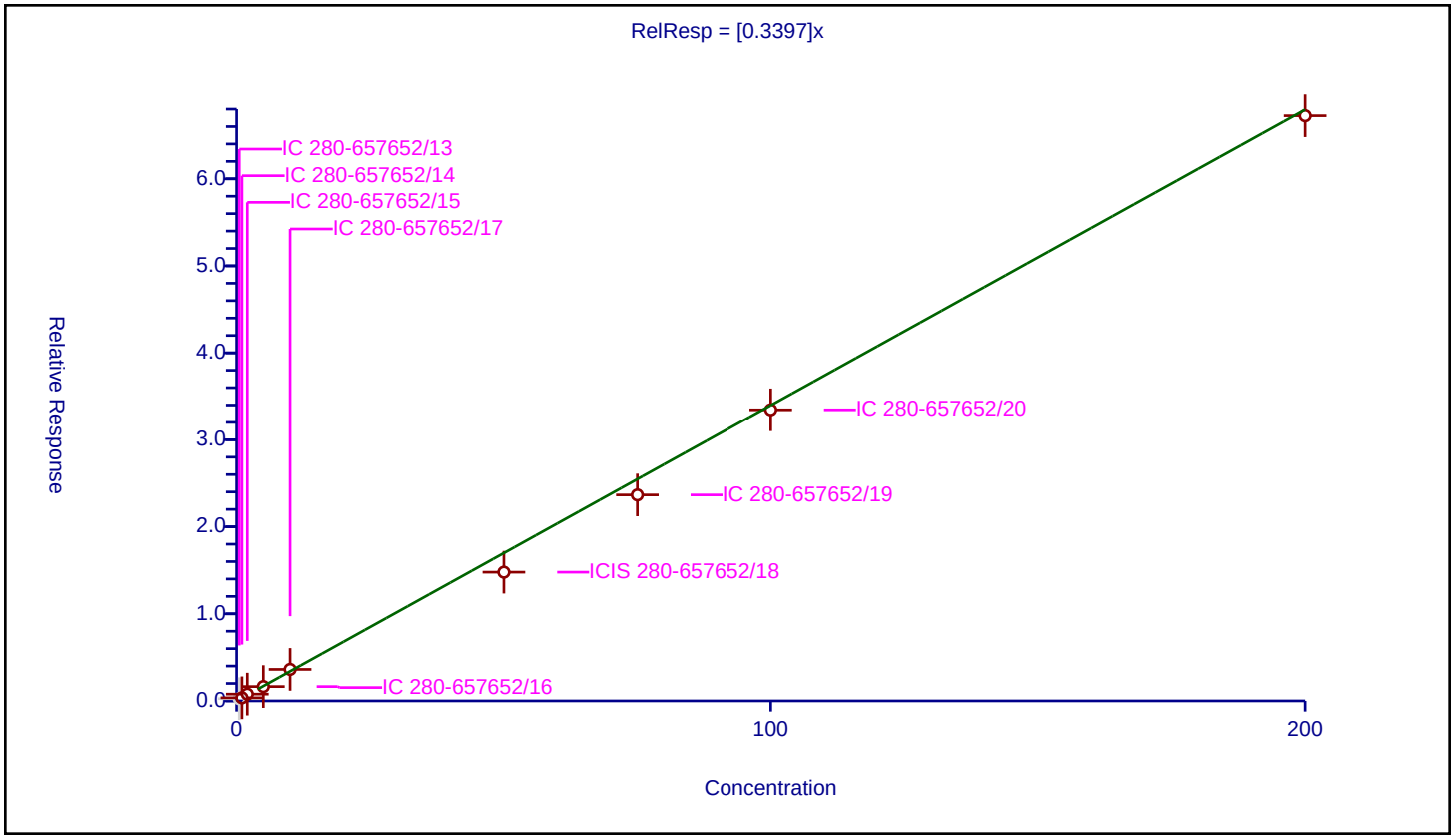
Curve Coefficients

Intercept:	0
Slope:	0.3397

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.255732	50.0	2154011.0	0.511464	N
2	IC 280-657652/14	1.0	0.356025	50.0	2190855.0	0.356025	Y
3	IC 280-657652/15	2.0	0.778986	50.0	2169615.0	0.389493	Y
4	IC 280-657652/16	5.0	1.643359	50.0	2205330.0	0.328672	Y
5	IC 280-657652/17	10.0	3.61607	50.0	2262954.0	0.361607	Y
6	ICIS 280-657652/18	50.0	14.784429	50.0	2272296.0	0.295689	Y
7	IC 280-657652/19	75.0	23.661921	50.0	2338409.0	0.315492	Y
8	IC 280-657652/20	100.0	33.453439	50.0	2332808.0	0.334534	Y
9	IC 280-657652/21	200.0	67.244025	50.0	2367362.0	0.33622	Y



7/5/2024
11:14:22 AM

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

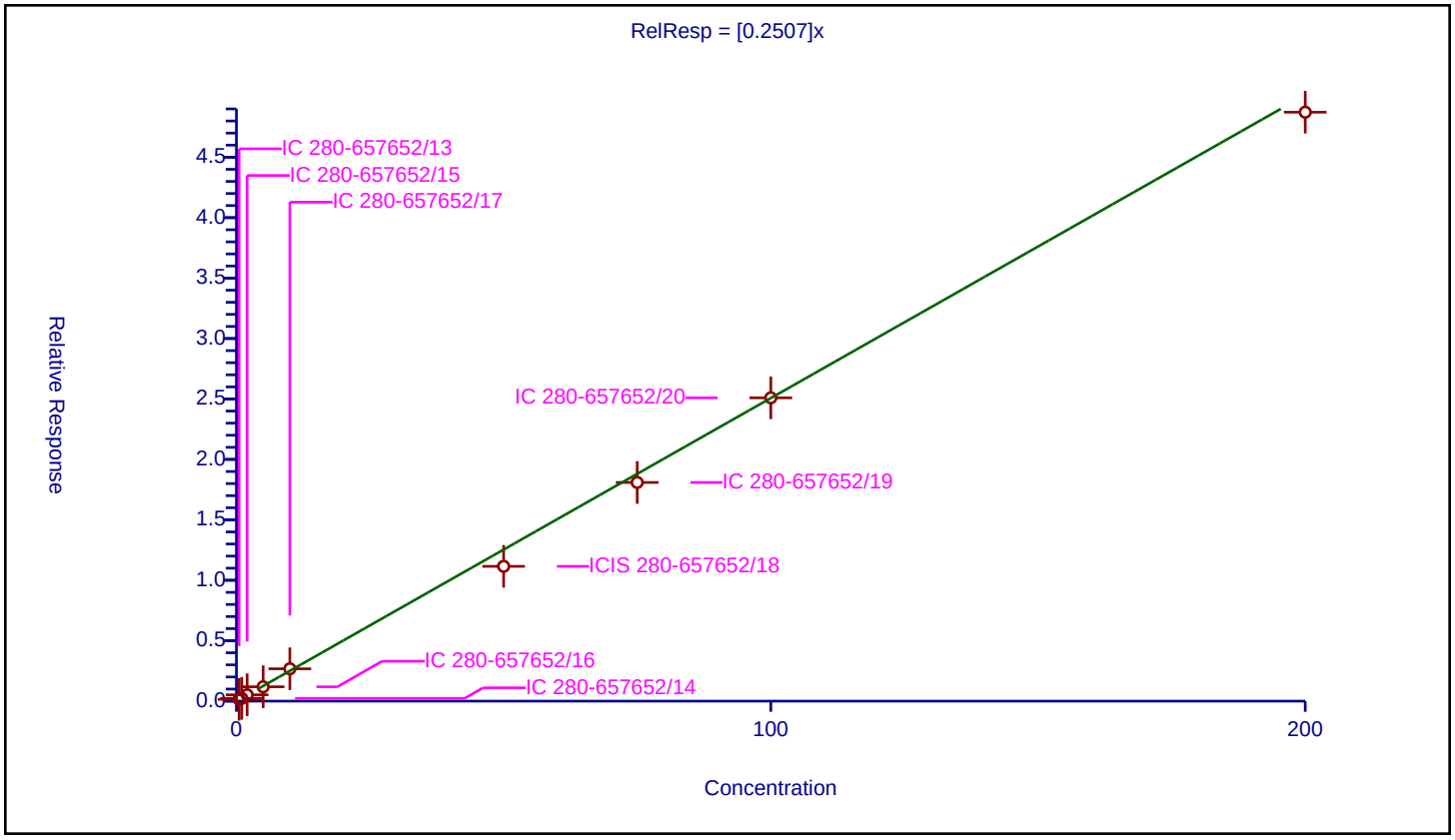
Curve Coefficients

Intercept:	0
Slope:	0.2507

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.150092	50.0	2154011.0	0.300184	Y
2	IC 280-657652/14	1.0	0.230641	50.0	2190855.0	0.230641	Y
3	IC 280-657652/15	2.0	0.523342	50.0	2169615.0	0.261671	Y
4	IC 280-657652/16	5.0	1.187713	50.0	2205330.0	0.237543	Y
5	IC 280-657652/17	10.0	2.676921	50.0	2262954.0	0.267692	Y
6	ICIS 280-657652/18	50.0	11.154005	50.0	2272296.0	0.22308	Y
7	IC 280-657652/19	75.0	18.093092	50.0	2338409.0	0.241241	Y
8	IC 280-657652/20	100.0	25.095486	50.0	2332808.0	0.250955	Y
9	IC 280-657652/21	200.0	48.727571	50.0	2367362.0	0.243638	Y



7/5/2024
11:14:22 AM

Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

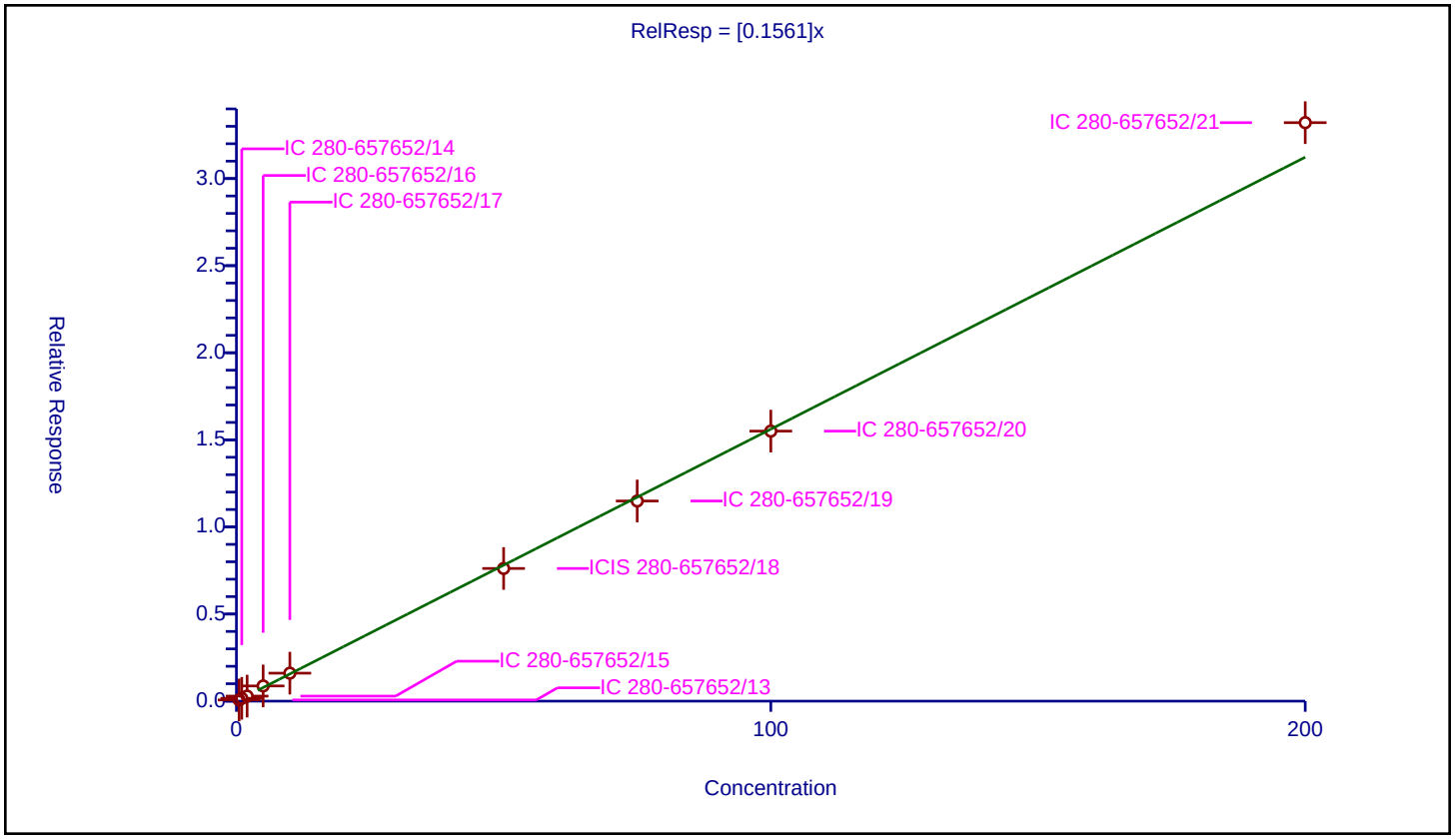
Curve Coefficients

Intercept:	0
Slope:	0.1561

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.068593	50.0	2154011.0	0.137186	Y
2	IC 280-657652/14	1.0	0.161489	50.0	2190855.0	0.161489	Y
3	IC 280-657652/15	2.0	0.28936	50.0	2169615.0	0.14468	Y
4	IC 280-657652/16	5.0	0.872953	50.0	2205330.0	0.174591	Y
5	IC 280-657652/17	10.0	1.606263	50.0	2262954.0	0.160626	Y
6	ICIS 280-657652/18	50.0	7.616371	50.0	2272296.0	0.152327	Y
7	IC 280-657652/19	75.0	11.489479	50.0	2338409.0	0.153193	Y
8	IC 280-657652/20	100.0	15.50269	50.0	2332808.0	0.155027	Y
9	IC 280-657652/21	200.0	33.209328	50.0	2367362.0	0.166047	Y



7/5/2024
11:14:22 AM

Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

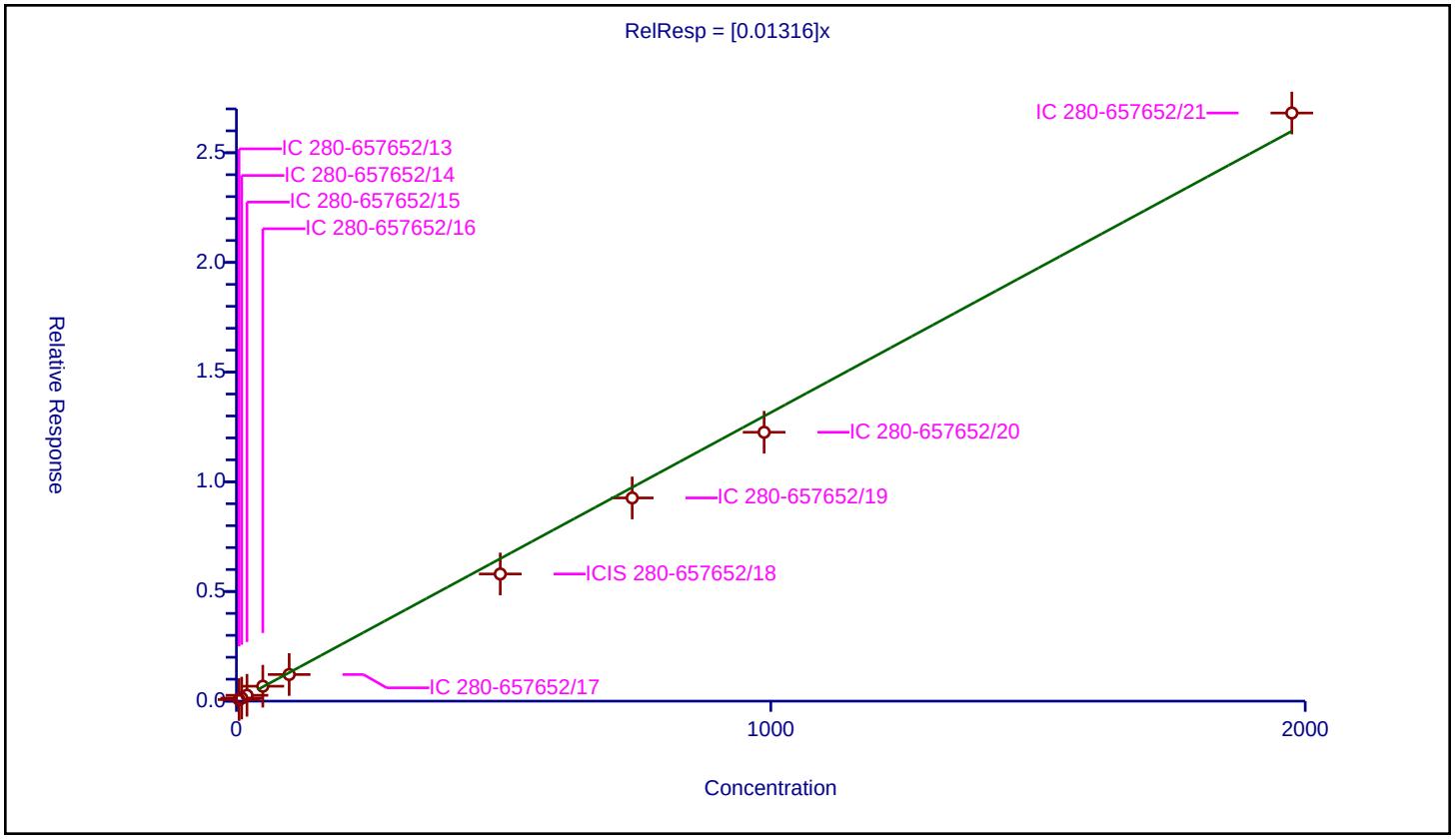
Curve Coefficients

Intercept:	0
Slope:	0.01316

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	4.9375	0.071007	50.0	2154011.0	0.014381	Y
2	IC 280-657652/14	9.875	0.14047	50.0	2190855.0	0.014225	Y
3	IC 280-657652/15	19.75	0.266614	50.0	2169615.0	0.013499	Y
4	IC 280-657652/16	49.375	0.680919	50.0	2205330.0	0.013791	Y
5	IC 280-657652/17	98.75	1.213215	50.0	2262954.0	0.012286	Y
6	ICIS 280-657652/18	493.75	5.797572	50.0	2272296.0	0.011742	Y
7	IC 280-657652/19	740.625	9.263307	50.0	2338409.0	0.012507	Y
8	IC 280-657652/20	987.5	12.257567	50.0	2332808.0	0.012413	Y
9	IC 280-657652/21	1975.0	26.812313	50.0	2367362.0	0.013576	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

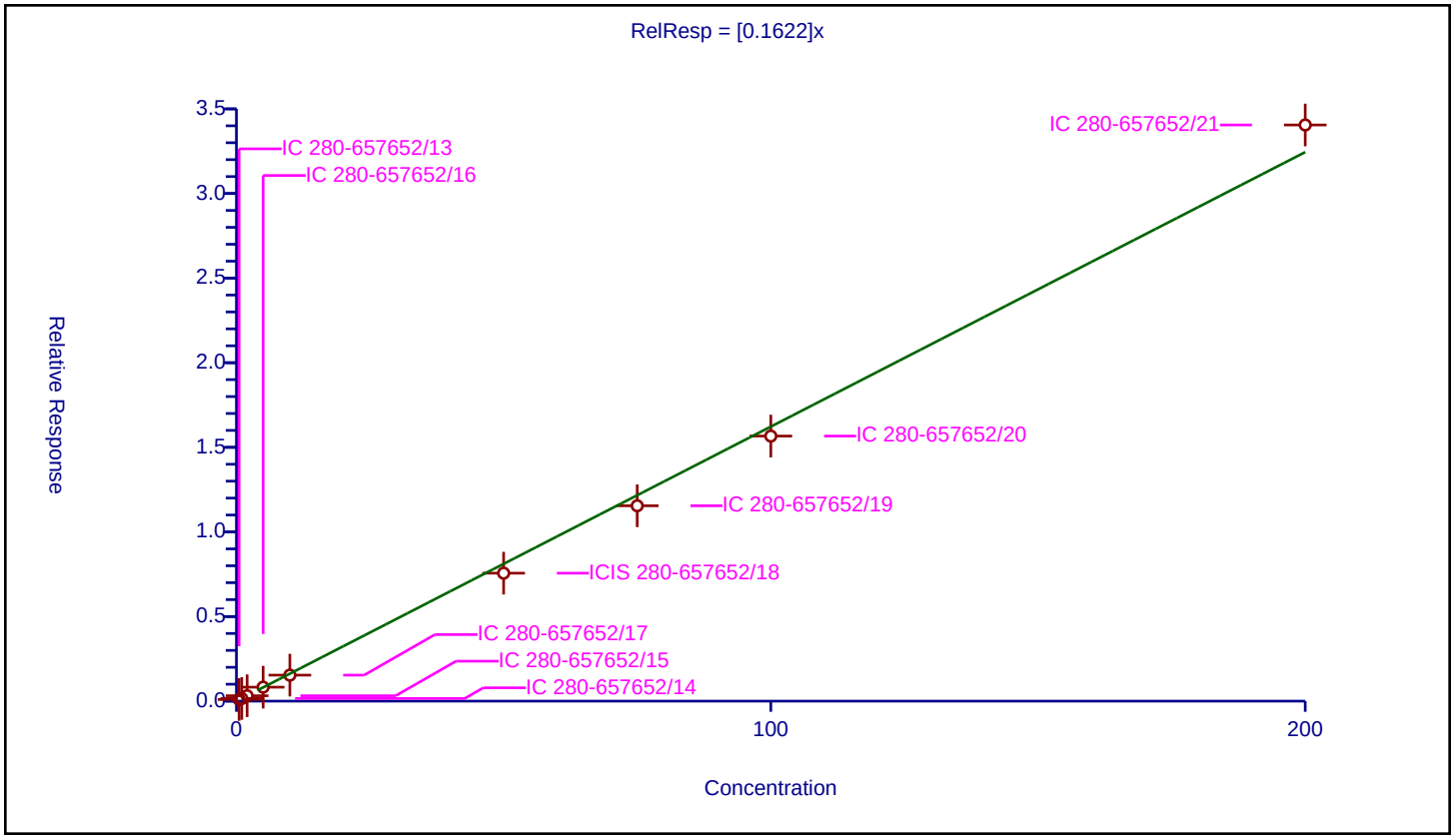
Curve Coefficients

Intercept:	0
Slope:	0.1622

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.096959	50.0	2154011.0	0.193917	Y
2	IC 280-657652/14	1.0	0.156195	50.0	2190855.0	0.156195	Y
3	IC 280-657652/15	2.0	0.318006	50.0	2169615.0	0.159003	Y
4	IC 280-657652/16	5.0	0.825772	50.0	2205330.0	0.165154	Y
5	IC 280-657652/17	10.0	1.536664	50.0	2262954.0	0.153666	Y
6	ICIS 280-657652/18	50.0	7.562769	50.0	2272296.0	0.151255	Y
7	IC 280-657652/19	75.0	11.545799	50.0	2338409.0	0.153944	Y
8	IC 280-657652/20	100.0	15.66432	50.0	2332808.0	0.156643	Y
9	IC 280-657652/21	200.0	34.049841	50.0	2367362.0	0.170249	Y



7/5/2024
11:14:22 AM

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

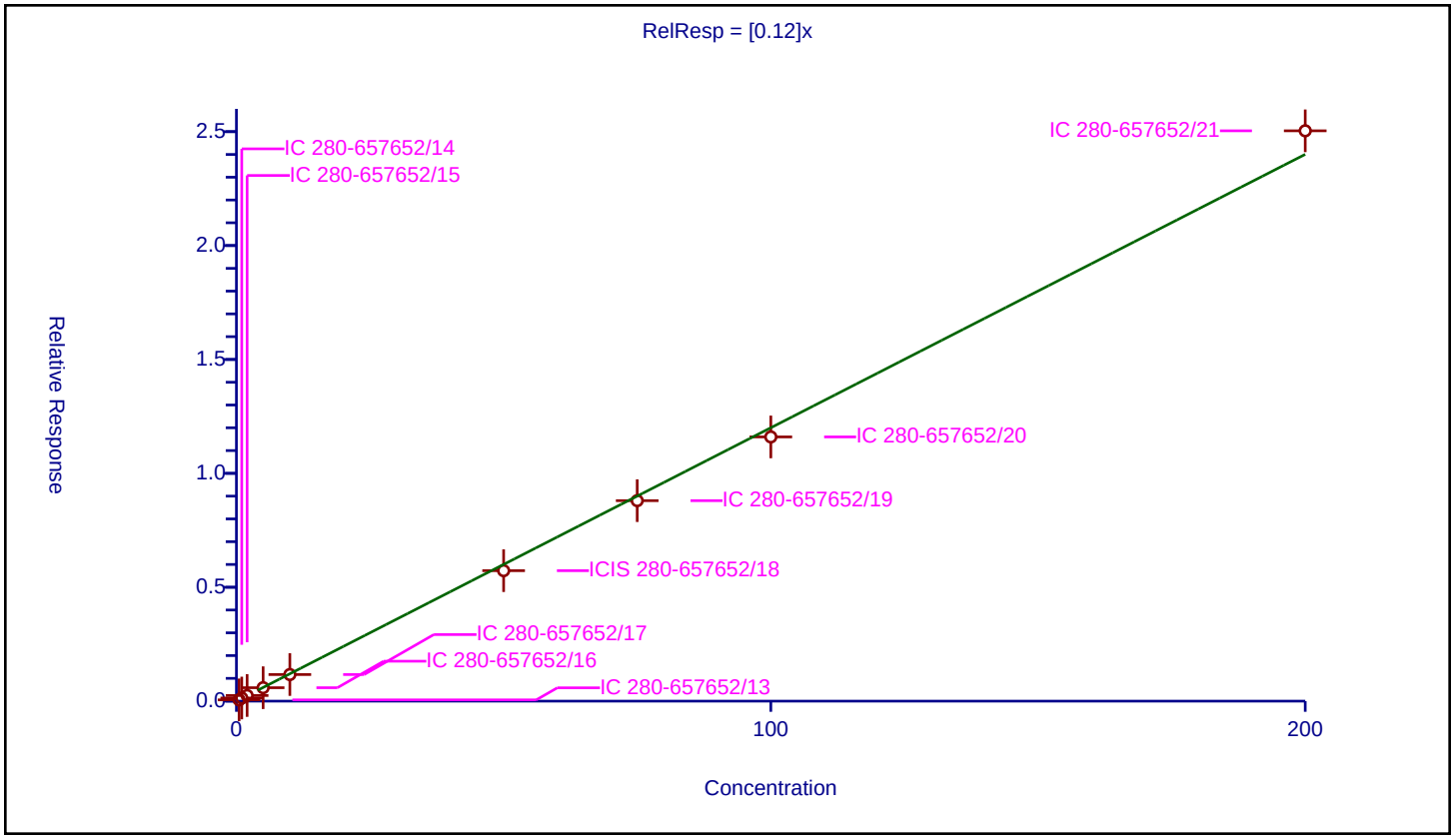
Curve Coefficients

Intercept:	0
Slope:	0.12

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.05571	50.0	2154011.0	0.11142	Y
2	IC 280-657652/14	1.0	0.137252	50.0	2190855.0	0.137252	Y
3	IC 280-657652/15	2.0	0.24721	50.0	2169615.0	0.123605	Y
4	IC 280-657652/16	5.0	0.590184	50.0	2205330.0	0.118037	Y
5	IC 280-657652/17	10.0	1.167987	50.0	2262954.0	0.116799	Y
6	ICIS 280-657652/18	50.0	5.728105	50.0	2272296.0	0.114562	Y
7	IC 280-657652/19	75.0	8.801091	50.0	2338409.0	0.117348	Y
8	IC 280-657652/20	100.0	11.599519	50.0	2332808.0	0.115995	Y
9	IC 280-657652/21	200.0	25.038059	50.0	2367362.0	0.12519	Y



7/5/2024
11:14:22 AM

Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

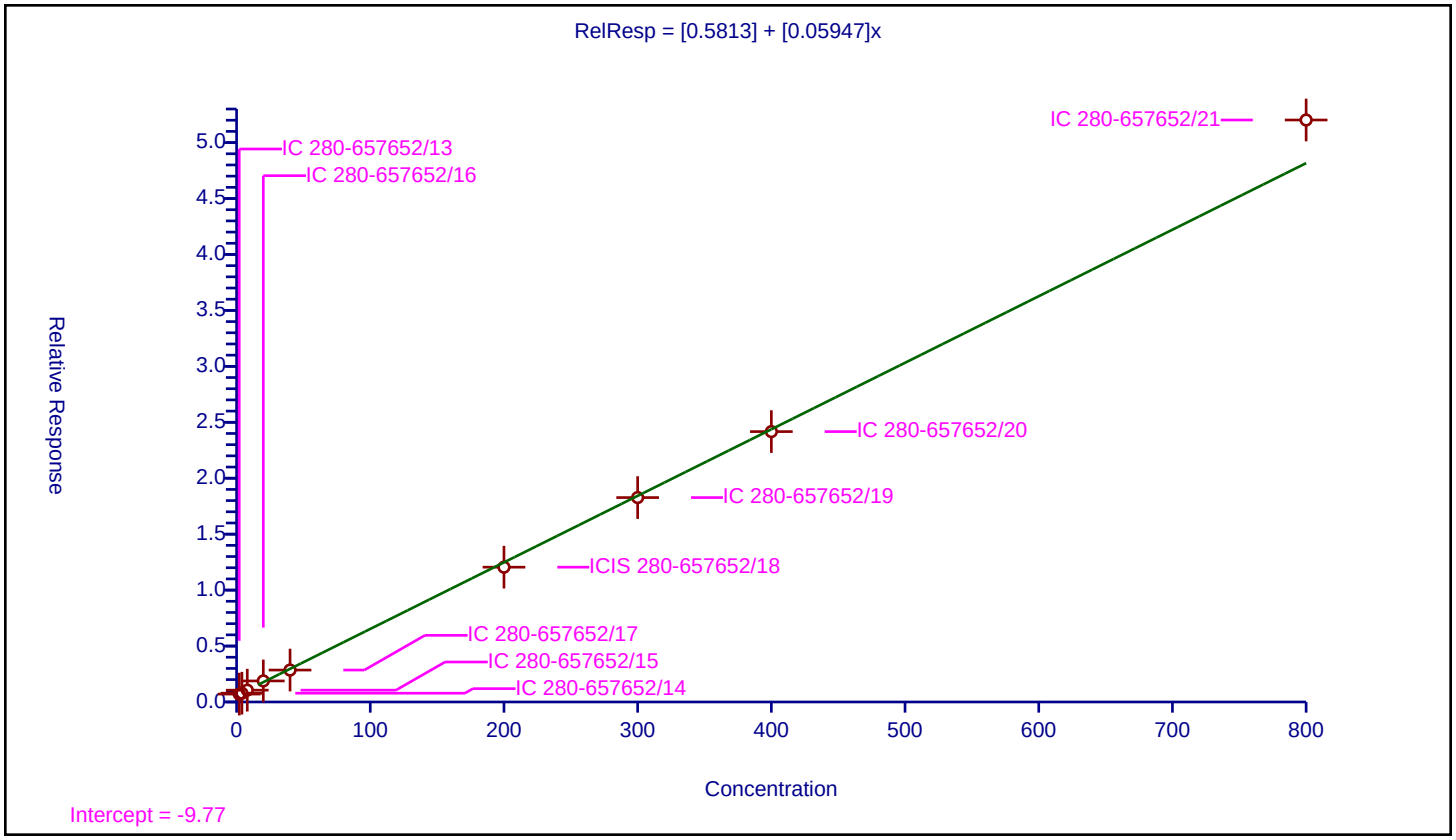
Curve Coefficients

Intercept:	0.5813
Slope:	0.05947

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	2.0	0.707703	50.0	2154011.0	0.353851	Y
2	IC 280-657652/14	4.0	0.786497	50.0	2190855.0	0.196624	Y
3	IC 280-657652/15	8.0	1.05627	50.0	2169615.0	0.132034	Y
4	IC 280-657652/16	20.0	1.881941	50.0	2205330.0	0.094097	Y
5	IC 280-657652/17	40.0	2.854543	50.0	2262954.0	0.071364	Y
6	ICIS 280-657652/18	200.0	12.049927	50.0	2272296.0	0.06025	Y
7	IC 280-657652/19	300.0	18.270414	50.0	2338409.0	0.060901	Y
8	IC 280-657652/20	400.0	24.167377	50.0	2332808.0	0.060418	Y
9	IC 280-657652/21	800.0	52.017224	50.0	2367362.0	0.065022	Y



7/5/2024
11:14:22 AM

Calibration / Iodomethane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

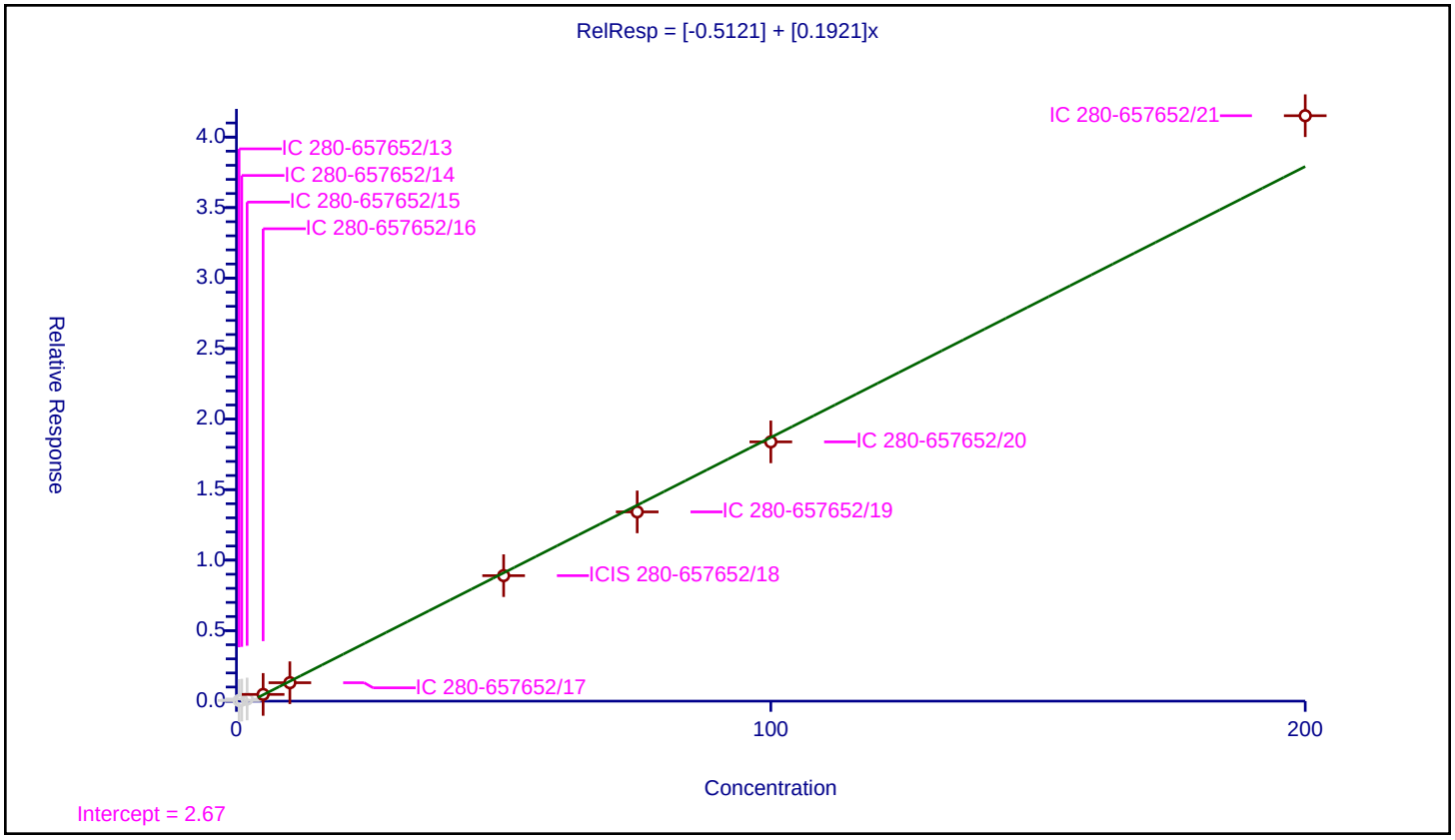
Curve Coefficients

Intercept:	-0.5121
Slope:	0.1921

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.045009	50.0	2154011.0	0.090018	N
2	IC 280-657652/14	1.0	0.073601	50.0	2190855.0	0.073601	N
3	IC 280-657652/15	2.0	0.152009	50.0	2169615.0	0.076004	N
4	IC 280-657652/16	5.0	0.476754	50.0	2205330.0	0.095351	Y
5	IC 280-657652/17	10.0	1.306544	50.0	2262954.0	0.130654	Y
6	ICIS 280-657652/18	50.0	8.899589	50.0	2272296.0	0.177992	Y
7	IC 280-657652/19	75.0	13.420492	50.0	2338409.0	0.17894	Y
8	IC 280-657652/20	100.0	18.38619	50.0	2332808.0	0.183862	Y
9	IC 280-657652/21	200.0	41.516169	50.0	2367362.0	0.207581	Y



7/5/2024
11:14:22 AM

Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

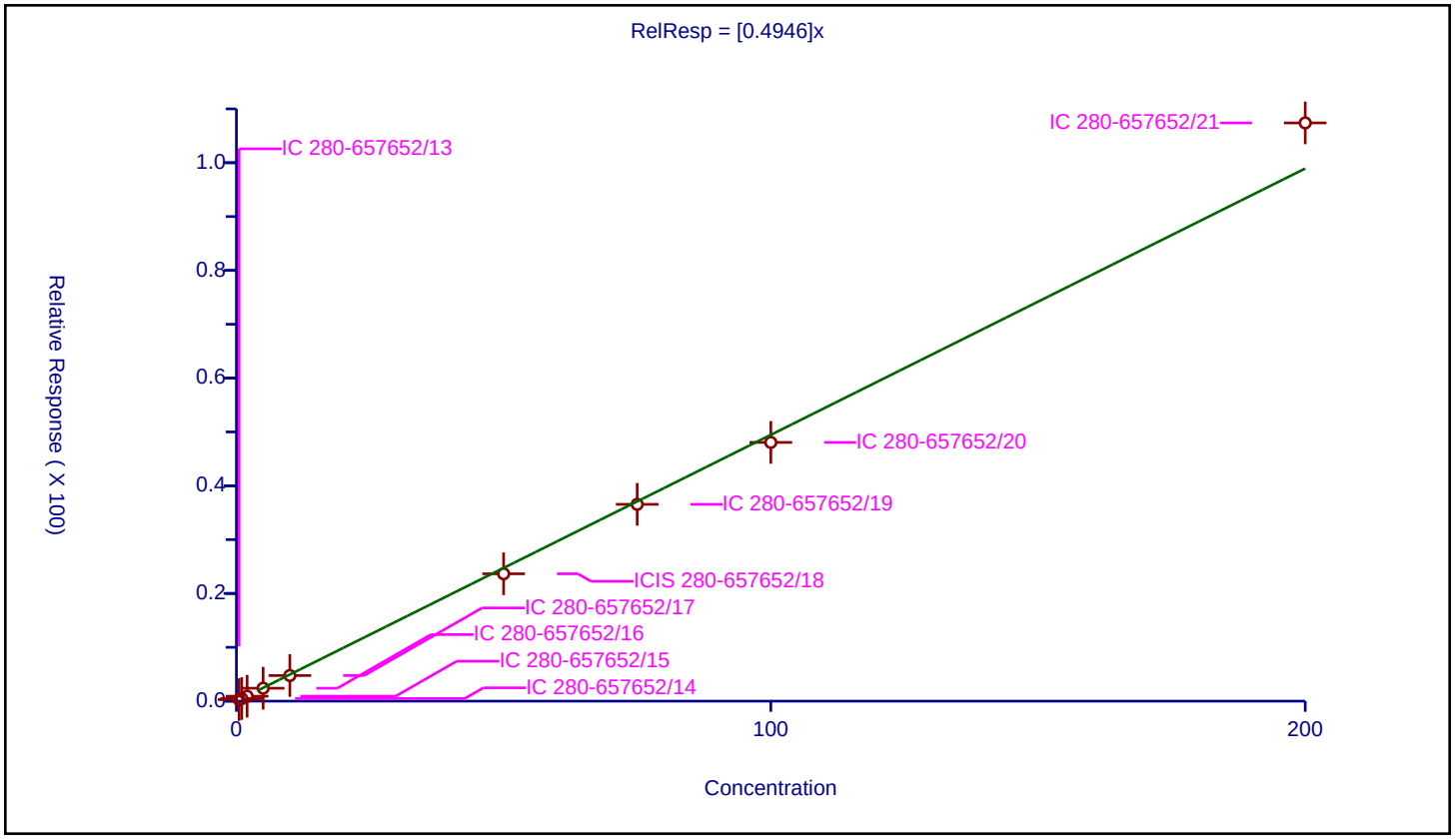
Curve Coefficients

Intercept:	0
Slope:	0.4946

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.288415	50.0	2154011.0	0.576831	Y
2	IC 280-657652/14	1.0	0.481958	50.0	2190855.0	0.481958	Y
3	IC 280-657652/15	2.0	0.917329	50.0	2169615.0	0.458664	Y
4	IC 280-657652/16	5.0	2.402543	50.0	2205330.0	0.480509	Y
5	IC 280-657652/17	10.0	4.755223	50.0	2262954.0	0.475522	Y
6	ICIS 280-657652/18	50.0	23.653609	50.0	2272296.0	0.473072	Y
7	IC 280-657652/19	75.0	36.555603	50.0	2338409.0	0.487408	Y
8	IC 280-657652/20	100.0	48.054705	50.0	2332808.0	0.480547	Y
9	IC 280-657652/21	200.0	107.391941	50.0	2367362.0	0.53696	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

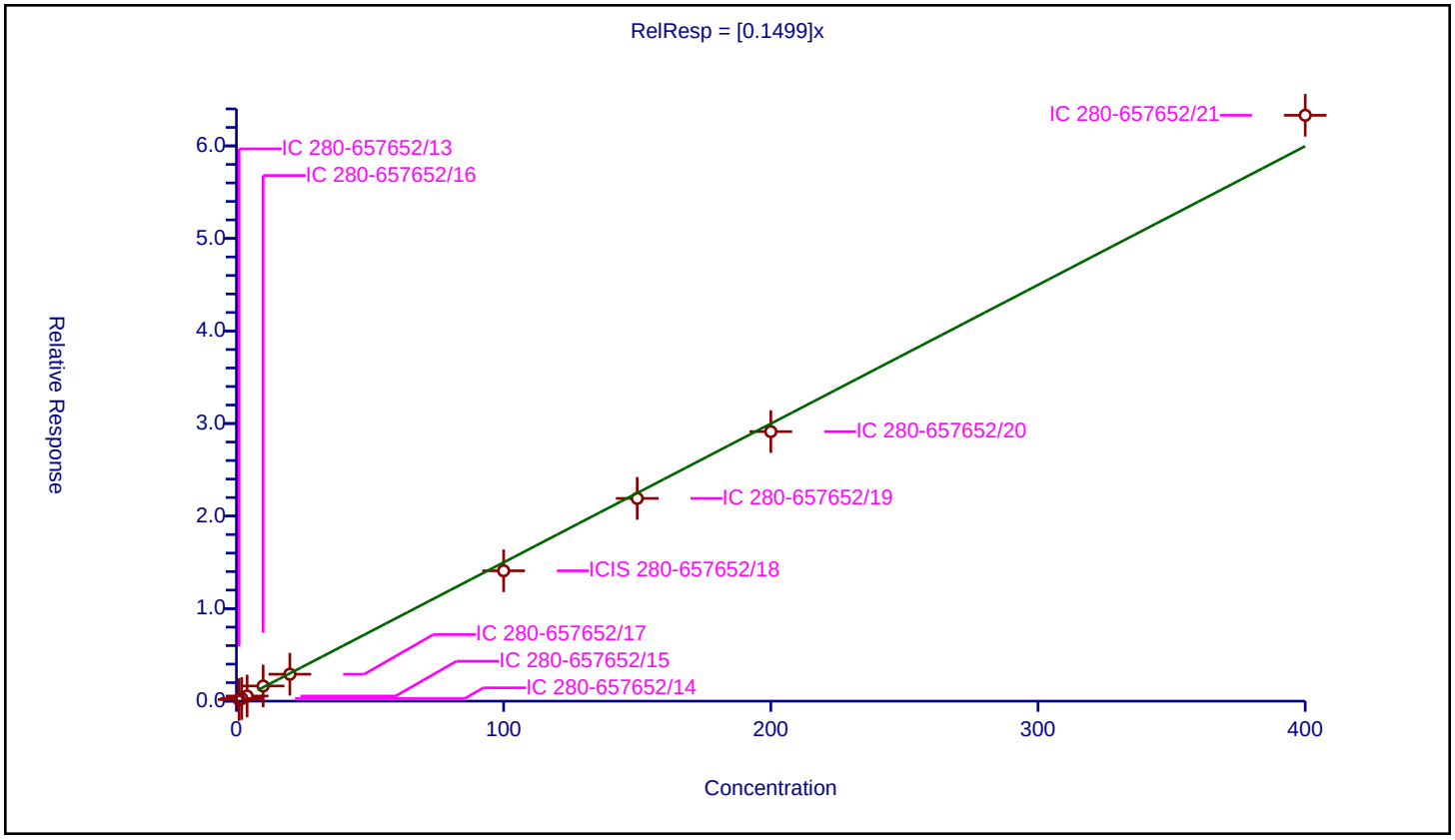
Curve Coefficients

Intercept:	0
Slope:	0.1499

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	1.0	0.170264	50.0	2154011.0	0.170264	Y
2	IC 280-657652/14	2.0	0.281192	50.0	2190855.0	0.140596	Y
3	IC 280-657652/15	4.0	0.553278	50.0	2169615.0	0.138319	Y
4	IC 280-657652/16	10.0	1.638984	50.0	2205330.0	0.163898	Y
5	IC 280-657652/17	20.0	2.908212	50.0	2262954.0	0.145411	Y
6	ICIS 280-657652/18	100.0	14.087425	50.0	2272296.0	0.140874	Y
7	IC 280-657652/19	150.0	21.908443	50.0	2338409.0	0.146056	Y
8	IC 280-657652/20	200.0	29.124536	50.0	2332808.0	0.145623	Y
9	IC 280-657652/21	400.0	63.309836	50.0	2367362.0	0.158275	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

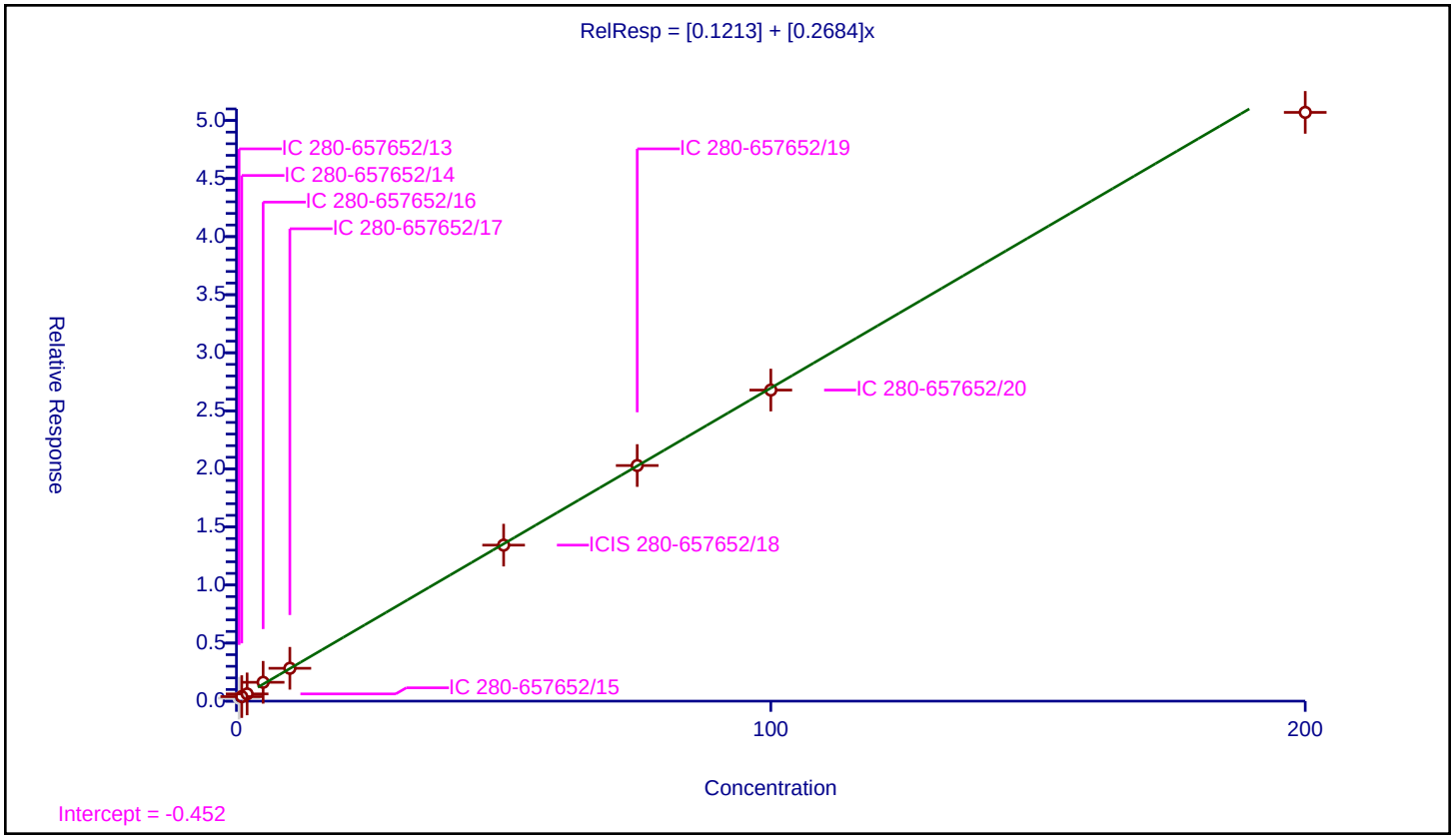
Curve Coefficients

Intercept:	0.1213
Slope:	0.2684

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.257241	50.0	2154011.0	0.514482	N
2	IC 280-657652/14	1.0	0.391879	50.0	2190855.0	0.391879	Y
3	IC 280-657652/15	2.0	0.623705	50.0	2169615.0	0.311853	Y
4	IC 280-657652/16	5.0	1.621617	50.0	2205330.0	0.324323	Y
5	IC 280-657652/17	10.0	2.829841	50.0	2262954.0	0.282984	Y
6	ICIS 280-657652/18	50.0	13.433659	50.0	2272296.0	0.268673	Y
7	IC 280-657652/19	75.0	20.288602	50.0	2338409.0	0.270515	Y
8	IC 280-657652/20	100.0	26.78761	50.0	2332808.0	0.267876	Y
9	IC 280-657652/21	200.0	50.700653	50.0	2367362.0	0.253503	Y



7/5/2024
11:14:22 AM

Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

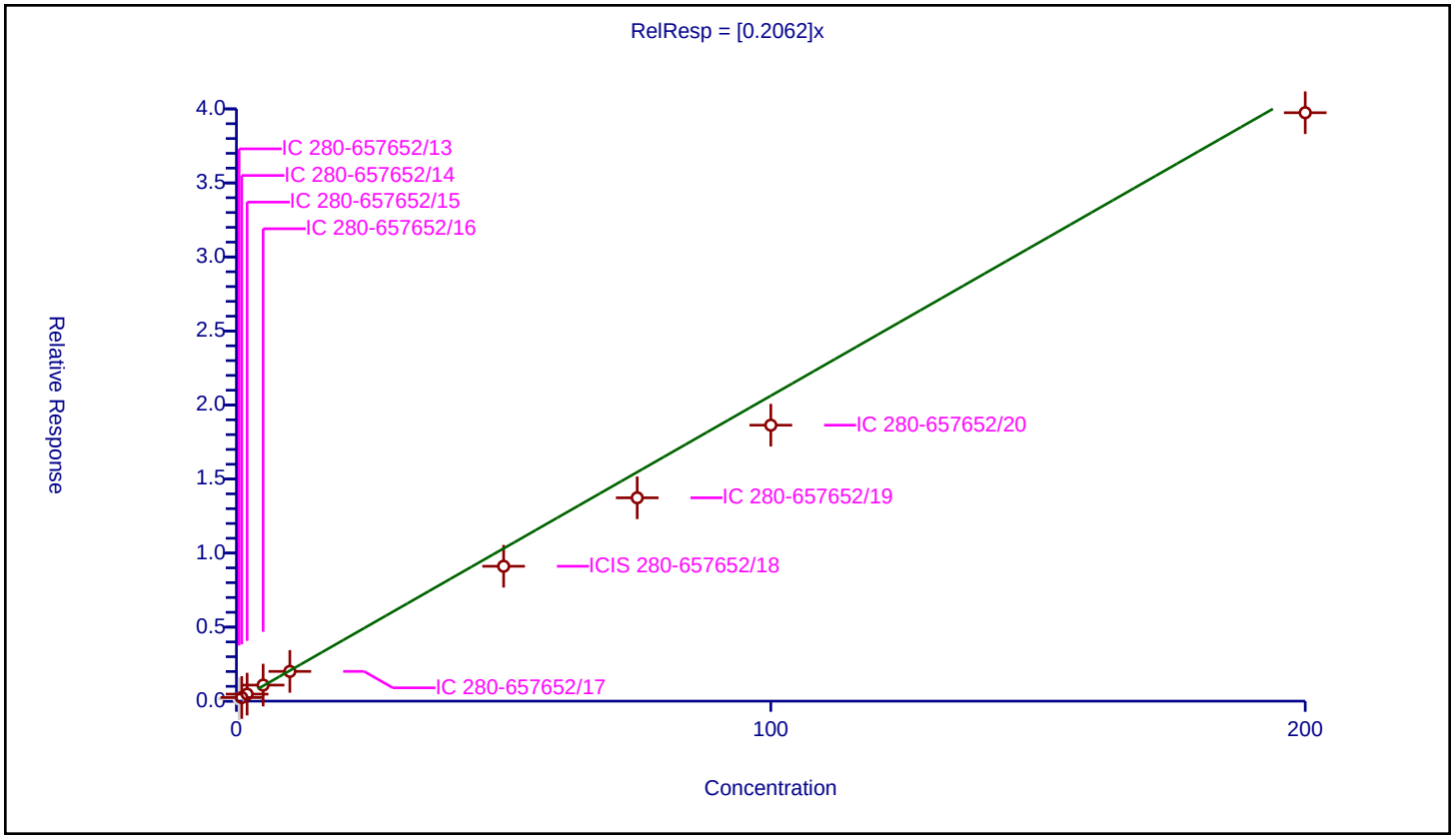
Curve Coefficients

Intercept:	0
Slope:	0.2062

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.156917	50.0	2154011.0	0.313833	N
2	IC 280-657652/14	1.0	0.245133	50.0	2190855.0	0.245133	Y
3	IC 280-657652/15	2.0	0.473402	50.0	2169615.0	0.236701	Y
4	IC 280-657652/16	5.0	1.083965	50.0	2205330.0	0.216793	Y
5	IC 280-657652/17	10.0	2.008658	50.0	2262954.0	0.200866	Y
6	ICIS 280-657652/18	50.0	9.109993	50.0	2272296.0	0.1822	Y
7	IC 280-657652/19	75.0	13.73344	50.0	2338409.0	0.183113	Y
8	IC 280-657652/20	100.0	18.639575	50.0	2332808.0	0.186396	Y
9	IC 280-657652/21	200.0	39.741535	50.0	2367362.0	0.198708	Y



7/5/2024
11:14:22 AM

Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

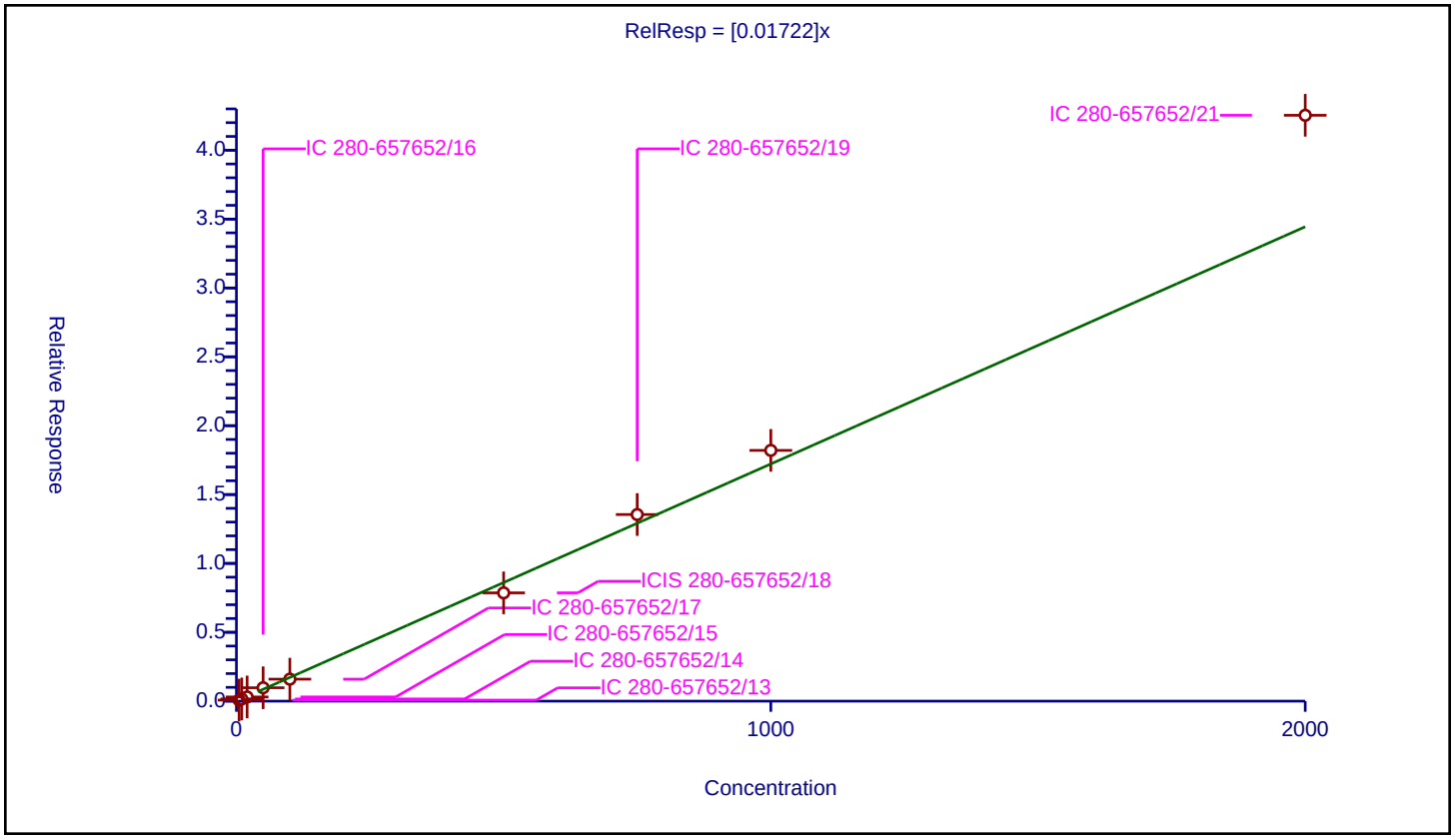
Curve Coefficients

Intercept:	0
Slope:	0.01722

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	5.0	0.075232	50.0	2154011.0	0.015046	Y
2	IC 280-657652/14	10.0	0.160303	50.0	2190855.0	0.01603	Y
3	IC 280-657652/15	20.0	0.304801	50.0	2169615.0	0.01524	Y
4	IC 280-657652/16	50.0	0.972349	50.0	2205330.0	0.019447	Y
5	IC 280-657652/17	100.0	1.59674	50.0	2262954.0	0.015967	Y
6	ICIS 280-657652/18	500.0	7.861322	50.0	2272296.0	0.015723	Y
7	IC 280-657652/19	750.0	13.5484	50.0	2338409.0	0.018065	Y
8	IC 280-657652/20	1000.0	18.205399	50.0	2332808.0	0.018205	Y
9	IC 280-657652/21	2000.0	42.535172	50.0	2367362.0	0.021268	Y



7/5/2024
11:14:22 AM

Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

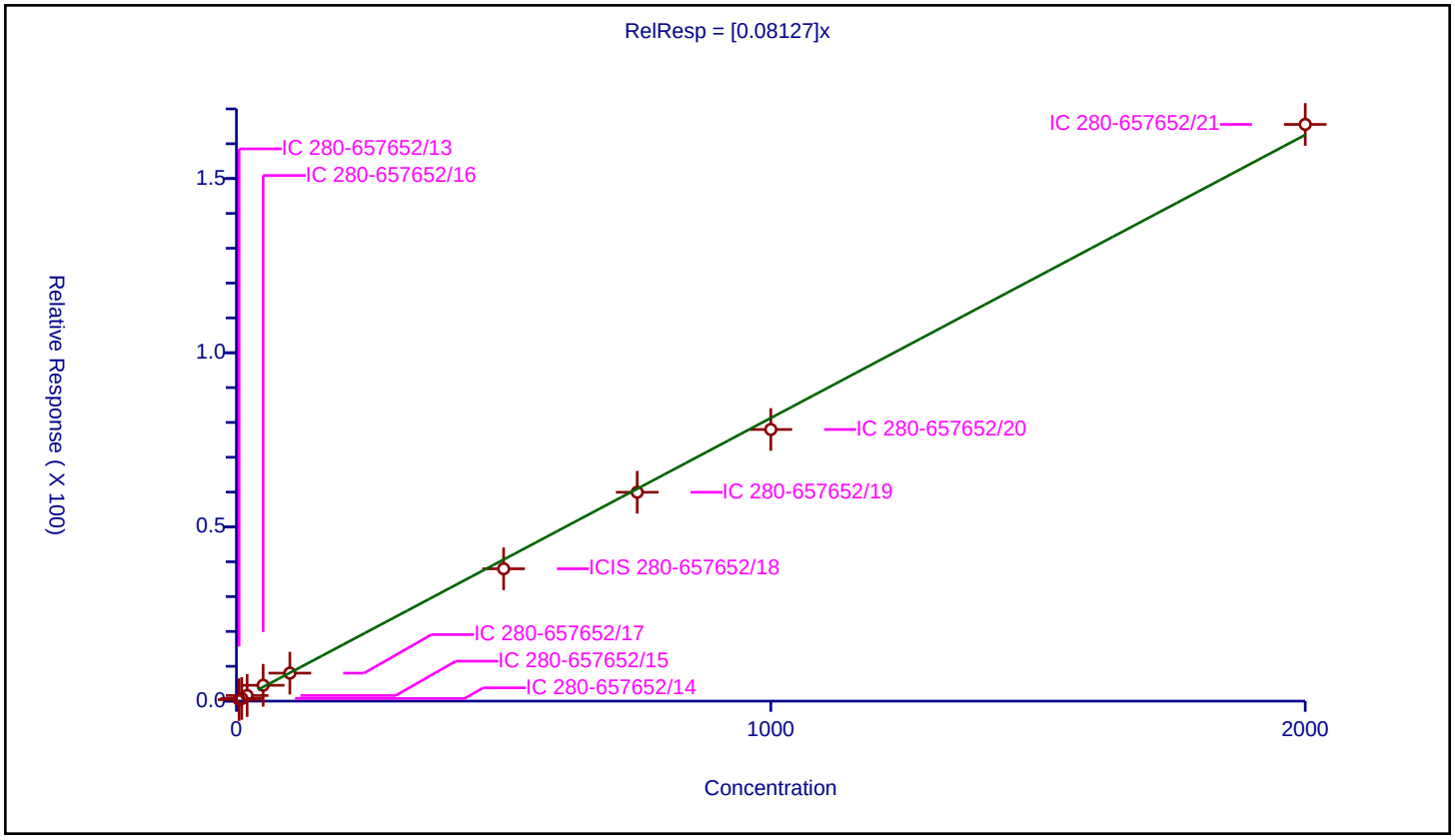
Curve Coefficients

Intercept:	0
Slope:	0.08127

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	5.0	0.432333	50.0	2154011.0	0.086467	Y
2	IC 280-657652/14	10.0	0.766116	50.0	2190855.0	0.076612	Y
3	IC 280-657652/15	20.0	1.605469	50.0	2169615.0	0.080273	Y
4	IC 280-657652/16	50.0	4.550679	50.0	2205330.0	0.091014	Y
5	IC 280-657652/17	100.0	8.038277	50.0	2262954.0	0.080383	Y
6	ICIS 280-657652/18	500.0	37.989879	50.0	2272296.0	0.07598	Y
7	IC 280-657652/19	750.0	59.957839	50.0	2338409.0	0.079944	Y
8	IC 280-657652/20	1000.0	77.978921	50.0	2332808.0	0.077979	Y
9	IC 280-657652/21	2000.0	165.543989	50.0	2367362.0	0.082772	Y



7/5/2024
11:14:22 AM

Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

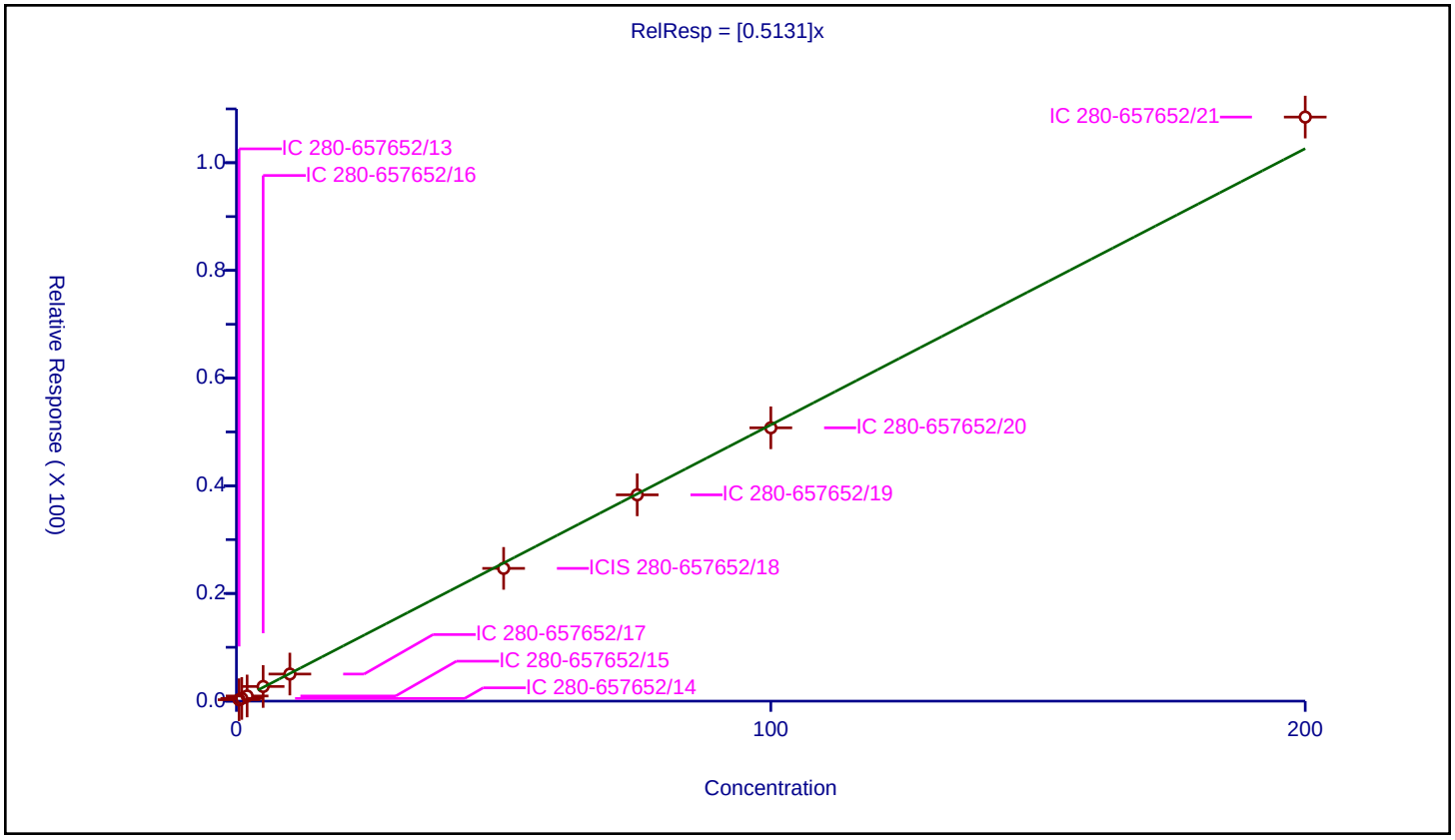
Curve Coefficients

Intercept:	0
Slope:	0.5131

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.266503	50.0	2154011.0	0.533006	Y
2	IC 280-657652/14	1.0	0.504506	50.0	2190855.0	0.504506	Y
3	IC 280-657652/15	2.0	0.958142	50.0	2169615.0	0.479071	Y
4	IC 280-657652/16	5.0	2.72152	50.0	2205330.0	0.544304	Y
5	IC 280-657652/17	10.0	5.031388	50.0	2262954.0	0.503139	Y
6	ICIS 280-657652/18	50.0	24.656999	50.0	2272296.0	0.49314	Y
7	IC 280-657652/19	75.0	38.314149	50.0	2338409.0	0.510855	Y
8	IC 280-657652/20	100.0	50.764465	50.0	2332808.0	0.507645	Y
9	IC 280-657652/21	200.0	108.481022	50.0	2367362.0	0.542405	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

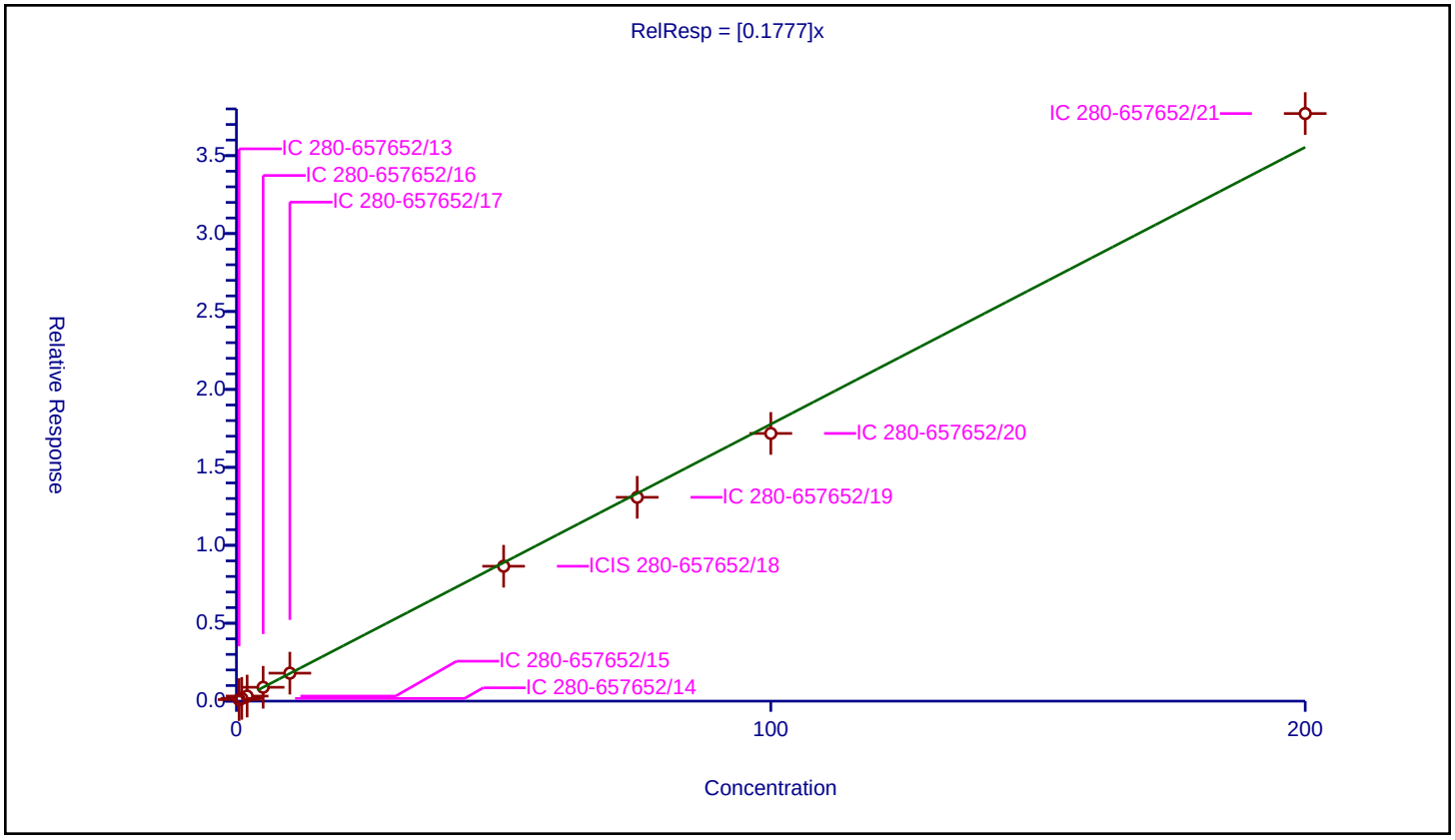
Curve Coefficients

Intercept:	0
Slope:	0.1777

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.098421	50.0	2154011.0	0.196842	Y
2	IC 280-657652/14	1.0	0.174932	50.0	2190855.0	0.174932	Y
3	IC 280-657652/15	2.0	0.325104	50.0	2169615.0	0.162552	Y
4	IC 280-657652/16	5.0	0.888801	50.0	2205330.0	0.17776	Y
5	IC 280-657652/17	10.0	1.794822	50.0	2262954.0	0.179482	Y
6	ICIS 280-657652/18	50.0	8.655628	50.0	2272296.0	0.173113	Y
7	IC 280-657652/19	75.0	13.079705	50.0	2338409.0	0.174396	Y
8	IC 280-657652/20	100.0	17.177625	50.0	2332808.0	0.171776	Y
9	IC 280-657652/21	200.0	37.701163	50.0	2367362.0	0.188506	Y



7/5/2024
11:14:22 AM

Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

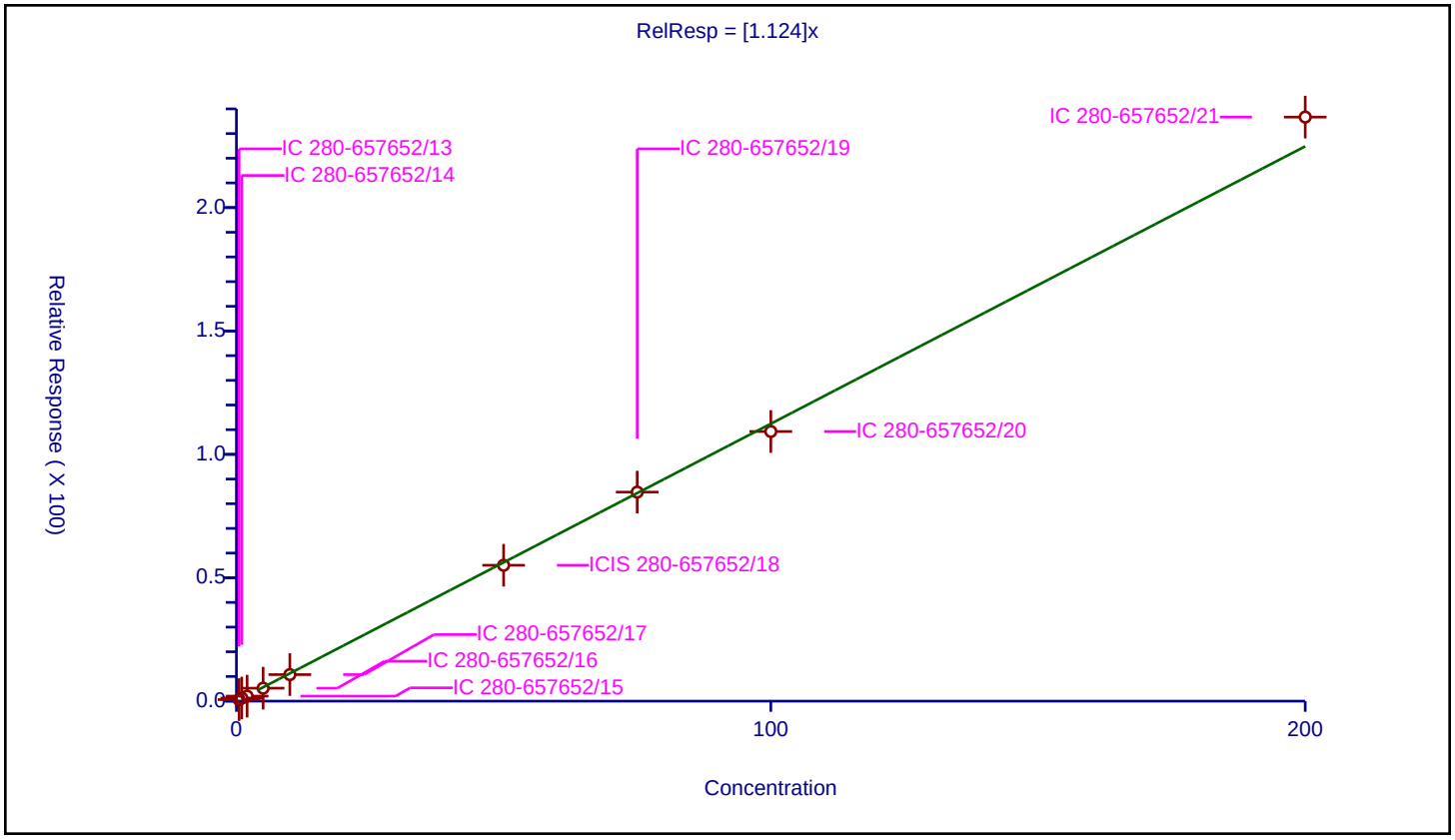
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.607278	50.0	495243.0	1.214555	Y
2	IC 280-657652/14	1.0	1.255424	50.0	487883.0	1.255424	Y
3	IC 280-657652/15	2.0	2.031757	50.0	488715.0	1.015878	Y
4	IC 280-657652/16	5.0	5.246339	50.0	500692.0	1.049268	Y
5	IC 280-657652/17	10.0	10.753886	50.0	513340.0	1.075389	Y
6	ICIS 280-657652/18	50.0	55.06169	50.0	524805.0	1.101234	Y
7	IC 280-657652/19	75.0	84.708152	50.0	535004.0	1.129442	Y
8	IC 280-657652/20	100.0	109.266841	50.0	545380.0	1.092668	Y
9	IC 280-657652/21	200.0	236.679851	50.0	549626.0	1.183399	Y



7/5/2024
11:14:22 AM

Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

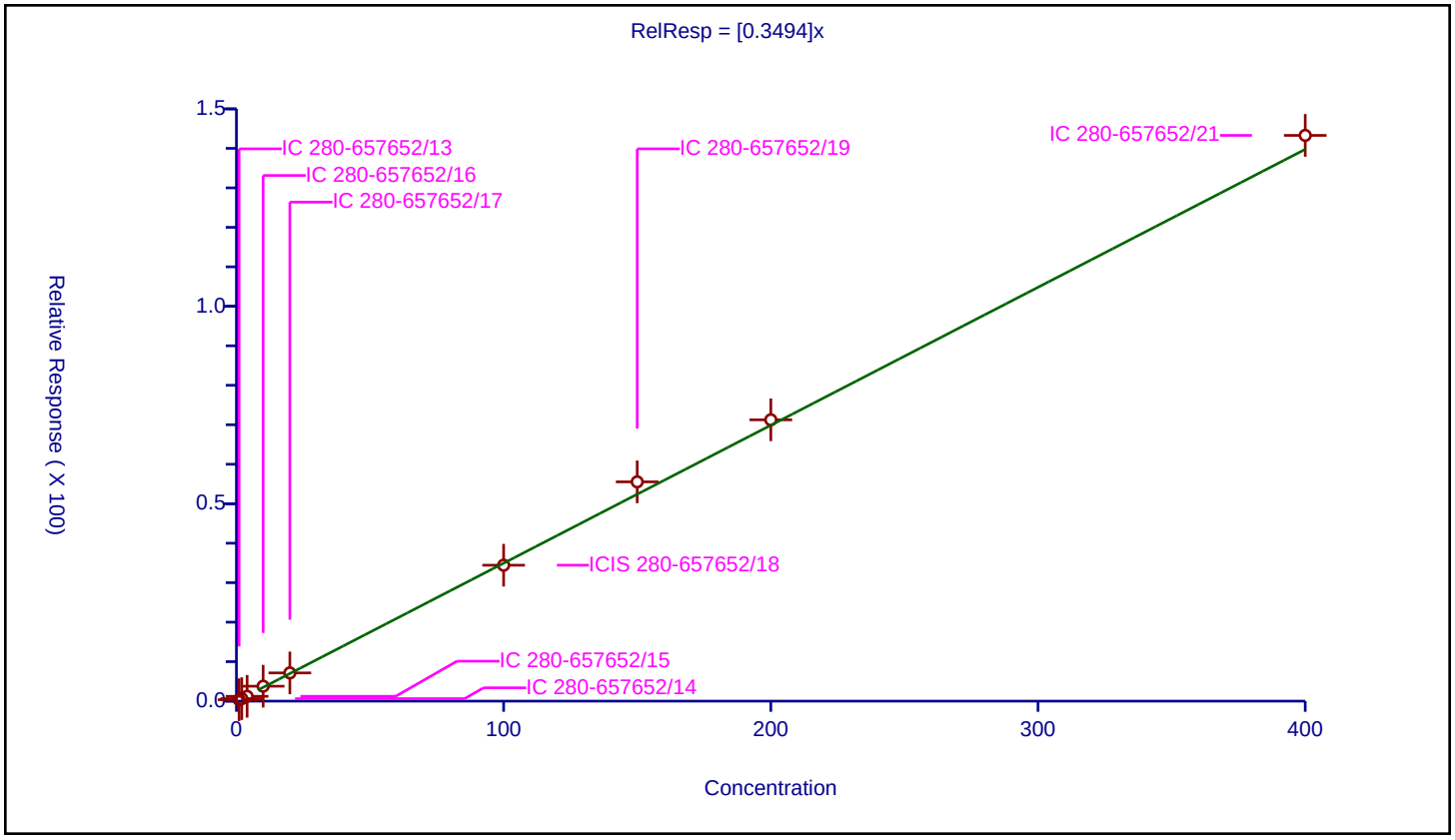
Curve Coefficients

Intercept:	0
Slope:	0.3494

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	1.0	0.358192	50.0	2154011.0	0.358192	Y
2	IC 280-657652/14	2.0	0.631945	50.0	2190855.0	0.315973	Y
3	IC 280-657652/15	4.0	1.224296	50.0	2169615.0	0.306074	Y
4	IC 280-657652/16	10.0	3.780999	50.0	2205330.0	0.3781	Y
5	IC 280-657652/17	20.0	7.143848	50.0	2262954.0	0.357192	Y
6	ICIS 280-657652/18	100.0	34.42331	50.0	2272296.0	0.344233	Y
7	IC 280-657652/19	150.0	55.541075	50.0	2338409.0	0.370274	Y
8	IC 280-657652/20	200.0	71.252156	50.0	2332808.0	0.356261	Y
9	IC 280-657652/21	400.0	143.286895	50.0	2367362.0	0.358217	Y



7/5/2024
11:14:22 AM

Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

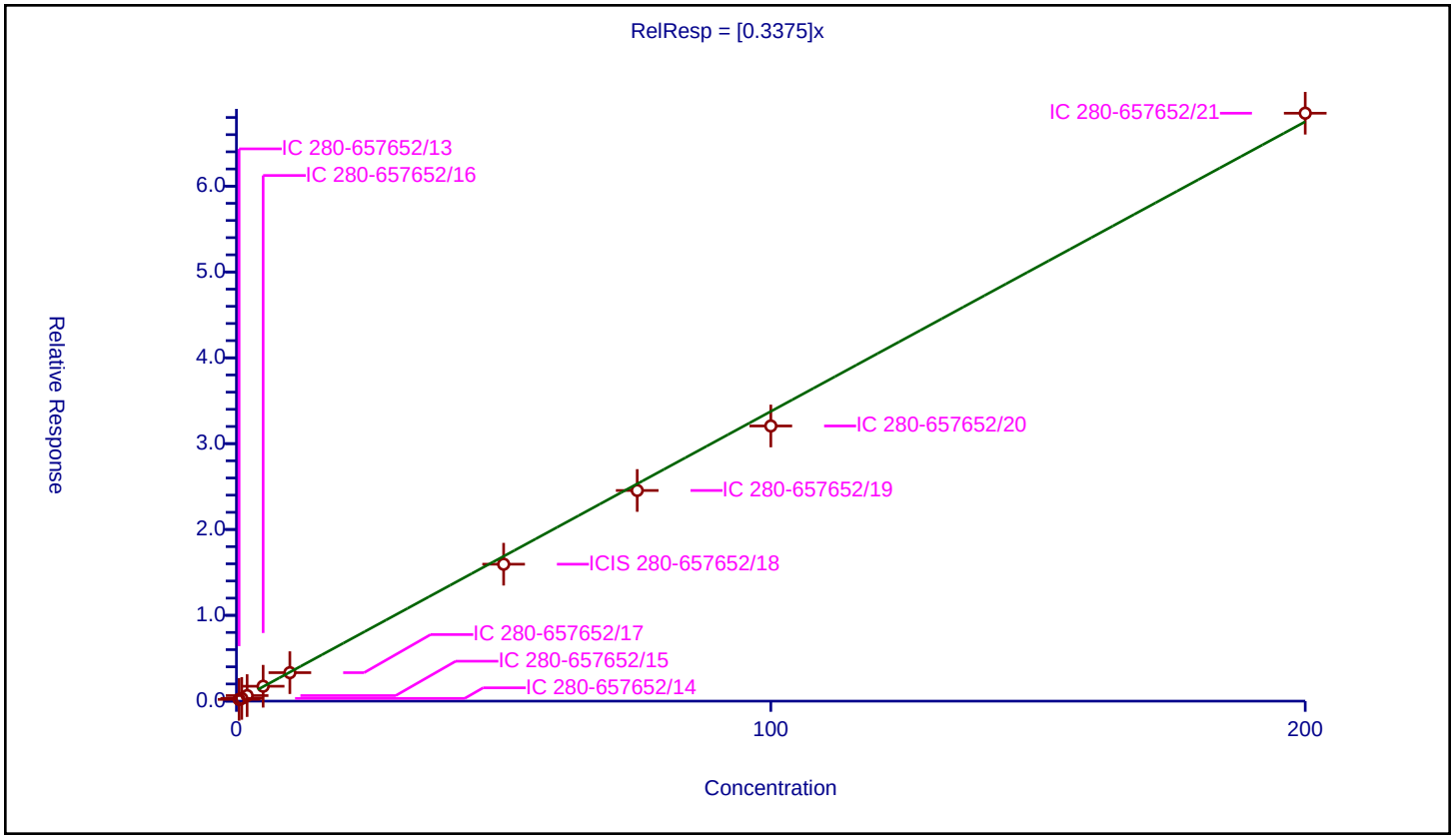
Curve Coefficients

Intercept:	0
Slope:	0.3375

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.203458	50.0	2154011.0	0.406915	Y
2	IC 280-657652/14	1.0	0.319008	50.0	2190855.0	0.319008	Y
3	IC 280-657652/15	2.0	0.647465	50.0	2169615.0	0.323733	Y
4	IC 280-657652/16	5.0	1.735953	50.0	2205330.0	0.347191	Y
5	IC 280-657652/17	10.0	3.317102	50.0	2262954.0	0.33171	Y
6	ICIS 280-657652/18	50.0	15.952719	50.0	2272296.0	0.319054	Y
7	IC 280-657652/19	75.0	24.541964	50.0	2338409.0	0.327226	Y
8	IC 280-657652/20	100.0	32.058446	50.0	2332808.0	0.320584	Y
9	IC 280-657652/21	200.0	68.497467	50.0	2367362.0	0.342487	Y



7/5/2024
11:14:22 AM

Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

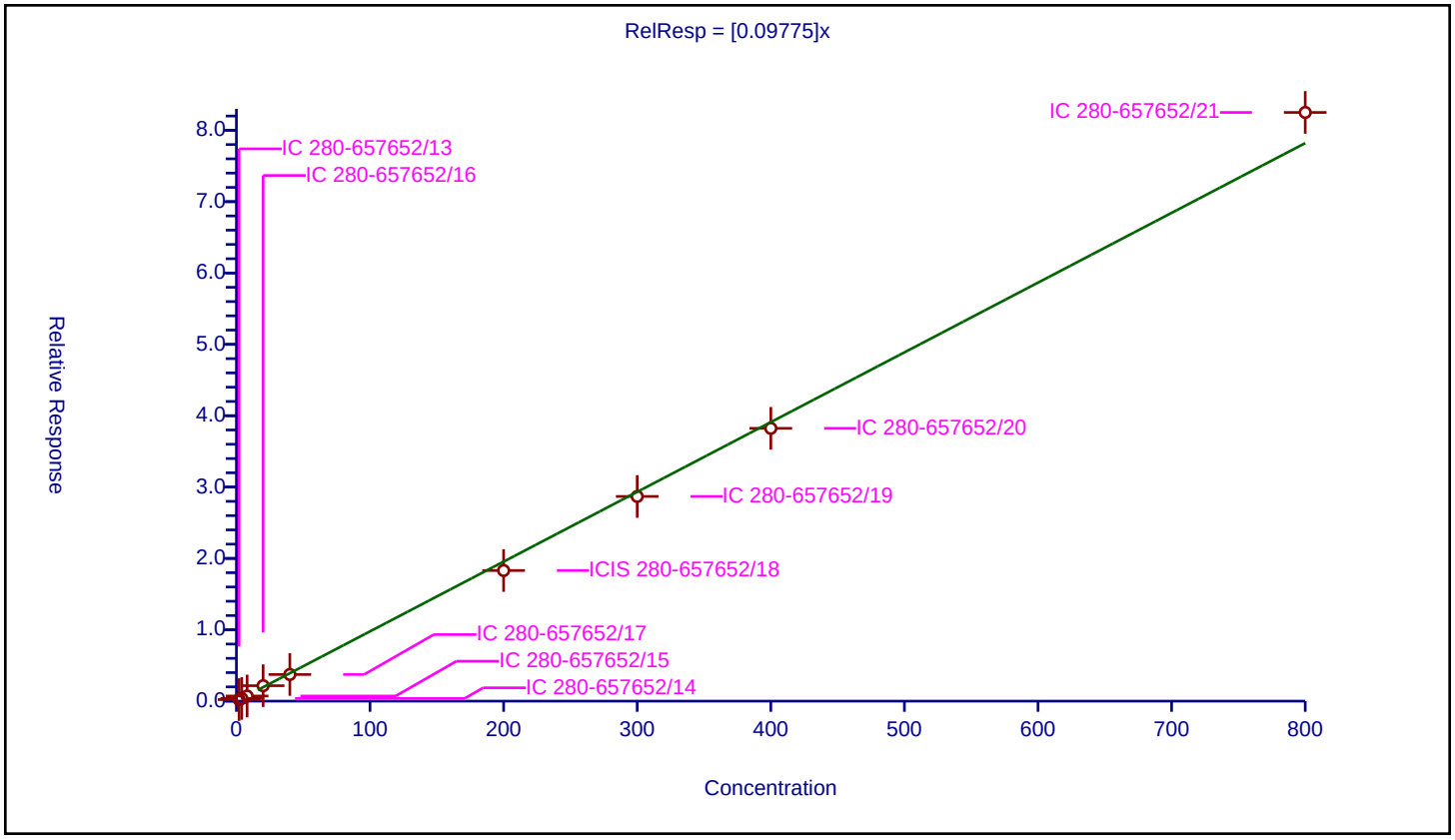
Curve Coefficients

Intercept:	0
Slope:	0.09775

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	2.0	0.214832	50.0	2154011.0	0.107416	Y
2	IC 280-657652/14	4.0	0.37992	50.0	2190855.0	0.09498	Y
3	IC 280-657652/15	8.0	0.719644	50.0	2169615.0	0.089955	Y
4	IC 280-657652/16	20.0	2.1631	50.0	2205330.0	0.108155	Y
5	IC 280-657652/17	40.0	3.735074	50.0	2262954.0	0.093377	Y
6	ICIS 280-657652/18	200.0	18.305428	50.0	2272296.0	0.091527	Y
7	IC 280-657652/19	300.0	28.687261	50.0	2338409.0	0.095624	Y
8	IC 280-657652/20	400.0	38.232443	50.0	2332808.0	0.095581	Y
9	IC 280-657652/21	800.0	82.499233	50.0	2367362.0	0.103124	Y



7/5/2024
11:14:22 AM

Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

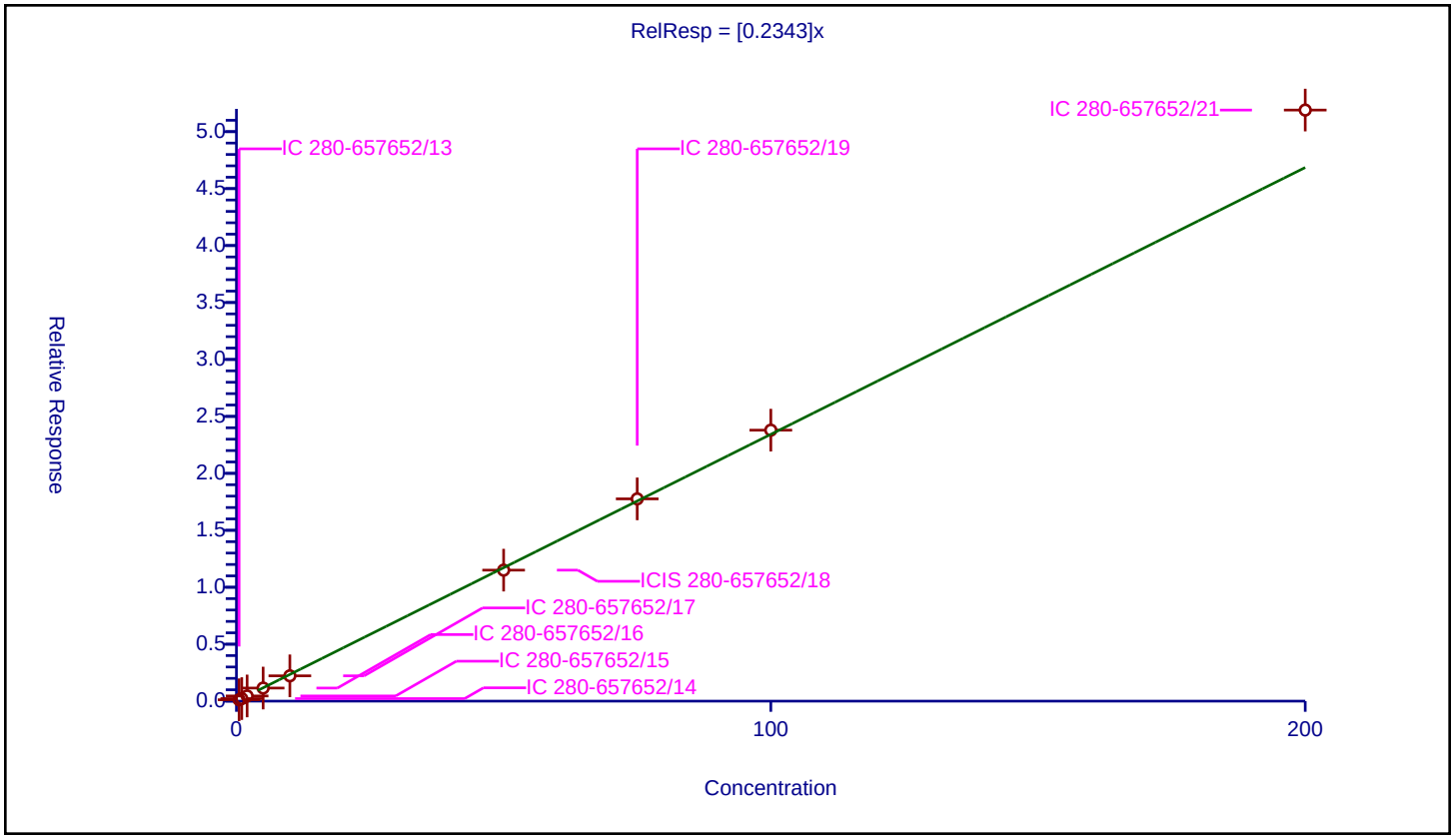
Curve Coefficients

Intercept:	0
Slope:	0.2343

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.119985	50.0	2154011.0	0.239971	Y
2	IC 280-657652/14	1.0	0.223999	50.0	2190855.0	0.223999	Y
3	IC 280-657652/15	2.0	0.455703	50.0	2169615.0	0.227851	Y
4	IC 280-657652/16	5.0	1.150349	50.0	2205330.0	0.23007	Y
5	IC 280-657652/17	10.0	2.222825	50.0	2262954.0	0.222282	Y
6	ICIS 280-657652/18	50.0	11.501318	50.0	2272296.0	0.230026	Y
7	IC 280-657652/19	75.0	17.758762	50.0	2338409.0	0.236783	Y
8	IC 280-657652/20	100.0	23.793321	50.0	2332808.0	0.237933	Y
9	IC 280-657652/21	200.0	51.896541	50.0	2367362.0	0.259483	Y



7/5/2024
11:14:22 AM

Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

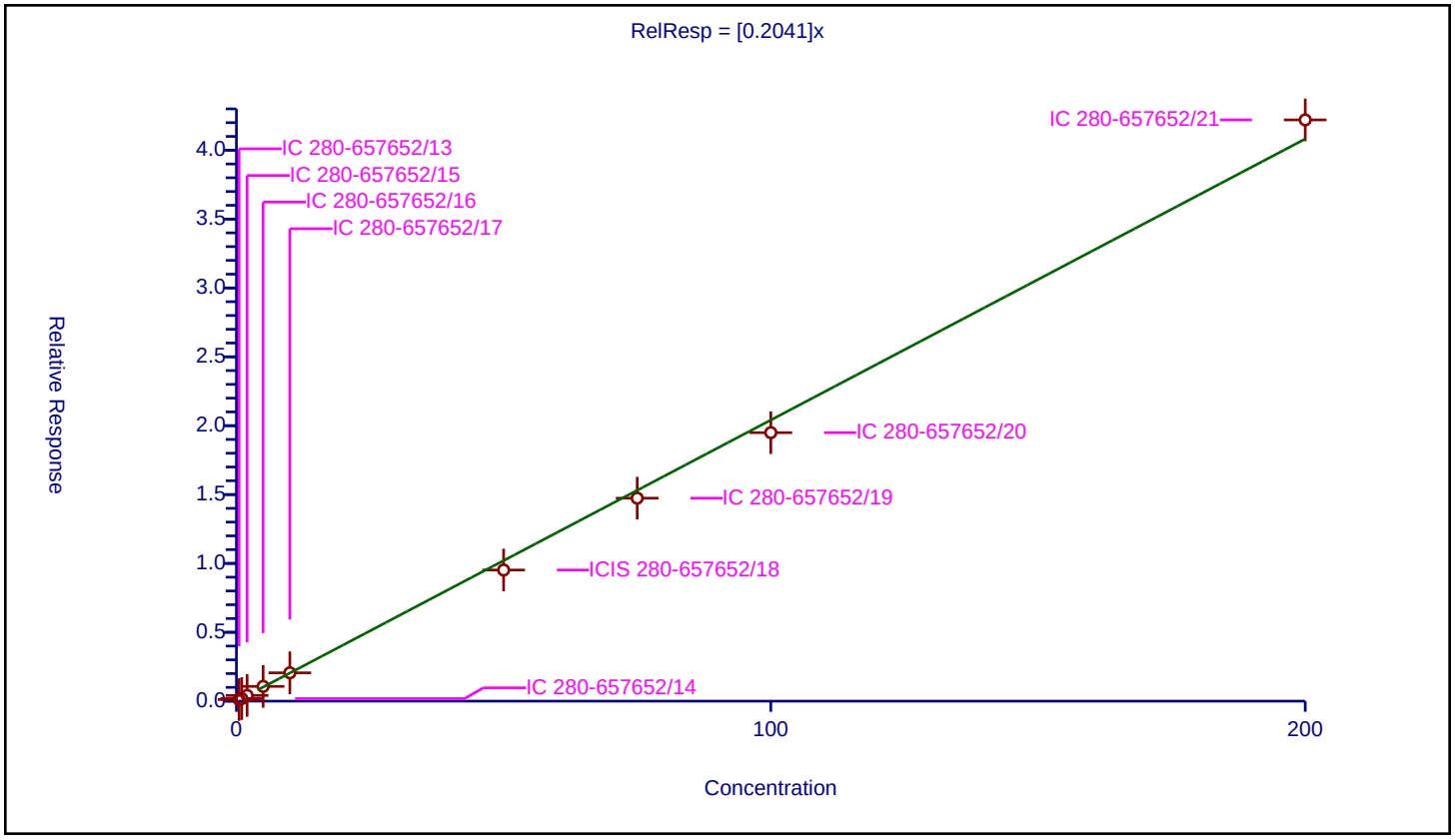
Curve Coefficients

Intercept:	0
Slope:	0.2041

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.115436	50.0	2154011.0	0.230872	Y
2	IC 280-657652/14	1.0	0.186639	50.0	2190855.0	0.186639	Y
3	IC 280-657652/15	2.0	0.413023	50.0	2169615.0	0.206511	Y
4	IC 280-657652/16	5.0	1.070974	50.0	2205330.0	0.214195	Y
5	IC 280-657652/17	10.0	2.057333	50.0	2262954.0	0.205733	Y
6	ICIS 280-657652/18	50.0	9.520503	50.0	2272296.0	0.19041	Y
7	IC 280-657652/19	75.0	14.736644	50.0	2338409.0	0.196489	Y
8	IC 280-657652/20	100.0	19.492689	50.0	2332808.0	0.194927	Y
9	IC 280-657652/21	200.0	42.199038	50.0	2367362.0	0.210995	Y



7/5/2024
11:14:22 AM

Calibration / sec-Butyl Alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

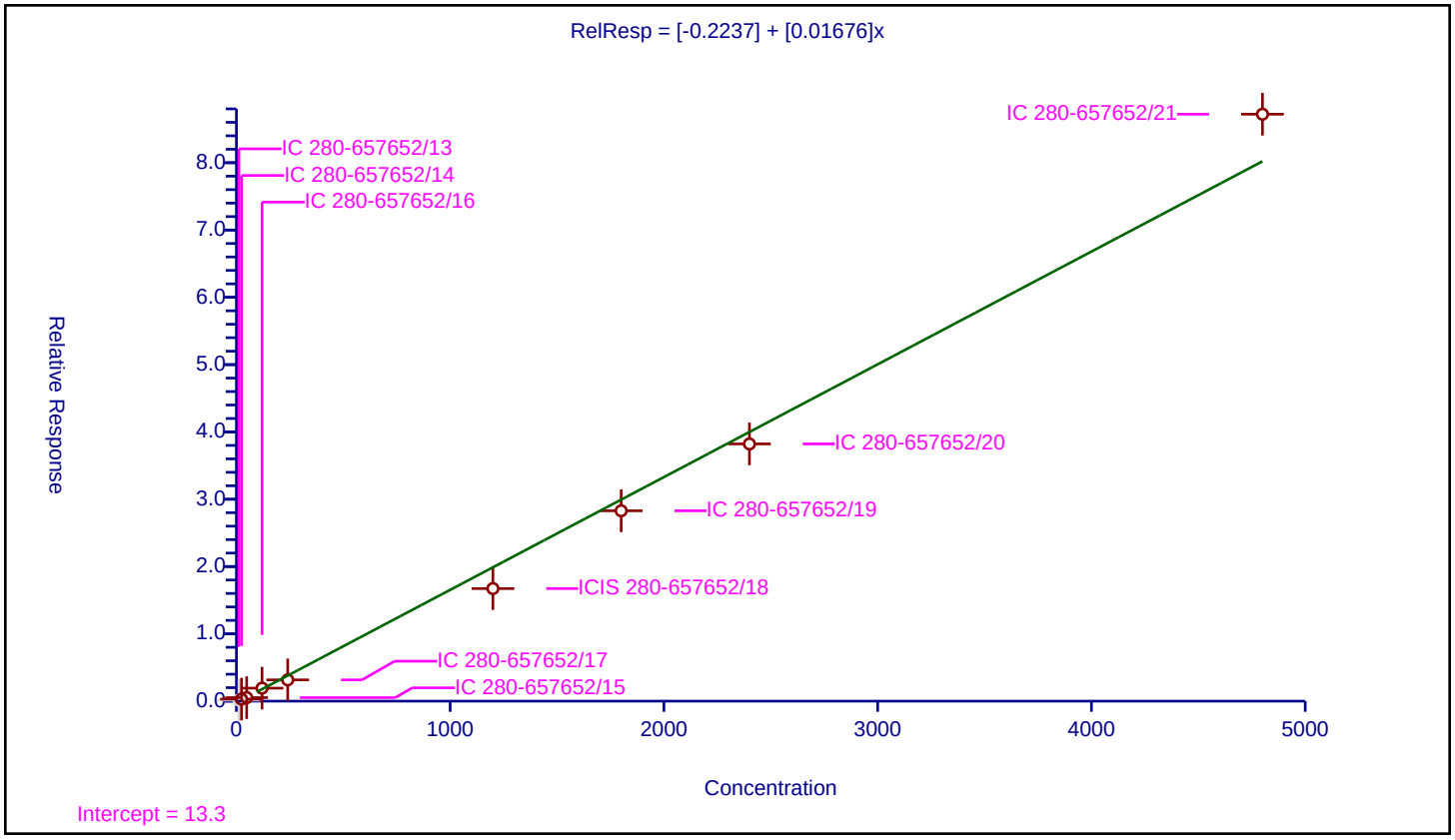
Curve Coefficients

Intercept:	-0.2237
Slope:	0.01676

Error Coefficients

Relative Standard Deviation:	17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	12.0	0.155199	50.0	2154011.0	0.012933	N
2	IC 280-657652/14	24.0	0.308099	50.0	2190855.0	0.012837	Y
3	IC 280-657652/15	48.0	0.525785	50.0	2169615.0	0.010954	Y
4	IC 280-657652/16	120.0	1.93445	50.0	2205330.0	0.01612	Y
5	IC 280-657652/17	240.0	3.160802	50.0	2262954.0	0.01317	Y
6	ICIS 280-657652/18	1200.0	16.724384	50.0	2272296.0	0.013937	Y
7	IC 280-657652/19	1800.0	28.284894	50.0	2338409.0	0.015714	Y
8	IC 280-657652/20	2400.0	38.218383	50.0	2332808.0	0.015924	Y
9	IC 280-657652/21	4800.0	87.208272	50.0	2367362.0	0.018168	Y



7/5/2024
11:14:22 AM

Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

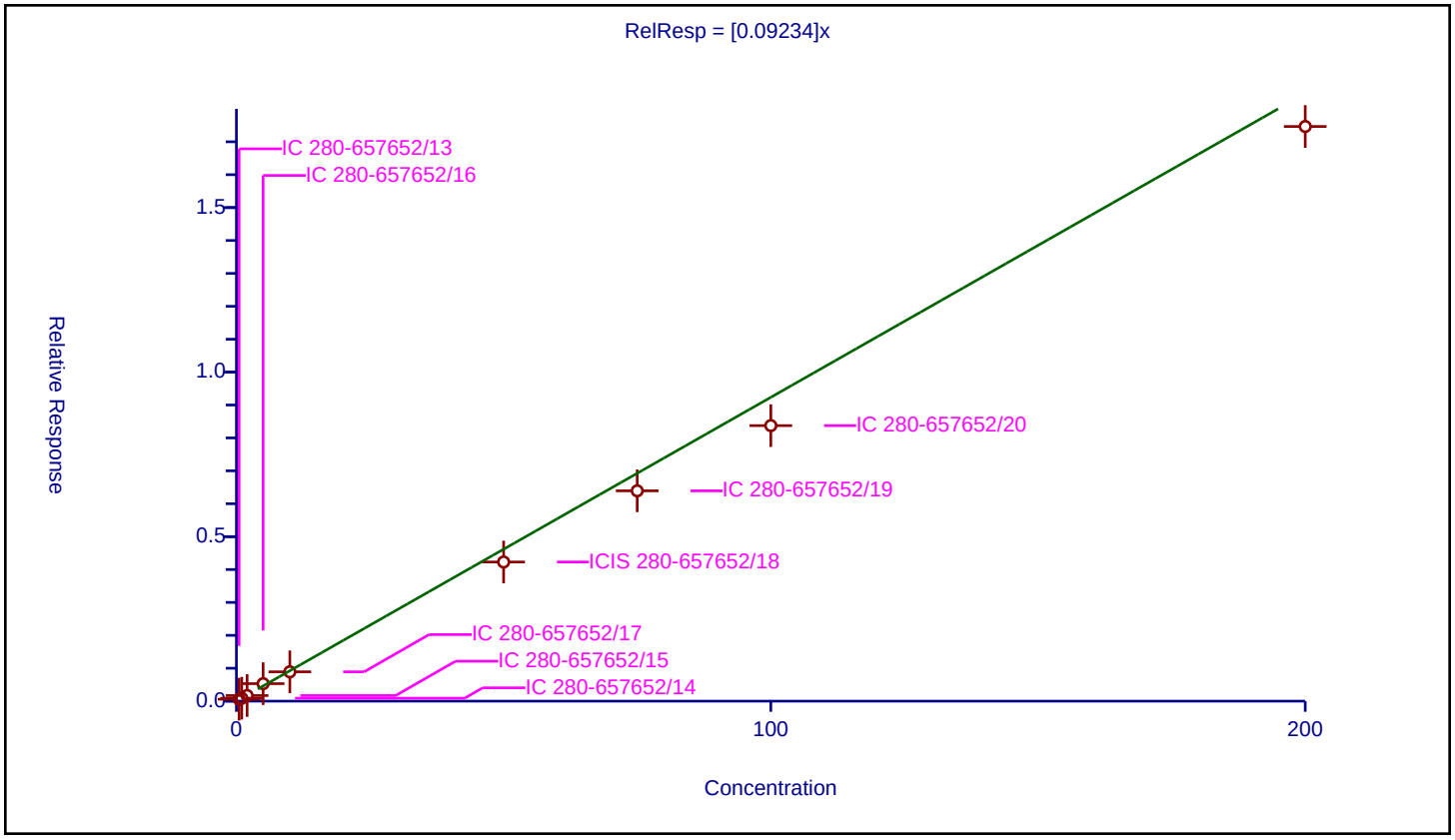
Curve Coefficients

Intercept:	0
Slope:	0.09234

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.059865	50.0	2154011.0	0.11973	Y
2	IC 280-657652/14	1.0	0.089668	50.0	2190855.0	0.089668	Y
3	IC 280-657652/15	2.0	0.170698	50.0	2169615.0	0.085349	Y
4	IC 280-657652/16	5.0	0.531394	50.0	2205330.0	0.106279	Y
5	IC 280-657652/17	10.0	0.891865	50.0	2262954.0	0.089187	Y
6	ICIS 280-657652/18	50.0	4.229511	50.0	2272296.0	0.08459	Y
7	IC 280-657652/19	75.0	6.392338	50.0	2338409.0	0.085231	Y
8	IC 280-657652/20	100.0	8.373728	50.0	2332808.0	0.083737	Y
9	IC 280-657652/21	200.0	17.464693	50.0	2367362.0	0.087323	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

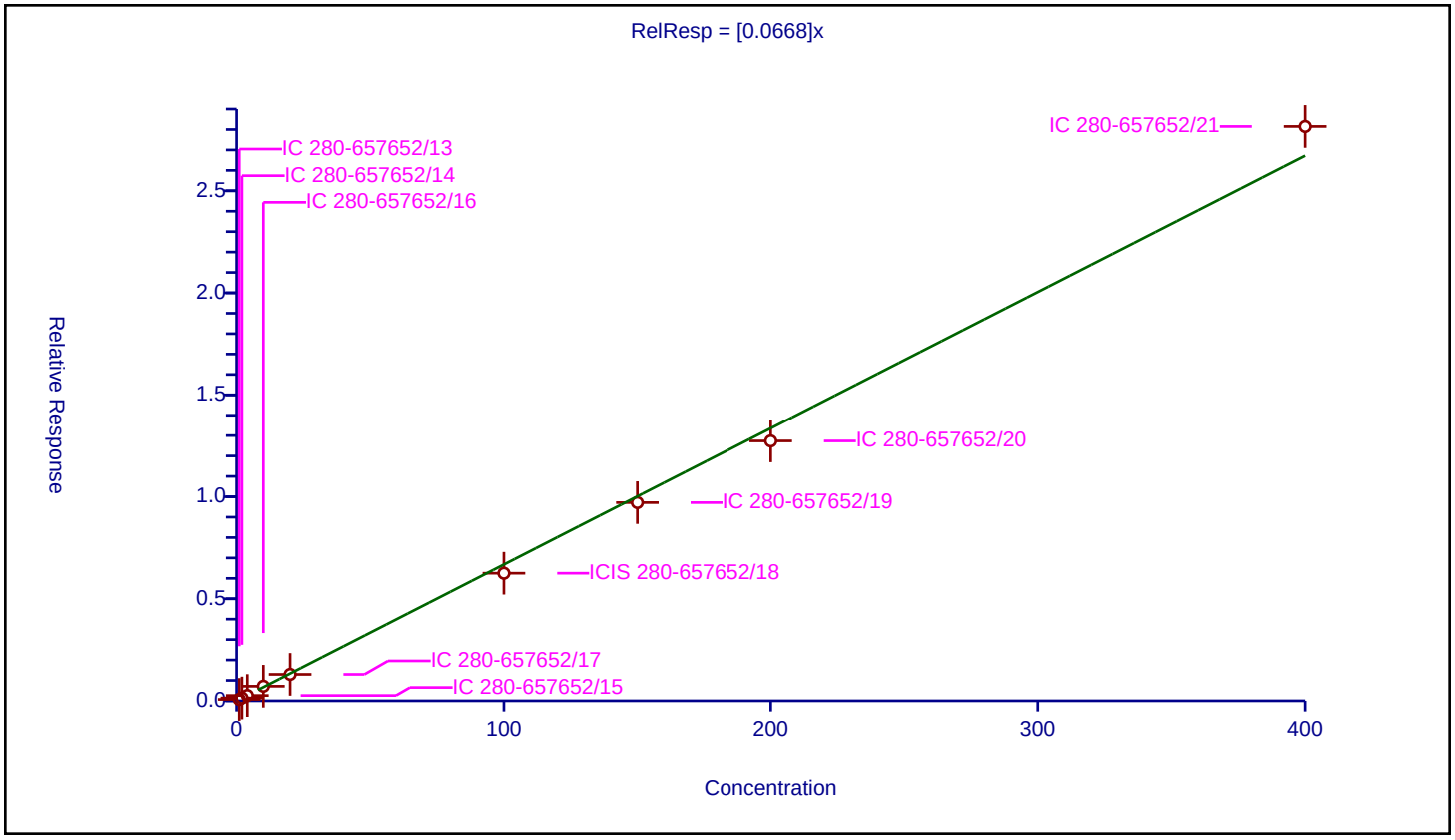
Curve Coefficients

Intercept:	0
Slope:	0.0668

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	1.0	0.069104	50.0	2154011.0	0.069104	Y
2	IC 280-657652/14	2.0	0.138827	50.0	2190855.0	0.069414	Y
3	IC 280-657652/15	4.0	0.260576	50.0	2169615.0	0.065144	Y
4	IC 280-657652/16	10.0	0.714587	50.0	2205330.0	0.071459	Y
5	IC 280-657652/17	20.0	1.294569	50.0	2262954.0	0.064728	Y
6	ICIS 280-657652/18	100.0	6.251144	50.0	2272296.0	0.062511	Y
7	IC 280-657652/19	150.0	9.714618	50.0	2338409.0	0.064764	Y
8	IC 280-657652/20	200.0	12.737654	50.0	2332808.0	0.063688	Y
9	IC 280-657652/21	400.0	28.149624	50.0	2367362.0	0.070374	Y



7/5/2024
11:14:22 AM

Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

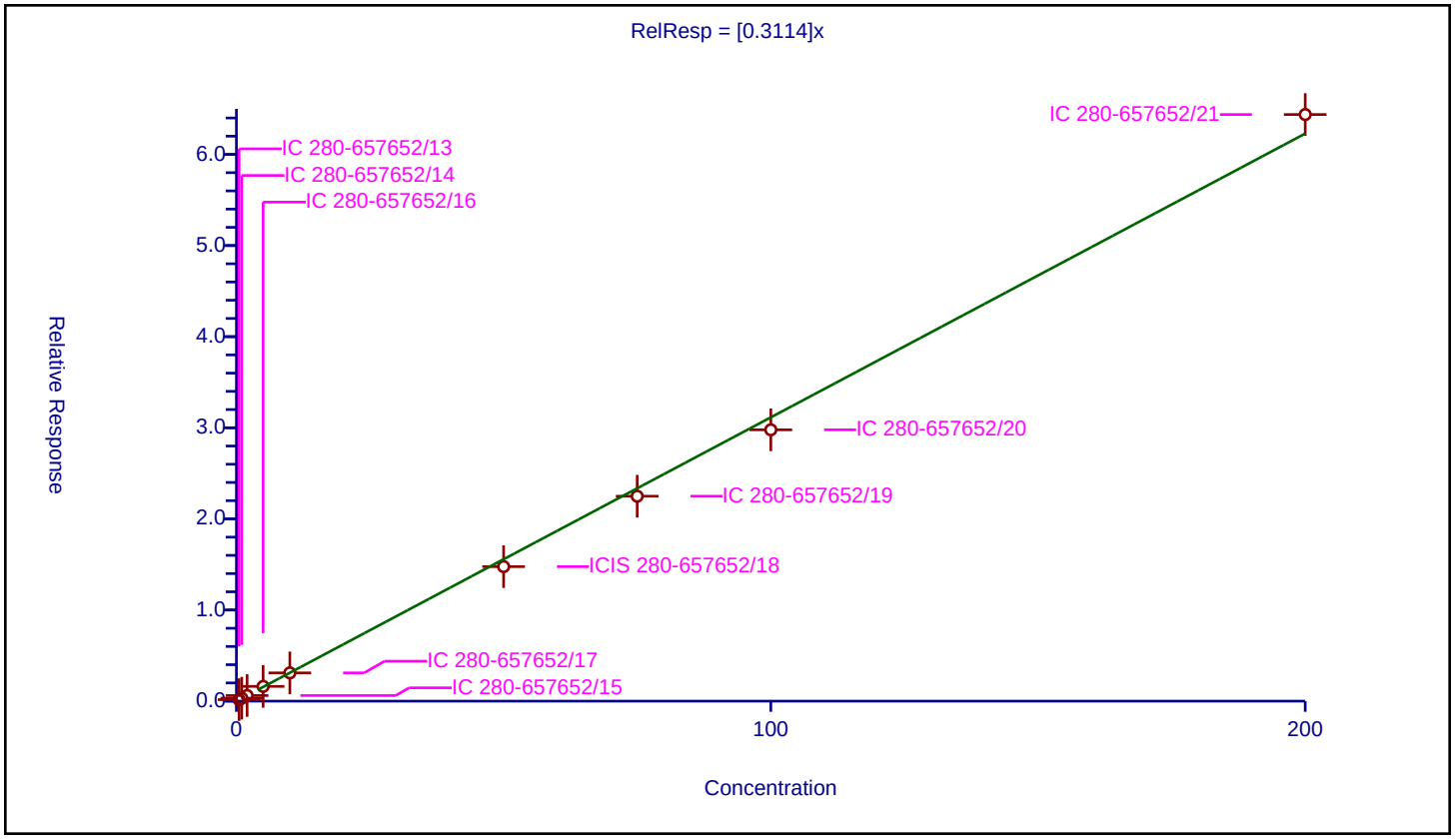
Curve Coefficients

Intercept:	0
Slope:	0.3114

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.161211	50.0	2154011.0	0.322422	Y
2	IC 280-657652/14	1.0	0.323823	50.0	2190855.0	0.323823	Y
3	IC 280-657652/15	2.0	0.615893	50.0	2169615.0	0.307946	Y
4	IC 280-657652/16	5.0	1.619327	50.0	2205330.0	0.323865	Y
5	IC 280-657652/17	10.0	3.100151	50.0	2262954.0	0.310015	Y
6	ICIS 280-657652/18	50.0	14.762579	50.0	2272296.0	0.295252	Y
7	IC 280-657652/19	75.0	22.493349	50.0	2338409.0	0.299911	Y
8	IC 280-657652/20	100.0	29.778983	50.0	2332808.0	0.29779	Y
9	IC 280-657652/21	200.0	64.380606	50.0	2367362.0	0.321903	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

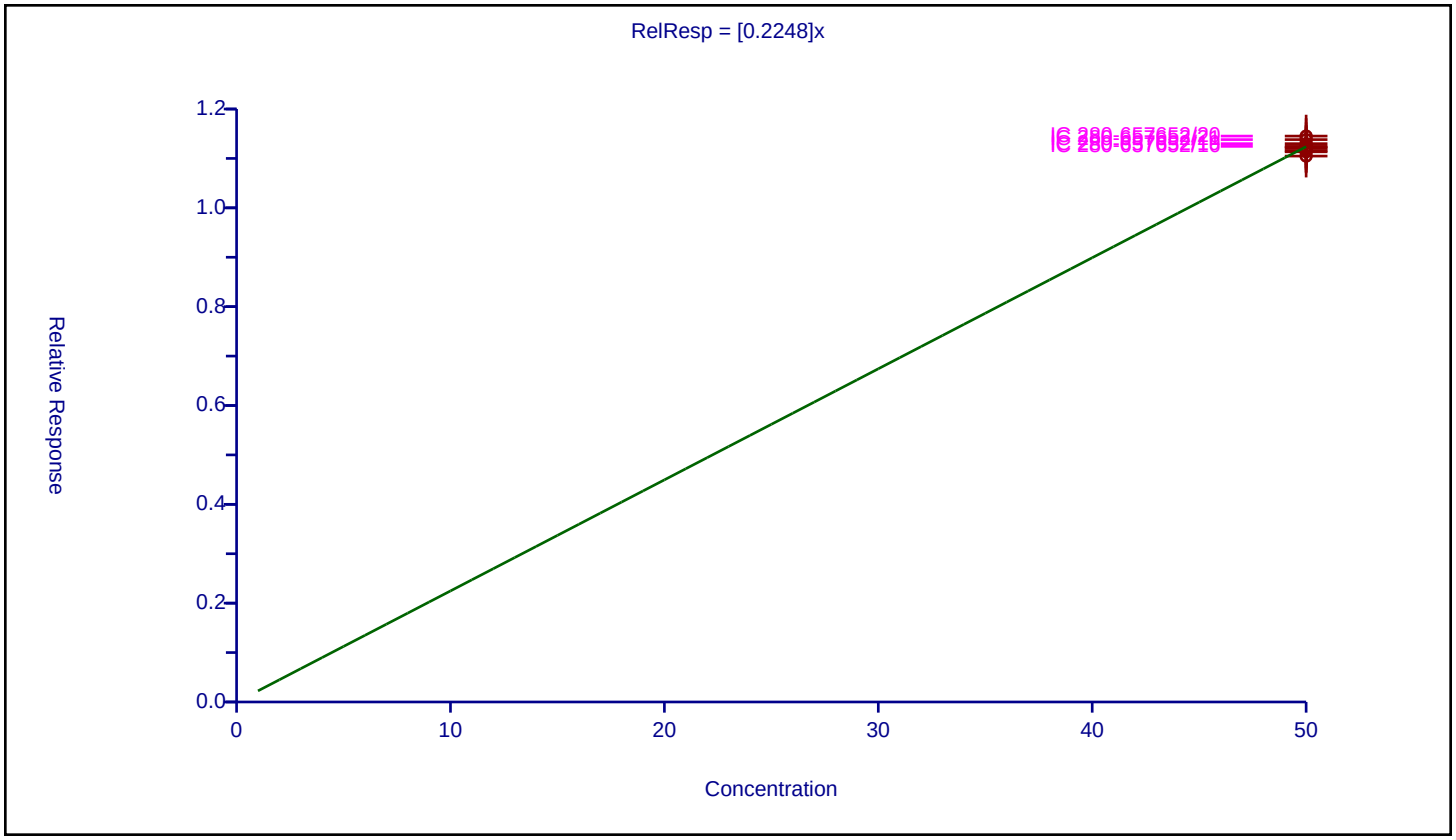
Curve Coefficients

Intercept:	0
Slope:	0.2248

Error Coefficients

Relative Standard Deviation:	1.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	50.0	11.133787	50.0	2154011.0	0.222676	Y
2	IC 280-657652/14	50.0	11.047491	50.0	2190855.0	0.22095	Y
3	IC 280-657652/15	50.0	11.154629	50.0	2169615.0	0.223093	Y
4	IC 280-657652/16	50.0	11.243827	50.0	2205330.0	0.224877	Y
5	IC 280-657652/17	50.0	11.200272	50.0	2262954.0	0.224005	Y
6	ICIS 280-657652/18	50.0	11.227322	50.0	2272296.0	0.224546	Y
7	IC 280-657652/19	50.0	11.299007	50.0	2338409.0	0.22598	Y
8	IC 280-657652/20	50.0	11.452336	50.0	2332808.0	0.229047	Y
9	IC 280-657652/21	50.0	11.380917	50.0	2367362.0	0.227618	Y



7/5/2024
11:14:22 AM

Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

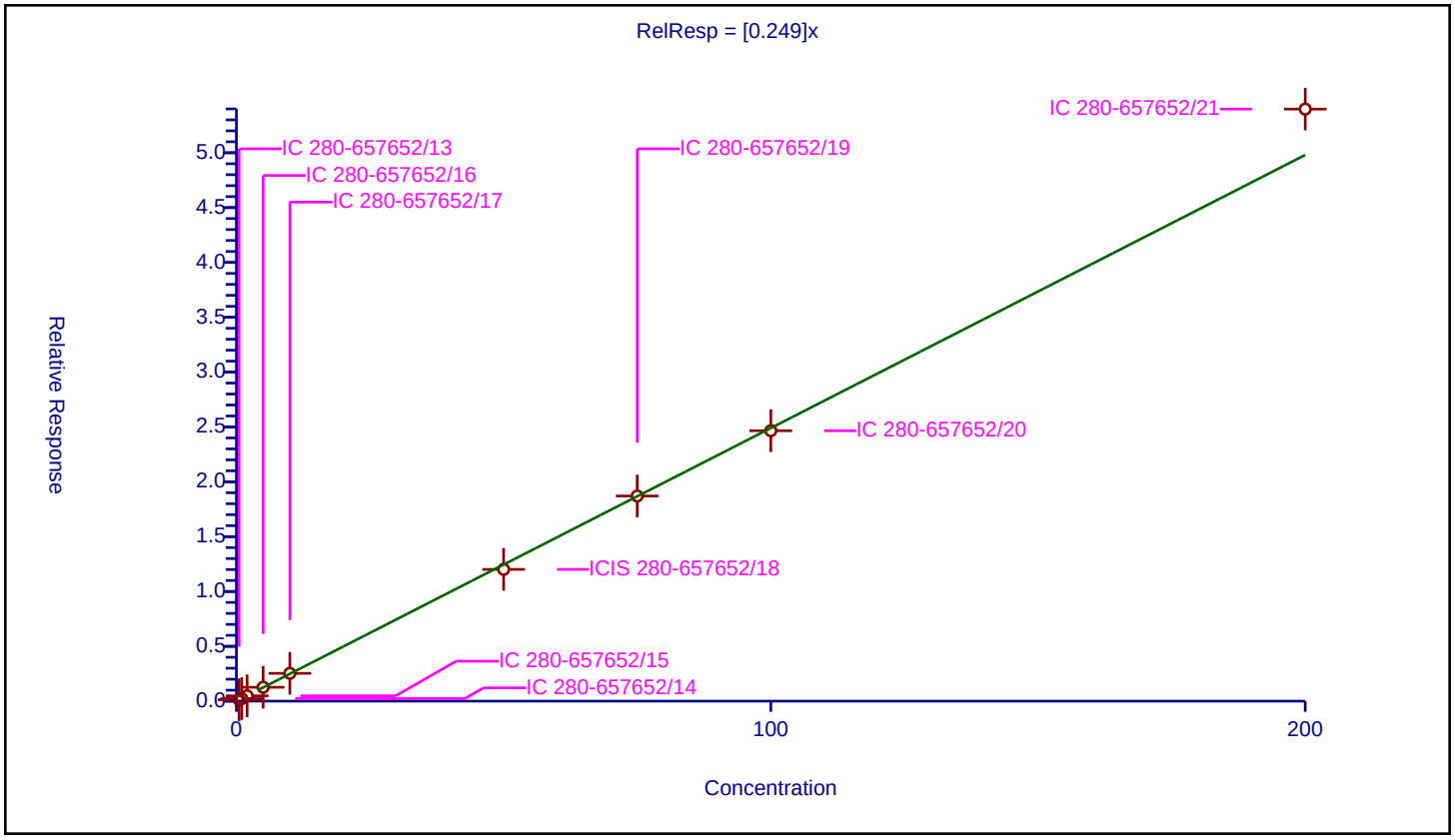
Curve Coefficients

Intercept:	0
Slope:	0.249

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.126253	50.0	2154011.0	0.252506	Y
2	IC 280-657652/14	1.0	0.232192	50.0	2190855.0	0.232192	Y
3	IC 280-657652/15	2.0	0.487875	50.0	2169615.0	0.243937	Y
4	IC 280-657652/16	5.0	1.263552	50.0	2205330.0	0.25271	Y
5	IC 280-657652/17	10.0	2.534254	50.0	2262954.0	0.253425	Y
6	ICIS 280-657652/18	50.0	12.0134	50.0	2272296.0	0.240268	Y
7	IC 280-657652/19	75.0	18.705731	50.0	2338409.0	0.24941	Y
8	IC 280-657652/20	100.0	24.656401	50.0	2332808.0	0.246564	Y
9	IC 280-657652/21	200.0	53.98076	50.0	2367362.0	0.269904	Y



7/5/2024
11:14:22 AM

Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

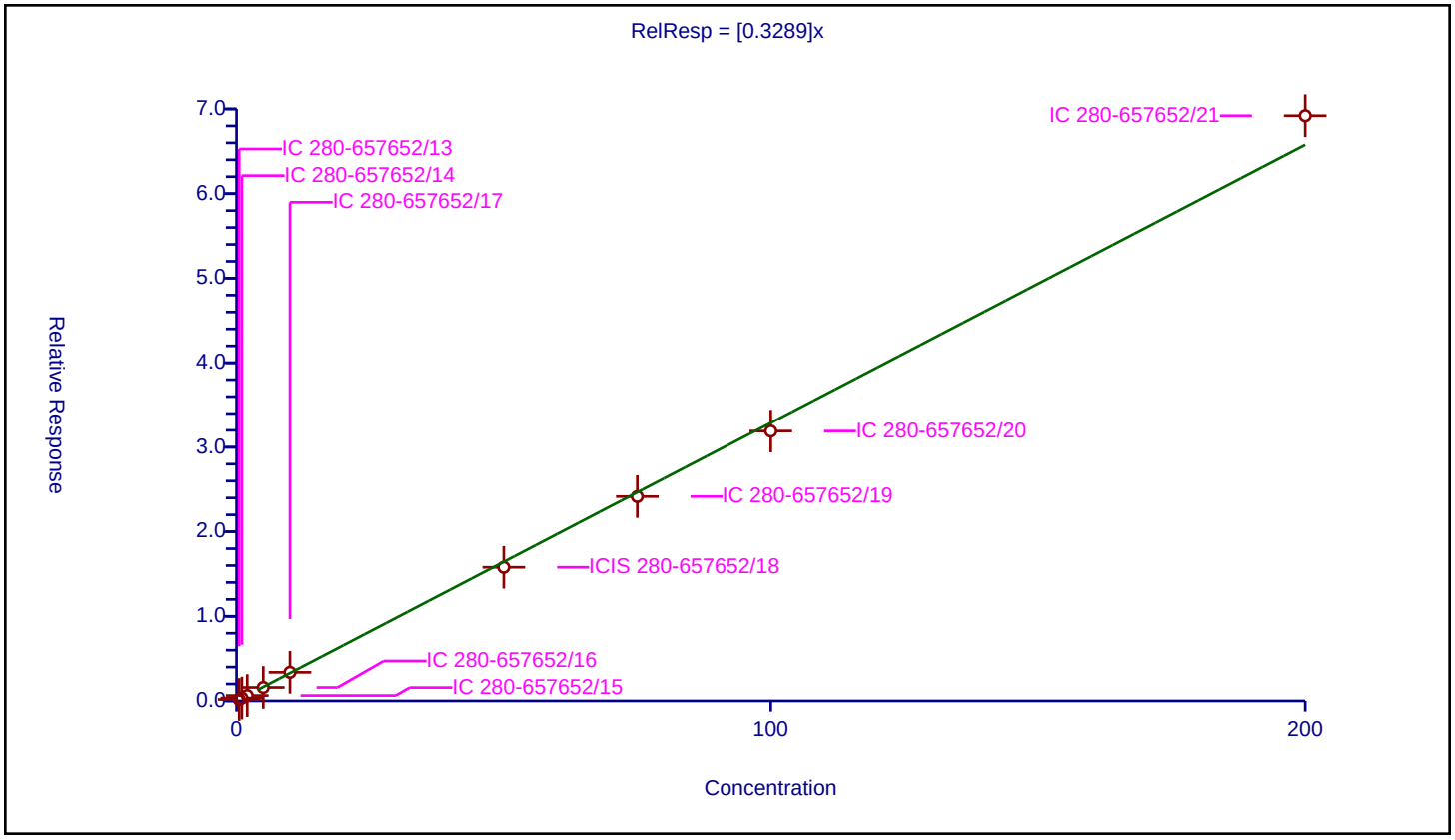
Curve Coefficients

Intercept:	0
Slope:	0.3289

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.172539	50.0	2154011.0	0.345077	Y
2	IC 280-657652/14	1.0	0.339388	50.0	2190855.0	0.339388	Y
3	IC 280-657652/15	2.0	0.63396	50.0	2169615.0	0.31698	Y
4	IC 280-657652/16	5.0	1.586951	50.0	2205330.0	0.31739	Y
5	IC 280-657652/17	10.0	3.378593	50.0	2262954.0	0.337859	Y
6	ICIS 280-657652/18	50.0	15.795675	50.0	2272296.0	0.315914	Y
7	IC 280-657652/19	75.0	24.165469	50.0	2338409.0	0.322206	Y
8	IC 280-657652/20	100.0	31.912356	50.0	2332808.0	0.319124	Y
9	IC 280-657652/21	200.0	69.201394	50.0	2367362.0	0.346007	Y



7/5/2024
11:14:22 AM

Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

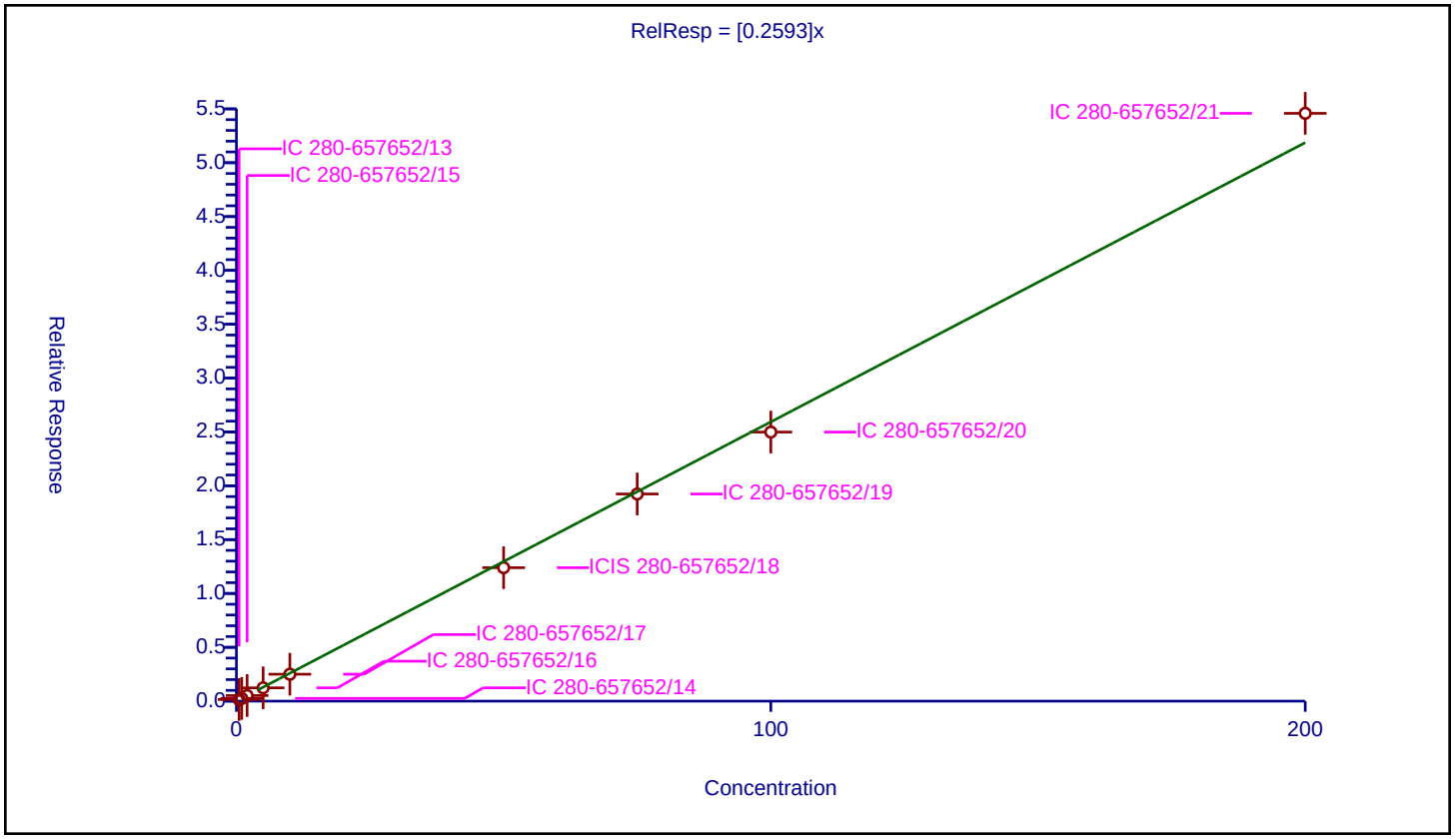
Curve Coefficients

Intercept:	0
Slope:	0.2593

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.148606	50.0	2154011.0	0.297213	Y
2	IC 280-657652/14	1.0	0.252869	50.0	2190855.0	0.252869	Y
3	IC 280-657652/15	2.0	0.519608	50.0	2169615.0	0.259804	Y
4	IC 280-657652/16	5.0	1.234645	50.0	2205330.0	0.246929	Y
5	IC 280-657652/17	10.0	2.500007	50.0	2262954.0	0.250001	Y
6	ICIS 280-657652/18	50.0	12.393148	50.0	2272296.0	0.247863	Y
7	IC 280-657652/19	75.0	19.236883	50.0	2338409.0	0.256492	Y
8	IC 280-657652/20	100.0	24.987933	50.0	2332808.0	0.249879	Y
9	IC 280-657652/21	200.0	54.587406	50.0	2367362.0	0.272937	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

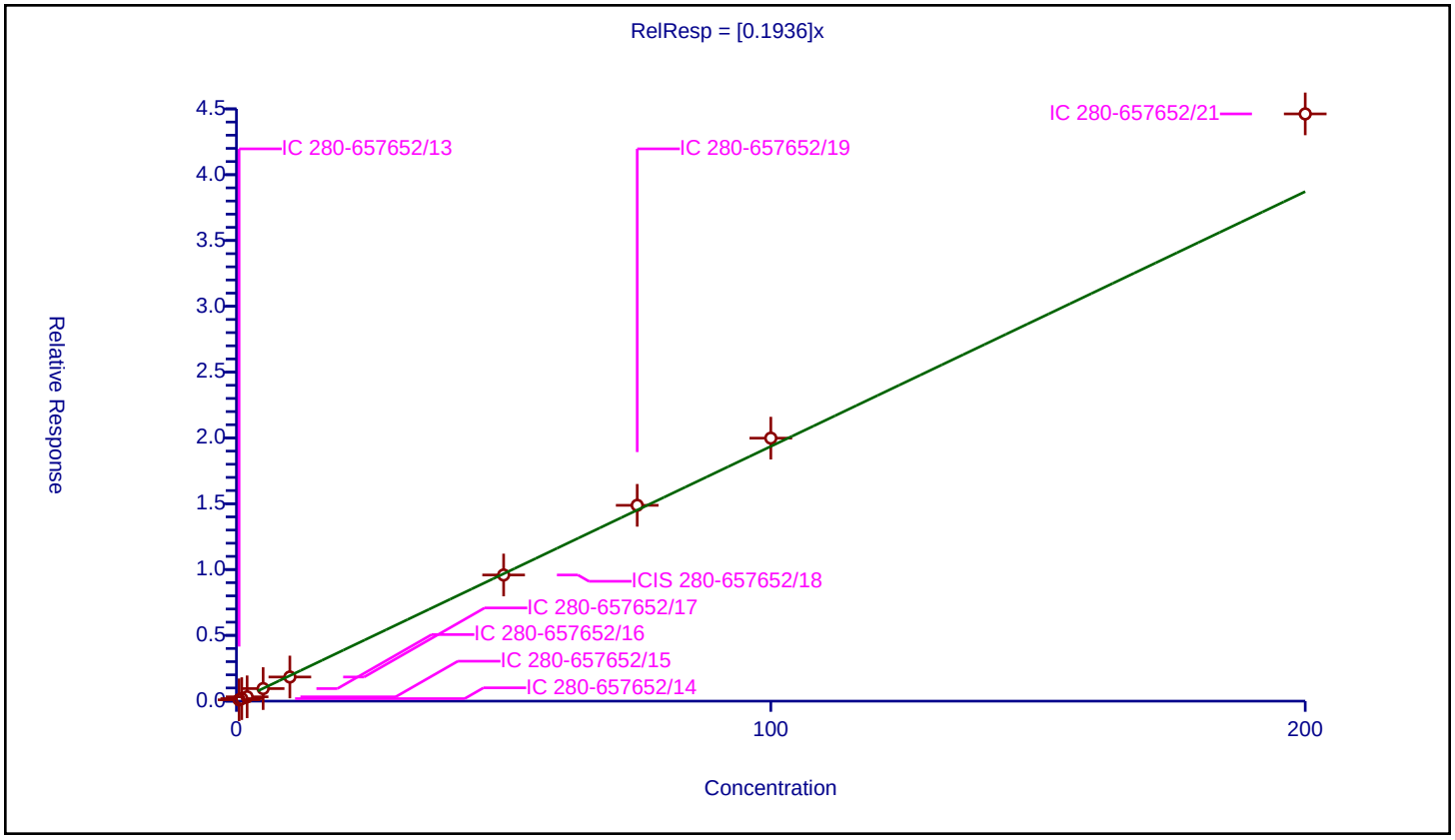
Curve Coefficients

Intercept:	0
Slope:	0.1936

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.099489	50.0	2154011.0	0.198978	Y
2	IC 280-657652/14	1.0	0.191455	50.0	2190855.0	0.191455	Y
3	IC 280-657652/15	2.0	0.329137	50.0	2169615.0	0.164568	Y
4	IC 280-657652/16	5.0	0.953327	50.0	2205330.0	0.190665	Y
5	IC 280-657652/17	10.0	1.835212	50.0	2262954.0	0.183521	Y
6	ICIS 280-657652/18	50.0	9.585635	50.0	2272296.0	0.191713	Y
7	IC 280-657652/19	75.0	14.879069	50.0	2338409.0	0.198388	Y
8	IC 280-657652/20	100.0	19.982399	50.0	2332808.0	0.199824	Y
9	IC 280-657652/21	200.0	44.620531	50.0	2367362.0	0.223103	Y



7/5/2024
11:14:22 AM

Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

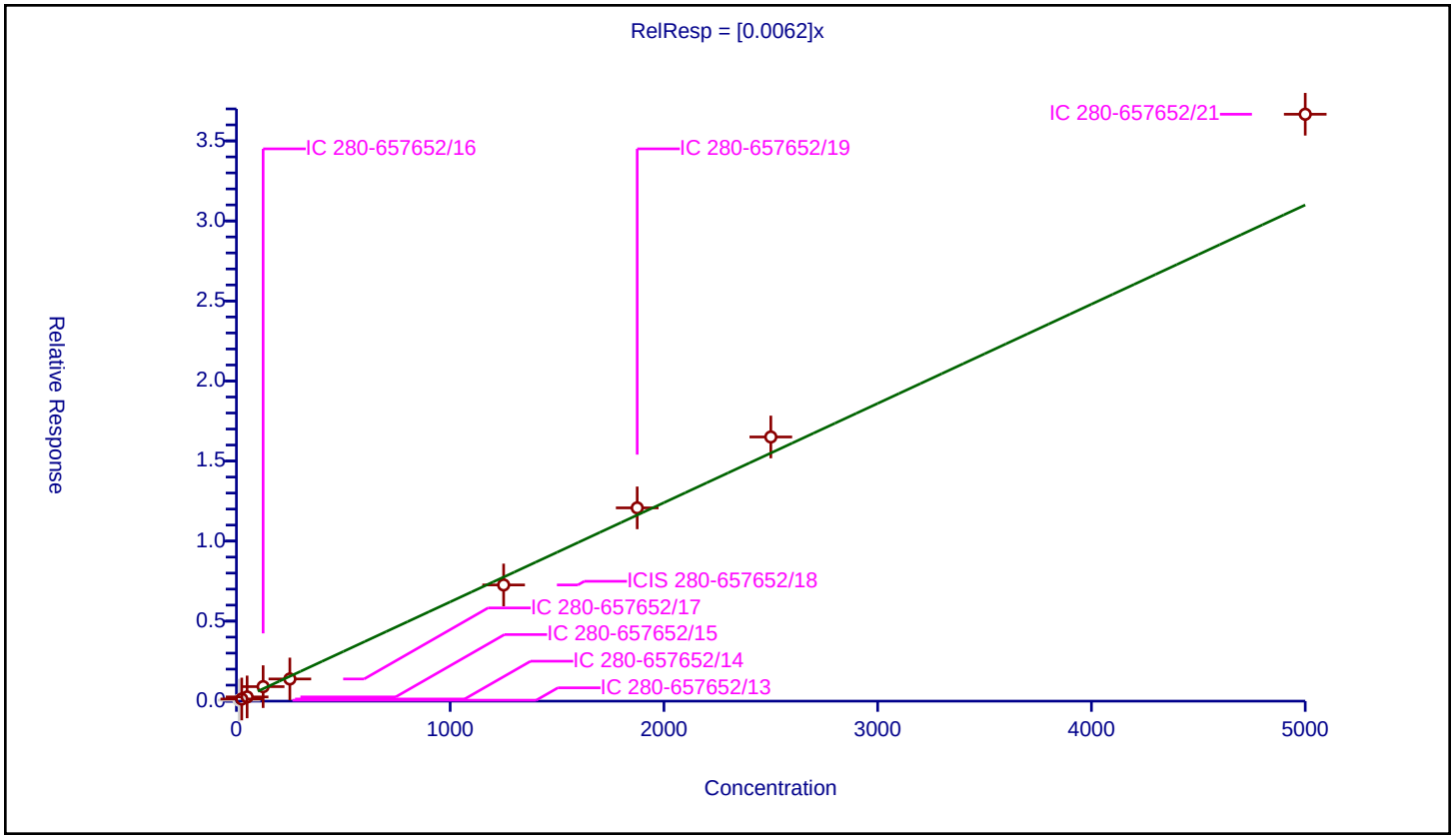
Curve Coefficients

Intercept:	0
Slope:	0.0062

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	12.5	0.059494	50.0	2154011.0	0.004759	N
2	IC 280-657652/14	25.0	0.133783	50.0	2190855.0	0.005351	Y
3	IC 280-657652/15	50.0	0.263572	50.0	2169615.0	0.005271	Y
4	IC 280-657652/16	125.0	0.906758	50.0	2205330.0	0.007254	Y
5	IC 280-657652/17	250.0	1.38507	50.0	2262954.0	0.00554	Y
6	ICIS 280-657652/18	1250.0	7.258209	50.0	2272296.0	0.005807	Y
7	IC 280-657652/19	1875.0	12.073936	50.0	2338409.0	0.006439	Y
8	IC 280-657652/20	2500.0	16.503373	50.0	2332808.0	0.006601	Y
9	IC 280-657652/21	5000.0	36.66558	50.0	2367362.0	0.007333	Y



7/5/2024
11:14:22 AM

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

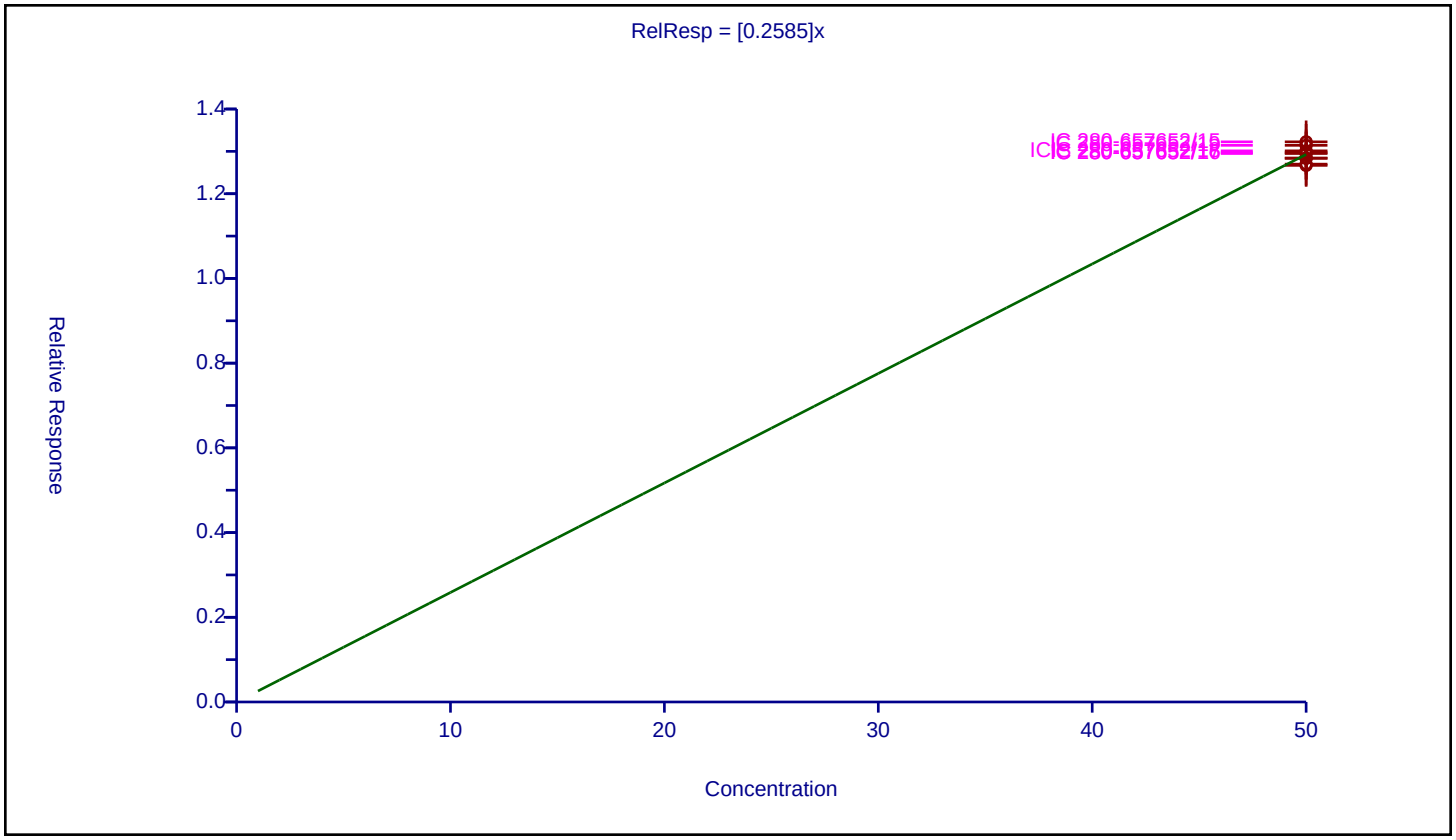
Curve Coefficients

Intercept:	0
Slope:	0.2585

Error Coefficients

Relative Standard Deviation:	1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	50.0	12.843412	50.0	2154011.0	0.256868	Y
2	IC 280-657652/14	50.0	12.668935	50.0	2190855.0	0.253379	Y
3	IC 280-657652/15	50.0	13.224927	50.0	2169615.0	0.264499	Y
4	IC 280-657652/16	50.0	12.969533	50.0	2205330.0	0.259391	Y
5	IC 280-657652/17	50.0	12.949092	50.0	2262954.0	0.258982	Y
6	ICIS 280-657652/18	50.0	13.012015	50.0	2272296.0	0.26024	Y
7	IC 280-657652/19	50.0	13.142333	50.0	2338409.0	0.262847	Y
8	IC 280-657652/20	50.0	12.835154	50.0	2332808.0	0.256703	Y
9	IC 280-657652/21	50.0	12.698628	50.0	2367362.0	0.253973	Y



7/5/2024
11:14:22 AM

Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

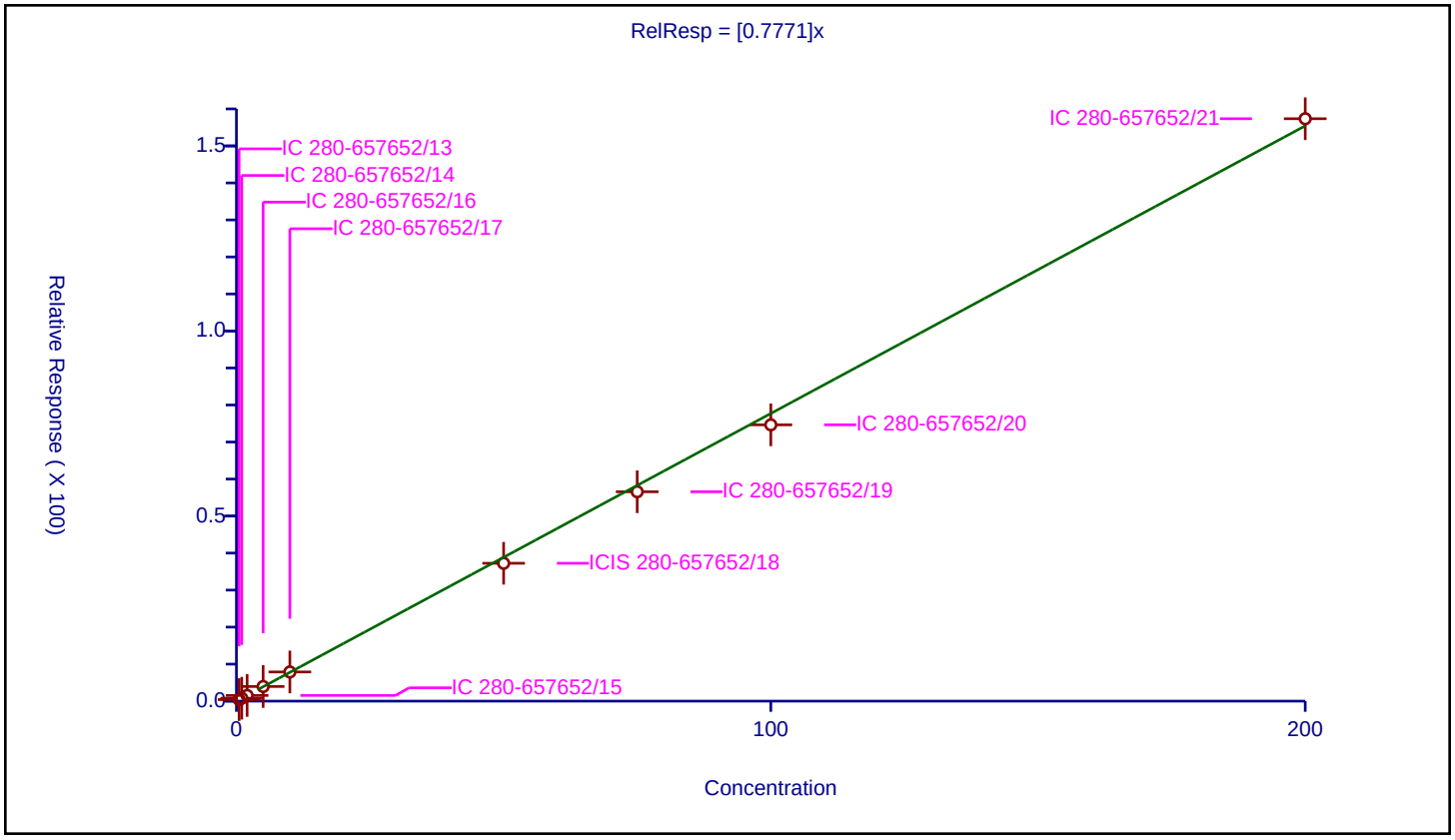
Curve Coefficients

Intercept:	0
Slope:	0.7771

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.413136	50.0	2154011.0	0.826272	Y
2	IC 280-657652/14	1.0	0.788185	50.0	2190855.0	0.788185	Y
3	IC 280-657652/15	2.0	1.5373	50.0	2169615.0	0.76865	Y
4	IC 280-657652/16	5.0	3.952787	50.0	2205330.0	0.790557	Y
5	IC 280-657652/17	10.0	7.879192	50.0	2262954.0	0.787919	Y
6	ICIS 280-657652/18	50.0	37.24847	50.0	2272296.0	0.744969	Y
7	IC 280-657652/19	75.0	56.567222	50.0	2338409.0	0.75423	Y
8	IC 280-657652/20	100.0	74.651707	50.0	2332808.0	0.746517	Y
9	IC 280-657652/21	200.0	157.341442	50.0	2367362.0	0.786707	Y



7/5/2024
11:14:22 AM

Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

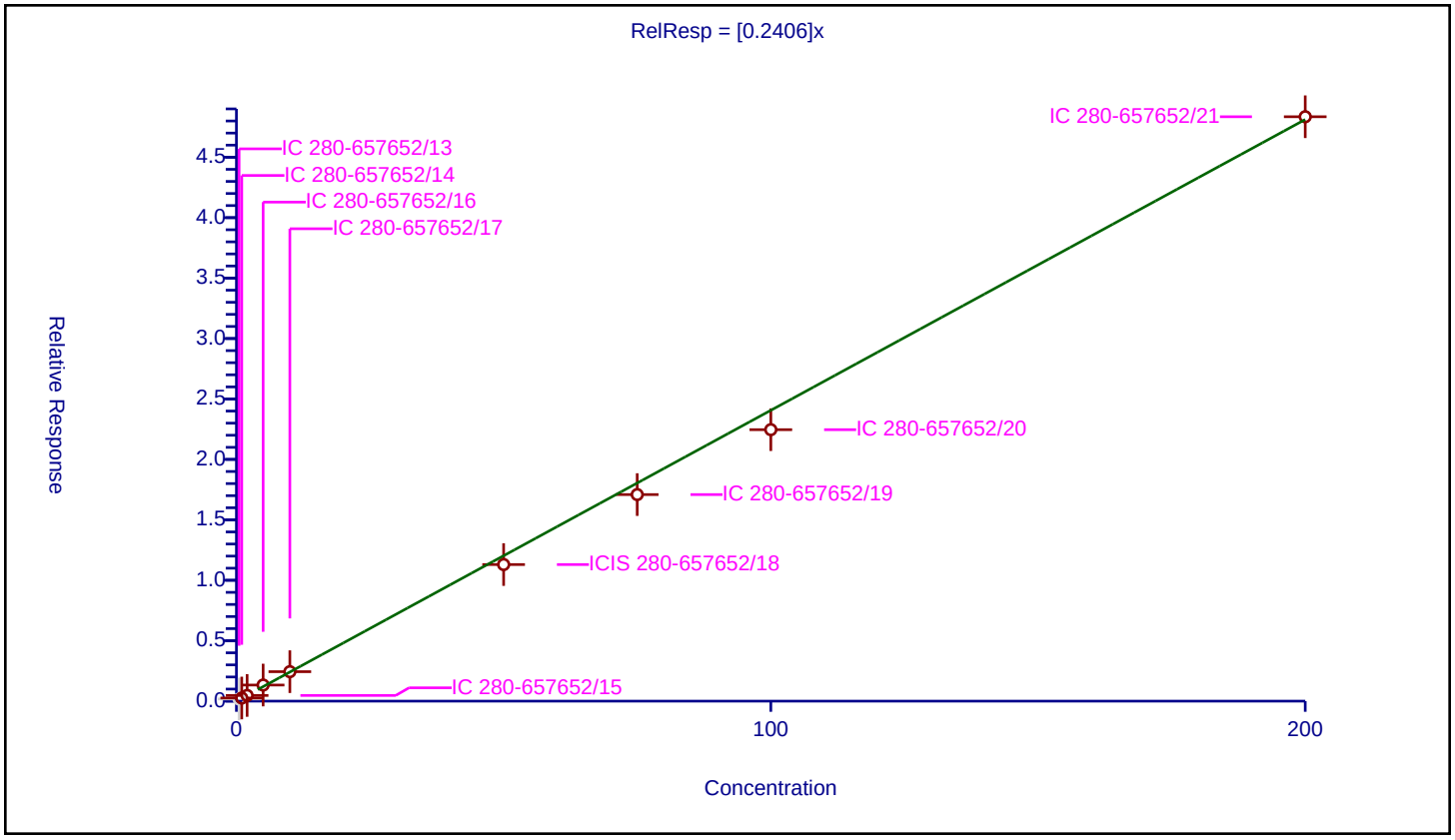
Curve Coefficients

Intercept:	0
Slope:	0.2406

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.178783	50.0	2154011.0	0.357565	N
2	IC 280-657652/14	1.0	0.259442	50.0	2190855.0	0.259442	Y
3	IC 280-657652/15	2.0	0.469991	50.0	2169615.0	0.234996	Y
4	IC 280-657652/16	5.0	1.332567	50.0	2205330.0	0.266513	Y
5	IC 280-657652/17	10.0	2.437301	50.0	2262954.0	0.24373	Y
6	ICIS 280-657652/18	50.0	11.300002	50.0	2272296.0	0.226	Y
7	IC 280-657652/19	75.0	17.089055	50.0	2338409.0	0.227854	Y
8	IC 280-657652/20	100.0	22.460528	50.0	2332808.0	0.224605	Y
9	IC 280-657652/21	200.0	48.350295	50.0	2367362.0	0.241751	Y



7/5/2024
11:14:22 AM

Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

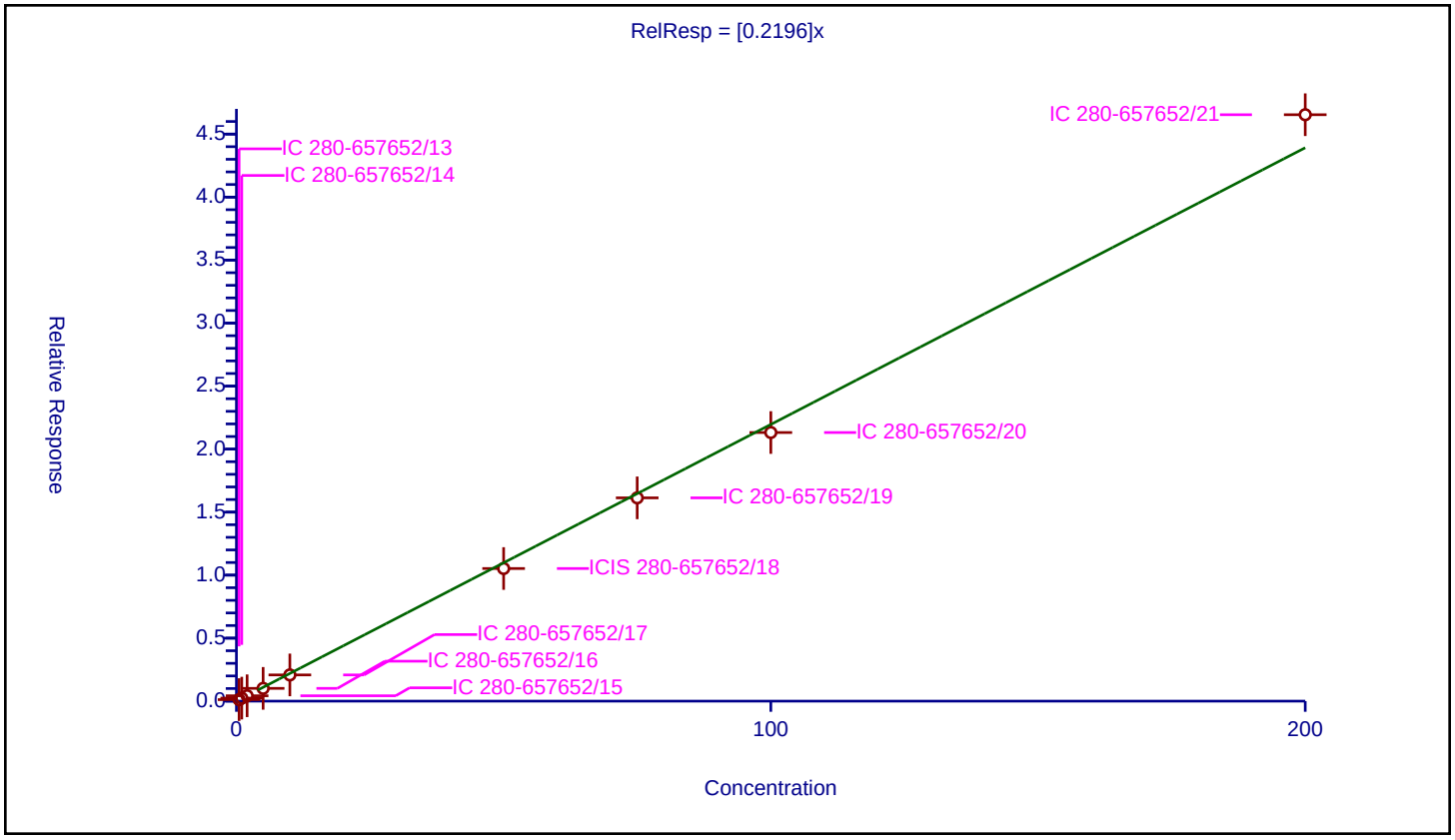
Curve Coefficients

Intercept:	0
Slope:	0.2196

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.120473	50.0	2154011.0	0.240946	Y
2	IC 280-657652/14	1.0	0.240386	50.0	2190855.0	0.240386	Y
3	IC 280-657652/15	2.0	0.42526	50.0	2169615.0	0.21263	Y
4	IC 280-657652/16	5.0	1.013499	50.0	2205330.0	0.2027	Y
5	IC 280-657652/17	10.0	2.081174	50.0	2262954.0	0.208117	Y
6	ICIS 280-657652/18	50.0	10.525257	50.0	2272296.0	0.210505	Y
7	IC 280-657652/19	75.0	16.132849	50.0	2338409.0	0.215105	Y
8	IC 280-657652/20	100.0	21.317721	50.0	2332808.0	0.213177	Y
9	IC 280-657652/21	200.0	46.536672	50.0	2367362.0	0.232683	Y



7/5/2024
11:14:22 AM

Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

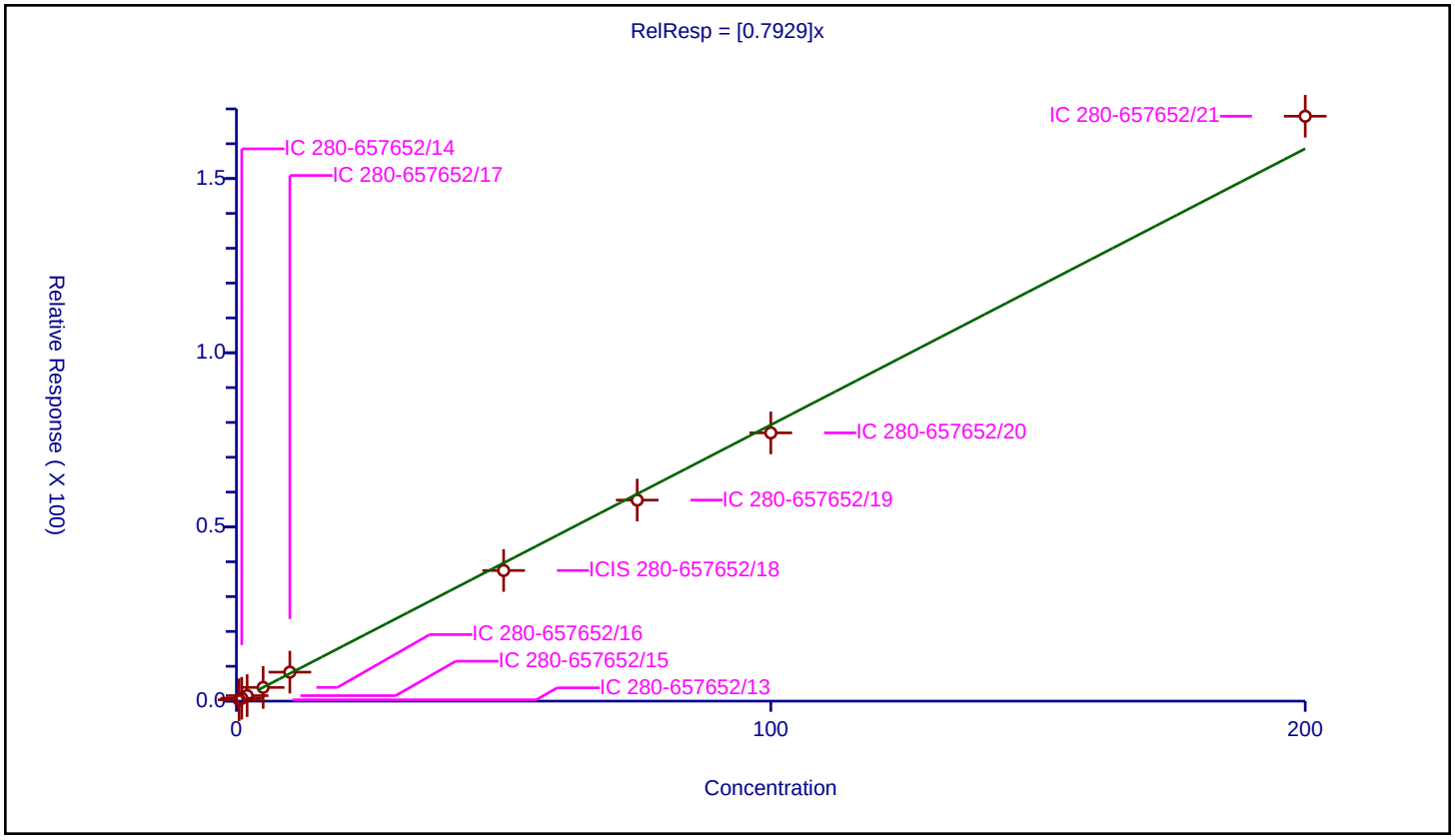
Curve Coefficients

Intercept:	0
Slope:	0.7929

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.383246	50.0	495243.0	0.766492	Y
2	IC 280-657652/14	1.0	0.831039	50.0	487883.0	0.831039	Y
3	IC 280-657652/15	2.0	1.580471	50.0	488715.0	0.790236	Y
4	IC 280-657652/16	5.0	3.933955	50.0	500692.0	0.786791	Y
5	IC 280-657652/17	10.0	8.325476	50.0	513340.0	0.832548	Y
6	ICIS 280-657652/18	50.0	37.501548	50.0	524805.0	0.750031	Y
7	IC 280-657652/19	75.0	57.705176	50.0	535004.0	0.769402	Y
8	IC 280-657652/20	100.0	77.001907	50.0	545380.0	0.770019	Y
9	IC 280-657652/21	200.0	167.899262	50.0	549626.0	0.839496	Y



7/5/2024
11:14:22 AM

Calibration / 2-Pentanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

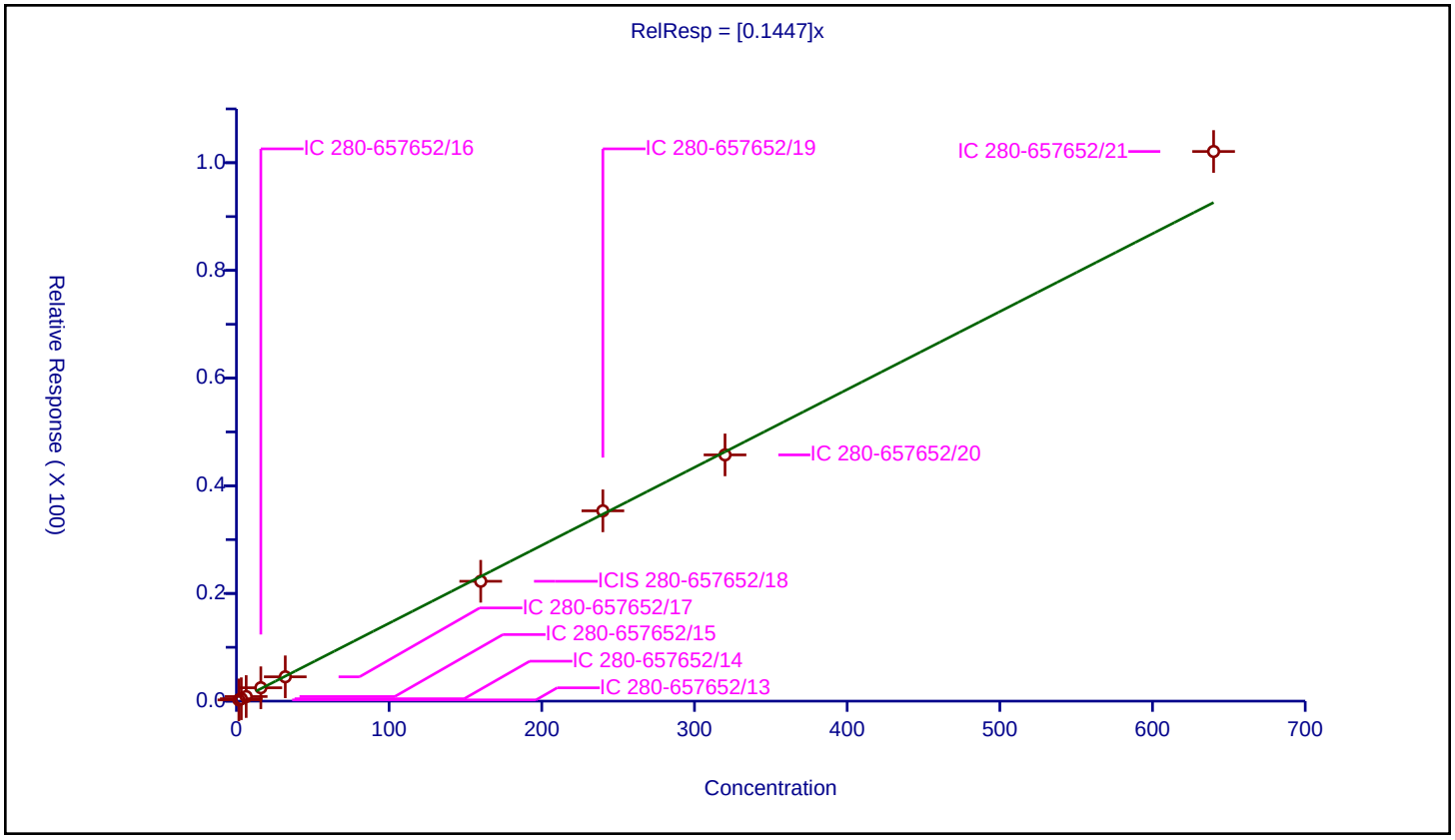
Curve Coefficients

Intercept:	0
Slope:	0.1447

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	1.6	0.229711	50.0	2154011.0	0.143569	Y
2	IC 280-657652/14	3.2	0.446538	50.0	2190855.0	0.139543	Y
3	IC 280-657652/15	6.4	0.855682	50.0	2169615.0	0.1337	Y
4	IC 280-657652/16	16.0	2.487972	50.0	2205330.0	0.155498	Y
5	IC 280-657652/17	32.0	4.517834	50.0	2262954.0	0.141182	Y
6	ICIS 280-657652/18	160.0	22.264815	50.0	2272296.0	0.139155	Y
7	IC 280-657652/19	240.0	35.348329	50.0	2338409.0	0.147285	Y
8	IC 280-657652/20	320.0	45.735697	50.0	2332808.0	0.142924	Y
9	IC 280-657652/21	640.0	102.09085	50.0	2367362.0	0.159517	Y



7/5/2024
11:14:22 AM

Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

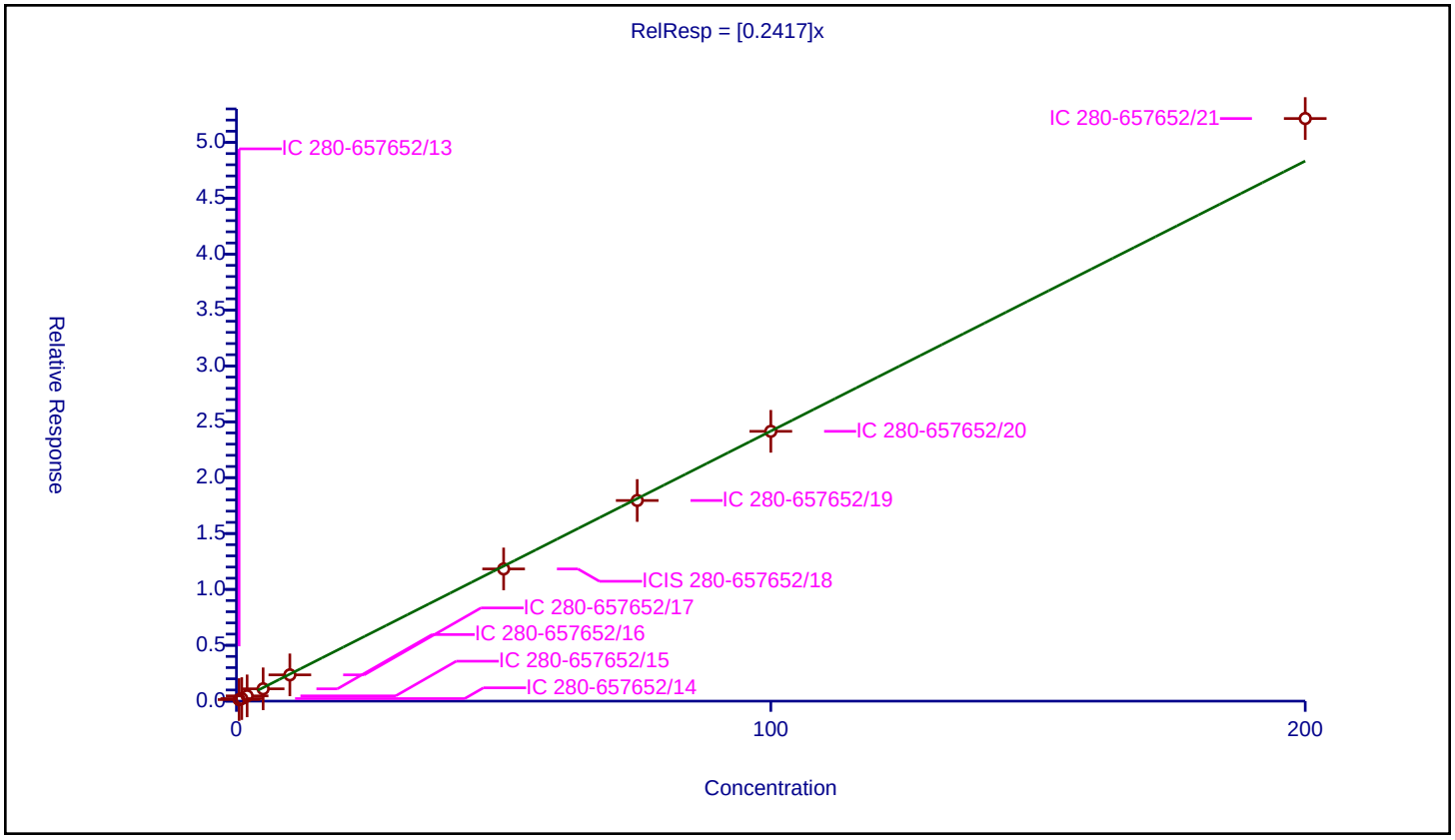
Curve Coefficients

Intercept:	0
Slope:	0.2417

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.139252	50.0	2154011.0	0.278504	Y
2	IC 280-657652/14	1.0	0.227309	50.0	2190855.0	0.227309	Y
3	IC 280-657652/15	2.0	0.471604	50.0	2169615.0	0.235802	Y
4	IC 280-657652/16	5.0	1.101241	50.0	2205330.0	0.220248	Y
5	IC 280-657652/17	10.0	2.350136	50.0	2262954.0	0.235014	Y
6	ICIS 280-657652/18	50.0	11.829159	50.0	2272296.0	0.236583	Y
7	IC 280-657652/19	75.0	17.954943	50.0	2338409.0	0.239399	Y
8	IC 280-657652/20	100.0	24.145343	50.0	2332808.0	0.241453	Y
9	IC 280-657652/21	200.0	52.136429	50.0	2367362.0	0.260682	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

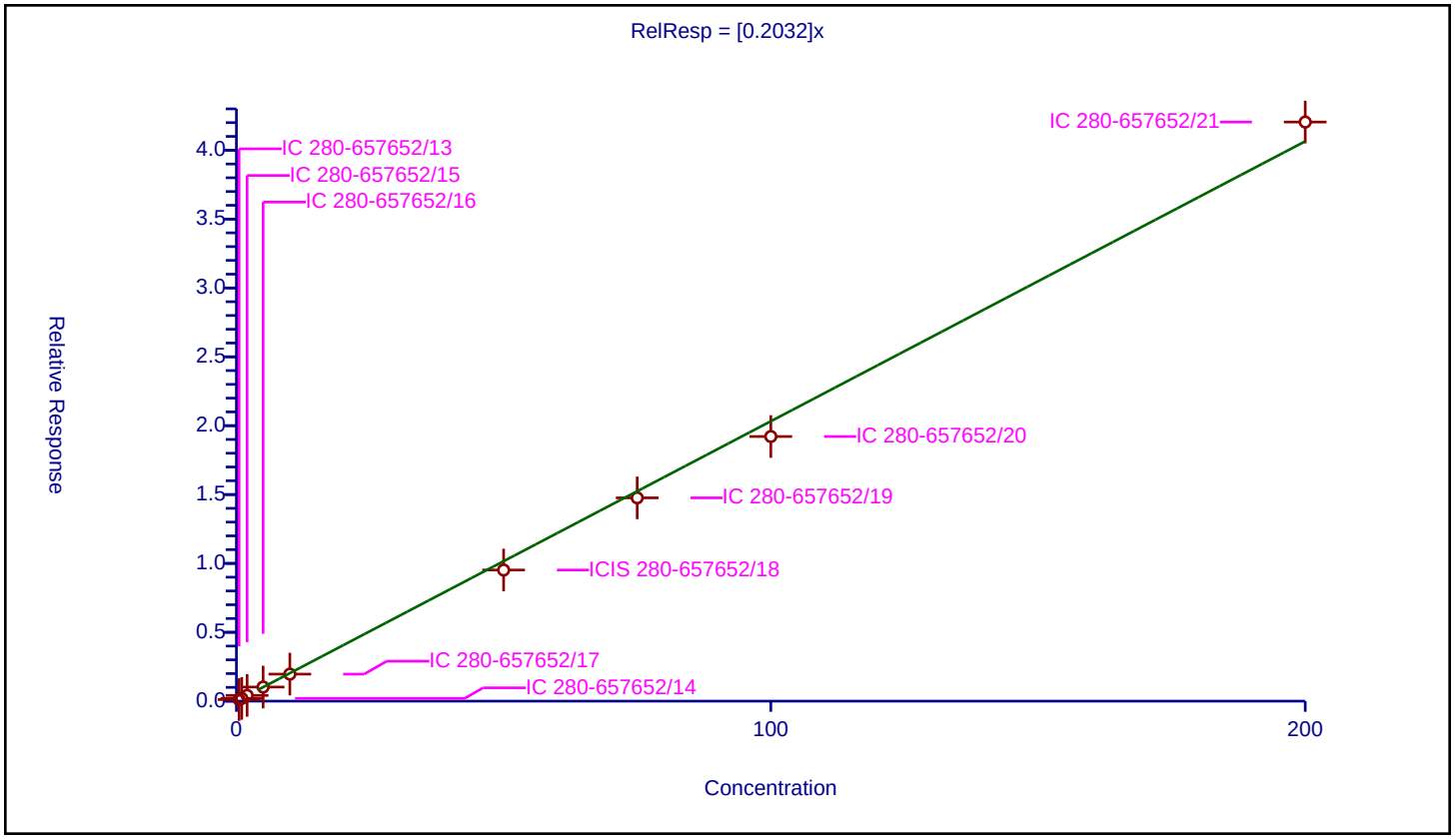
Curve Coefficients

Intercept:	0
Slope:	0.2032

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.115088	50.0	2154011.0	0.230175	Y
2	IC 280-657652/14	1.0	0.19958	50.0	2190855.0	0.19958	Y
3	IC 280-657652/15	2.0	0.417171	50.0	2169615.0	0.208585	Y
4	IC 280-657652/16	5.0	1.024541	50.0	2205330.0	0.204908	Y
5	IC 280-657652/17	10.0	1.961772	50.0	2262954.0	0.196177	Y
6	ICIS 280-657652/18	50.0	9.520767	50.0	2272296.0	0.190415	Y
7	IC 280-657652/19	75.0	14.758582	50.0	2338409.0	0.196781	Y
8	IC 280-657652/20	100.0	19.212833	50.0	2332808.0	0.192128	Y
9	IC 280-657652/21	200.0	42.04526	50.0	2367362.0	0.210226	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

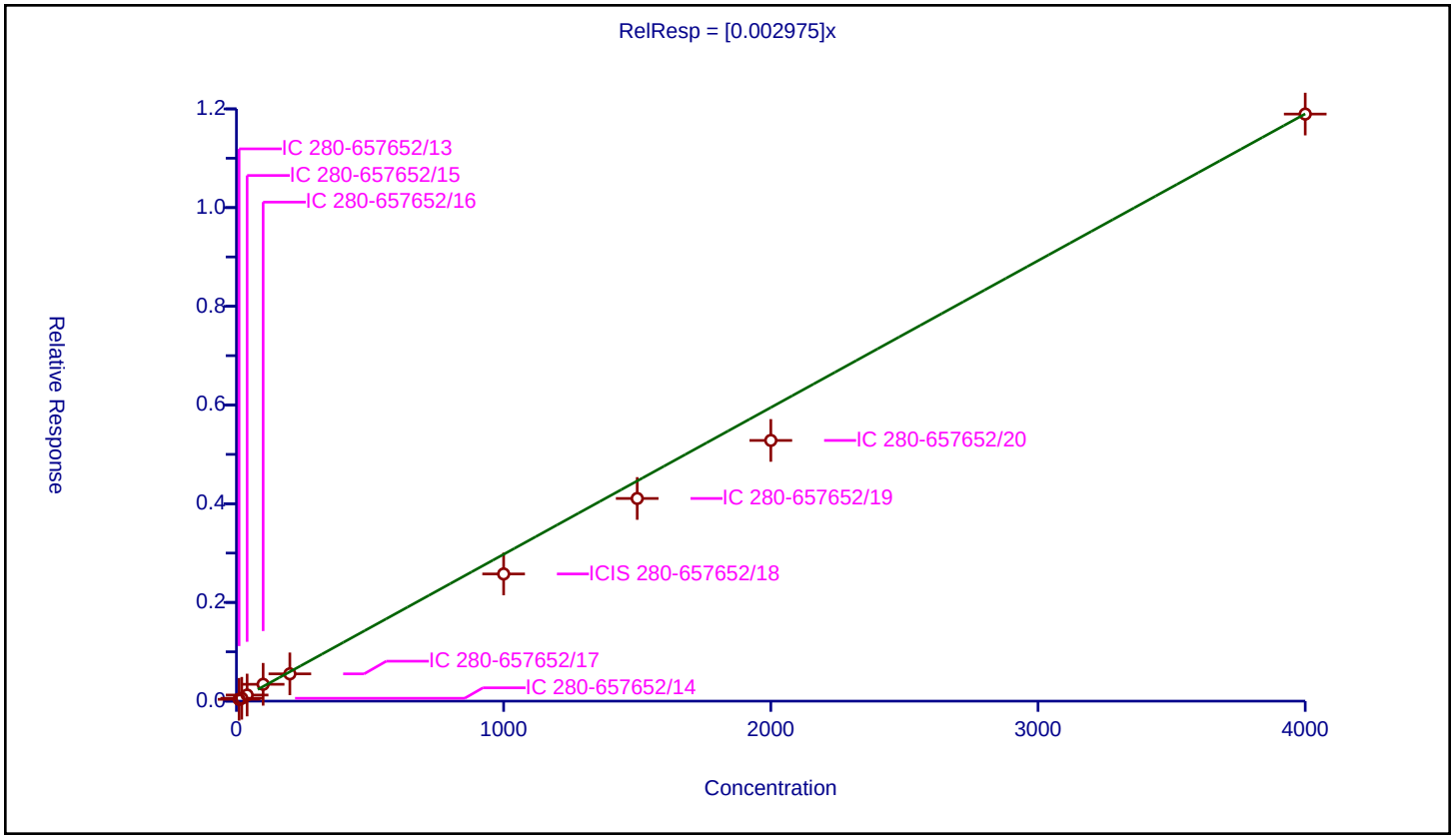
Curve Coefficients

Intercept:	0
Slope:	0.002975

Error Coefficients

Relative Standard Deviation:	12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	10.0	0.036861	50.0	2154011.0	0.003686	Y
2	IC 280-657652/14	20.0	0.057763	50.0	2190855.0	0.002888	Y
3	IC 280-657652/15	40.0	0.123778	50.0	2169615.0	0.003094	Y
4	IC 280-657652/16	100.0	0.34106	50.0	2205330.0	0.003411	Y
5	IC 280-657652/17	200.0	0.552773	50.0	2262954.0	0.002764	Y
6	ICIS 280-657652/18	1000.0	2.576887	50.0	2272296.0	0.002577	Y
7	IC 280-657652/19	1500.0	4.106467	50.0	2338409.0	0.002738	Y
8	IC 280-657652/20	2000.0	5.282539	50.0	2332808.0	0.002641	Y
9	IC 280-657652/21	4000.0	11.895118	50.0	2367362.0	0.002974	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

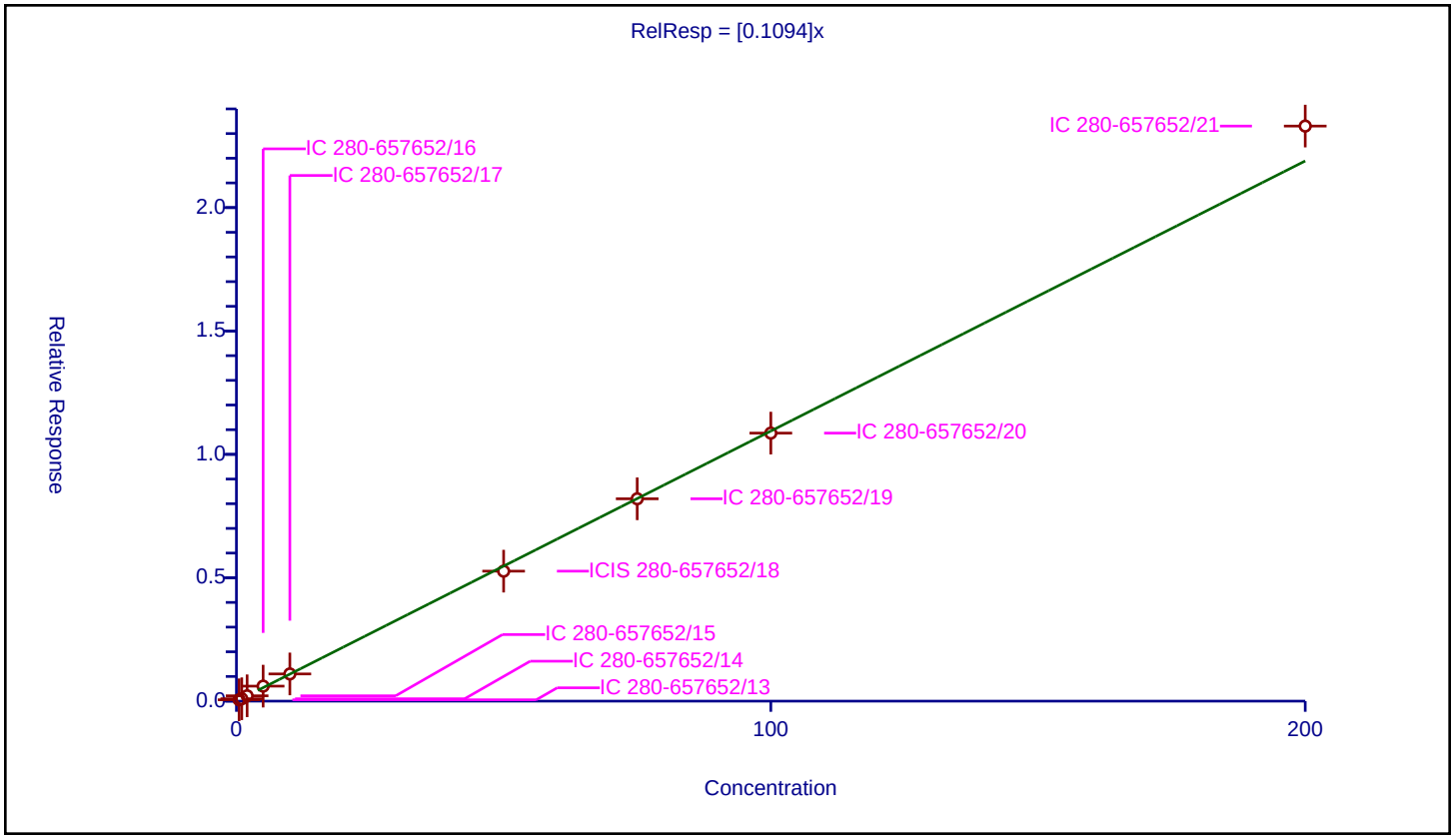
Curve Coefficients

Intercept:	0
Slope:	0.1094

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.054364	50.0	2154011.0	0.108727	Y
2	IC 280-657652/14	1.0	0.096469	50.0	2190855.0	0.096469	Y
3	IC 280-657652/15	2.0	0.216167	50.0	2169615.0	0.108084	Y
4	IC 280-657652/16	5.0	0.608412	50.0	2205330.0	0.121682	Y
5	IC 280-657652/17	10.0	1.102652	50.0	2262954.0	0.110265	Y
6	ICIS 280-657652/18	50.0	5.26747	50.0	2272296.0	0.105349	Y
7	IC 280-657652/19	75.0	8.200169	50.0	2338409.0	0.109336	Y
8	IC 280-657652/20	100.0	10.86146	50.0	2332808.0	0.108615	Y
9	IC 280-657652/21	200.0	23.303745	50.0	2367362.0	0.116519	Y



7/5/2024
11:14:22 AM

Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

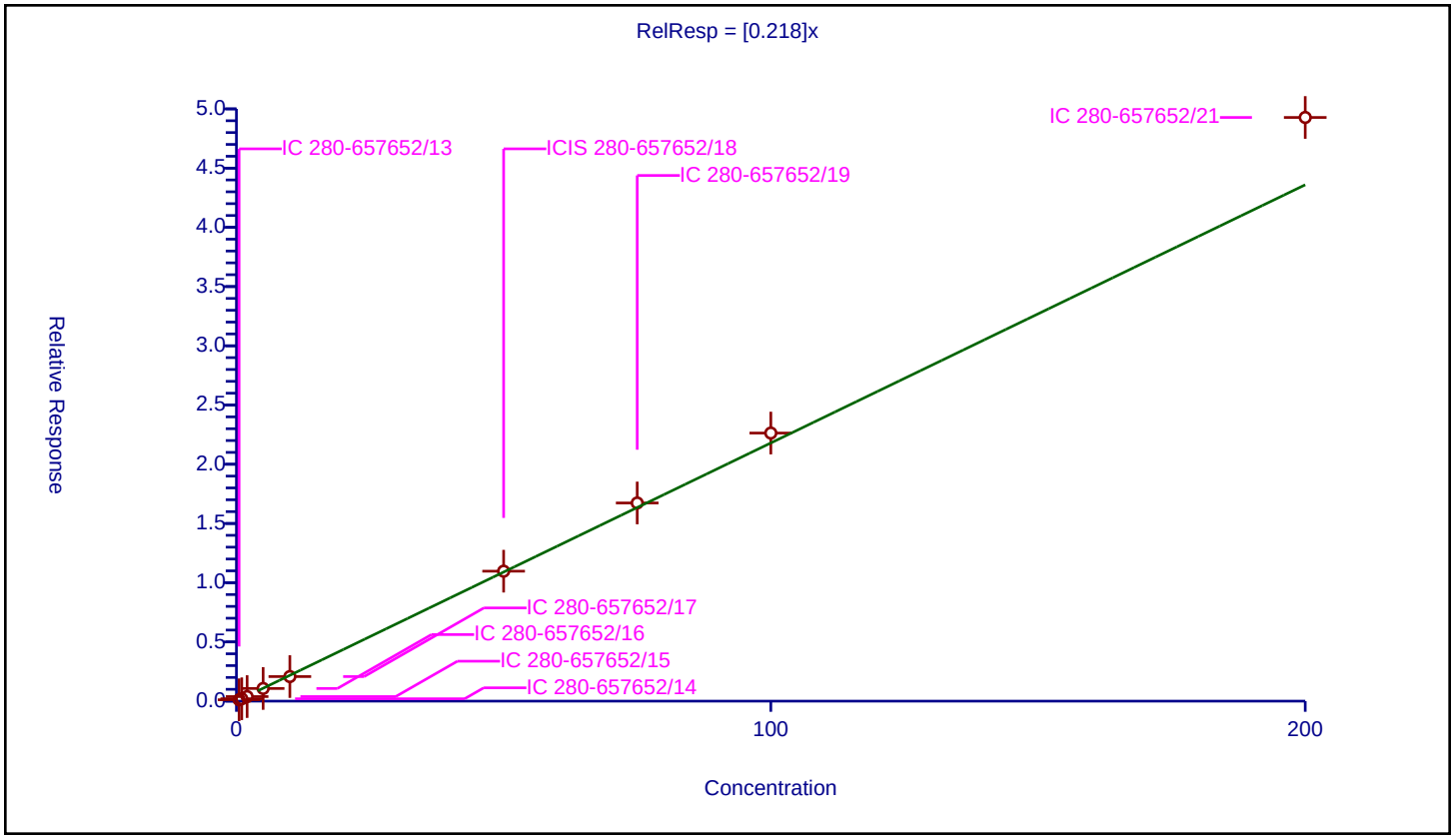
Curve Coefficients

Intercept:	0
Slope:	0.218

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.116039	50.0	2154011.0	0.232079	Y
2	IC 280-657652/14	1.0	0.20047	50.0	2190855.0	0.20047	Y
3	IC 280-657652/15	2.0	0.385299	50.0	2169615.0	0.192649	Y
4	IC 280-657652/16	5.0	1.069386	50.0	2205330.0	0.213877	Y
5	IC 280-657652/17	10.0	2.073219	50.0	2262954.0	0.207322	Y
6	ICIS 280-657652/18	50.0	10.971216	50.0	2272296.0	0.219424	Y
7	IC 280-657652/19	75.0	16.730948	50.0	2338409.0	0.223079	Y
8	IC 280-657652/20	100.0	22.632038	50.0	2332808.0	0.22632	Y
9	IC 280-657652/21	200.0	49.275037	50.0	2367362.0	0.246375	Y



7/5/2024
11:14:22 AM

Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

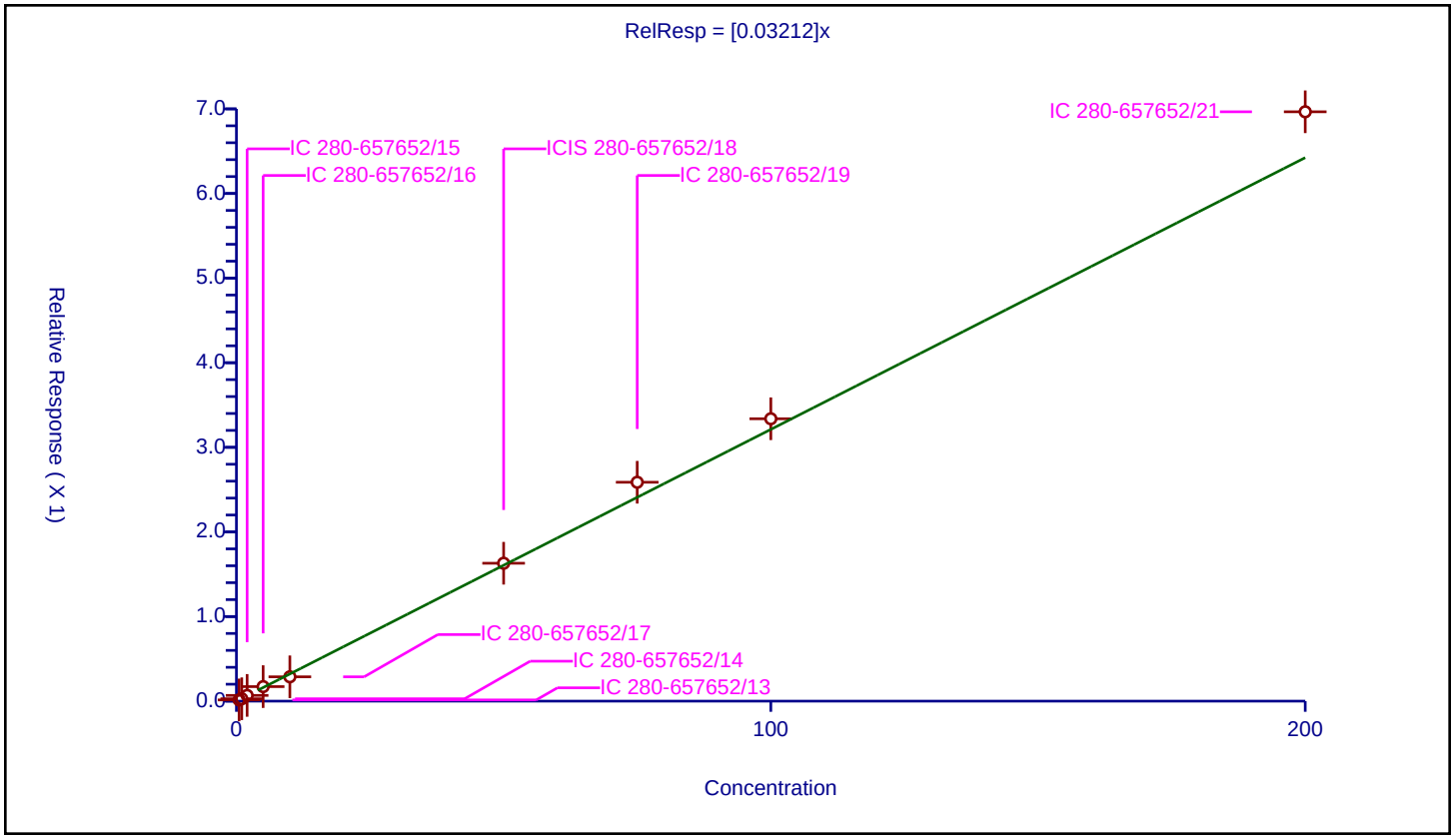
Curve Coefficients

Intercept:	0
Slope:	0.03212

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.014322	50.0	2154011.0	0.028644	Y
2	IC 280-657652/14	1.0	0.028071	50.0	2190855.0	0.028071	Y
3	IC 280-657652/15	2.0	0.067915	50.0	2169615.0	0.033958	Y
4	IC 280-657652/16	5.0	0.171675	50.0	2205330.0	0.034335	Y
5	IC 280-657652/17	10.0	0.287633	50.0	2262954.0	0.028763	Y
6	ICIS 280-657652/18	50.0	1.629739	50.0	2272296.0	0.032595	Y
7	IC 280-657652/19	75.0	2.587208	50.0	2338409.0	0.034496	Y
8	IC 280-657652/20	100.0	3.337544	50.0	2332808.0	0.033375	Y
9	IC 280-657652/21	200.0	6.965791	50.0	2367362.0	0.034829	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

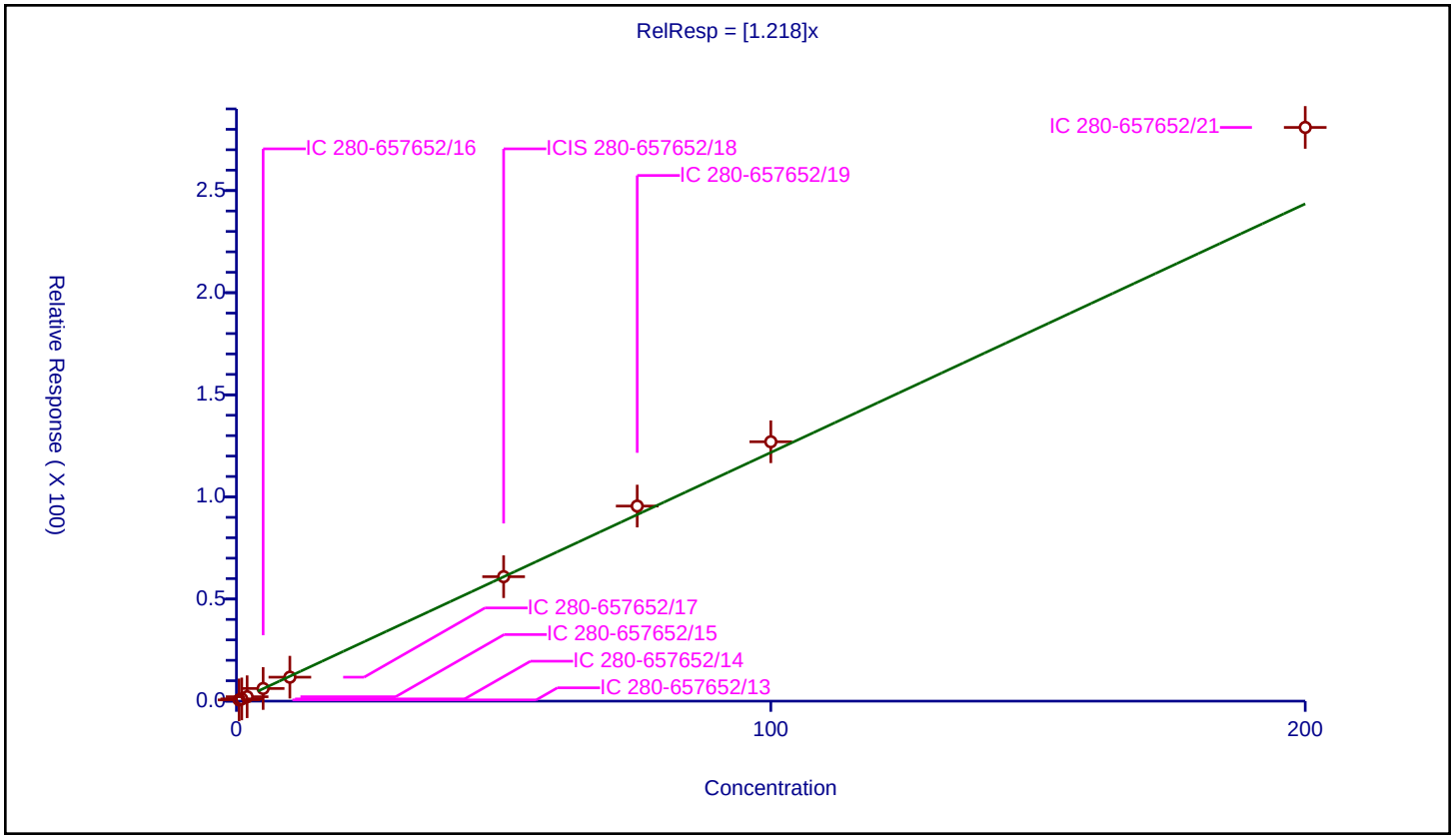
Curve Coefficients

Intercept:	0
Slope:	1.218

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.606066	50.0	495243.0	1.212132	Y
2	IC 280-657652/14	1.0	1.086429	50.0	487883.0	1.086429	Y
3	IC 280-657652/15	2.0	2.161178	50.0	488715.0	1.080589	Y
4	IC 280-657652/16	5.0	6.193728	50.0	500692.0	1.238746	Y
5	IC 280-657652/17	10.0	11.729848	50.0	513340.0	1.172985	Y
6	ICIS 280-657652/18	50.0	60.939873	50.0	524805.0	1.218797	Y
7	IC 280-657652/19	75.0	95.524052	50.0	535004.0	1.273654	Y
8	IC 280-657652/20	100.0	127.000348	50.0	545380.0	1.270003	Y
9	IC 280-657652/21	200.0	280.928304	50.0	549626.0	1.404642	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

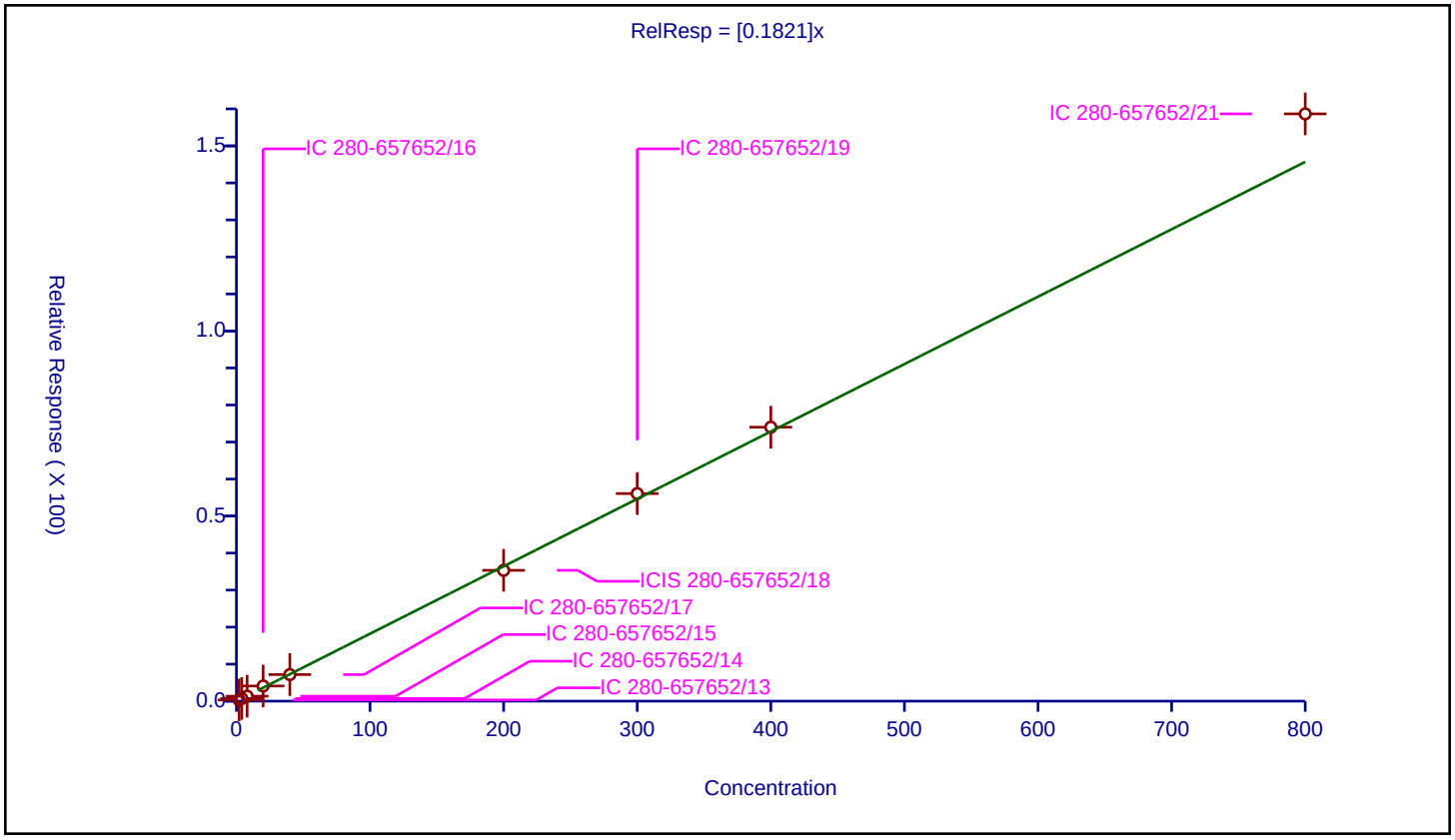
Curve Coefficients

Intercept:	0
Slope:	0.1821

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	2.0	0.323675	50.0	2154011.0	0.161838	Y
2	IC 280-657652/14	4.0	0.714105	50.0	2190855.0	0.178526	Y
3	IC 280-657652/15	8.0	1.341782	50.0	2169615.0	0.167723	Y
4	IC 280-657652/16	20.0	4.089773	50.0	2205330.0	0.204489	Y
5	IC 280-657652/17	40.0	7.177212	50.0	2262954.0	0.17943	Y
6	ICIS 280-657652/18	200.0	35.341126	50.0	2272296.0	0.176706	Y
7	IC 280-657652/19	300.0	56.077252	50.0	2338409.0	0.186924	Y
8	IC 280-657652/20	400.0	74.009863	50.0	2332808.0	0.185025	Y
9	IC 280-657652/21	800.0	158.655309	50.0	2367362.0	0.198319	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

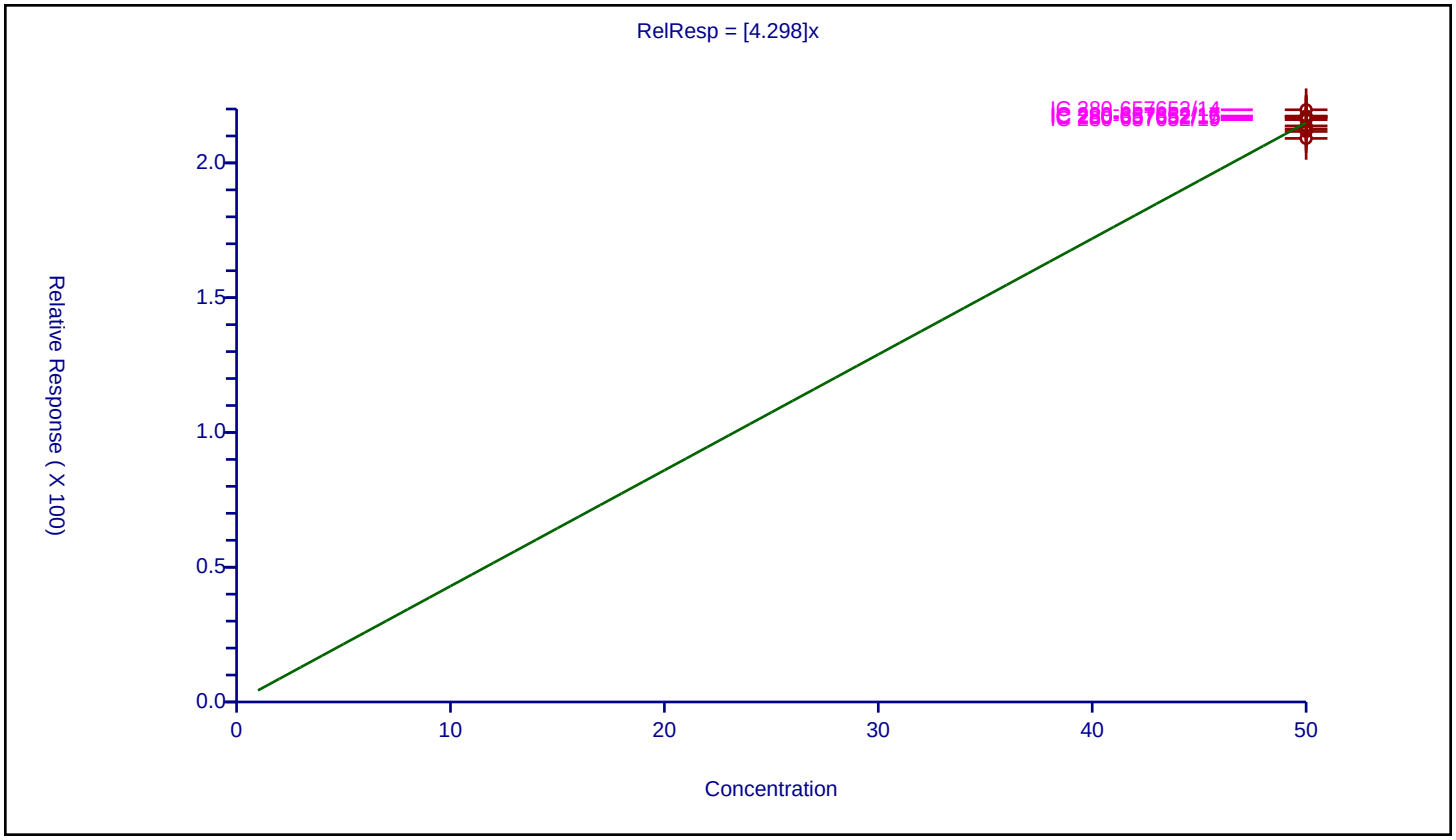
Curve Coefficients

Intercept:	0
Slope:	4.298

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	50.0	211.670029	50.0	495243.0	4.233401	Y
2	IC 280-657652/14	50.0	219.720302	50.0	487883.0	4.394406	Y
3	IC 280-657652/15	50.0	216.724164	50.0	488715.0	4.334483	Y
4	IC 280-657652/16	50.0	217.155357	50.0	500692.0	4.343107	Y
5	IC 280-657652/17	50.0	217.38906	50.0	513340.0	4.347781	Y
6	ICIS 280-657652/18	50.0	213.735292	50.0	524805.0	4.274706	Y
7	IC 280-657652/19	50.0	216.031282	50.0	535004.0	4.320626	Y
8	IC 280-657652/20	50.0	209.09861	50.0	545380.0	4.181972	Y
9	IC 280-657652/21	50.0	212.589652	50.0	549626.0	4.251793	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

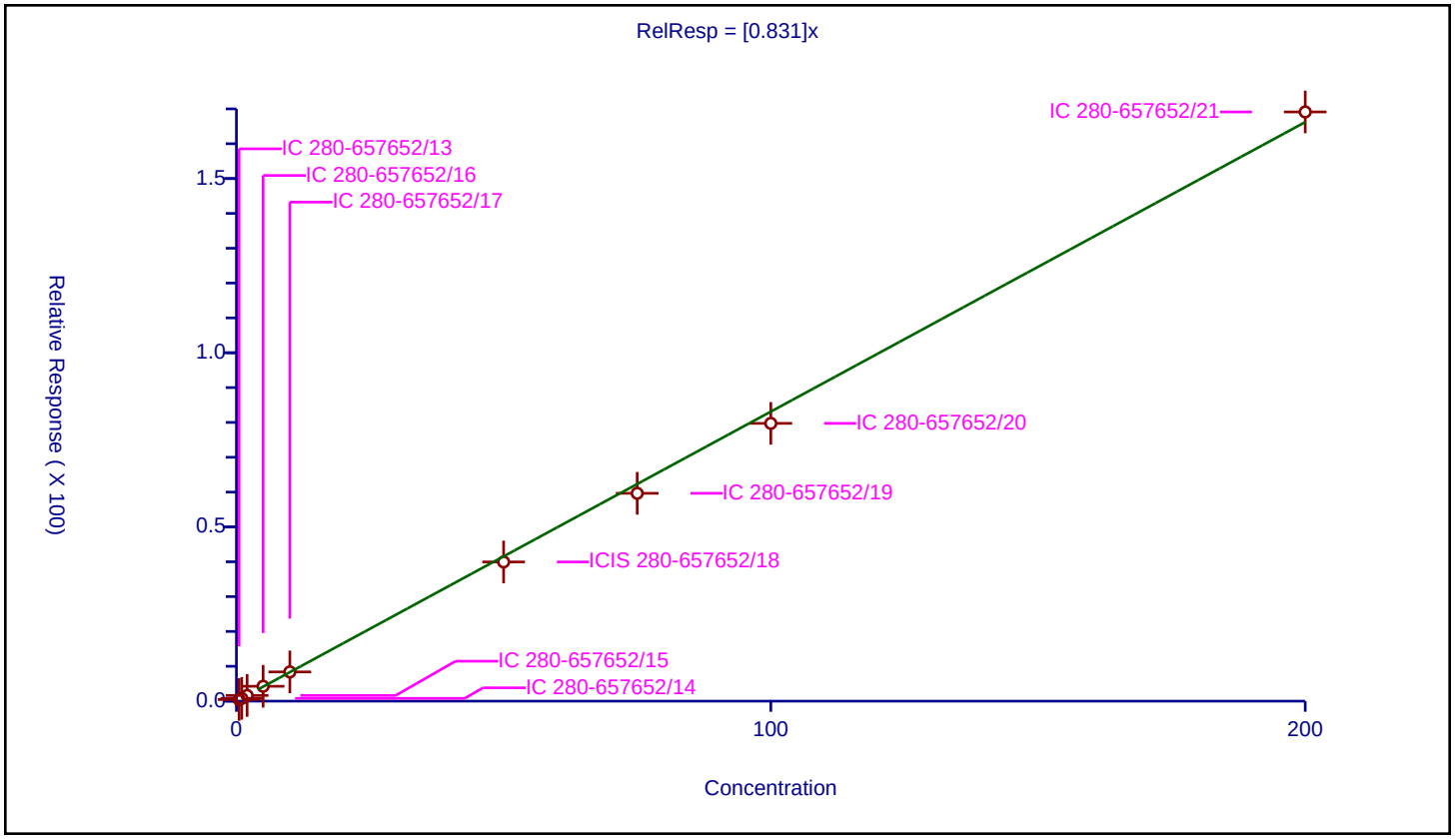
Curve Coefficients

Intercept:	0
Slope:	0.831

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.466084	50.0	2154011.0	0.932168	Y
2	IC 280-657652/14	1.0	0.802609	50.0	2190855.0	0.802609	Y
3	IC 280-657652/15	2.0	1.628607	50.0	2169615.0	0.814303	Y
4	IC 280-657652/16	5.0	4.266958	50.0	2205330.0	0.853392	Y
5	IC 280-657652/17	10.0	8.392658	50.0	2262954.0	0.839266	Y
6	ICIS 280-657652/18	50.0	39.958593	50.0	2272296.0	0.799172	Y
7	IC 280-657652/19	75.0	59.658811	50.0	2338409.0	0.795451	Y
8	IC 280-657652/20	100.0	79.737252	50.0	2332808.0	0.797373	Y
9	IC 280-657652/21	200.0	169.121875	50.0	2367362.0	0.845609	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

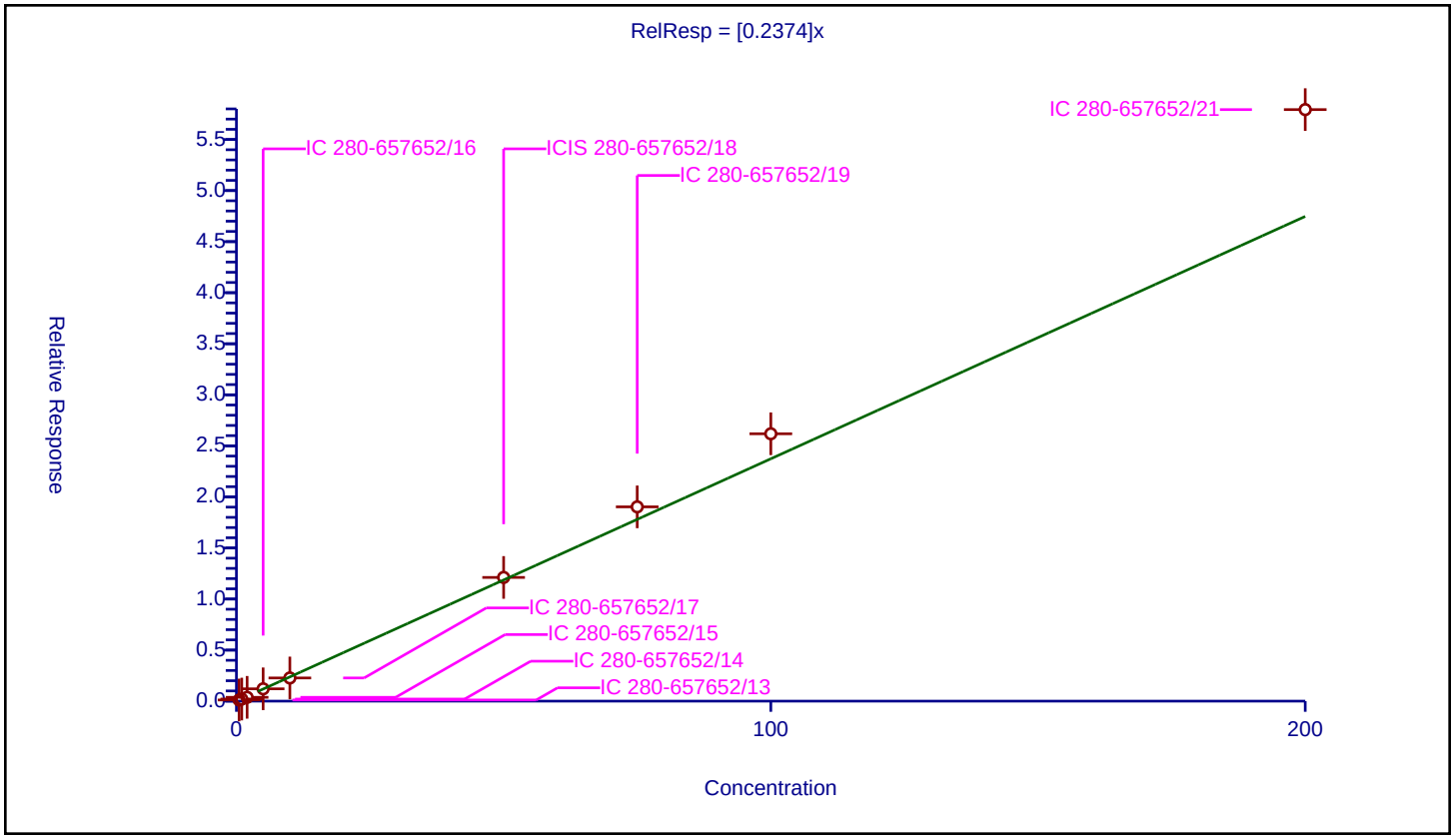
Curve Coefficients

Intercept:	0
Slope:	0.2374

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.11344	50.0	2154011.0	0.226879	Y
2	IC 280-657652/14	1.0	0.205764	50.0	2190855.0	0.205764	Y
3	IC 280-657652/15	2.0	0.375228	50.0	2169615.0	0.187614	Y
4	IC 280-657652/16	5.0	1.207008	50.0	2205330.0	0.241402	Y
5	IC 280-657652/17	10.0	2.27066	50.0	2262954.0	0.227066	Y
6	ICIS 280-657652/18	50.0	12.115367	50.0	2272296.0	0.242307	Y
7	IC 280-657652/19	75.0	19.026013	50.0	2338409.0	0.25368	Y
8	IC 280-657652/20	100.0	26.183488	50.0	2332808.0	0.261835	Y
9	IC 280-657652/21	200.0	57.930325	50.0	2367362.0	0.289652	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

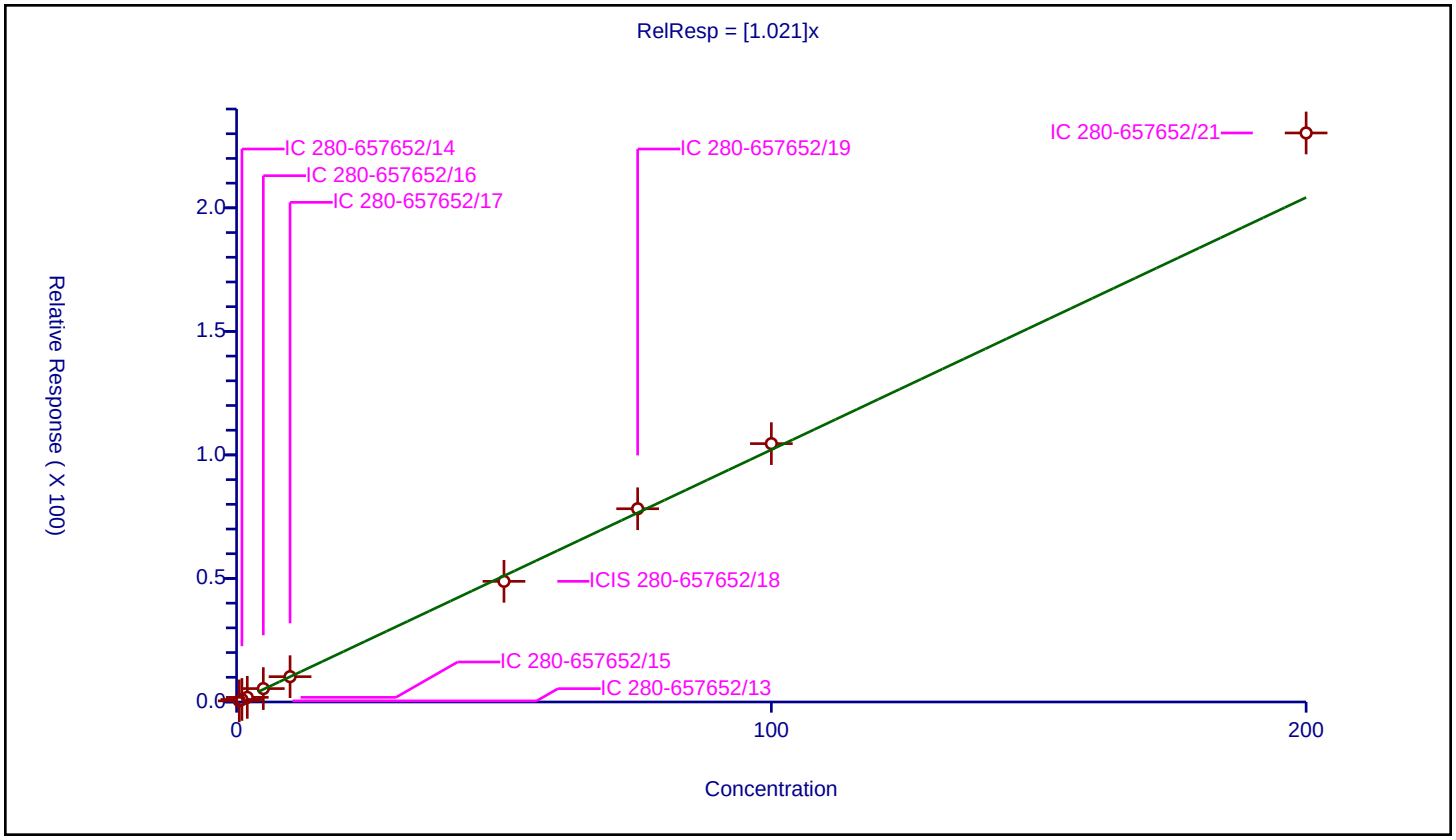
Curve Coefficients

Intercept:	0
Slope:	1.021

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.451294	50.0	495243.0	0.902587	Y
2	IC 280-657652/14	1.0	1.021556	50.0	487883.0	1.021556	Y
3	IC 280-657652/15	2.0	1.87594	50.0	488715.0	0.93797	Y
4	IC 280-657652/16	5.0	5.425291	50.0	500692.0	1.085058	Y
5	IC 280-657652/17	10.0	10.245744	50.0	513340.0	1.024574	Y
6	ICIS 280-657652/18	50.0	48.831185	50.0	524805.0	0.976624	Y
7	IC 280-657652/19	75.0	78.212967	50.0	535004.0	1.04284	Y
8	IC 280-657652/20	100.0	104.569474	50.0	545380.0	1.045695	Y
9	IC 280-657652/21	200.0	230.310702	50.0	549626.0	1.151554	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

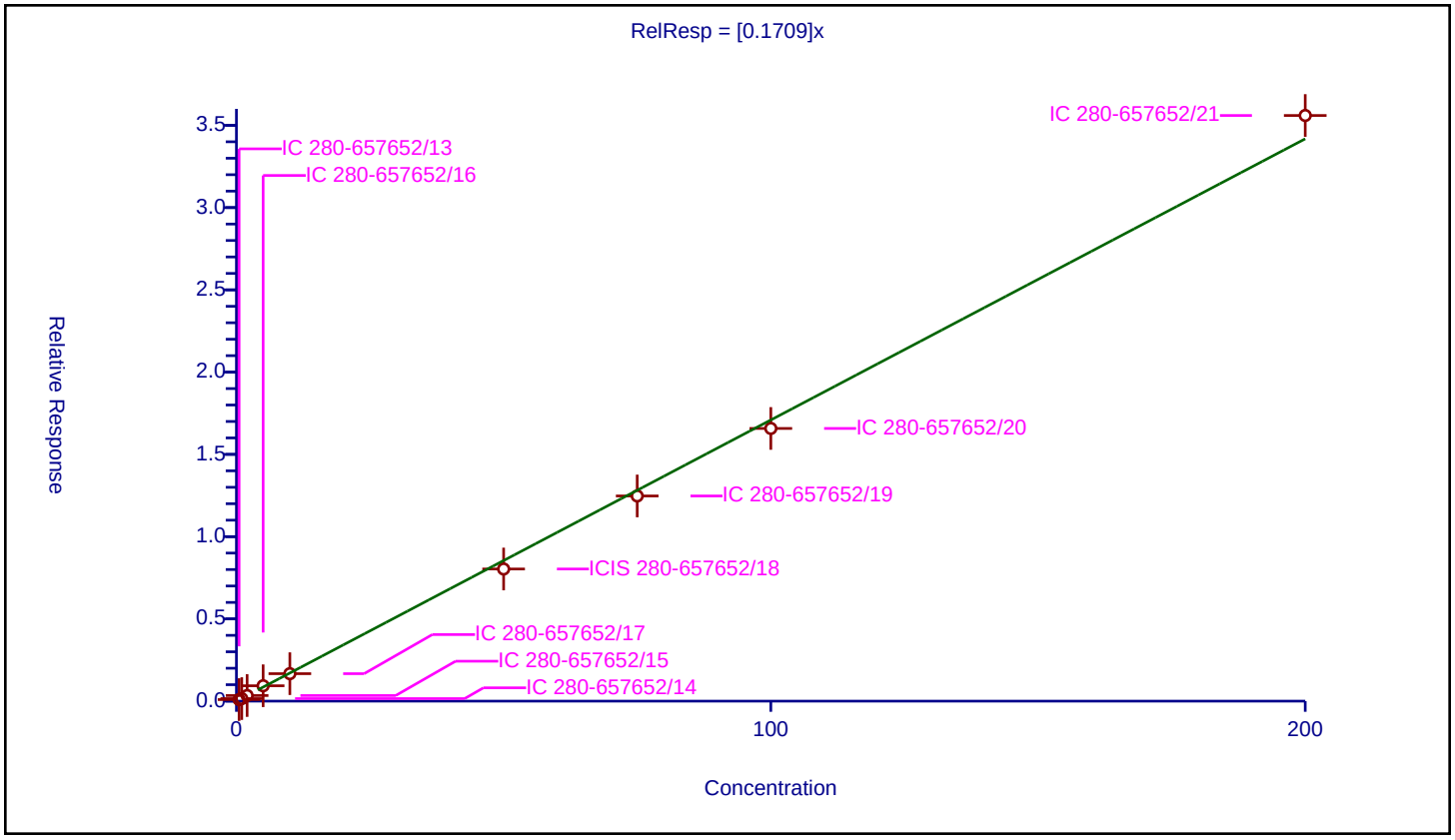
Curve Coefficients

Intercept:	0
Slope:	0.1709

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.09408	50.0	2154011.0	0.188161	Y
2	IC 280-657652/14	1.0	0.154552	50.0	2190855.0	0.154552	Y
3	IC 280-657652/15	2.0	0.341443	50.0	2169615.0	0.170722	Y
4	IC 280-657652/16	5.0	0.934939	50.0	2205330.0	0.186988	Y
5	IC 280-657652/17	10.0	1.670184	50.0	2262954.0	0.167018	Y
6	ICIS 280-657652/18	50.0	8.03203	50.0	2272296.0	0.160641	Y
7	IC 280-657652/19	75.0	12.470851	50.0	2338409.0	0.166278	Y
8	IC 280-657652/20	100.0	16.57511	50.0	2332808.0	0.165751	Y
9	IC 280-657652/21	200.0	35.59859	50.0	2367362.0	0.177993	Y



7/5/2024
11:14:22 AM

Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

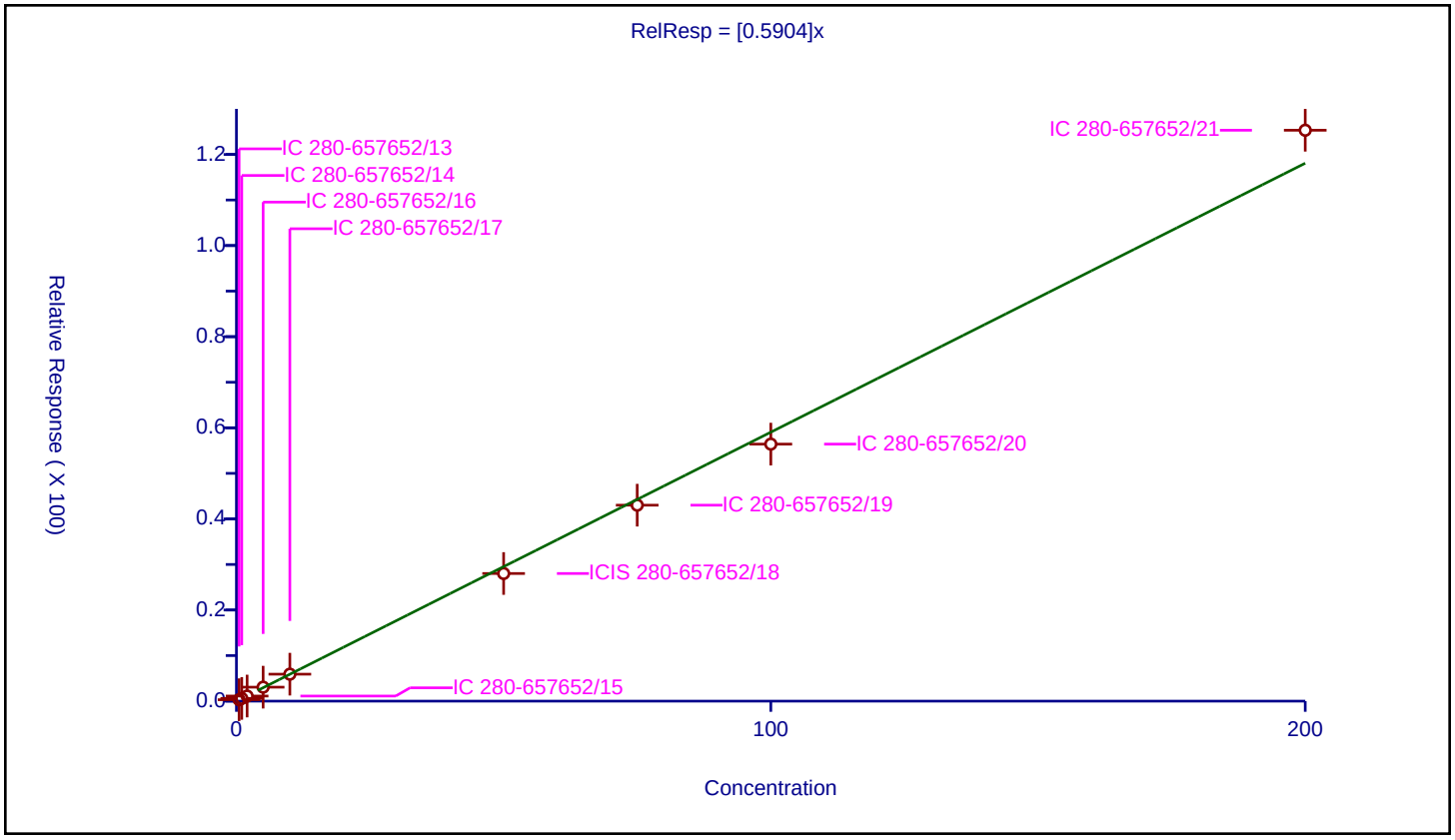
Curve Coefficients

Intercept:	0
Slope:	0.5904

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.313987	50.0	495243.0	0.627975	Y
2	IC 280-657652/14	1.0	0.596352	50.0	487883.0	0.596352	Y
3	IC 280-657652/15	2.0	1.117932	50.0	488715.0	0.558966	Y
4	IC 280-657652/16	5.0	3.066556	50.0	500692.0	0.613311	Y
5	IC 280-657652/17	10.0	5.919663	50.0	513340.0	0.591966	Y
6	ICIS 280-657652/18	50.0	28.020217	50.0	524805.0	0.560404	Y
7	IC 280-657652/19	75.0	43.014912	50.0	535004.0	0.573532	Y
8	IC 280-657652/20	100.0	56.421303	50.0	545380.0	0.564213	Y
9	IC 280-657652/21	200.0	125.313122	50.0	549626.0	0.626566	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

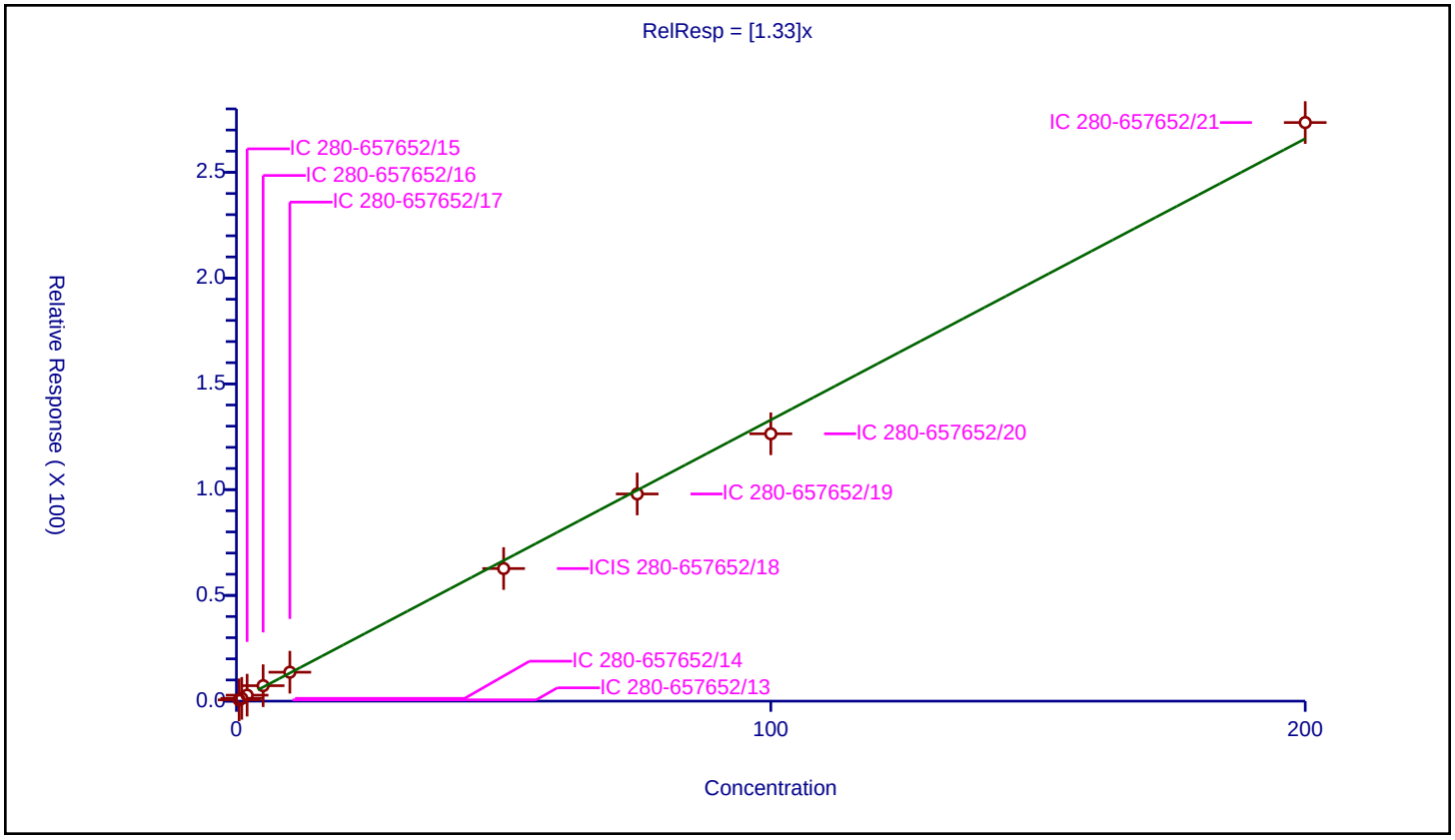
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.607984	50.0	495243.0	1.215969	Y
2	IC 280-657652/14	1.0	1.316094	50.0	487883.0	1.316094	Y
3	IC 280-657652/15	2.0	2.823425	50.0	488715.0	1.411712	Y
4	IC 280-657652/16	5.0	7.312679	50.0	500692.0	1.462536	Y
5	IC 280-657652/17	10.0	13.683231	50.0	513340.0	1.368323	Y
6	ICIS 280-657652/18	50.0	62.685474	50.0	524805.0	1.253709	Y
7	IC 280-657652/19	75.0	97.951324	50.0	535004.0	1.306018	Y
8	IC 280-657652/20	100.0	126.40425	50.0	545380.0	1.264043	Y
9	IC 280-657652/21	200.0	273.536186	50.0	549626.0	1.367681	Y



7/5/2024
11:14:22 AM

Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

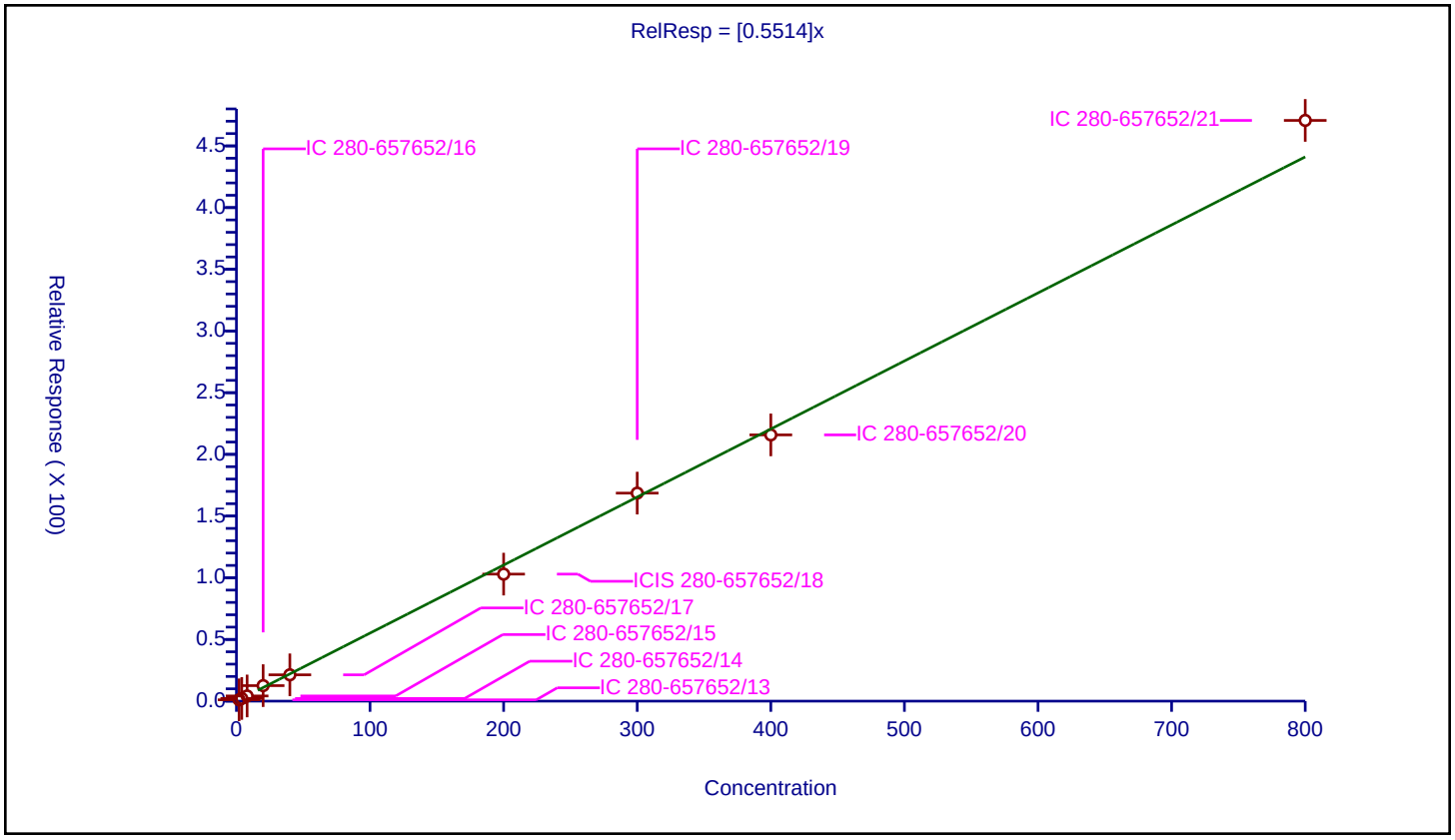
Curve Coefficients

Intercept:	0
Slope:	0.5514

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	2.0	1.059884	50.0	495243.0	0.529942	Y
2	IC 280-657652/14	4.0	2.166913	50.0	487883.0	0.541728	Y
3	IC 280-657652/15	8.0	4.189456	50.0	488715.0	0.523682	Y
4	IC 280-657652/16	20.0	12.581487	50.0	500692.0	0.629074	Y
5	IC 280-657652/17	40.0	21.341703	50.0	513340.0	0.533543	Y
6	ICIS 280-657652/18	200.0	102.953669	50.0	524805.0	0.514768	Y
7	IC 280-657652/19	300.0	168.599954	50.0	535004.0	0.562	Y
8	IC 280-657652/20	400.0	215.782757	50.0	545380.0	0.539457	Y
9	IC 280-657652/21	800.0	470.647222	50.0	549626.0	0.588309	Y



7/5/2024
11:14:22 AM

Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

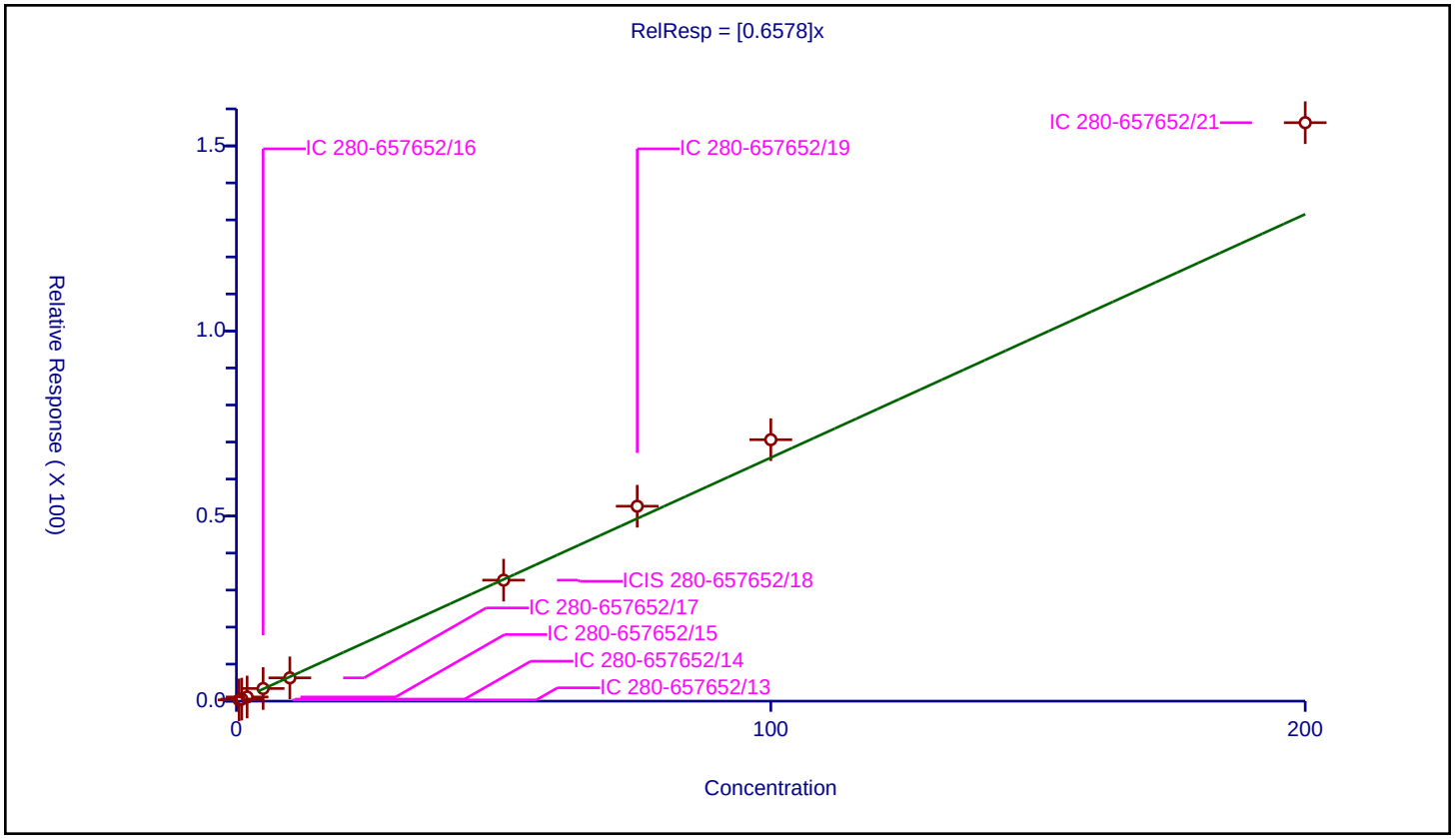
Curve Coefficients

Intercept:	0
Slope:	0.6578

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.324588	50.0	495243.0	0.649176	Y
2	IC 280-657652/14	1.0	0.552796	50.0	487883.0	0.552796	Y
3	IC 280-657652/15	2.0	1.125093	50.0	488715.0	0.562547	Y
4	IC 280-657652/16	5.0	3.410779	50.0	500692.0	0.682156	Y
5	IC 280-657652/17	10.0	6.29534	50.0	513340.0	0.629534	Y
6	ICIS 280-657652/18	50.0	32.686807	50.0	524805.0	0.653736	Y
7	IC 280-657652/19	75.0	52.661475	50.0	535004.0	0.702153	Y
8	IC 280-657652/20	100.0	70.632128	50.0	545380.0	0.706321	Y
9	IC 280-657652/21	200.0	156.274085	50.0	549626.0	0.78137	Y



7/5/2024
11:14:22 AM

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

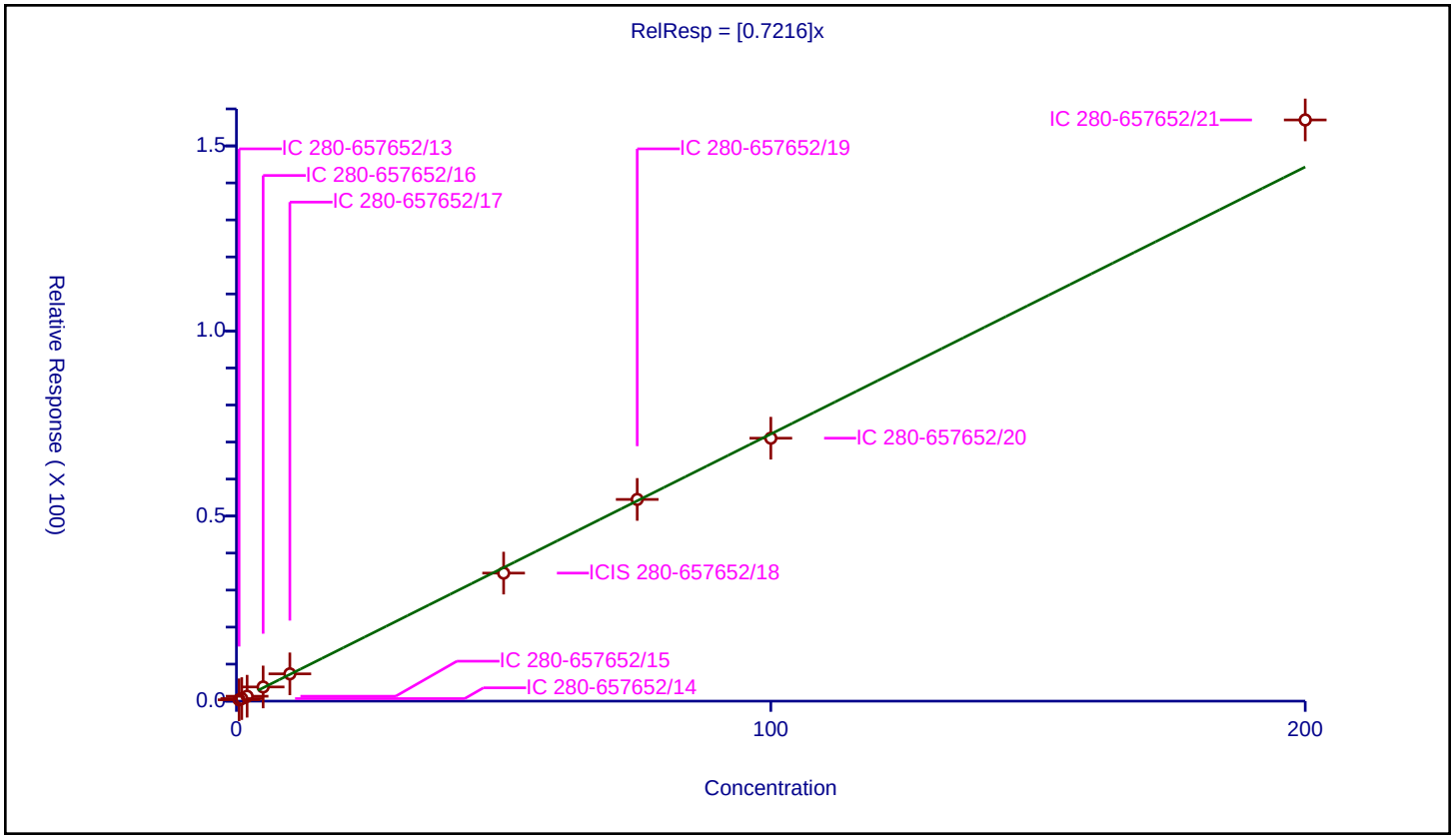
Curve Coefficients

Intercept:	0
Slope:	0.7216

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.363963	50.0	495243.0	0.727925	Y
2	IC 280-657652/14	1.0	0.686743	50.0	487883.0	0.686743	Y
3	IC 280-657652/15	2.0	1.324392	50.0	488715.0	0.662196	Y
4	IC 280-657652/16	5.0	3.830798	50.0	500692.0	0.76616	Y
5	IC 280-657652/17	10.0	7.372015	50.0	513340.0	0.737201	Y
6	ICIS 280-657652/18	50.0	34.592468	50.0	524805.0	0.691849	Y
7	IC 280-657652/19	75.0	54.494826	50.0	535004.0	0.726598	Y
8	IC 280-657652/20	100.0	71.03515	50.0	545380.0	0.710351	Y
9	IC 280-657652/21	200.0	157.015316	50.0	549626.0	0.785077	Y



7/5/2024
11:14:22 AM

Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

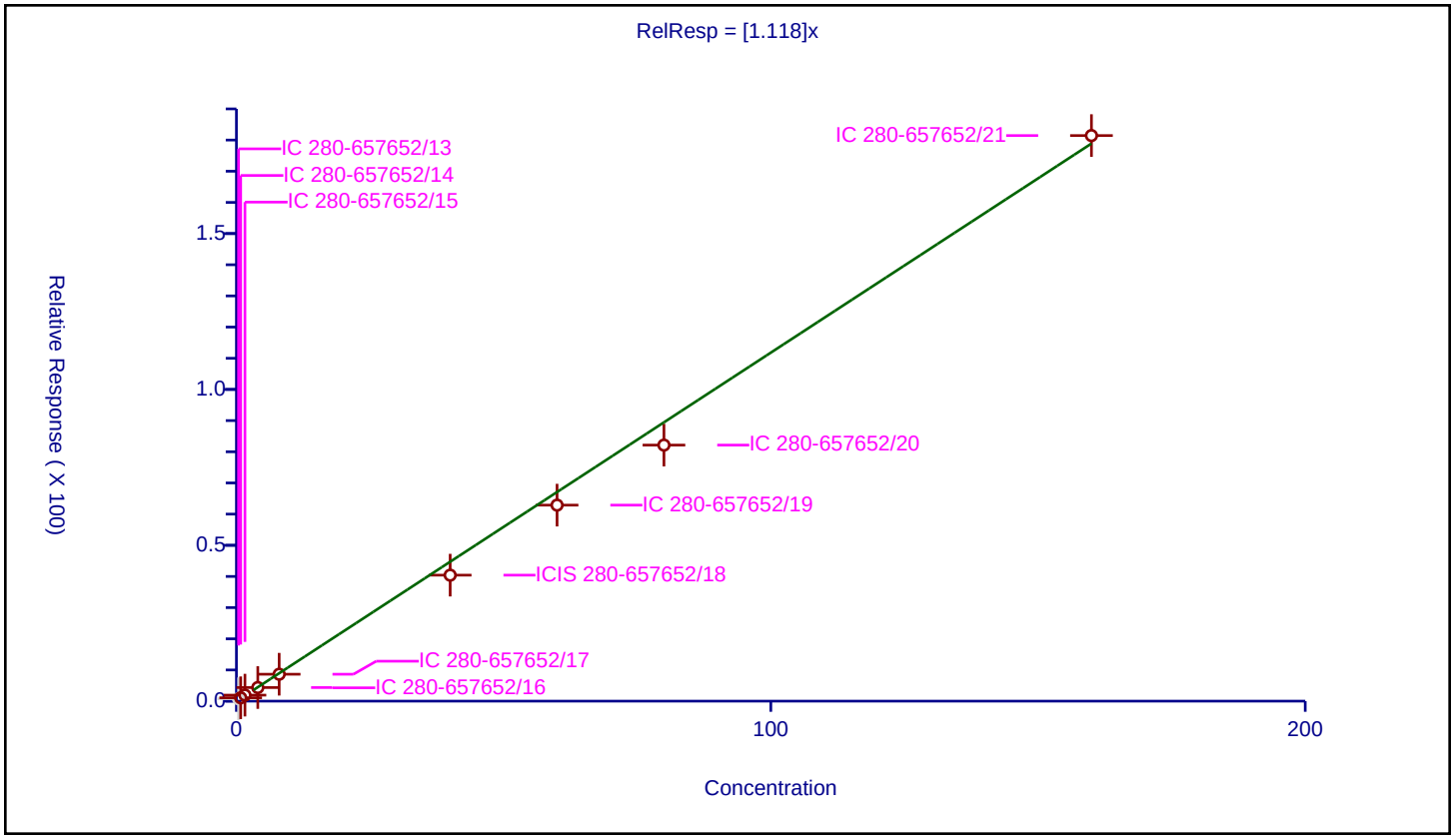
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.4	0.767401	50.0	495243.0	1.918503	N
2	IC 280-657652/14	0.8	1.081817	50.0	487883.0	1.352271	Y
3	IC 280-657652/15	1.6	1.924332	50.0	488715.0	1.202708	Y
4	IC 280-657652/16	4.0	4.359666	50.0	500692.0	1.089917	Y
5	IC 280-657652/17	8.0	8.63755	50.0	513340.0	1.079694	Y
6	ICIS 280-657652/18	40.0	40.415488	50.0	524805.0	1.010387	Y
7	IC 280-657652/19	60.0	62.887474	50.0	535004.0	1.048125	Y
8	IC 280-657652/20	80.0	82.140343	50.0	545380.0	1.026754	Y
9	IC 280-657652/21	160.0	181.441562	50.0	549626.0	1.13401	Y



7/5/2024
11:14:22 AM

Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

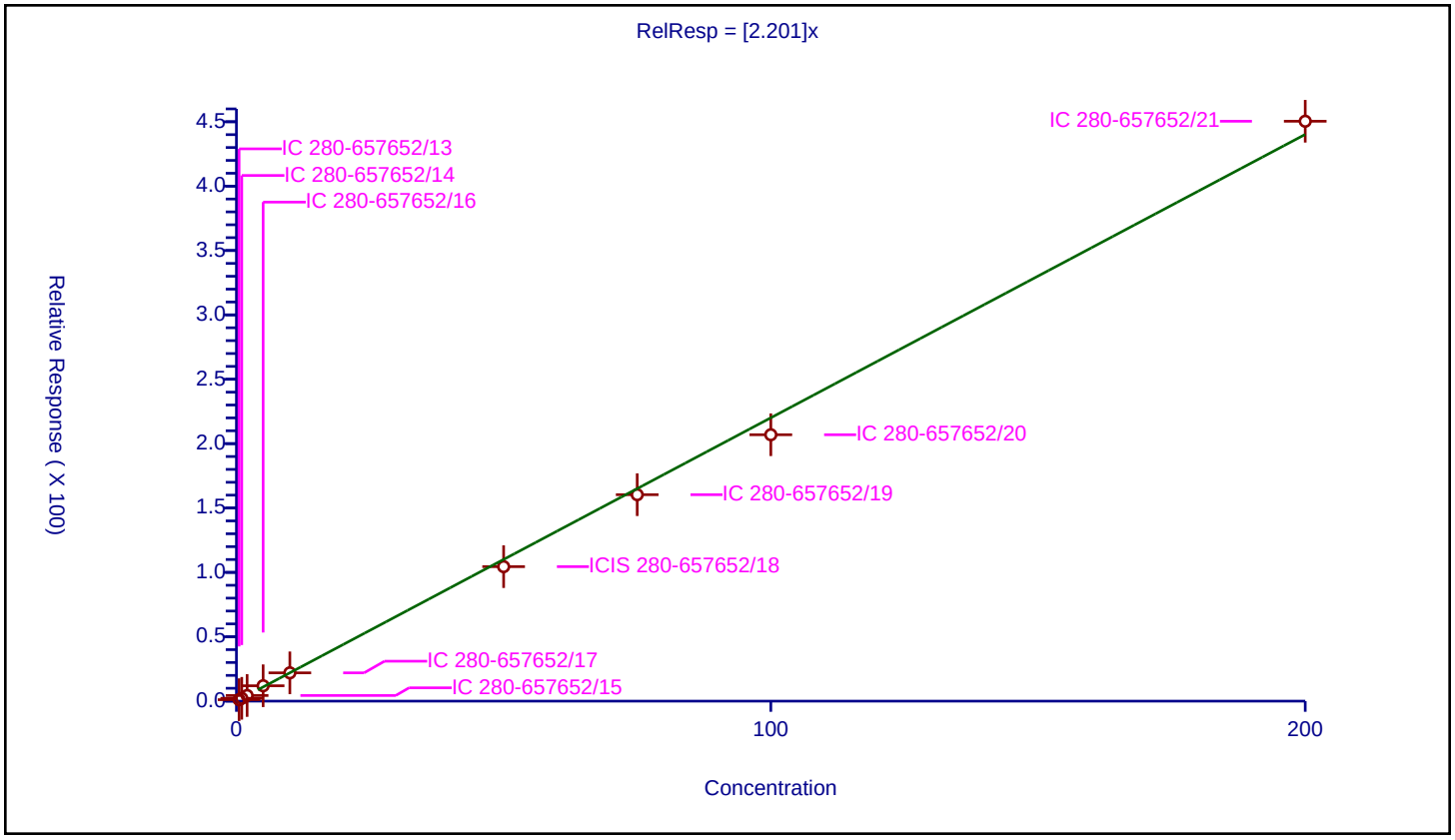
Curve Coefficients

Intercept:	0
Slope:	2.201

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	1.134191	50.0	495243.0	2.268381	Y
2	IC 280-657652/14	1.0	2.211493	50.0	487883.0	2.211493	Y
3	IC 280-657652/15	2.0	4.38456	50.0	488715.0	2.19228	Y
4	IC 280-657652/16	5.0	11.951659	50.0	500692.0	2.390332	Y
5	IC 280-657652/17	10.0	21.96926	50.0	513340.0	2.196926	Y
6	ICIS 280-657652/18	50.0	104.449653	50.0	524805.0	2.088993	Y
7	IC 280-657652/19	75.0	160.342539	50.0	535004.0	2.137901	Y
8	IC 280-657652/20	100.0	206.910961	50.0	545380.0	2.06911	Y
9	IC 280-657652/21	200.0	450.411098	50.0	549626.0	2.252055	Y



7/5/2024
11:14:22 AM

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

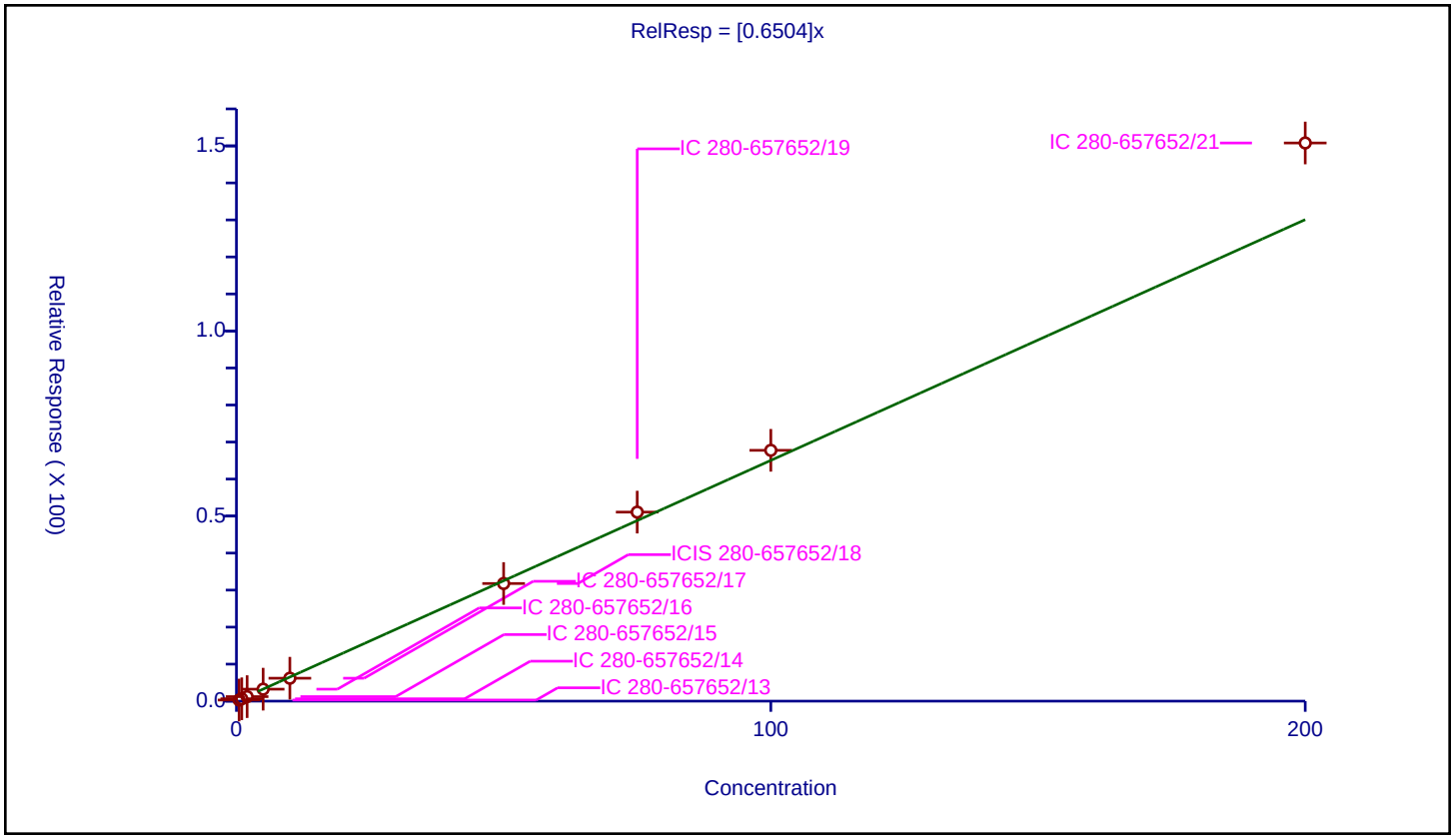
Curve Coefficients

Intercept:	0
Slope:	0.6504

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.297228	50.0	495243.0	0.594456	Y
2	IC 280-657652/14	1.0	0.636423	50.0	487883.0	0.636423	Y
3	IC 280-657652/15	2.0	1.218502	50.0	488715.0	0.609251	Y
4	IC 280-657652/16	5.0	3.231428	50.0	500692.0	0.646286	Y
5	IC 280-657652/17	10.0	6.193069	50.0	513340.0	0.619307	Y
6	ICIS 280-657652/18	50.0	31.777136	50.0	524805.0	0.635543	Y
7	IC 280-657652/19	75.0	51.065973	50.0	535004.0	0.68088	Y
8	IC 280-657652/20	100.0	67.765961	50.0	545380.0	0.67766	Y
9	IC 280-657652/21	200.0	150.790538	50.0	549626.0	0.753953	Y



7/5/2024
11:14:22 AM

Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

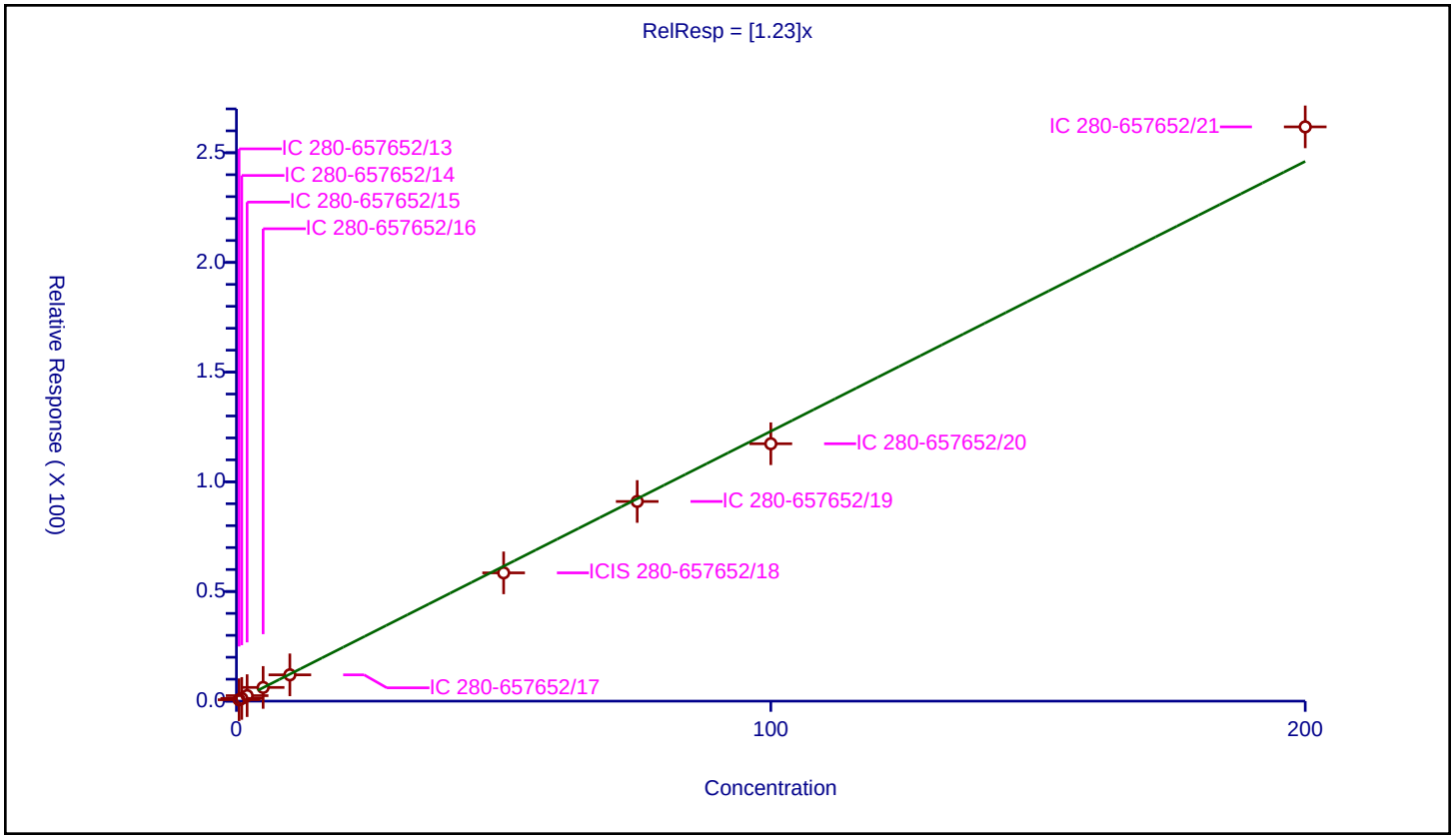
Curve Coefficients

Intercept:	0
Slope:	1.23

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.637465	50.0	495243.0	1.27493	Y
2	IC 280-657652/14	1.0	1.232775	50.0	487883.0	1.232775	Y
3	IC 280-657652/15	2.0	2.501867	50.0	488715.0	1.250934	Y
4	IC 280-657652/16	5.0	6.247454	50.0	500692.0	1.249491	Y
5	IC 280-657652/17	10.0	11.988546	50.0	513340.0	1.198855	Y
6	ICIS 280-657652/18	50.0	58.485056	50.0	524805.0	1.169701	Y
7	IC 280-657652/19	75.0	91.028011	50.0	535004.0	1.213707	Y
8	IC 280-657652/20	100.0	117.346529	50.0	545380.0	1.173465	Y
9	IC 280-657652/21	200.0	261.809212	50.0	549626.0	1.309046	Y



7/5/2024
11:14:22 AM

Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

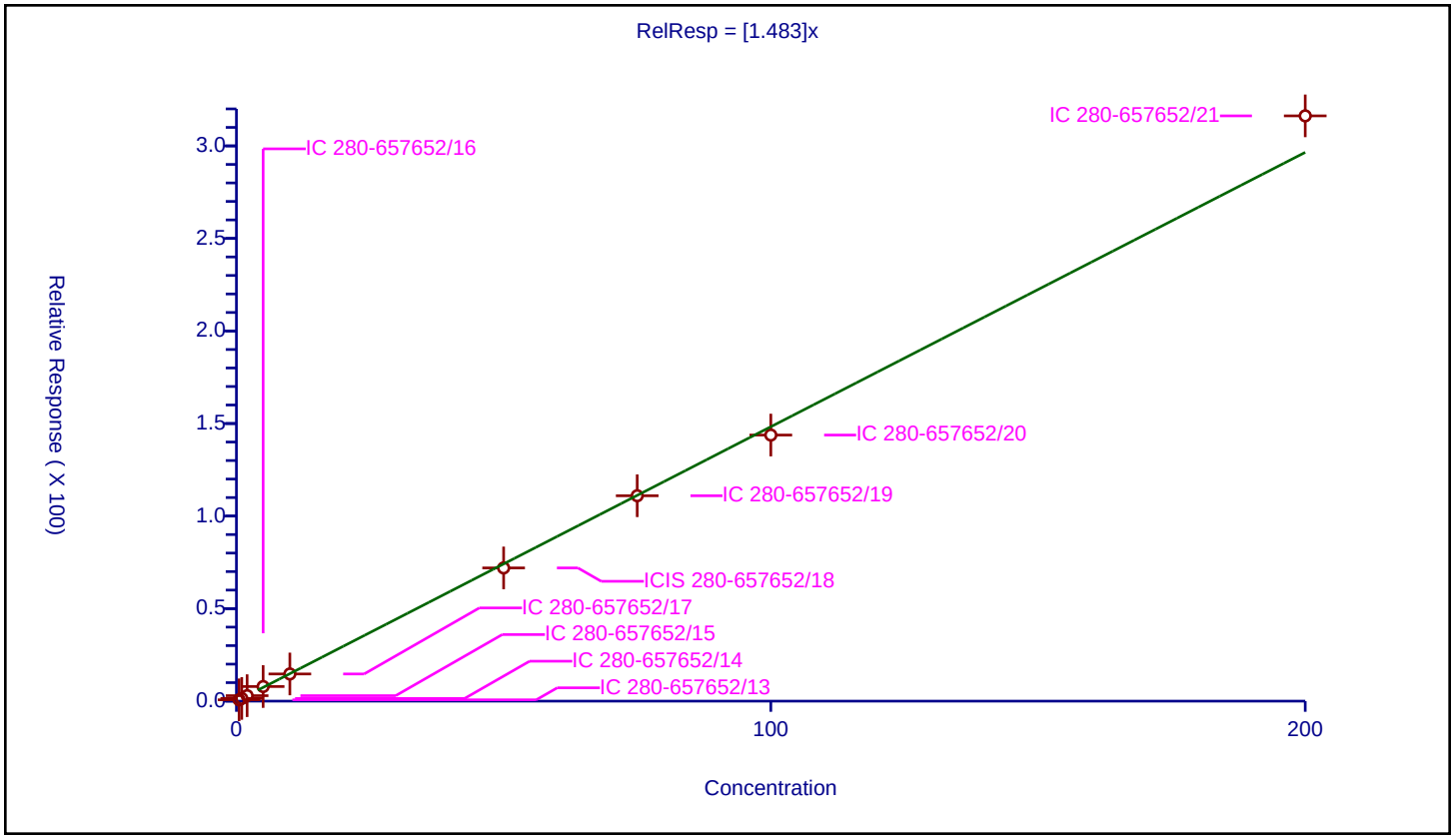
Curve Coefficients

Intercept:	0
Slope:	1.483

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.707027	50.0	495243.0	1.414053	Y
2	IC 280-657652/14	1.0	1.463876	50.0	487883.0	1.463876	Y
3	IC 280-657652/15	2.0	2.961849	50.0	488715.0	1.480924	Y
4	IC 280-657652/16	5.0	7.89008	50.0	500692.0	1.578016	Y
5	IC 280-657652/17	10.0	14.683153	50.0	513340.0	1.468315	Y
6	ICIS 280-657652/18	50.0	71.975496	50.0	524805.0	1.43951	Y
7	IC 280-657652/19	75.0	110.97132	50.0	535004.0	1.479618	Y
8	IC 280-657652/20	100.0	143.769574	50.0	545380.0	1.437696	Y
9	IC 280-657652/21	200.0	316.229945	50.0	549626.0	1.58115	Y



7/5/2024
11:14:22 AM

Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

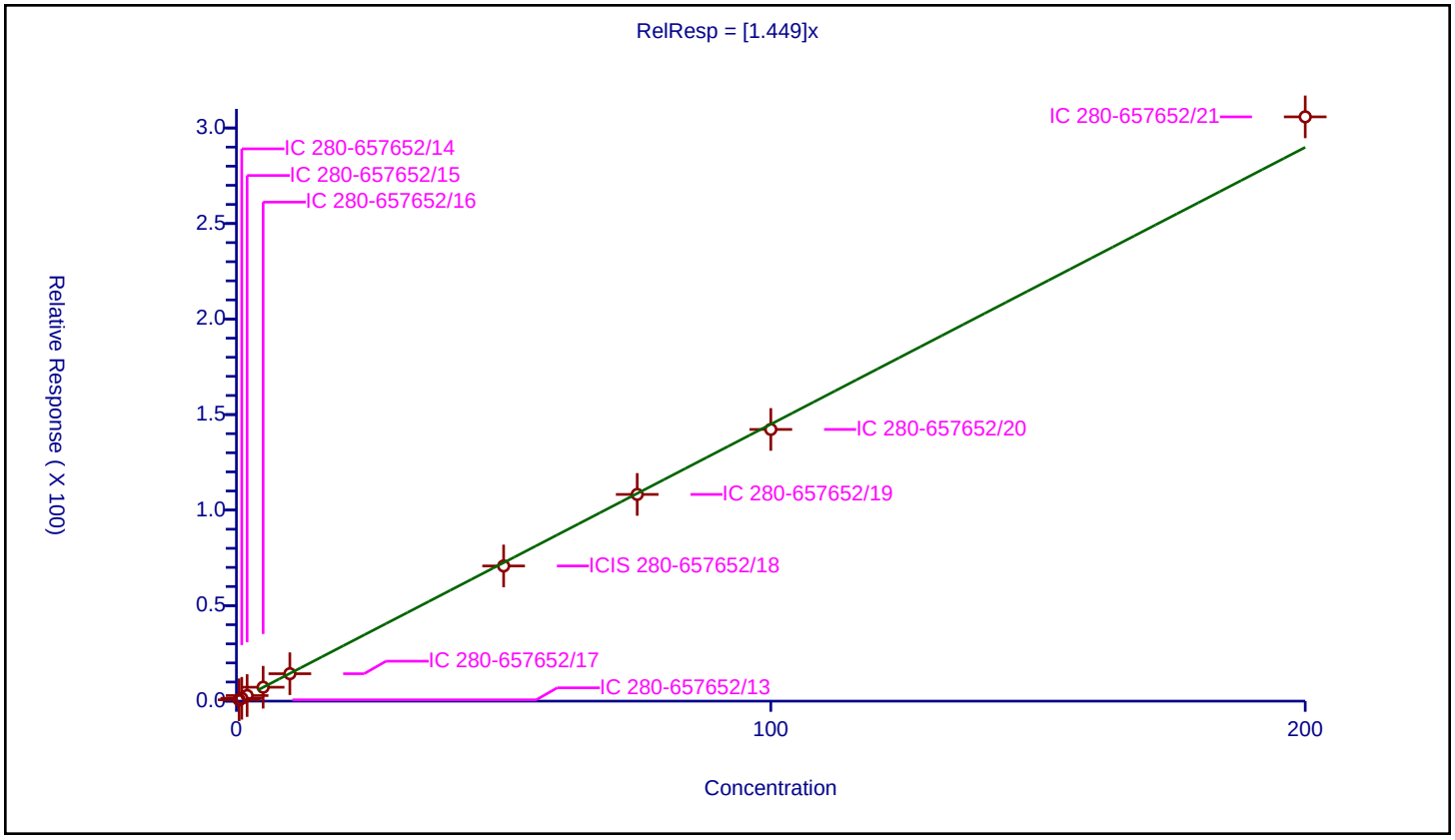
Curve Coefficients

Intercept:	0
Slope:	1.449

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.69582	50.0	495243.0	1.39164	Y
2	IC 280-657652/14	1.0	1.489394	50.0	487883.0	1.489394	Y
3	IC 280-657652/15	2.0	2.926757	50.0	488715.0	1.463378	Y
4	IC 280-657652/16	5.0	7.278527	50.0	500692.0	1.455705	Y
5	IC 280-657652/17	10.0	14.353255	50.0	513340.0	1.435326	Y
6	ICIS 280-657652/18	50.0	70.75428	50.0	524805.0	1.415086	Y
7	IC 280-657652/19	75.0	108.200873	50.0	535004.0	1.442678	Y
8	IC 280-657652/20	100.0	142.222579	50.0	545380.0	1.422226	Y
9	IC 280-657652/21	200.0	305.836878	50.0	549626.0	1.529184	Y



7/5/2024
11:14:22 AM

Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

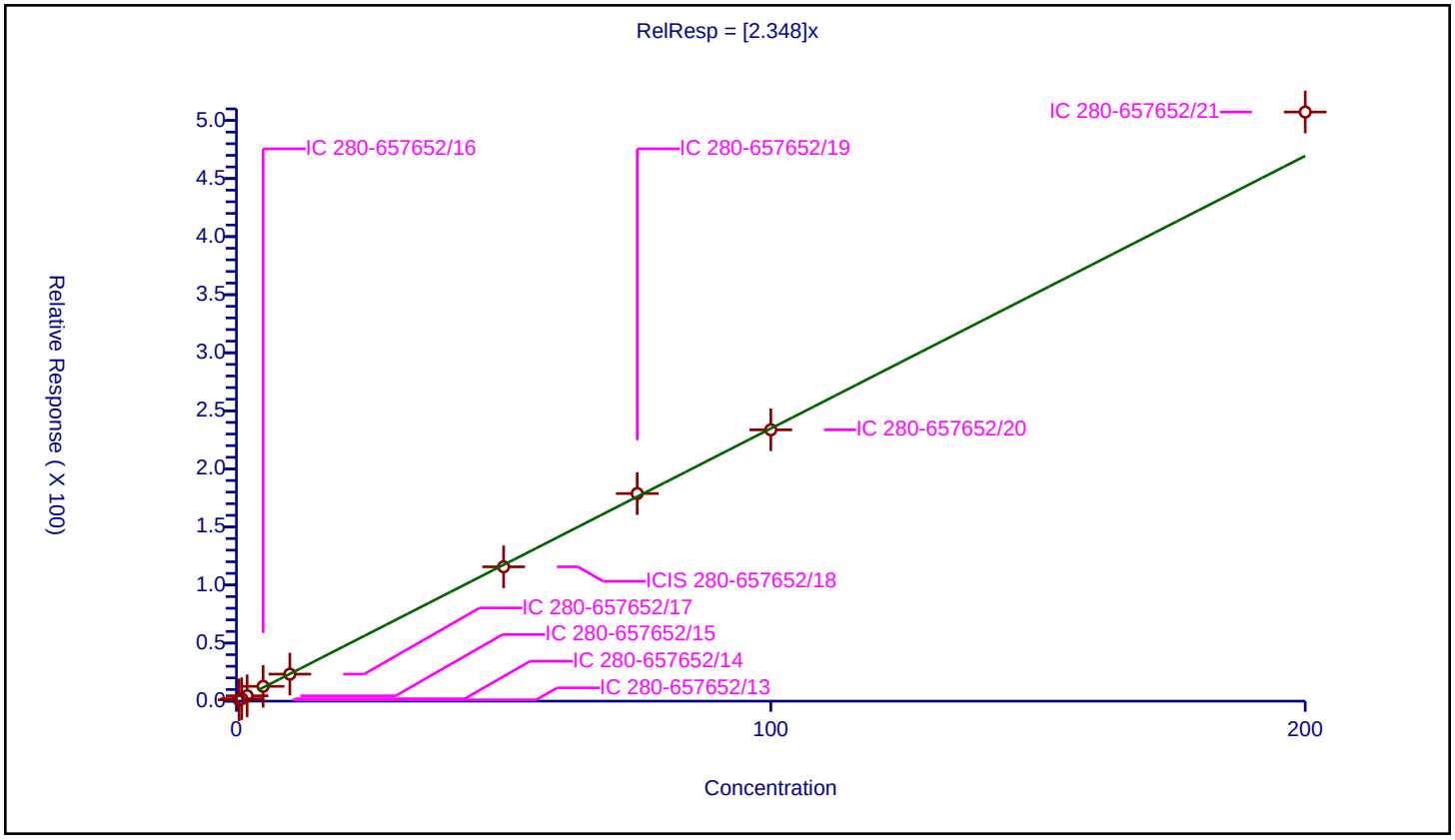
Curve Coefficients

Intercept:	0
Slope:	2.348

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	1.163772	50.0	495243.0	2.327544	Y
2	IC 280-657652/14	1.0	2.05828	50.0	487883.0	2.05828	Y
3	IC 280-657652/15	2.0	4.595623	50.0	488715.0	2.297812	Y
4	IC 280-657652/16	5.0	12.737771	50.0	500692.0	2.547554	Y
5	IC 280-657652/17	10.0	23.265672	50.0	513340.0	2.326567	Y
6	ICIS 280-657652/18	50.0	115.679157	50.0	524805.0	2.313583	Y
7	IC 280-657652/19	75.0	178.789504	50.0	535004.0	2.38386	Y
8	IC 280-657652/20	100.0	233.627654	50.0	545380.0	2.336277	Y
9	IC 280-657652/21	200.0	507.284772	50.0	549626.0	2.536424	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

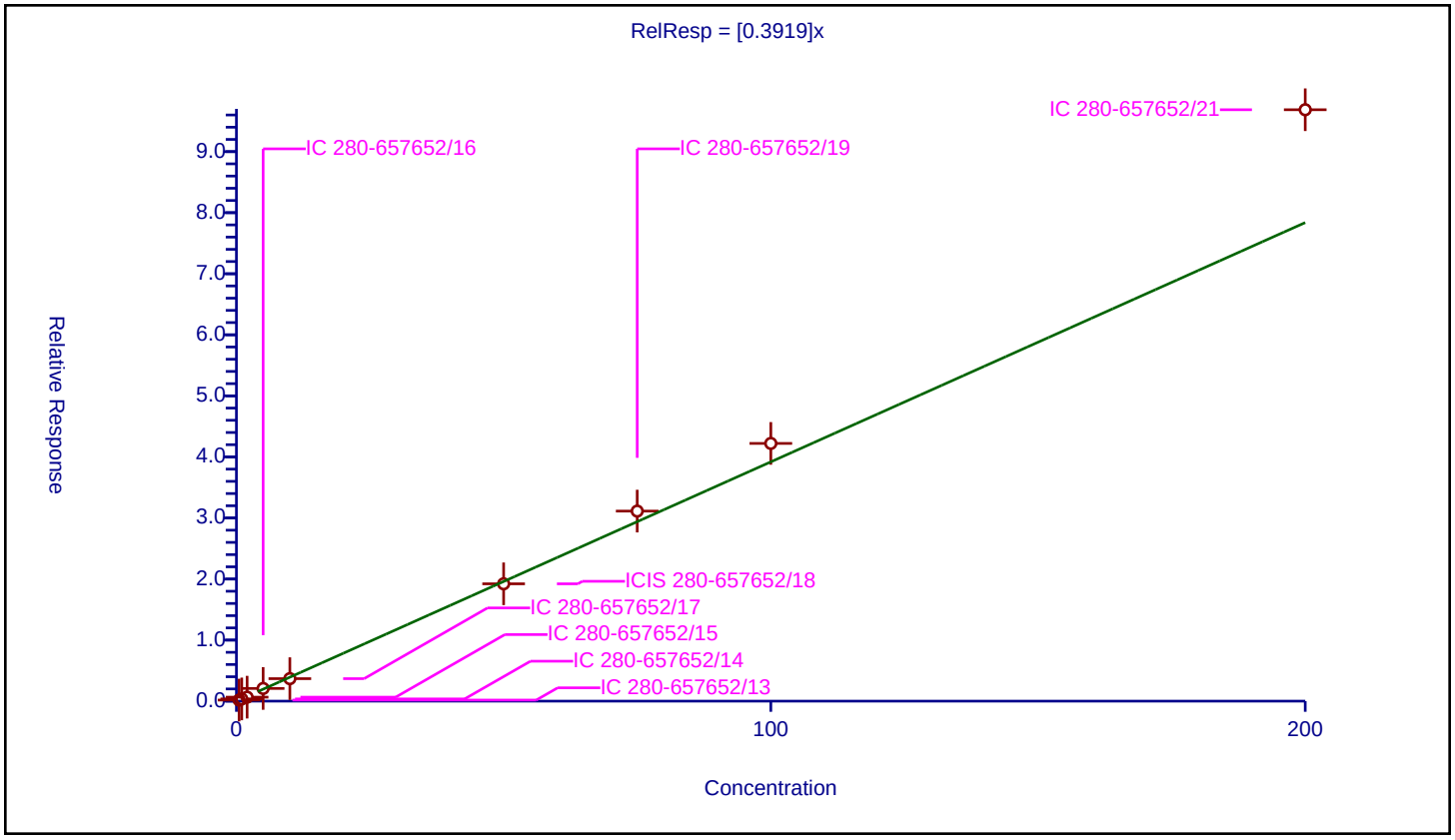
Curve Coefficients

Intercept:	0
Slope:	0.3919

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.174662	50.0	495243.0	0.349323	Y
2	IC 280-657652/14	1.0	0.362689	50.0	487883.0	0.362689	Y
3	IC 280-657652/15	2.0	0.650993	50.0	488715.0	0.325496	Y
4	IC 280-657652/16	5.0	2.077225	50.0	500692.0	0.415445	Y
5	IC 280-657652/17	10.0	3.683816	50.0	513340.0	0.368382	Y
6	ICIS 280-657652/18	50.0	19.21609	50.0	524805.0	0.384322	Y
7	IC 280-657652/19	75.0	31.126309	50.0	535004.0	0.415017	Y
8	IC 280-657652/20	100.0	42.21066	50.0	545380.0	0.422107	Y
9	IC 280-657652/21	200.0	96.860411	50.0	549626.0	0.484302	Y



7/5/2024
11:14:22 AM

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

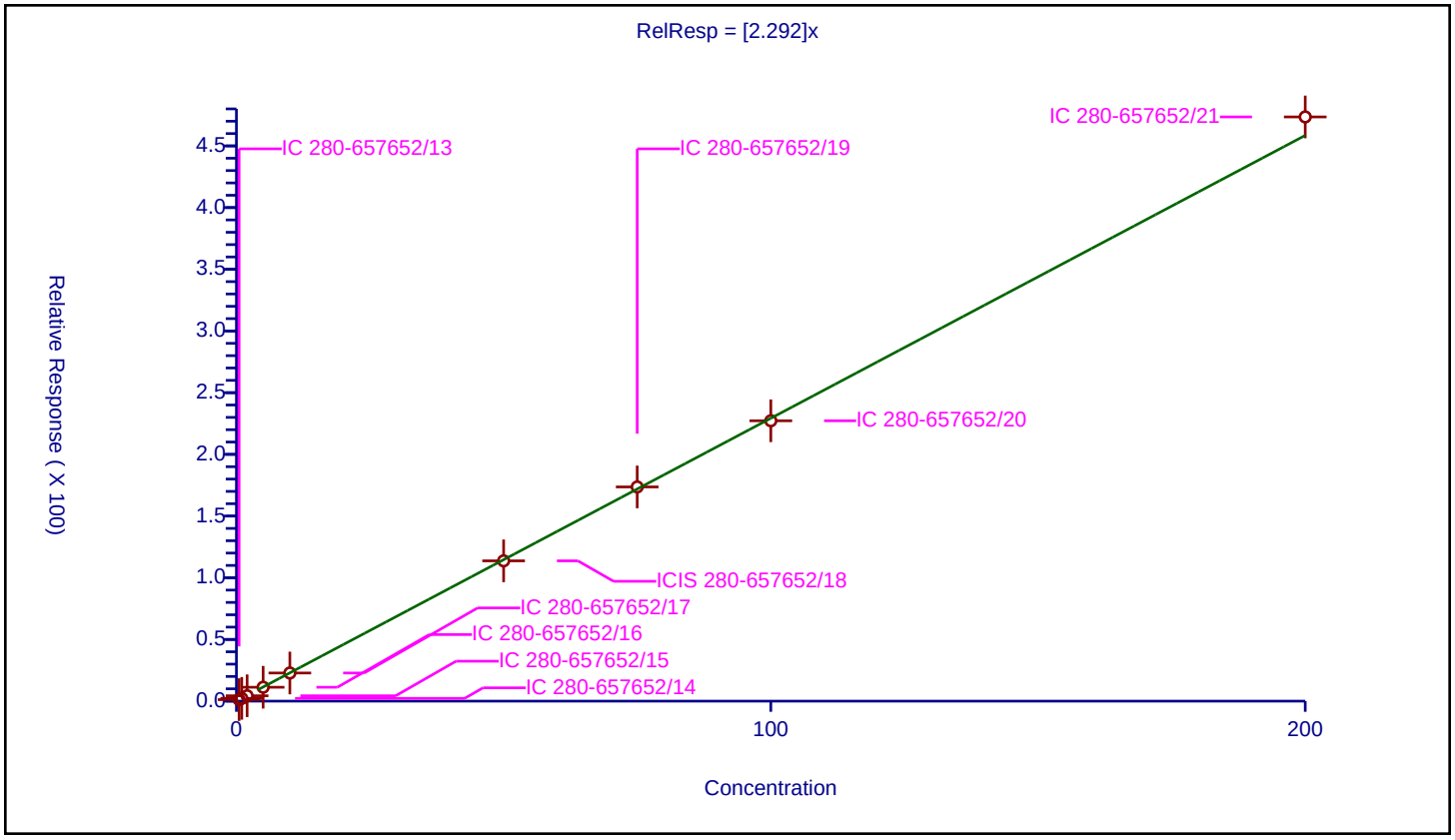
Curve Coefficients

Intercept:	0
Slope:	2.292

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	1.224141	50.0	748484.0	2.448282	Y
2	IC 280-657652/14	1.0	2.251886	50.0	766069.0	2.251886	Y
3	IC 280-657652/15	2.0	4.339254	50.0	774776.0	2.169627	Y
4	IC 280-657652/16	5.0	11.26196	50.0	796824.0	2.252392	Y
5	IC 280-657652/17	10.0	22.815722	50.0	797071.0	2.281572	Y
6	ICIS 280-657652/18	50.0	113.707995	50.0	803863.0	2.27416	Y
7	IC 280-657652/19	75.0	173.607332	50.0	832377.0	2.314764	Y
8	IC 280-657652/20	100.0	227.23337	50.0	835934.0	2.272334	Y
9	IC 280-657652/21	200.0	473.483863	50.0	857970.0	2.367419	Y



7/5/2024
11:14:22 AM

Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

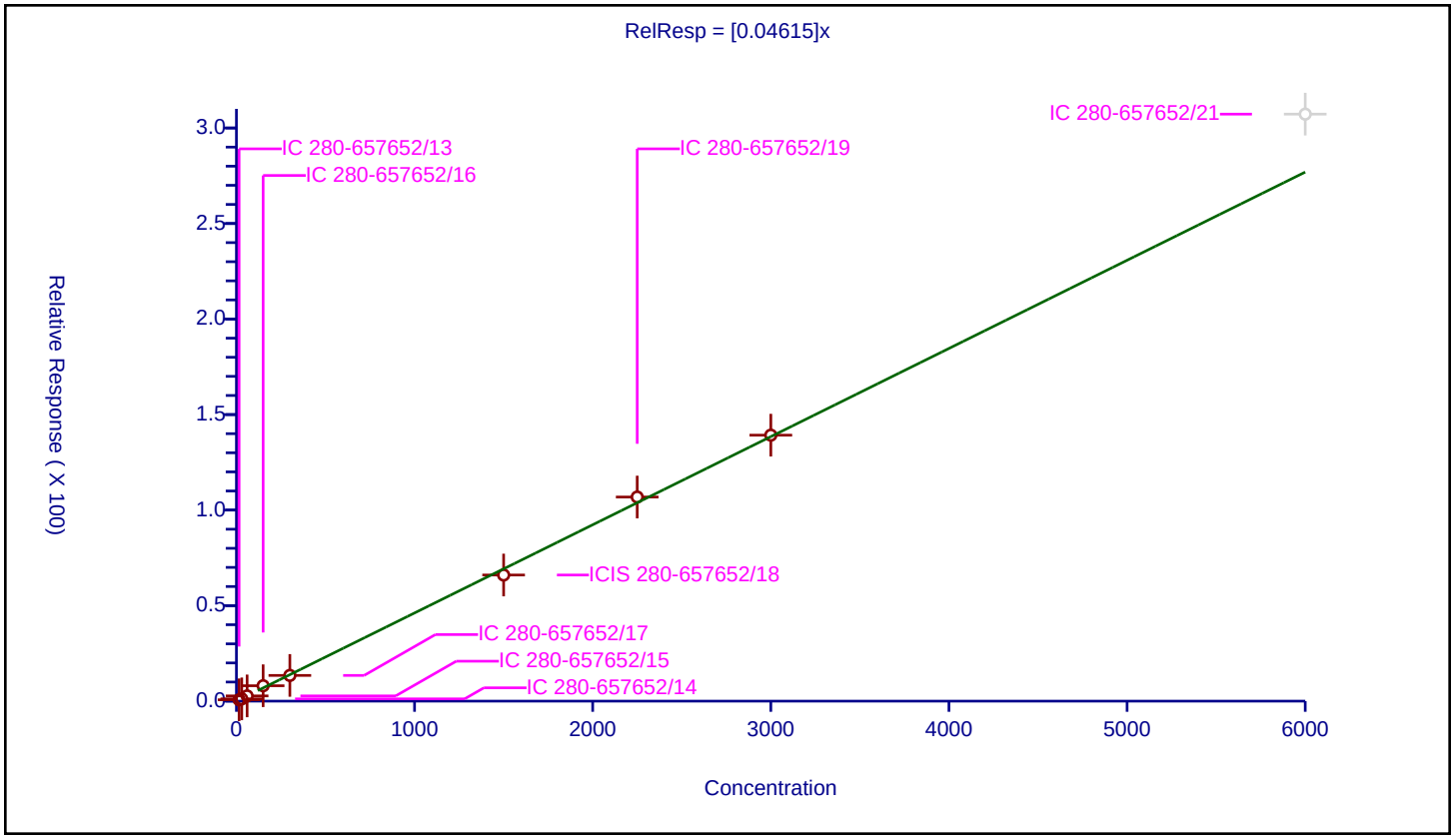
Curve Coefficients

Intercept:	0
Slope:	0.04615

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	15.0	0.707632	50.0	495243.0	0.047175	Y
2	IC 280-657652/14	30.0	1.197213	50.0	487883.0	0.039907	Y
3	IC 280-657652/15	60.0	2.736462	50.0	488715.0	0.045608	Y
4	IC 280-657652/16	150.0	8.061743	50.0	500692.0	0.053745	Y
5	IC 280-657652/17	300.0	13.463299	50.0	513340.0	0.044878	Y
6	ICIS 280-657652/18	1500.0	66.022808	50.0	524805.0	0.044015	Y
7	IC 280-657652/19	2250.0	106.838454	50.0	535004.0	0.047484	Y
8	IC 280-657652/20	3000.0	139.221919	50.0	545380.0	0.046407	Y
9	IC 280-657652/21	6000.0	307.25184	50.0	549626.0	0.051209	N



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

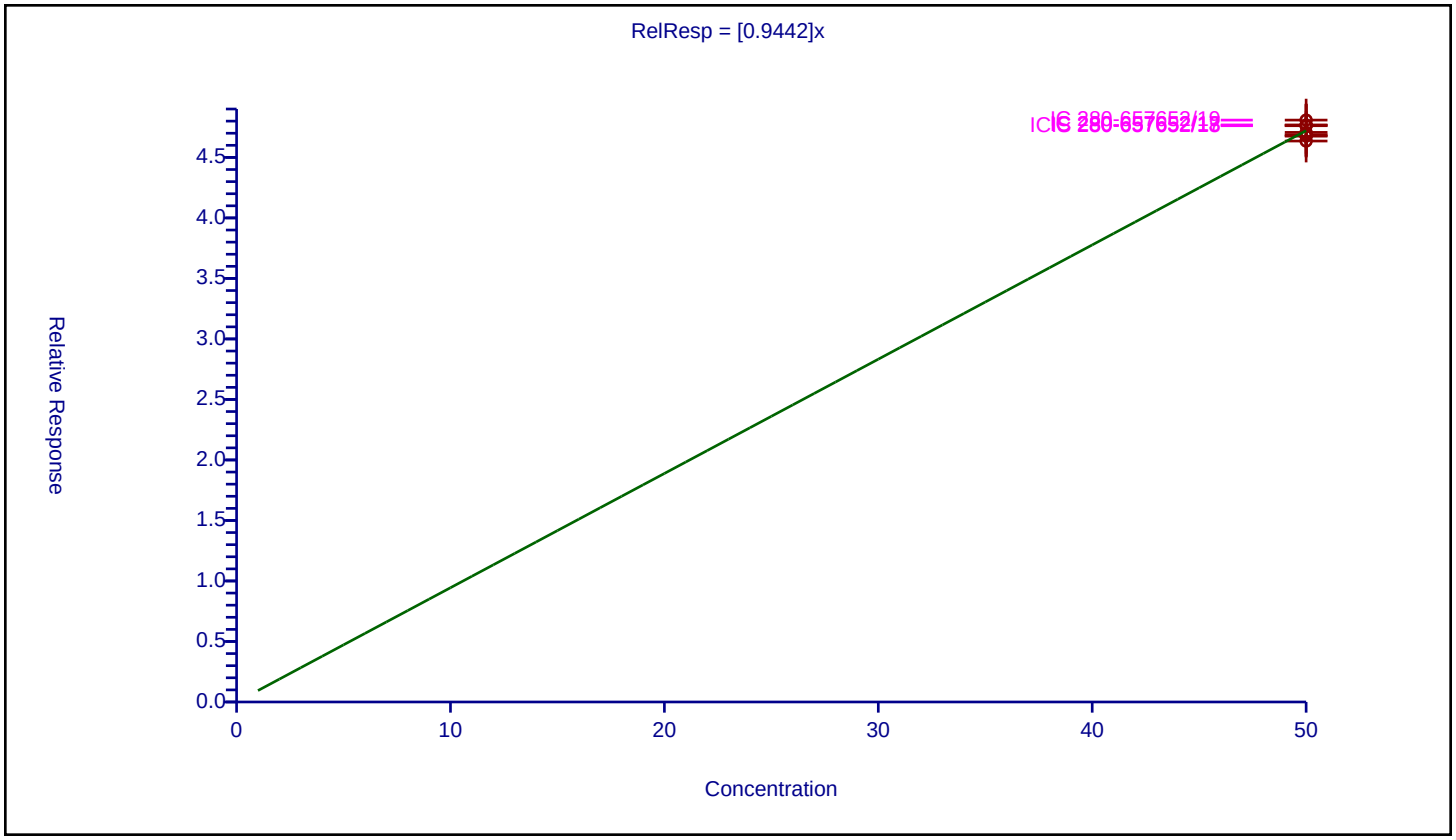
Curve Coefficients

Intercept:	0
Slope:	0.9442

Error Coefficients

Relative Standard Deviation:	1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	50.0	47.682916	50.0	748484.0	0.953658	Y
2	IC 280-657652/14	50.0	46.790041	50.0	766069.0	0.935801	Y
3	IC 280-657652/15	50.0	46.878711	50.0	774776.0	0.937574	Y
4	IC 280-657652/16	50.0	46.760953	50.0	796824.0	0.935219	Y
5	IC 280-657652/17	50.0	47.656169	50.0	797071.0	0.953123	Y
6	ICIS 280-657652/18	50.0	47.617256	50.0	803863.0	0.952345	Y
7	IC 280-657652/19	50.0	48.084522	50.0	832377.0	0.96169	Y
8	IC 280-657652/20	50.0	47.069027	50.0	835934.0	0.941381	Y
9	IC 280-657652/21	50.0	46.354476	50.0	857970.0	0.92709	Y



7/5/2024
11:14:22 AM

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

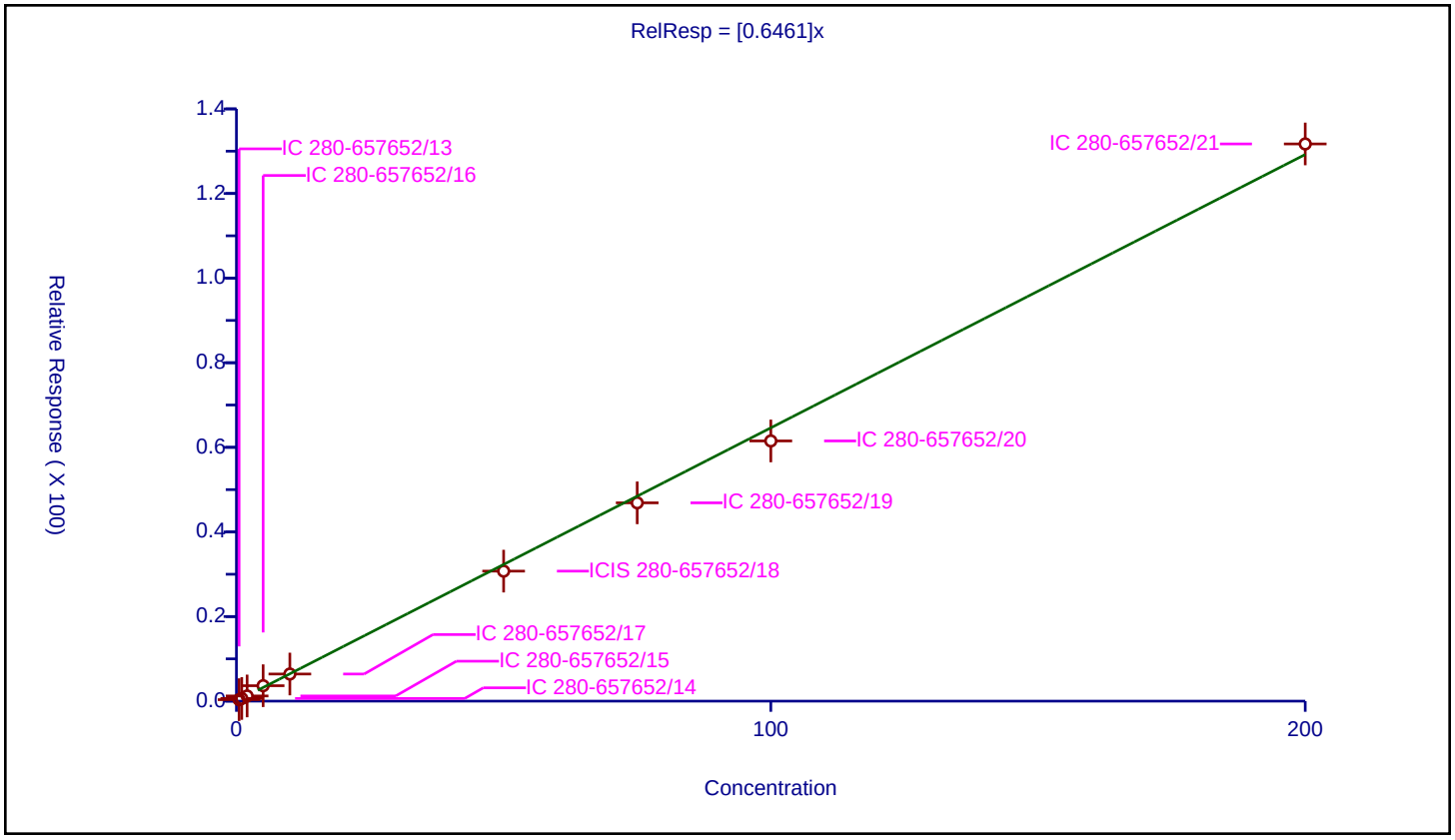
Curve Coefficients

Intercept:	0
Slope:	0.6461

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.347502	50.0	748484.0	0.695005	Y
2	IC 280-657652/14	1.0	0.62416	50.0	766069.0	0.62416	Y
3	IC 280-657652/15	2.0	1.221966	50.0	774776.0	0.610983	Y
4	IC 280-657652/16	5.0	3.64999	50.0	796824.0	0.729998	Y
5	IC 280-657652/17	10.0	6.411035	50.0	797071.0	0.641103	Y
6	ICIS 280-657652/18	50.0	30.735648	50.0	803863.0	0.614713	Y
7	IC 280-657652/19	75.0	46.878758	50.0	832377.0	0.62505	Y
8	IC 280-657652/20	100.0	61.511196	50.0	835934.0	0.615112	Y
9	IC 280-657652/21	200.0	131.712298	50.0	857970.0	0.658561	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

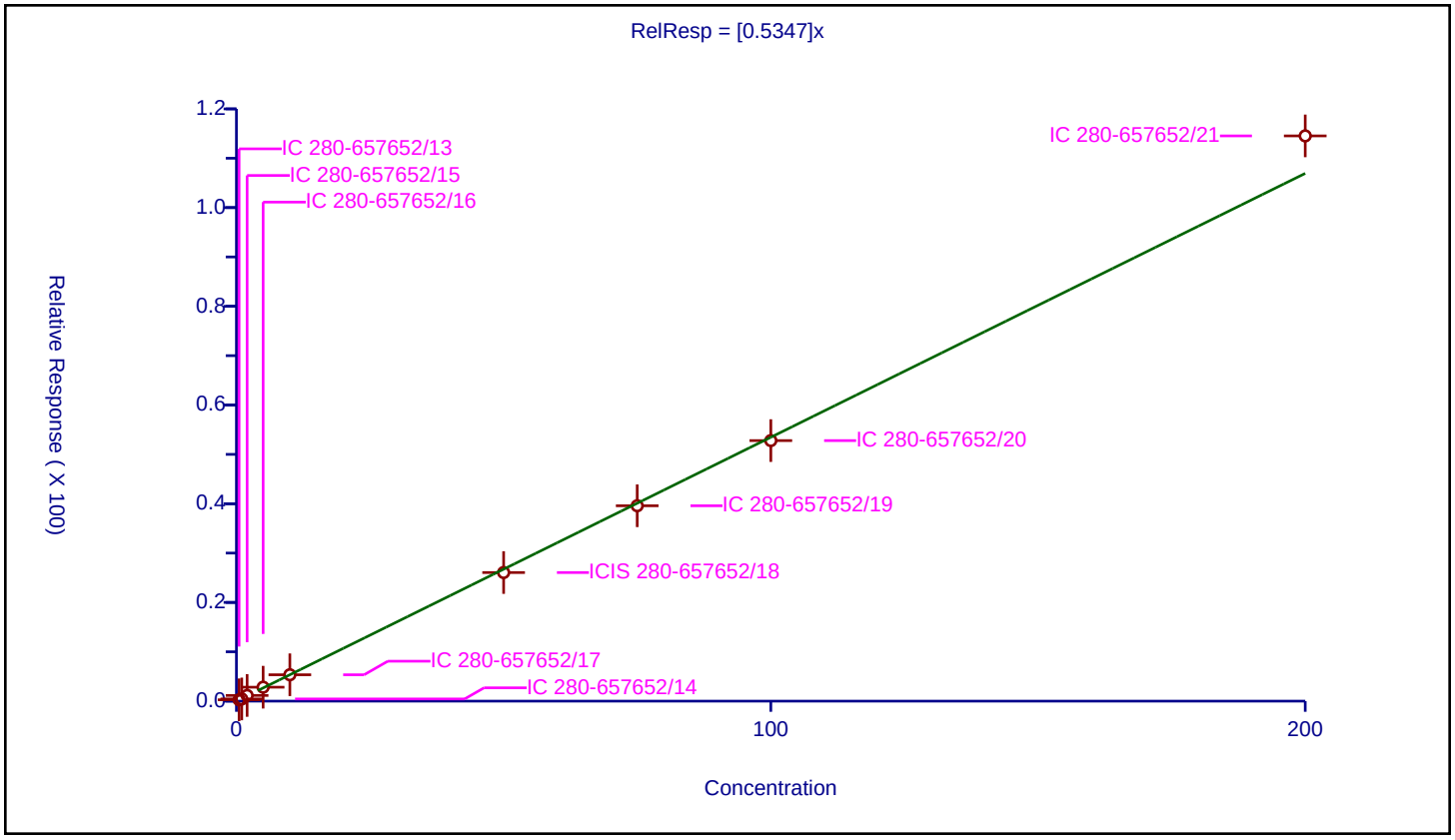
Curve Coefficients

Intercept:	0
Slope:	0.5347

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.271148	50.0	748484.0	0.542296	Y
2	IC 280-657652/14	1.0	0.444803	50.0	766069.0	0.444803	Y
3	IC 280-657652/15	2.0	1.151236	50.0	774776.0	0.575618	Y
4	IC 280-657652/16	5.0	2.825781	50.0	796824.0	0.565156	Y
5	IC 280-657652/17	10.0	5.345321	50.0	797071.0	0.534532	Y
6	ICIS 280-657652/18	50.0	26.057612	50.0	803863.0	0.521152	Y
7	IC 280-657652/19	75.0	39.584407	50.0	832377.0	0.527792	Y
8	IC 280-657652/20	100.0	52.791907	50.0	835934.0	0.527919	Y
9	IC 280-657652/21	200.0	114.530053	50.0	857970.0	0.57265	Y



7/5/2024
11:14:22 AM

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

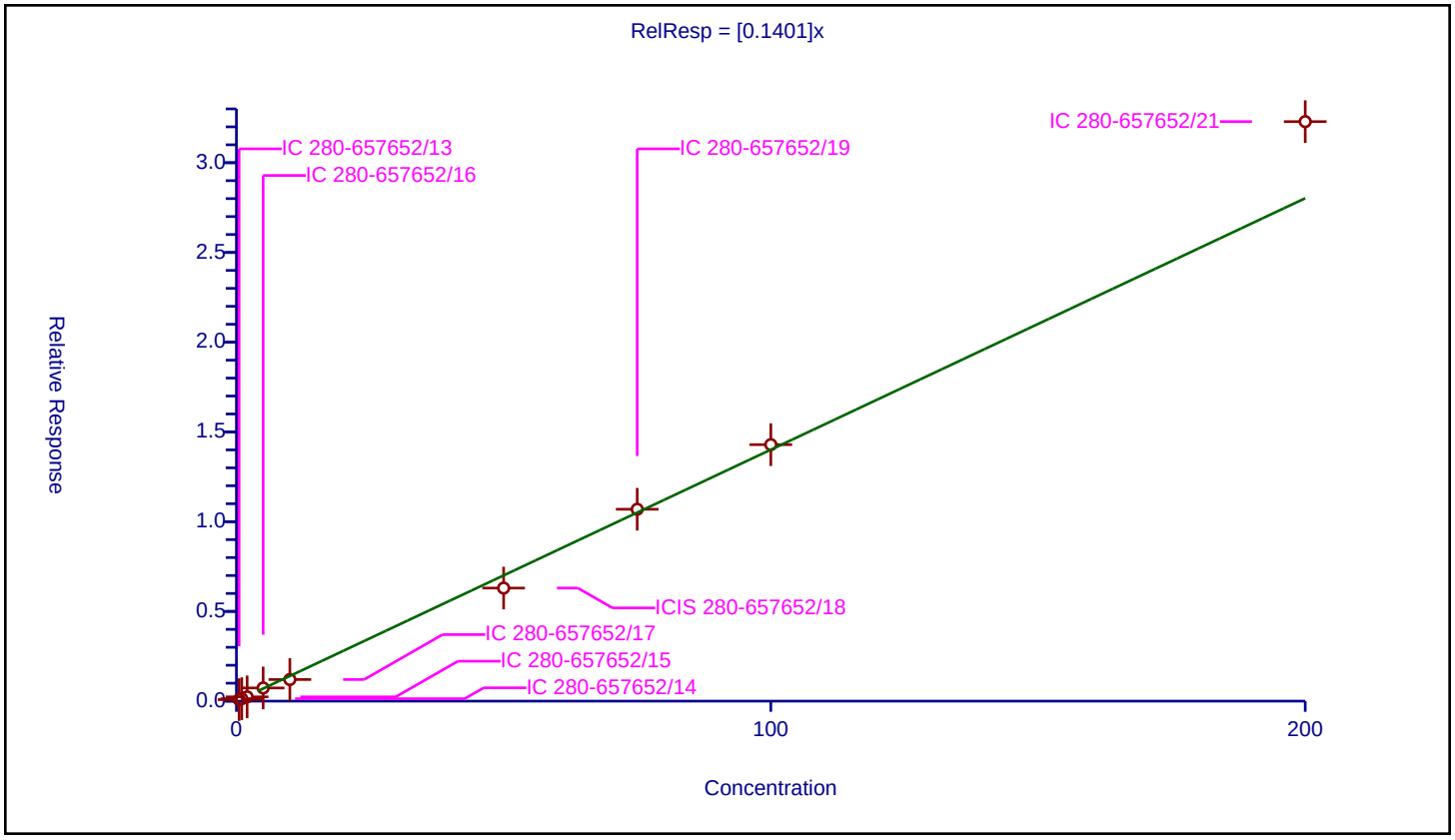
Curve Coefficients

Intercept:	0
Slope:	0.1401

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.083369	50.0	748484.0	0.166737	Y
2	IC 280-657652/14	1.0	0.135236	50.0	766069.0	0.135236	Y
3	IC 280-657652/15	2.0	0.237682	50.0	774776.0	0.118841	Y
4	IC 280-657652/16	5.0	0.733976	50.0	796824.0	0.146795	Y
5	IC 280-657652/17	10.0	1.203657	50.0	797071.0	0.120366	Y
6	ICIS 280-657652/18	50.0	6.301136	50.0	803863.0	0.126023	Y
7	IC 280-657652/19	75.0	10.692331	50.0	832377.0	0.142564	Y
8	IC 280-657652/20	100.0	14.292815	50.0	835934.0	0.142928	Y
9	IC 280-657652/21	200.0	32.291106	50.0	857970.0	0.161456	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

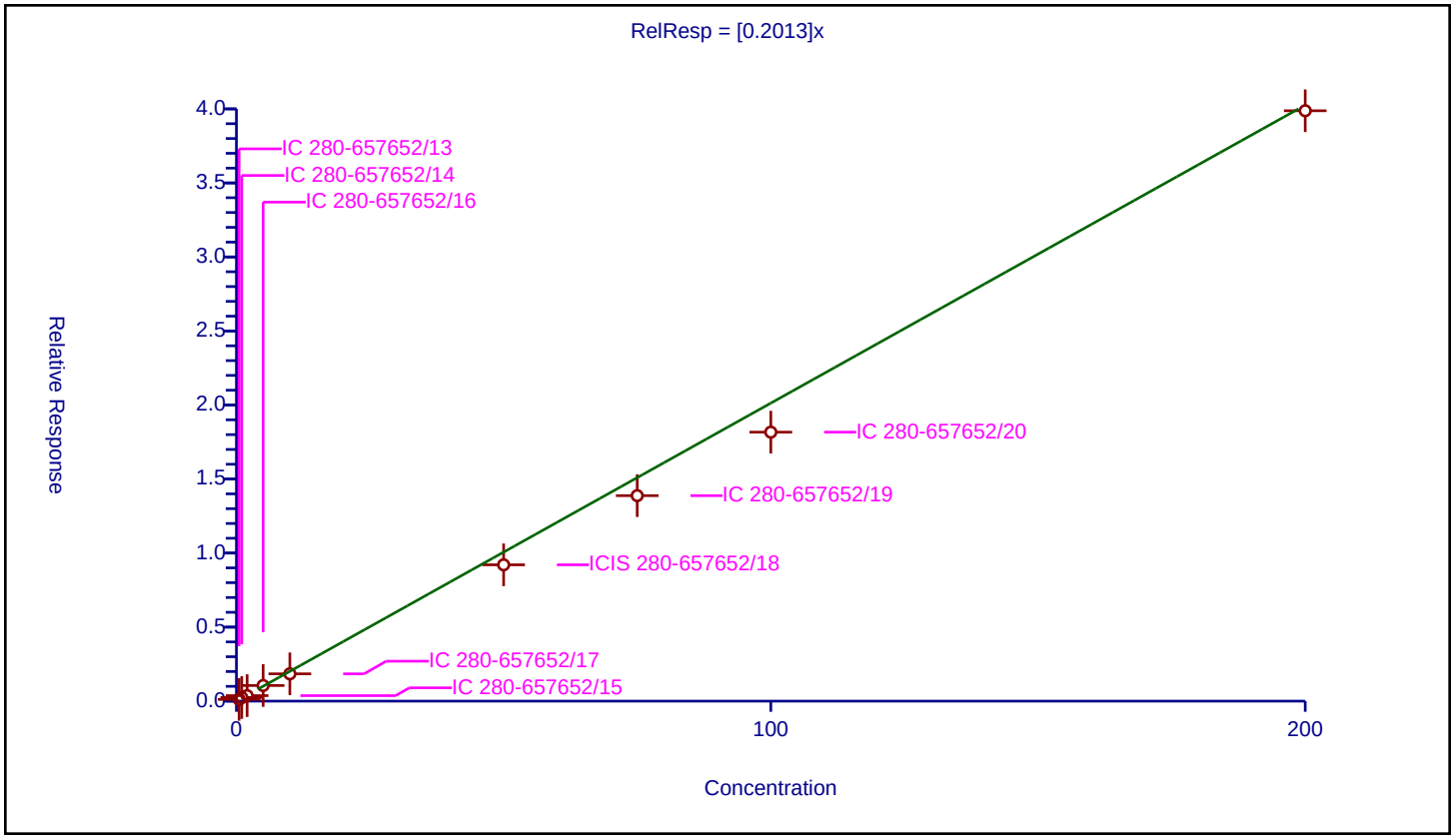
Curve Coefficients

Intercept:	0
Slope:	0.2013

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.117638	50.0	748484.0	0.235276	Y
2	IC 280-657652/14	1.0	0.244691	50.0	766069.0	0.244691	Y
3	IC 280-657652/15	2.0	0.371785	50.0	774776.0	0.185892	Y
4	IC 280-657652/16	5.0	1.054248	50.0	796824.0	0.21085	Y
5	IC 280-657652/17	10.0	1.845381	50.0	797071.0	0.184538	Y
6	ICIS 280-657652/18	50.0	9.206482	50.0	803863.0	0.18413	Y
7	IC 280-657652/19	75.0	13.879228	50.0	832377.0	0.185056	Y
8	IC 280-657652/20	100.0	18.167224	50.0	835934.0	0.181672	Y
9	IC 280-657652/21	200.0	39.874296	50.0	857970.0	0.199371	Y



7/5/2024
11:14:22 AM

Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

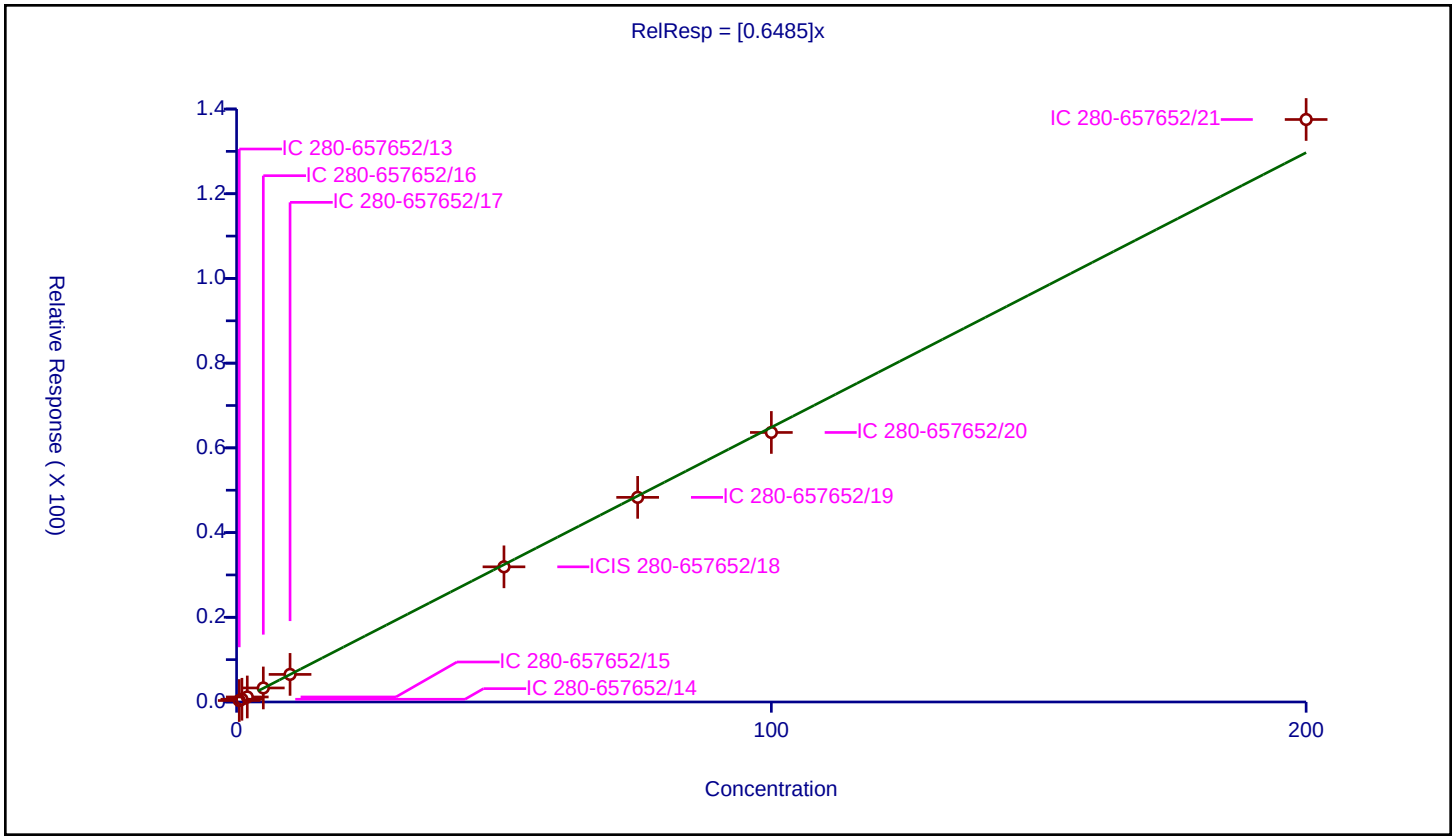
Curve Coefficients

Intercept:	0
Slope:	0.6485

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.340021	50.0	748484.0	0.680041	Y
2	IC 280-657652/14	1.0	0.643545	50.0	766069.0	0.643545	Y
3	IC 280-657652/15	2.0	1.185504	50.0	774776.0	0.592752	Y
4	IC 280-657652/16	5.0	3.313216	50.0	796824.0	0.662643	Y
5	IC 280-657652/17	10.0	6.514162	50.0	797071.0	0.651416	Y
6	ICIS 280-657652/18	50.0	31.910413	50.0	803863.0	0.638208	Y
7	IC 280-657652/19	75.0	48.310141	50.0	832377.0	0.644135	Y
8	IC 280-657652/20	100.0	63.633851	50.0	835934.0	0.636339	Y
9	IC 280-657652/21	200.0	137.526837	50.0	857970.0	0.687634	Y



7/5/2024
11:14:22 AM

Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

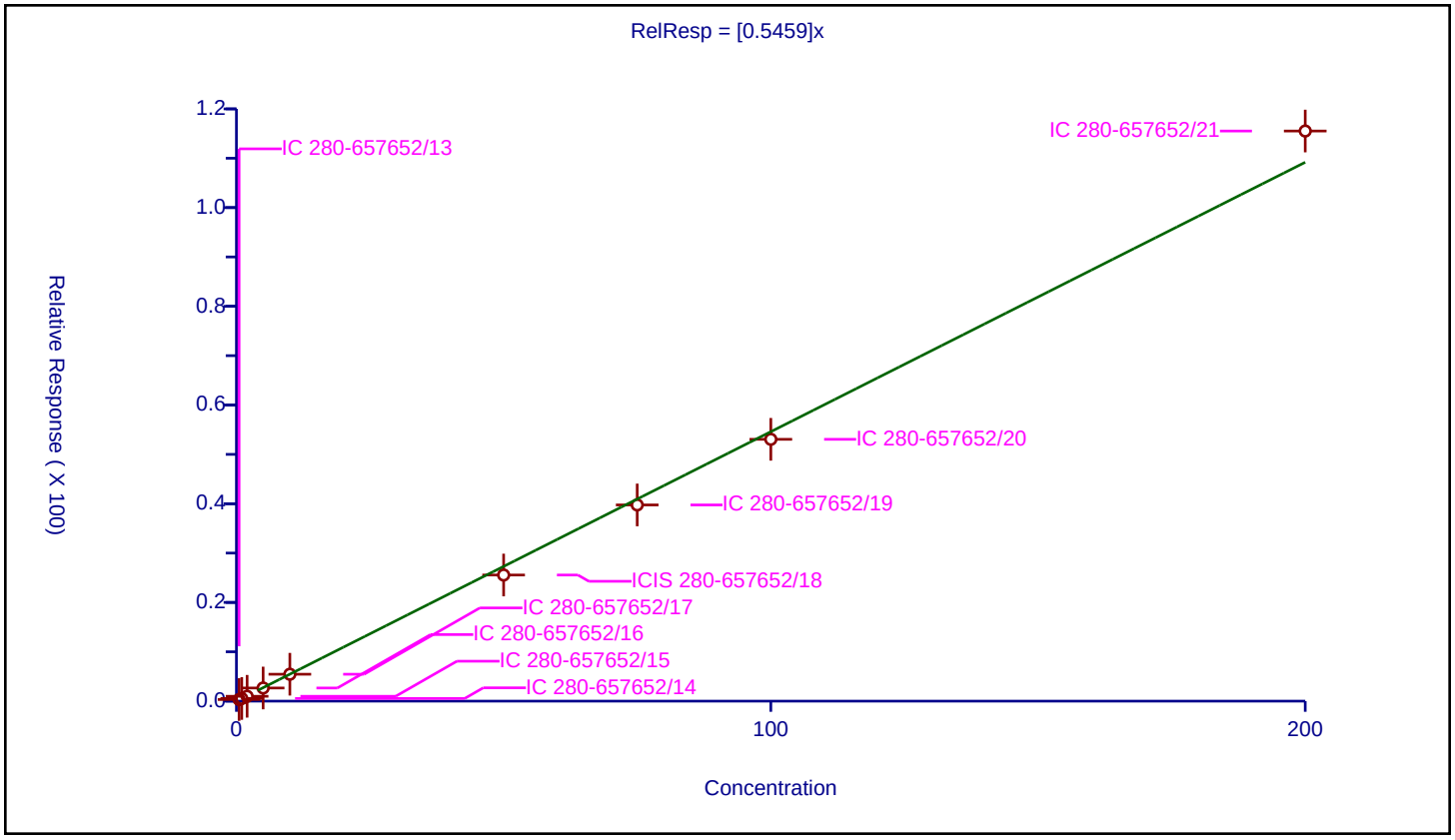
Curve Coefficients

Intercept:	0
Slope:	0.5459

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.32793	50.0	748484.0	0.655859	Y
2	IC 280-657652/14	1.0	0.536962	50.0	766069.0	0.536962	Y
3	IC 280-657652/15	2.0	0.986091	50.0	774776.0	0.493046	Y
4	IC 280-657652/16	5.0	2.665394	50.0	796824.0	0.533079	Y
5	IC 280-657652/17	10.0	5.450957	50.0	797071.0	0.545096	Y
6	ICIS 280-657652/18	50.0	25.557153	50.0	803863.0	0.511143	Y
7	IC 280-657652/19	75.0	39.751879	50.0	832377.0	0.530025	Y
8	IC 280-657652/20	100.0	53.048387	50.0	835934.0	0.530484	Y
9	IC 280-657652/21	200.0	115.513421	50.0	857970.0	0.577567	Y



7/5/2024
11:14:22 AM

Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

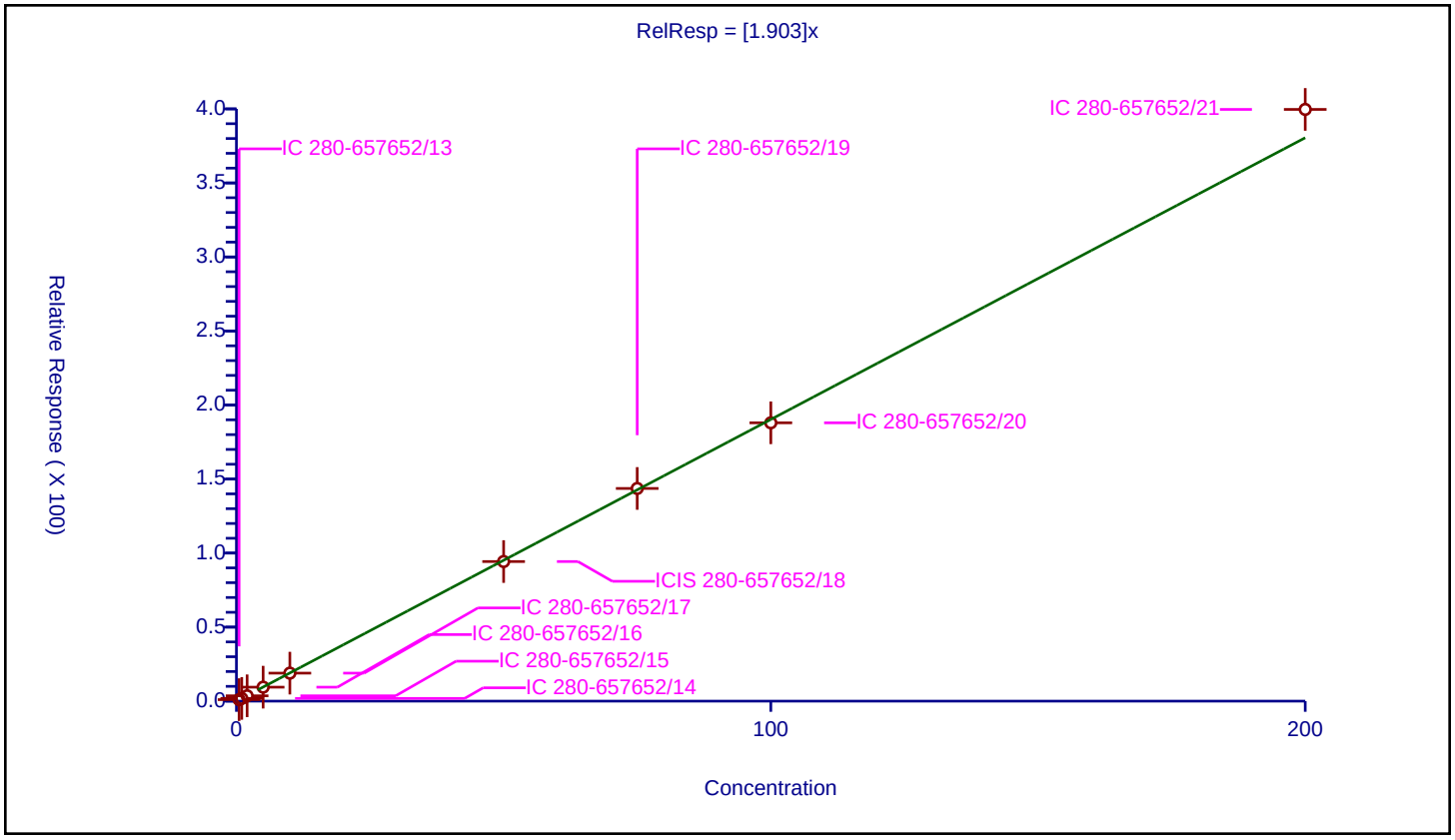
Curve Coefficients

Intercept:	0
Slope:	1.903

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	1.010977	50.0	748484.0	2.021954	Y
2	IC 280-657652/14	1.0	1.836192	50.0	766069.0	1.836192	Y
3	IC 280-657652/15	2.0	3.615109	50.0	774776.0	1.807555	Y
4	IC 280-657652/16	5.0	9.436902	50.0	796824.0	1.88738	Y
5	IC 280-657652/17	10.0	18.907287	50.0	797071.0	1.890729	Y
6	ICIS 280-657652/18	50.0	94.28466	50.0	803863.0	1.885693	Y
7	IC 280-657652/19	75.0	143.642784	50.0	832377.0	1.915237	Y
8	IC 280-657652/20	100.0	187.984996	50.0	835934.0	1.87985	Y
9	IC 280-657652/21	200.0	399.638915	50.0	857970.0	1.998195	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

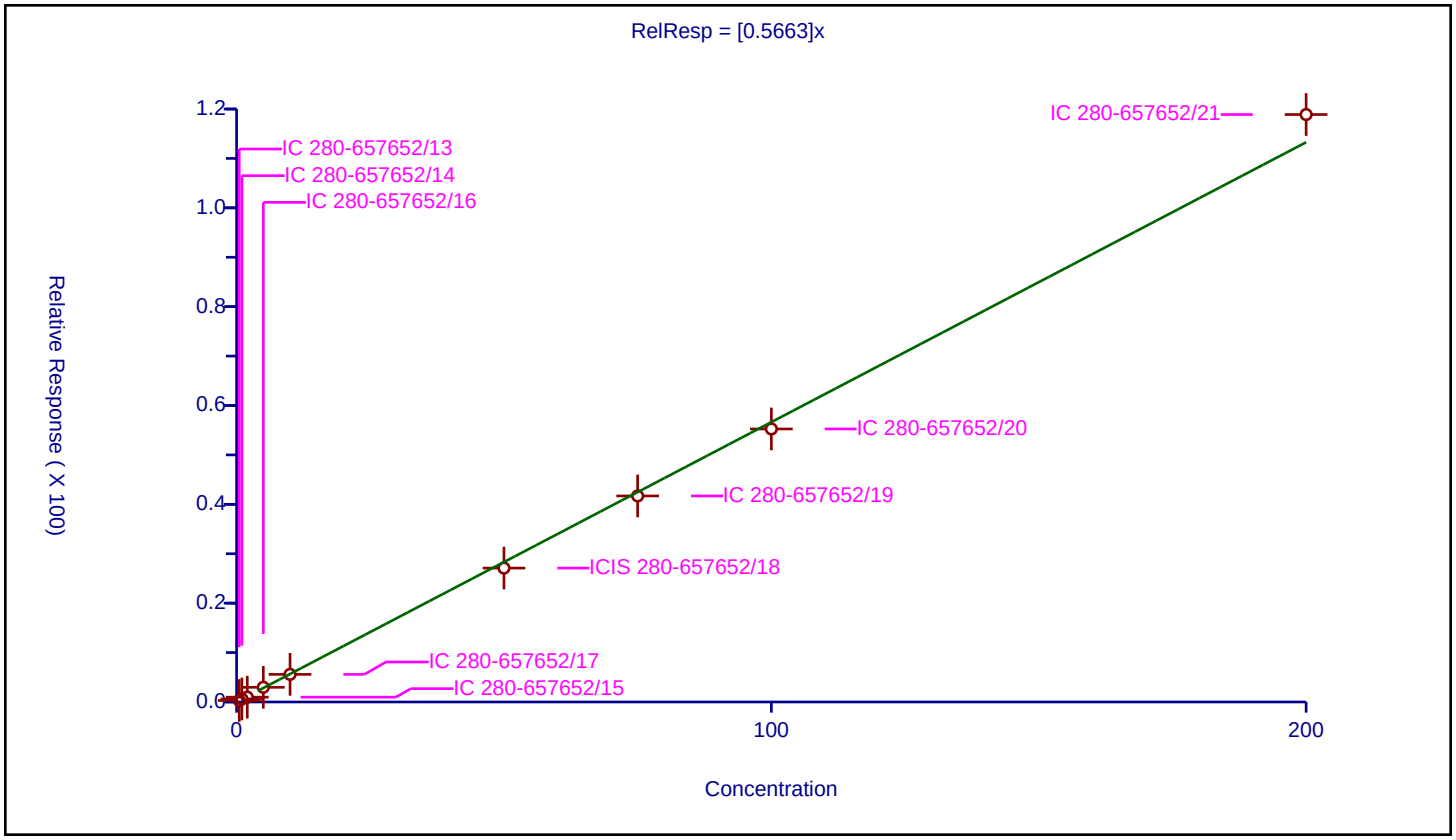
Curve Coefficients

Intercept:	0
Slope:	0.5663

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.301944	50.0	748484.0	0.603887	Y
2	IC 280-657652/14	1.0	0.608039	50.0	766069.0	0.608039	Y
3	IC 280-657652/15	2.0	0.974023	50.0	774776.0	0.487012	Y
4	IC 280-657652/16	5.0	2.972426	50.0	796824.0	0.594485	Y
5	IC 280-657652/17	10.0	5.587959	50.0	797071.0	0.558796	Y
6	ICIS 280-657652/18	50.0	27.09815	50.0	803863.0	0.541963	Y
7	IC 280-657652/19	75.0	41.698834	50.0	832377.0	0.555984	Y
8	IC 280-657652/20	100.0	55.252747	50.0	835934.0	0.552527	Y
9	IC 280-657652/21	200.0	118.884518	50.0	857970.0	0.594423	Y



7/5/2024
11:14:22 AM

Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

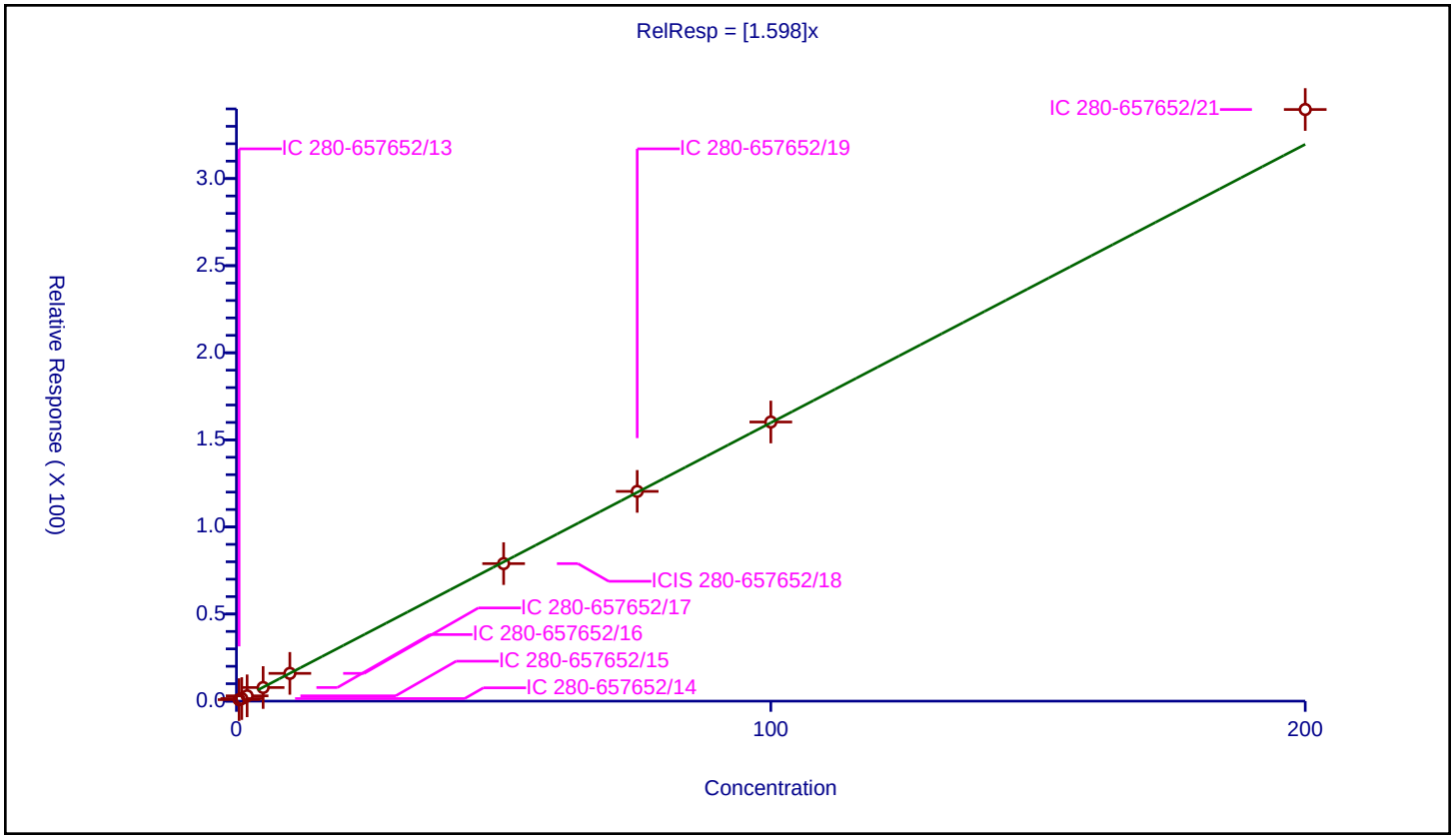
Curve Coefficients

Intercept:	0
Slope:	1.598

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.869892	50.0	748484.0	1.739783	Y
2	IC 280-657652/14	1.0	1.47317	50.0	766069.0	1.47317	Y
3	IC 280-657652/15	2.0	3.055657	50.0	774776.0	1.527829	Y
4	IC 280-657652/16	5.0	7.824626	50.0	796824.0	1.564925	Y
5	IC 280-657652/17	10.0	15.932458	50.0	797071.0	1.593246	Y
6	ICIS 280-657652/18	50.0	78.943054	50.0	803863.0	1.578861	Y
7	IC 280-657652/19	75.0	120.417731	50.0	832377.0	1.60557	Y
8	IC 280-657652/20	100.0	160.243572	50.0	835934.0	1.602436	Y
9	IC 280-657652/21	200.0	339.654184	50.0	857970.0	1.698271	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

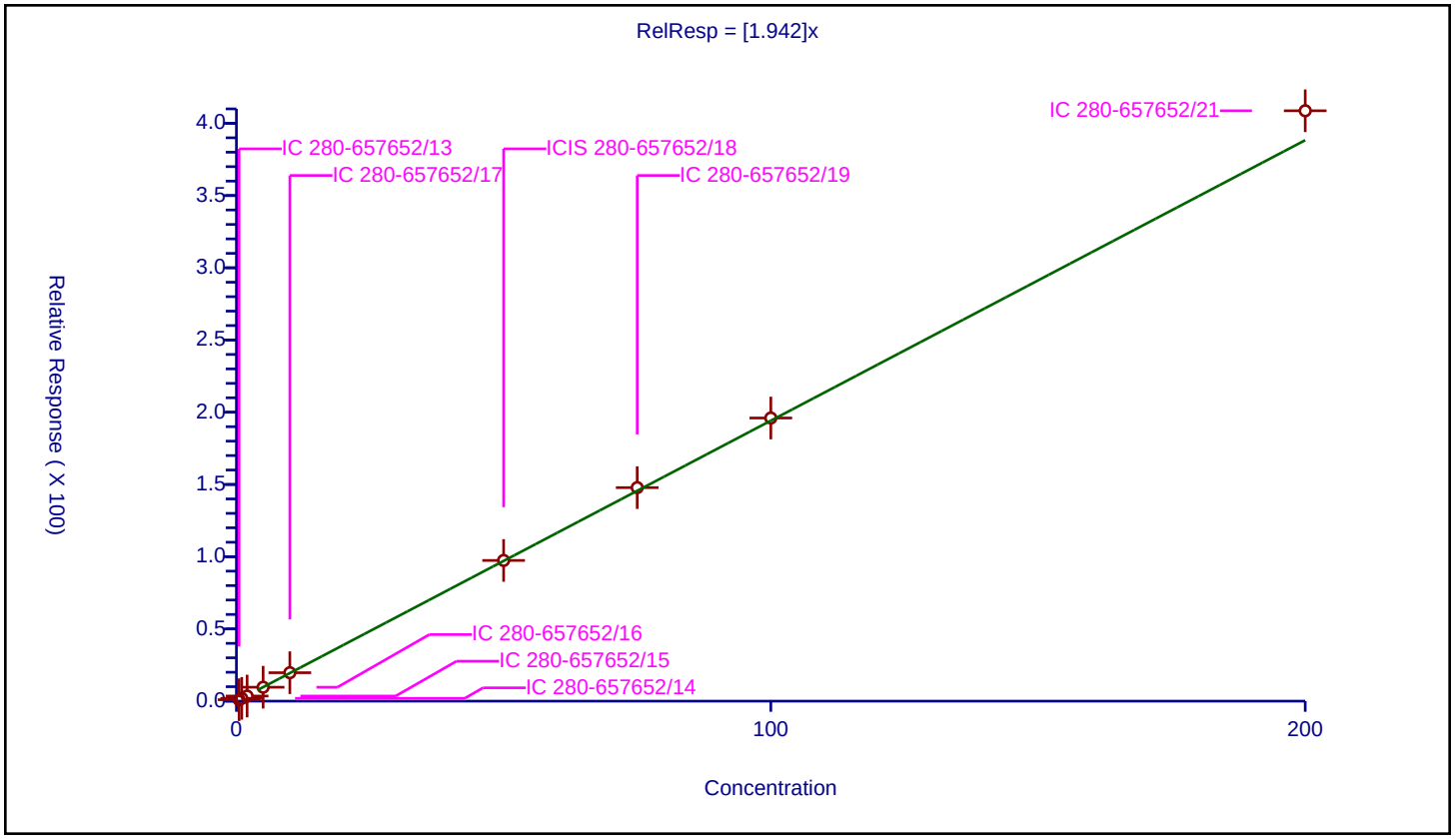
Curve Coefficients

Intercept:	0
Slope:	1.942

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.978511	50.0	748484.0	1.957022	Y
2	IC 280-657652/14	1.0	1.934943	50.0	766069.0	1.934943	Y
3	IC 280-657652/15	2.0	3.527794	50.0	774776.0	1.763897	Y
4	IC 280-657652/16	5.0	9.636946	50.0	796824.0	1.927389	Y
5	IC 280-657652/17	10.0	19.687456	50.0	797071.0	1.968746	Y
6	ICIS 280-657652/18	50.0	97.405279	50.0	803863.0	1.948106	Y
7	IC 280-657652/19	75.0	147.807544	50.0	832377.0	1.970767	Y
8	IC 280-657652/20	100.0	196.003931	50.0	835934.0	1.960039	Y
9	IC 280-657652/21	200.0	408.695933	50.0	857970.0	2.04348	Y



7/5/2024
11:14:22 AM

Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

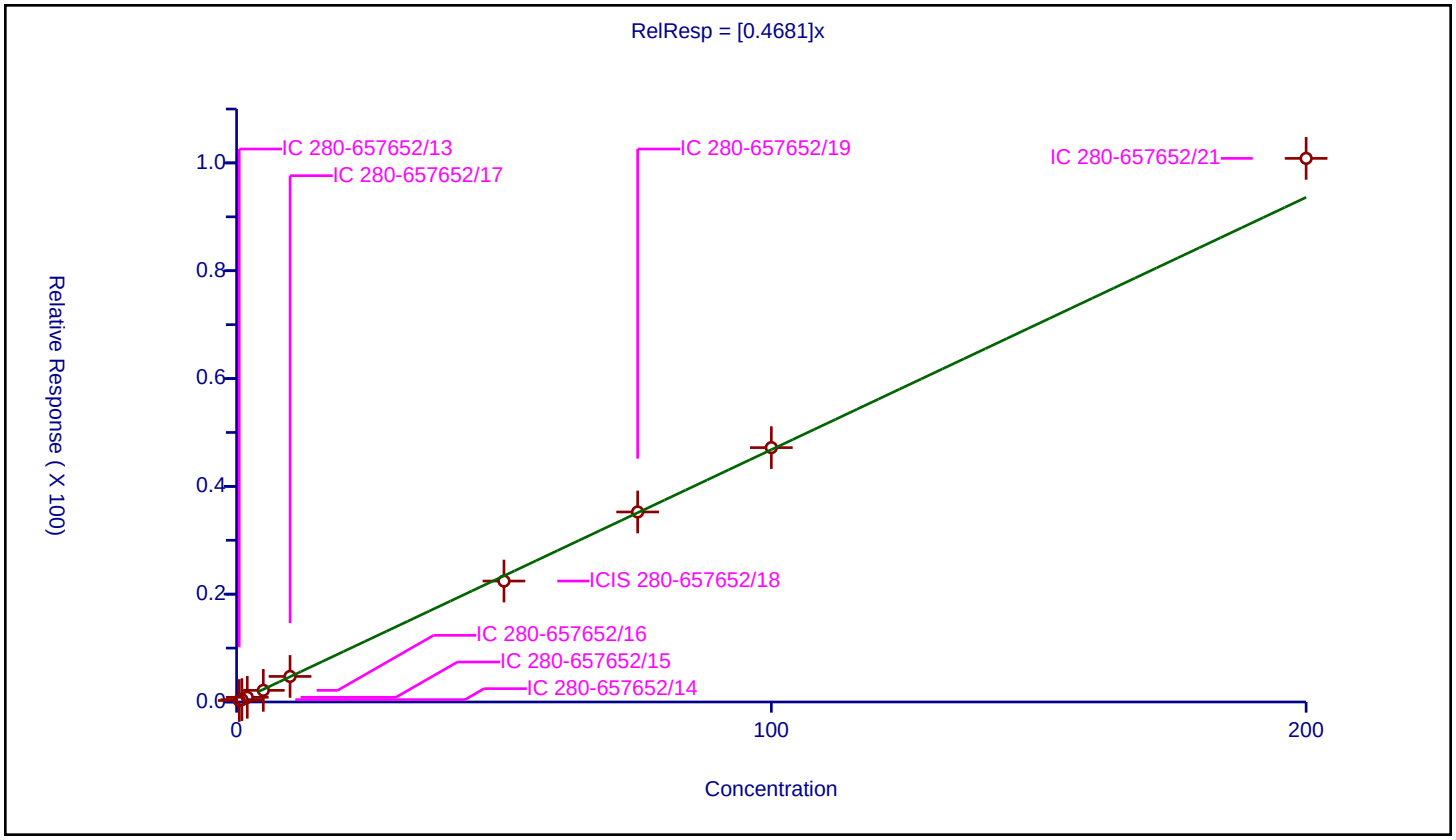
Curve Coefficients

Intercept:	0
Slope:	0.4681

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.267674	50.0	748484.0	0.535349	Y
2	IC 280-657652/14	1.0	0.439451	50.0	766069.0	0.439451	Y
3	IC 280-657652/15	2.0	0.87535	50.0	774776.0	0.437675	Y
4	IC 280-657652/16	5.0	2.156875	50.0	796824.0	0.431375	Y
5	IC 280-657652/17	10.0	4.740669	50.0	797071.0	0.474067	Y
6	ICIS 280-657652/18	50.0	22.435353	50.0	803863.0	0.448707	Y
7	IC 280-657652/19	75.0	35.249953	50.0	832377.0	0.469999	Y
8	IC 280-657652/20	100.0	47.186201	50.0	835934.0	0.471862	Y
9	IC 280-657652/21	200.0	100.842279	50.0	857970.0	0.504211	Y



7/5/2024
11:14:22 AM

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

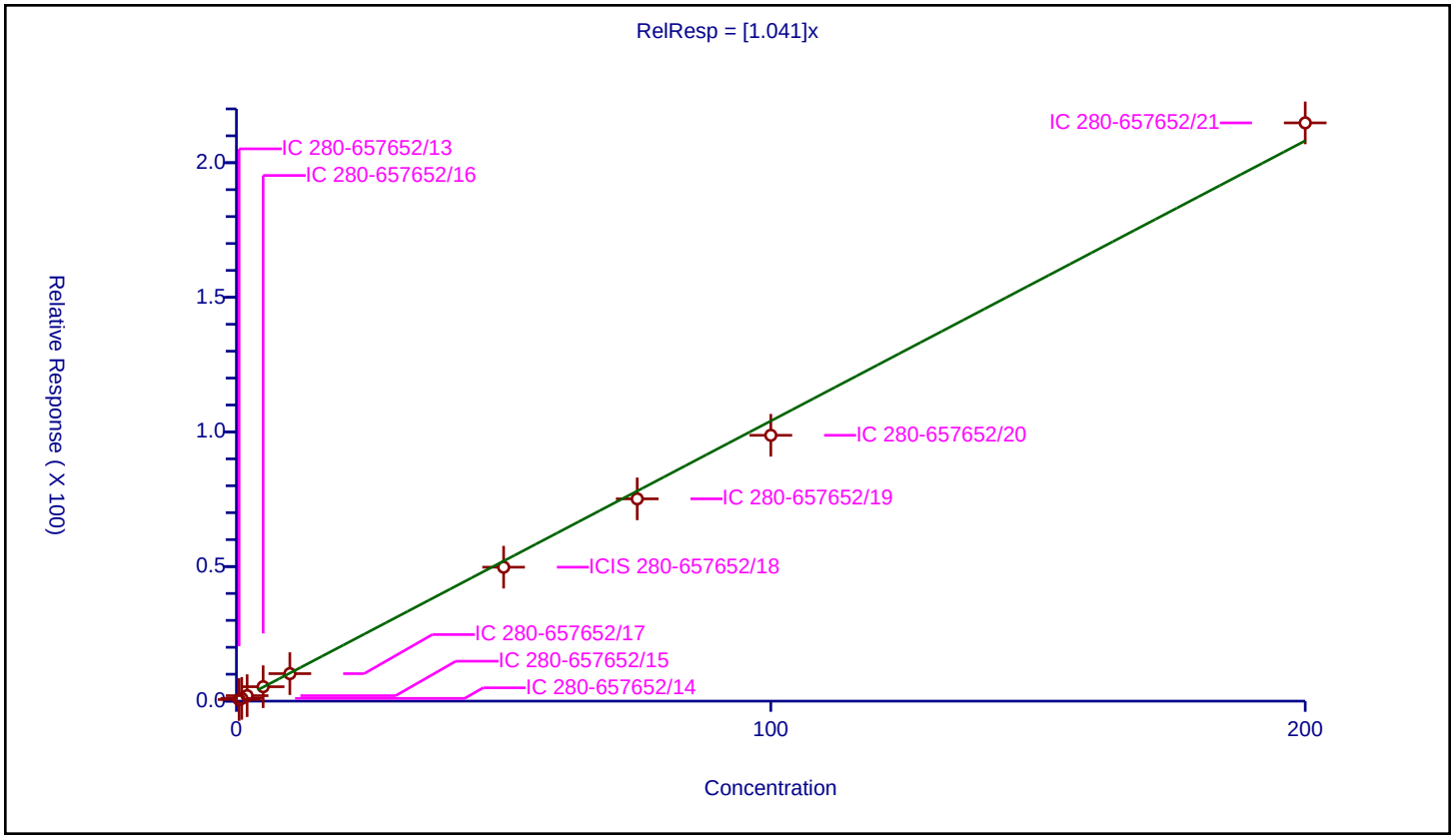
Curve Coefficients

Intercept:	0
Slope:	1.041

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.586652	50.0	748484.0	1.173305	Y
2	IC 280-657652/14	1.0	1.027127	50.0	766069.0	1.027127	Y
3	IC 280-657652/15	2.0	2.0302	50.0	774776.0	1.0151	Y
4	IC 280-657652/16	5.0	5.355637	50.0	796824.0	1.071127	Y
5	IC 280-657652/17	10.0	10.217158	50.0	797071.0	1.021716	Y
6	ICIS 280-657652/18	50.0	49.759287	50.0	803863.0	0.995186	Y
7	IC 280-657652/19	75.0	75.142814	50.0	832377.0	1.001904	Y
8	IC 280-657652/20	100.0	98.754926	50.0	835934.0	0.987549	Y
9	IC 280-657652/21	200.0	214.800925	50.0	857970.0	1.074005	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

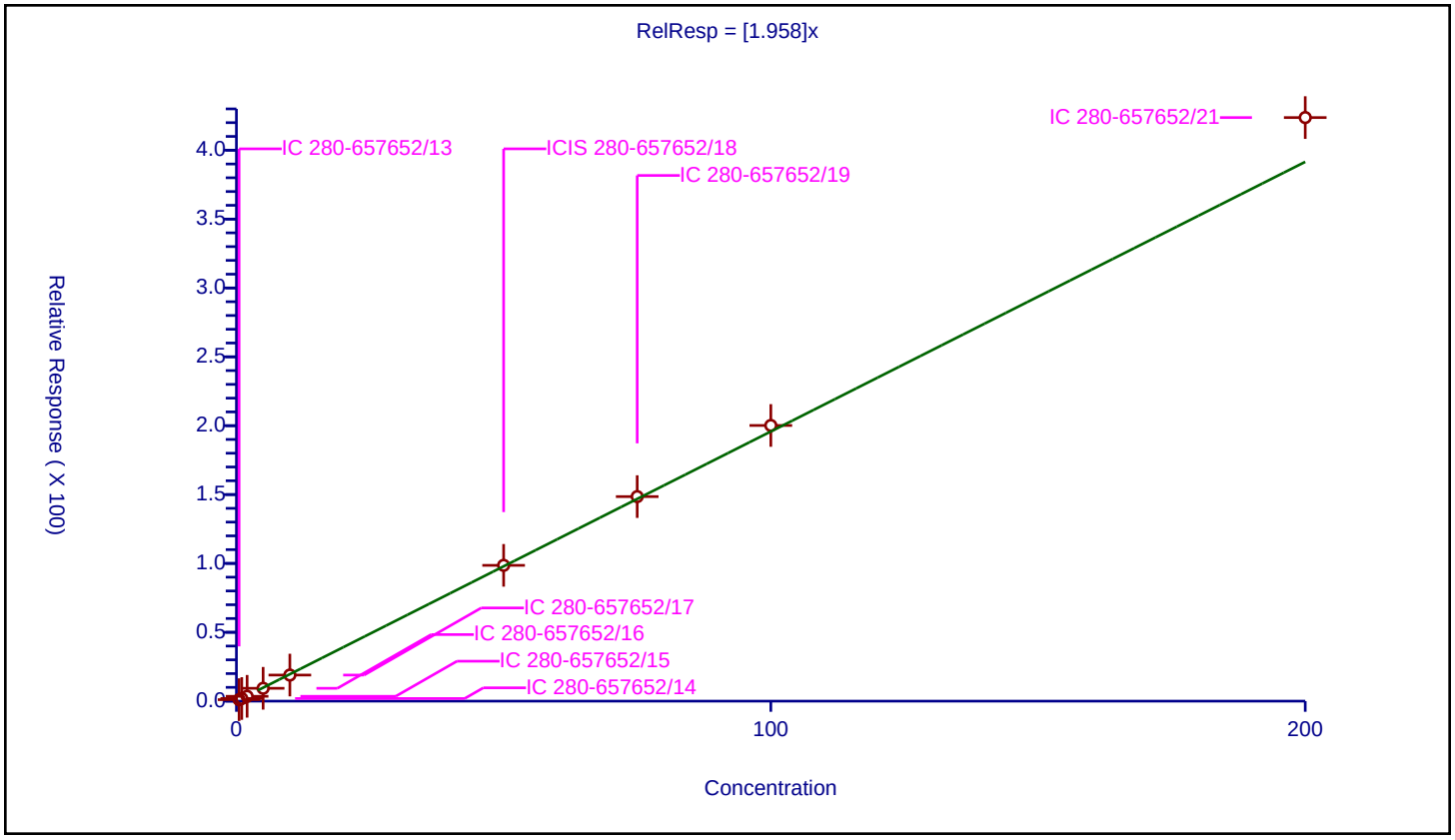
Curve Coefficients

Intercept:	0
Slope:	1.958

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	1.066155	50.0	748484.0	2.13231	Y
2	IC 280-657652/14	1.0	1.899503	50.0	766069.0	1.899503	Y
3	IC 280-657652/15	2.0	3.511467	50.0	774776.0	1.755733	Y
4	IC 280-657652/16	5.0	9.326024	50.0	796824.0	1.865205	Y
5	IC 280-657652/17	10.0	18.945991	50.0	797071.0	1.894599	Y
6	ICIS 280-657652/18	50.0	98.592049	50.0	803863.0	1.971841	Y
7	IC 280-657652/19	75.0	148.504464	50.0	832377.0	1.98006	Y
8	IC 280-657652/20	100.0	200.148935	50.0	835934.0	2.001489	Y
9	IC 280-657652/21	200.0	423.700188	50.0	857970.0	2.118501	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

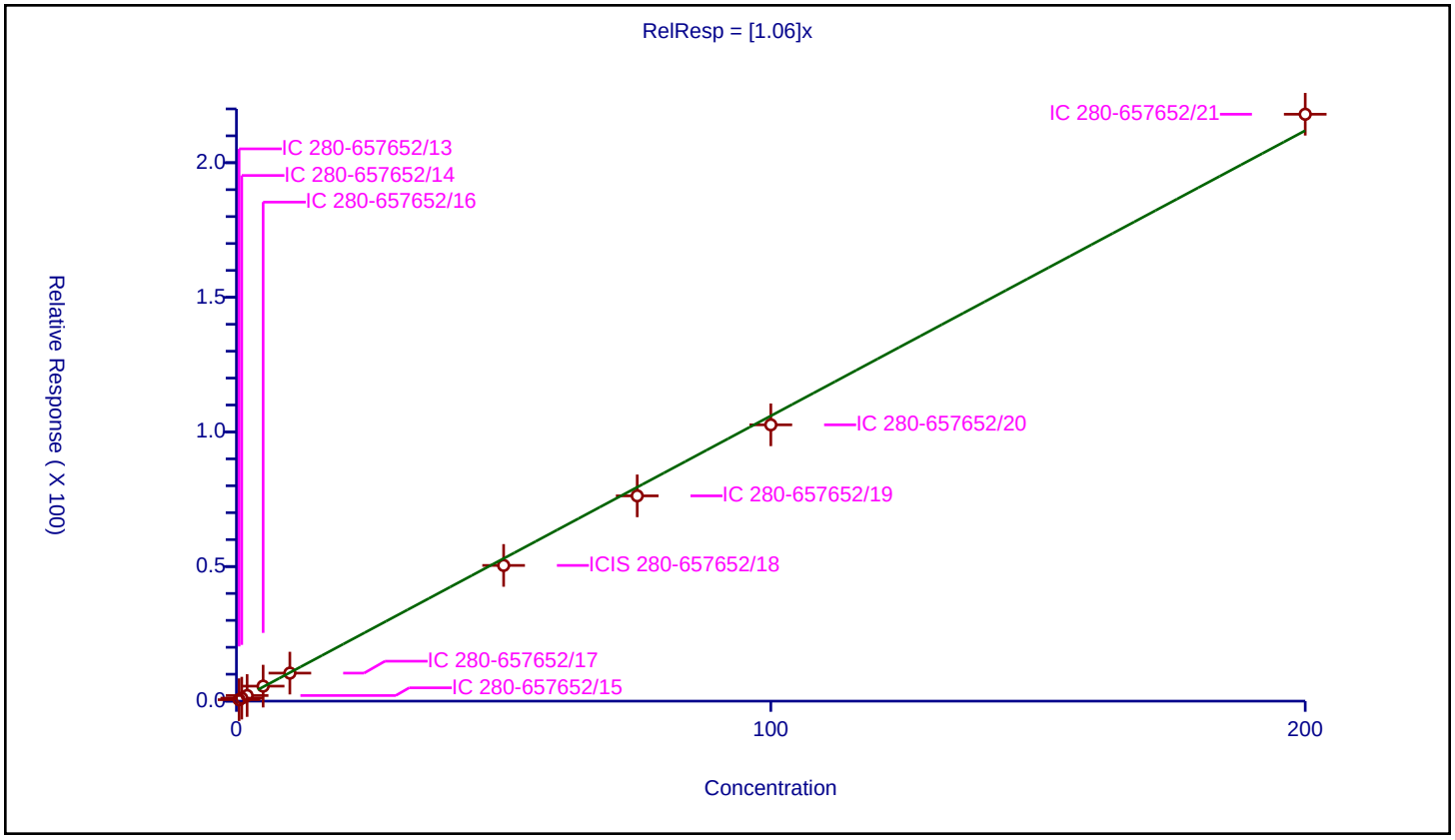
Curve Coefficients

Intercept:	0
Slope:	1.06

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.543565	50.0	748484.0	1.087131	Y
2	IC 280-657652/14	1.0	1.109952	50.0	766069.0	1.109952	Y
3	IC 280-657652/15	2.0	2.082796	50.0	774776.0	1.041398	Y
4	IC 280-657652/16	5.0	5.577894	50.0	796824.0	1.115579	Y
5	IC 280-657652/17	10.0	10.414881	50.0	797071.0	1.041488	Y
6	ICIS 280-657652/18	50.0	50.415991	50.0	803863.0	1.00832	Y
7	IC 280-657652/19	75.0	76.256071	50.0	832377.0	1.016748	Y
8	IC 280-657652/20	100.0	102.645245	50.0	835934.0	1.026452	Y
9	IC 280-657652/21	200.0	218.007623	50.0	857970.0	1.090038	Y



7/5/2024
11:14:22 AM

Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

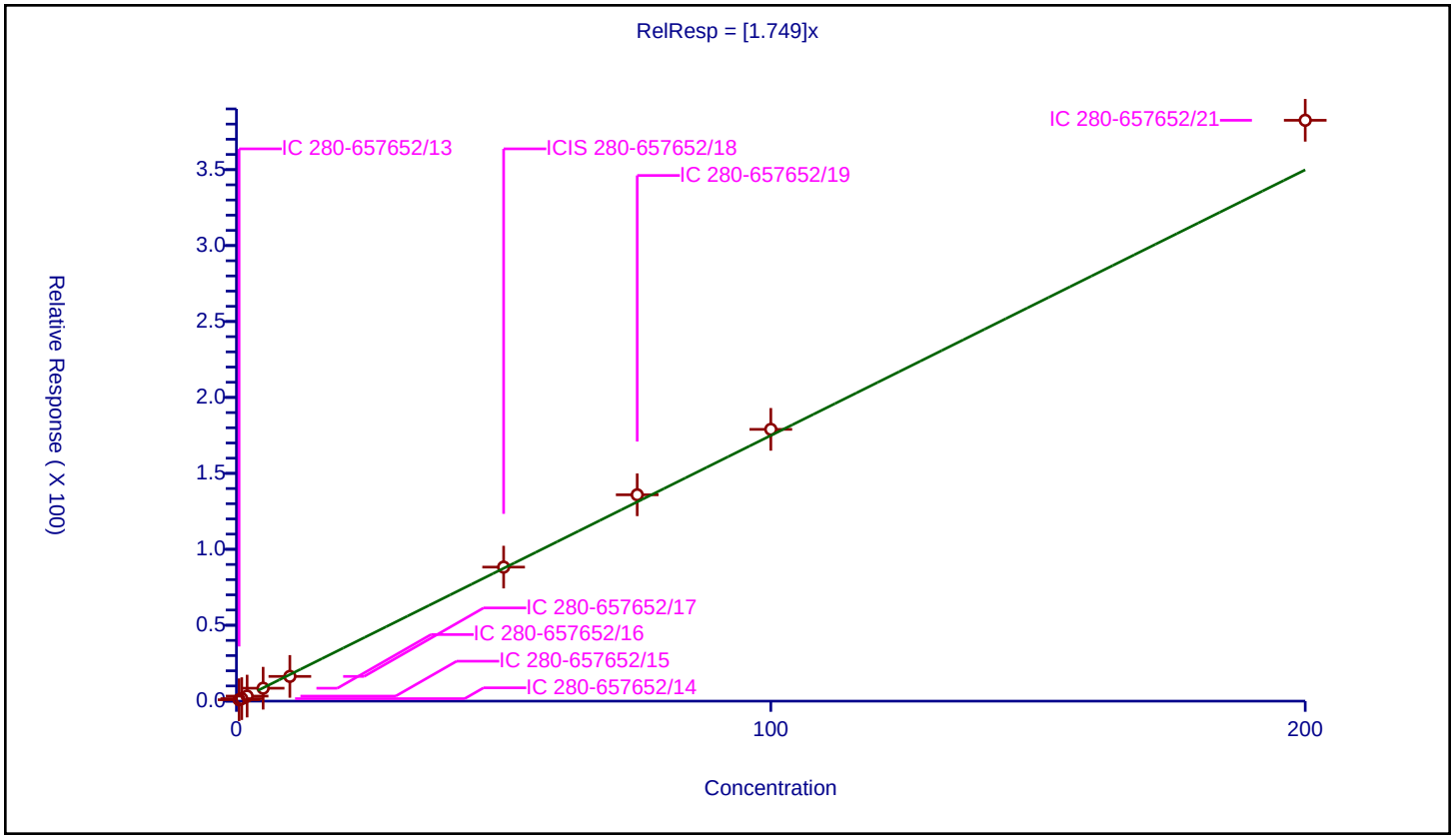
Curve Coefficients

Intercept:	0
Slope:	1.749

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.919793	50.0	748484.0	1.839585	Y
2	IC 280-657652/14	1.0	1.63125	50.0	766069.0	1.63125	Y
3	IC 280-657652/15	2.0	3.321799	50.0	774776.0	1.660899	Y
4	IC 280-657652/16	5.0	8.521392	50.0	796824.0	1.704278	Y
5	IC 280-657652/17	10.0	16.286316	50.0	797071.0	1.628632	Y
6	ICIS 280-657652/18	50.0	88.260997	50.0	803863.0	1.76522	Y
7	IC 280-657652/19	75.0	135.884881	50.0	832377.0	1.811798	Y
8	IC 280-657652/20	100.0	178.967299	50.0	835934.0	1.789673	Y
9	IC 280-657652/21	200.0	382.496066	50.0	857970.0	1.91248	Y



7/5/2024
11:14:22 AM

Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

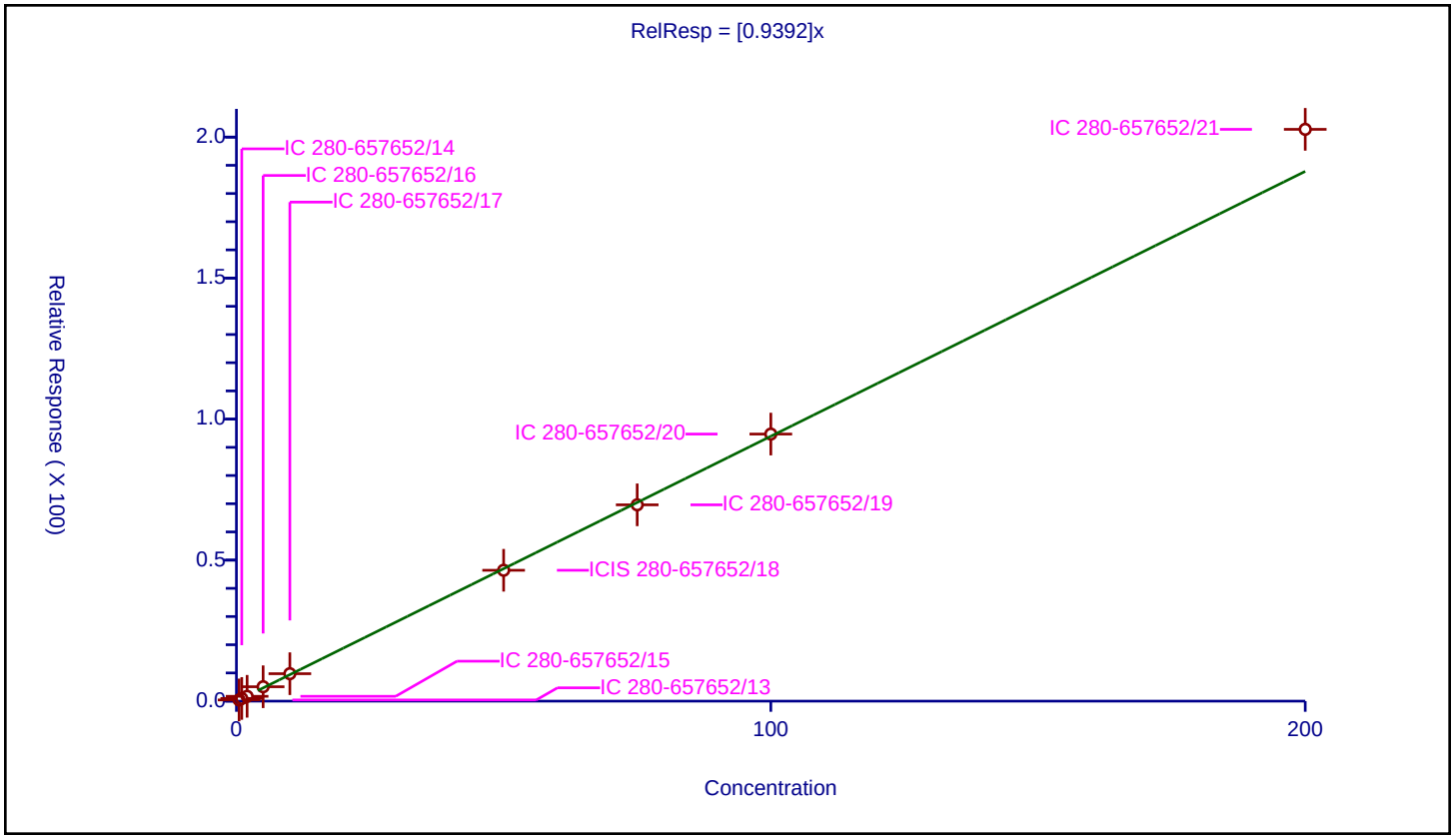
Curve Coefficients

Intercept:	0
Slope:	0.9392

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.416776	50.0	748484.0	0.833552	Y
2	IC 280-657652/14	1.0	0.952721	50.0	766069.0	0.952721	Y
3	IC 280-657652/15	2.0	1.711204	50.0	774776.0	0.855602	Y
4	IC 280-657652/16	5.0	5.106586	50.0	796824.0	1.021317	Y
5	IC 280-657652/17	10.0	9.731254	50.0	797071.0	0.973125	Y
6	ICIS 280-657652/18	50.0	46.404549	50.0	803863.0	0.928091	Y
7	IC 280-657652/19	75.0	69.603016	50.0	832377.0	0.92804	Y
8	IC 280-657652/20	100.0	94.69689	50.0	835934.0	0.946969	Y
9	IC 280-657652/21	200.0	202.742753	50.0	857970.0	1.013714	Y



7/5/2024
11:14:22 AM

Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

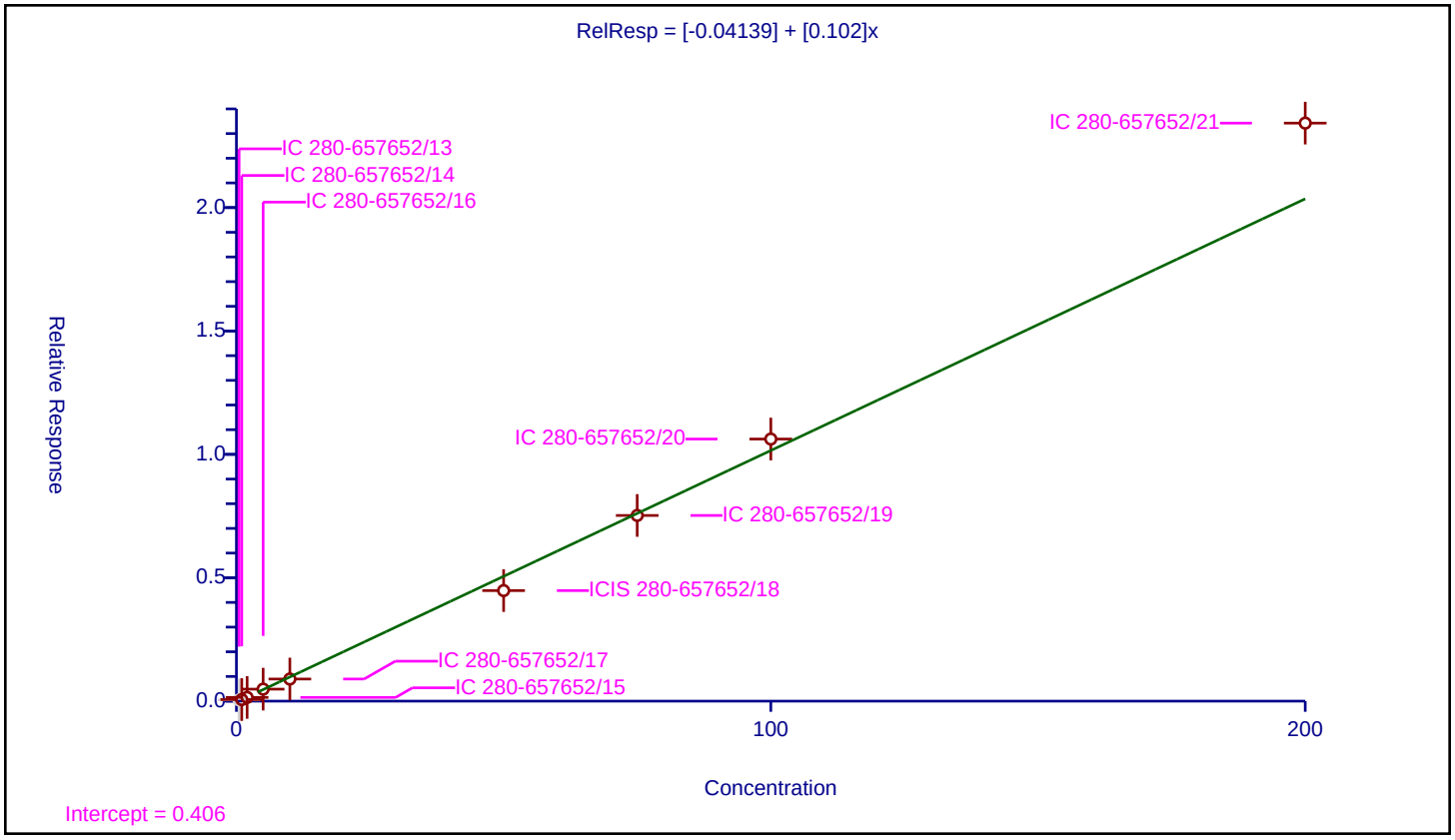
Curve Coefficients

Intercept:	-0.04139
Slope:	0.102

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.050435	50.0	748484.0	0.100871	N
2	IC 280-657652/14	1.0	0.063702	50.0	766069.0	0.063702	Y
3	IC 280-657652/15	2.0	0.151076	50.0	774776.0	0.075538	Y
4	IC 280-657652/16	5.0	0.486368	50.0	796824.0	0.097274	Y
5	IC 280-657652/17	10.0	0.896031	50.0	797071.0	0.089603	Y
6	ICIS 280-657652/18	50.0	4.479184	50.0	803863.0	0.089584	Y
7	IC 280-657652/19	75.0	7.523995	50.0	832377.0	0.10032	Y
8	IC 280-657652/20	100.0	10.621114	50.0	835934.0	0.106211	Y
9	IC 280-657652/21	200.0	23.423779	50.0	857970.0	0.117119	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

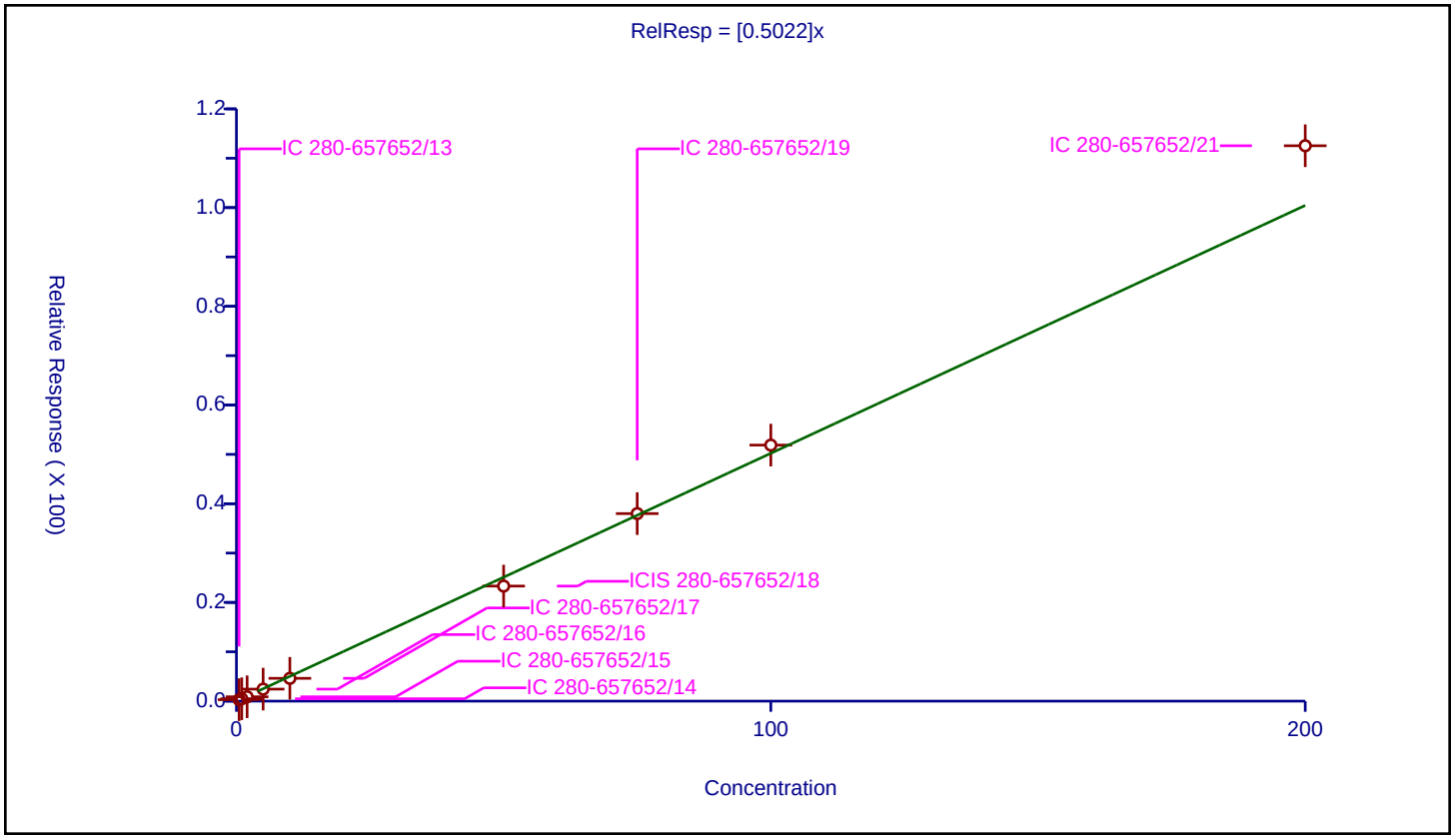
Curve Coefficients

Intercept:	0
Slope:	0.5022

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.296132	50.0	748484.0	0.592264	Y
2	IC 280-657652/14	1.0	0.48168	50.0	766069.0	0.48168	Y
3	IC 280-657652/15	2.0	0.884707	50.0	774776.0	0.442354	Y
4	IC 280-657652/16	5.0	2.434101	50.0	796824.0	0.48682	Y
5	IC 280-657652/17	10.0	4.621483	50.0	797071.0	0.462148	Y
6	ICIS 280-657652/18	50.0	23.314483	50.0	803863.0	0.46629	Y
7	IC 280-657652/19	75.0	37.998888	50.0	832377.0	0.506652	Y
8	IC 280-657652/20	100.0	51.876883	50.0	835934.0	0.518769	Y
9	IC 280-657652/21	200.0	112.533538	50.0	857970.0	0.562668	Y



7/5/2024
11:14:22 AM

Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

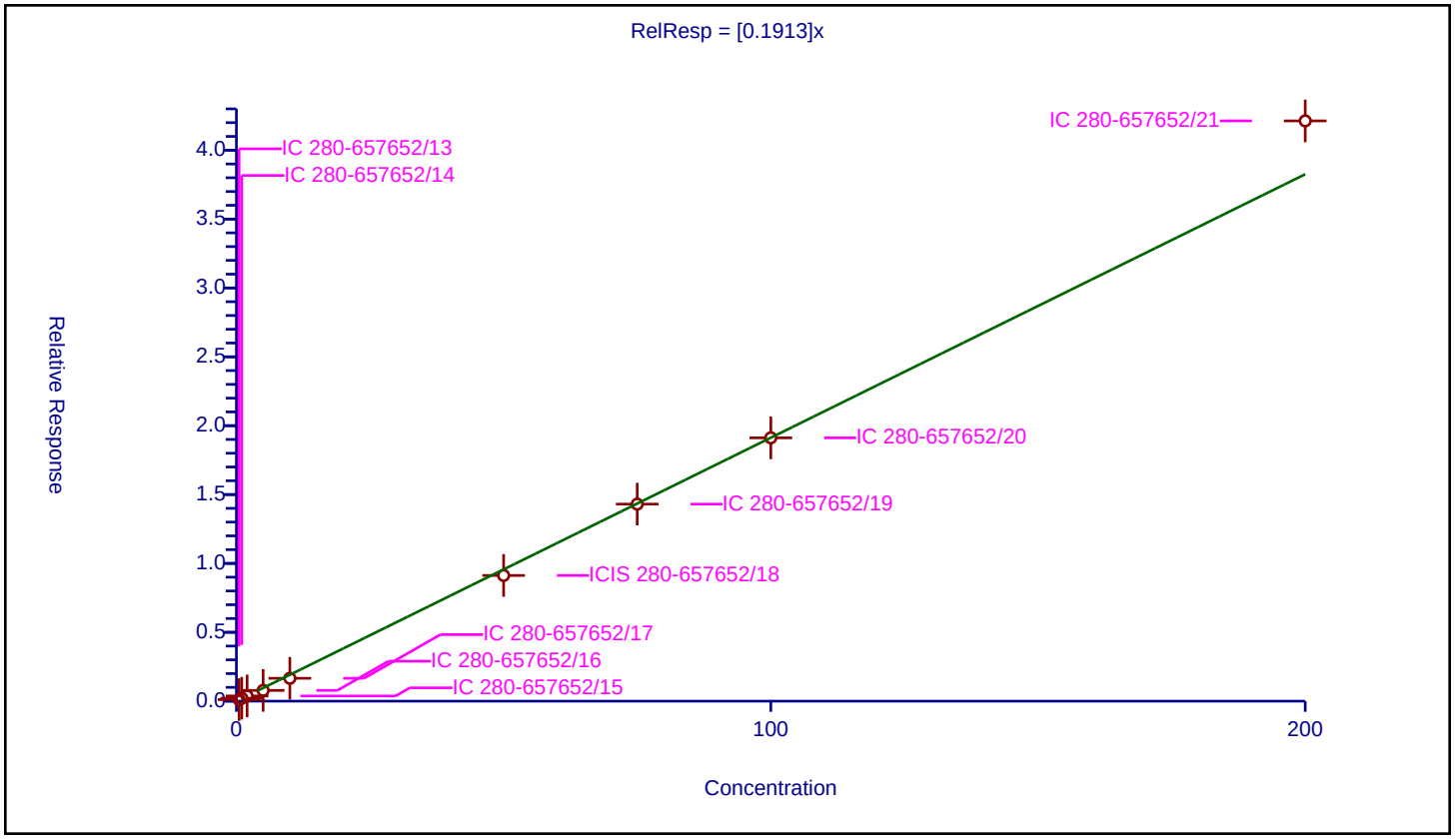
Curve Coefficients

Intercept:	0
Slope:	0.1913

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.111559	50.0	748484.0	0.223118	Y
2	IC 280-657652/14	1.0	0.212905	50.0	766069.0	0.212905	Y
3	IC 280-657652/15	2.0	0.376754	50.0	774776.0	0.188377	Y
4	IC 280-657652/16	5.0	0.779783	50.0	796824.0	0.155957	Y
5	IC 280-657652/17	10.0	1.660203	50.0	797071.0	0.16602	Y
6	ICIS 280-657652/18	50.0	9.125125	50.0	803863.0	0.182502	Y
7	IC 280-657652/19	75.0	14.304996	50.0	832377.0	0.190733	Y
8	IC 280-657652/20	100.0	19.116641	50.0	835934.0	0.191166	Y
9	IC 280-657652/21	200.0	42.128454	50.0	857970.0	0.210642	Y



7/5/2024
11:14:22 AM

Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

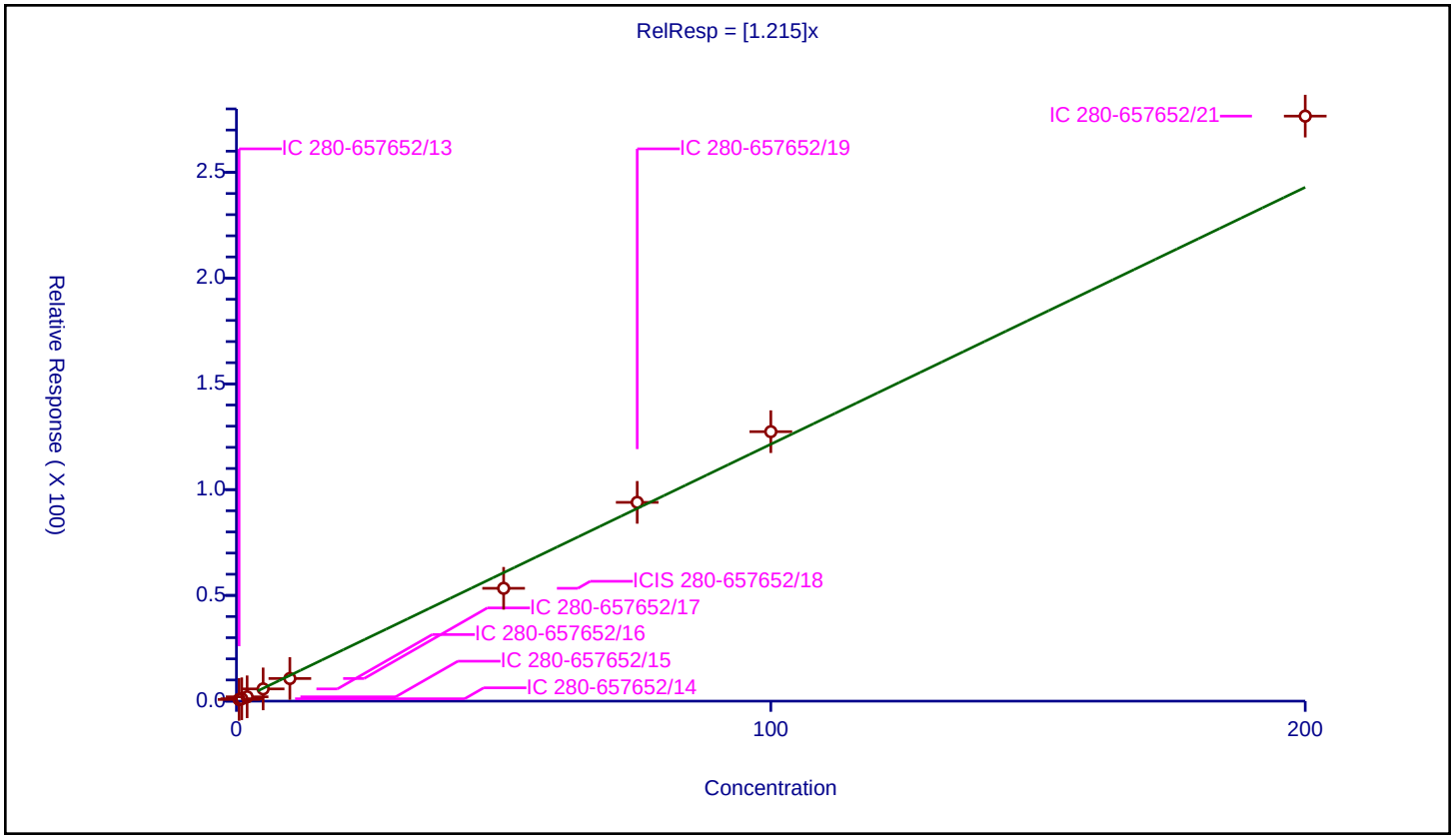
Curve Coefficients

Intercept:	0
Slope:	1.215

Error Coefficients

Relative Standard Deviation:	14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.791667	50.0	748484.0	1.583334	Y
2	IC 280-657652/14	1.0	1.123724	50.0	766069.0	1.123724	Y
3	IC 280-657652/15	2.0	2.042203	50.0	774776.0	1.021102	Y
4	IC 280-657652/16	5.0	5.786786	50.0	796824.0	1.157357	Y
5	IC 280-657652/17	10.0	10.692147	50.0	797071.0	1.069215	Y
6	ICIS 280-657652/18	50.0	53.340806	50.0	803863.0	1.066816	Y
7	IC 280-657652/19	75.0	93.980192	50.0	832377.0	1.253069	Y
8	IC 280-657652/20	100.0	127.404317	50.0	835934.0	1.274043	Y
9	IC 280-657652/21	200.0	276.590557	50.0	857970.0	1.382953	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

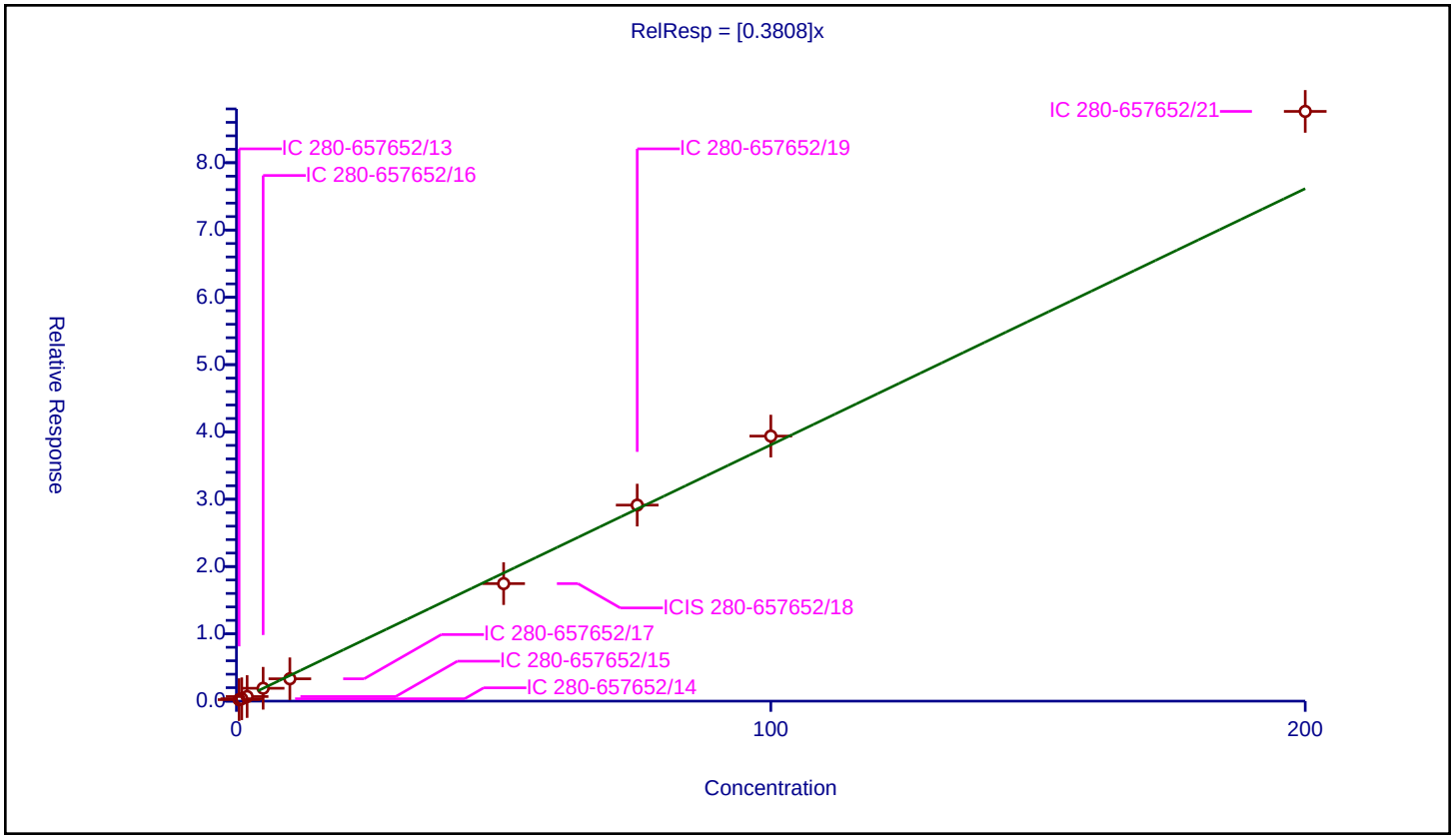
Curve Coefficients

Intercept:	0
Slope:	0.3808

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-657652/13	0.5	0.22245	50.0	748484.0	0.444899	Y
2	IC 280-657652/14	1.0	0.355712	50.0	766069.0	0.355712	Y
3	IC 280-657652/15	2.0	0.684004	50.0	774776.0	0.342002	Y
4	IC 280-657652/16	5.0	1.911526	50.0	796824.0	0.382305	Y
5	IC 280-657652/17	10.0	3.323104	50.0	797071.0	0.33231	Y
6	ICIS 280-657652/18	50.0	17.460811	50.0	803863.0	0.349216	Y
7	IC 280-657652/19	75.0	29.127907	50.0	832377.0	0.388372	Y
8	IC 280-657652/20	100.0	39.382774	50.0	835934.0	0.393828	Y
9	IC 280-657652/21	200.0	87.626082	50.0	857970.0	0.43813	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 658367

SDG No.:

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 03:10 Calibration End Date: 06/26/2024 06:01 Calibration ID: 94894

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-658367/13	MS1_5856.D
Level 2	IC 280-658367/14	MS1_5857.D
Level 3	IC 280-658367/15	MS1_5858.D
Level 4	IC 280-658367/16	MS1_5859.D
Level 5	IC 280-658367/17	MS1_5860.D
Level 6	IC 280-658367/18	MS1_5861.D
Level 7	IC 280-658367/19	MS1_5862.D
Level 8	IC 280-658367/20	MS1_5863.D
Level 9	IC 280-658367/21	MS1_5864.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2156 0.2178	0.2218 0.2262	0.1903 0.2119	0.2009 0.1975	0.2294	Ave		0.2124				6.3		15.0			
Chloromethane	0.3029 0.2517	0.3086 0.2505	0.2562 0.2448	0.2275 0.2356	0.2717	Ave		0.2610			0.1000	10.8		15.0			
Vinyl chloride	0.3165 0.2695	0.3138 0.2706	0.2923 0.2612	0.2470 0.2525	0.2805	Ave		0.2782				9.0		30.0			
Bromomethane	+++++ 0.1184	0.1512 0.1363	0.1057 0.1361	0.0919 0.1444	0.1150	Lin1	-0.056	0.1378							0.9950		0.9900
Chloroethane	0.2294 0.1707	0.1888 0.1727	0.1962 0.1667	0.1681 0.1634	0.1762	Ave		0.1814				11.6		15.0			
Dichlorofluoromethane	0.5779 0.4493	0.5328 0.4545	0.4710 0.4398	0.4126 0.4313	0.4830	Ave		0.4725				11.1		15.0			
Trichlorofluoromethane	0.2996 0.3031	0.3265 0.3061	0.2909 0.3077	0.2802 0.2911	0.3173	Ave		0.3025				4.7		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0341	0.0424 0.0358	0.0399 0.0340	0.0323 0.0349	0.0359	Ave		0.0361				9.3		15.0			
Dibromofluoromethane (Surr)	0.2312 0.2311	0.2350 0.2327	0.2348 0.2330	0.2272 0.2285	0.2271	Ave		0.2312				1.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2871 0.2964	0.2866 0.2969	0.3005 0.2976	0.2948 0.2936	0.2960	Ave		0.2944				1.6		15.0			
Toluene-d8 (Surr)	4.4878 4.3692	4.3589 4.4423	4.4187 4.3930	4.3592 4.3880	4.4376	Ave		4.4061				1.0		15.0			
4-Bromofluorobenzene (Surr)	0.9539 0.9538	0.9645 0.9726	0.9670 0.9592	0.9746 0.9593	0.9553	Ave		0.9622				0.8		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 658367

SDG No.:

Instrument ID: VMS_MS1 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 03:10 | Calibration End Date: 06/26/2024 06:01 | Calibration ID: 94894

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-658367/13	MS1_5856.D
Level 2	IC 280-658367/14	MS1_5857.D
Level 3	IC 280-658367/15	MS1_5858.D
Level 4	IC 280-658367/16	MS1_5859.D
Level 5	IC 280-658367/17	MS1_5860.D
Level 6	IC 280-658367/18	MS1_5861.D
Level 7	IC 280-658367/19	MS1_5862.D
Level 8	IC 280-658367/20	MS1_5863.D
Level 9	IC 280-658367/21	MS1_5864.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	4153 420745	8540 651884	14672 801961	39044 1533511	88549	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	5835 486228	11880 722034	19752 926590	44199 1828990	104846	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	6097 520652	12081 779819	22537 988421	47985 1960352	108254	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin1	+++++ 228719	5820 392811	8150 515149	17852 1120630	44399	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	4420 329903	7267 497813	15131 630748	32655 1268797	67986	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	11133 868047	20511 1309891	36311 1664732	80166 3348063	186412	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	5773 585622	12569 882249	22432 1164472	54446 2259418	122440	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 65826	1633 103164	3074 128549	6269 270922	13862	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	445366 446448	452331 447062	452559 440943	441533 443381	438222	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	553219 572701	551582 570426	579226 563136	572770 569700	571149	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1938880 1927748	1928760 1951933	1924573 1891760	1934393 1924777	1921169	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	650186 650720	646910 662730	665739 642811	664434 666957	653007	50.0 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

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5856.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Jun-2024 03:10:30 ALS Bottle#: 25 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 1
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:57:49 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:52:03

	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	1926621	50.0	50.0	
*	2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	432034	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	11.058	11.059	-0.001	96	681588	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	445366	50.0	50.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	553219	50.0	48.8	
$	6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	1938880	50.0	50.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	84	650186	50.0	49.6	
	9 Dichlorodifluoromethane	85	1.813	1.813	0.000	98	4153	0.5000	0.5075	
	10 Chloromethane	50	2.008	2.009	-0.001	96	5835	0.5000	0.5801	
	11 Vinyl chloride	62	2.134	2.134	0.000	93	6097	0.5000	0.5688	
	13 Bromomethane	94	2.511	2.497	0.014	83	3713	0.5000	1.11	
	14 Chloroethane	64	2.623	2.623	0.000	93	4420	0.5000	0.6325	
	15 Dichlorofluoromethane	67	2.860	2.861	-0.001	96	11133	0.5000	0.6115	
	16 Trichlorofluoromethane	101	2.888	2.889	0.000	96	5773	0.5000	0.4953	
	75 2-Chloroethyl vinyl ether	63	7.008	7.023	-0.014	1	1410	0.5000	1.01	

QC Flag Legend
Processing Flags

Reagents:
Cal Dil Std_00379 Amount Added: 5.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

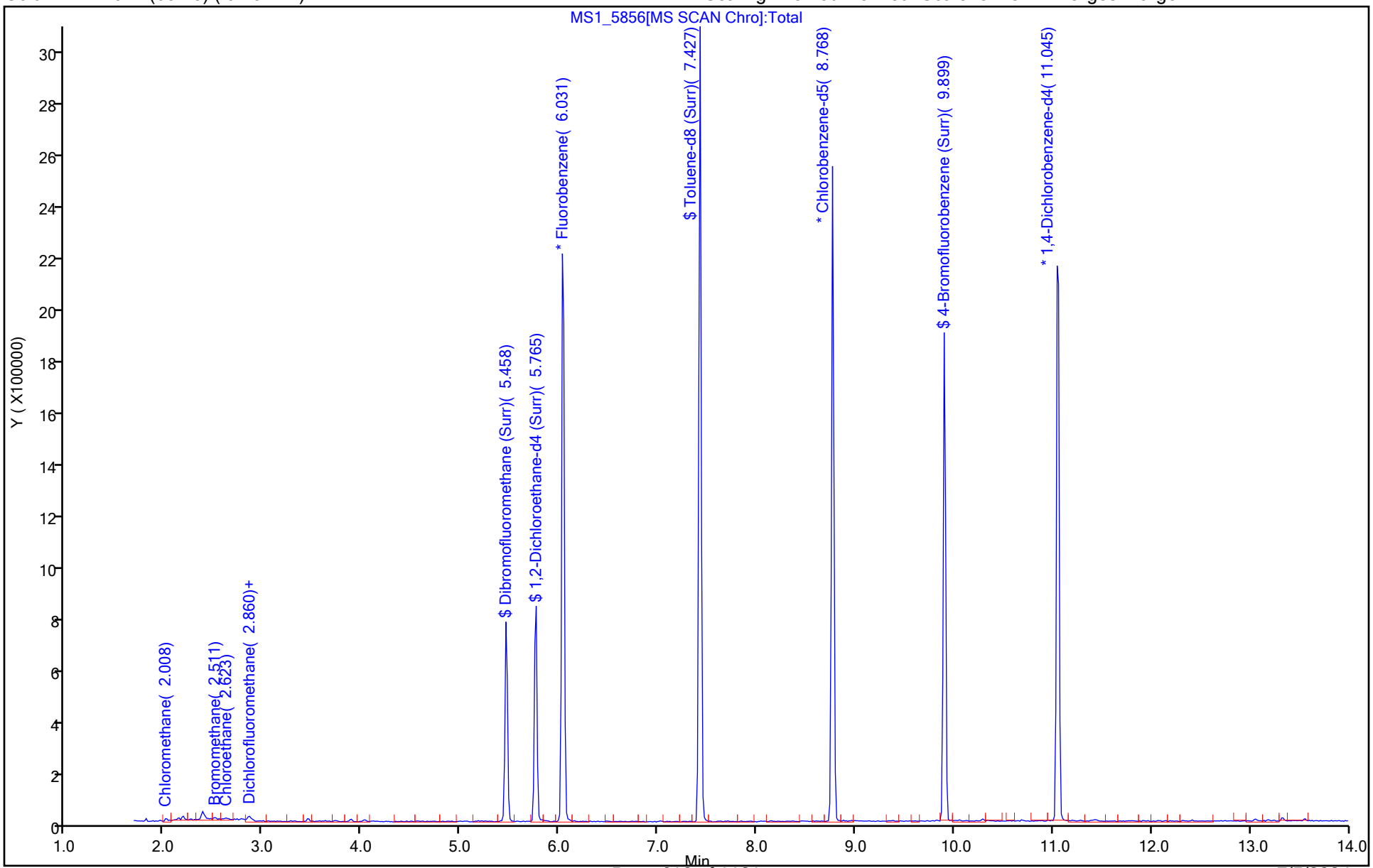
Report Date: 26-Jun-2024 09:57:50 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5856.D

Injection Date:	26-Jun-2024 03:10:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5857.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Jun-2024 03:32:30 ALS Bottle#: 26 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 2
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:57:51 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 09:55:01

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	6.031	6.031	0.000	98	1924790	50.0	50.0	
*	2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	442487	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	670712	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	452331	50.0	50.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	551582	50.0	48.7	
$	6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	93	1928760	50.0	49.5	
$	7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	84	646910	50.0	50.1	
	9 Dichlorodifluoromethane	85	1.813	1.813	0.000	98	8540	1.00	1.04	
	10 Chloromethane	50	2.008	2.009	-0.001	98	11880	1.00	1.18	
	11 Vinyl chloride	62	2.134	2.134	0.000	97	12081	1.00	1.13	
	13 Bromomethane	94	2.511	2.497	0.014	93	5820	1.00	1.50	
	14 Chloroethane	64	2.623	2.623	0.000	98	7267	1.00	1.04	
	15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	20511	1.00	1.13	
	16 Trichlorofluoromethane	101	2.888	2.889	0.000	95	12569	1.00	1.08	
	75 2-Chloroethyl vinyl ether	63	7.022	7.023	0.000	52	1633	1.00	1.17	

QC Flag Legend
Processing Flags

Reagents:
Cal Dil Std_00379 Amount Added: 10.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

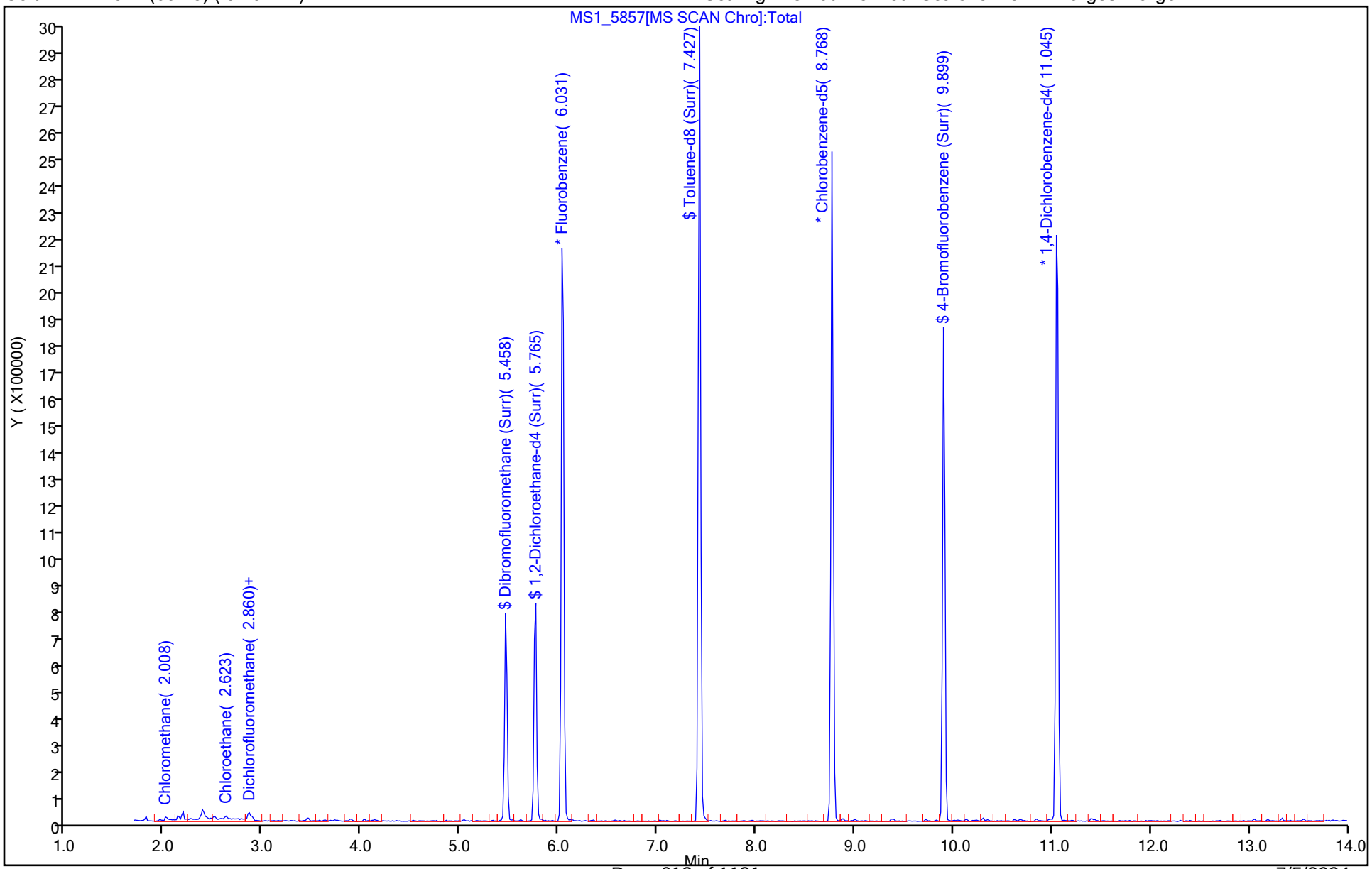
Report Date: 26-Jun-2024 09:57:51 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5857.D

Injection Date:	26-Jun-2024 03:32:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
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\20240626-134885.b\MS1_5858.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Jun-2024 03:53:30 ALS Bottle#: 27 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 3
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:57:53 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:52:29

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	6.031	6.031	0.000	99	1927516	50.0	50.0	
*	2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	435555	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	688492	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	452559	50.0	50.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	579226	50.0	51.0	
$	6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	94	1924573	50.0	50.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	83	665739	50.0	50.2	
	9 Dichlorodifluoromethane	85	1.813	1.813	0.000	98	14672	2.00	1.79	
	10 Chloromethane	50	2.009	2.009	0.000	100	19752	2.00	1.96	
	11 Vinyl chloride	62	2.134	2.134	0.000	96	22537	2.00	2.10	
	13 Bromomethane	94	2.511	2.497	0.014	92	8150	2.00	1.94	
	14 Chloroethane	64	2.623	2.623	0.000	99	15131	2.00	2.16	
	15 Dichlorofluoromethane	67	2.860	2.861	-0.001	96	36311	2.00	1.99	
	16 Trichlorofluoromethane	101	2.888	2.889	0.000	98	22432	2.00	1.92	
	75 2-Chloroethyl vinyl ether	63	7.022	7.023	0.000	85	3074	2.00	2.21	

QC Flag Legend
Processing Flags

Reagents:
Cal Dil Std_00379 Amount Added: 20.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

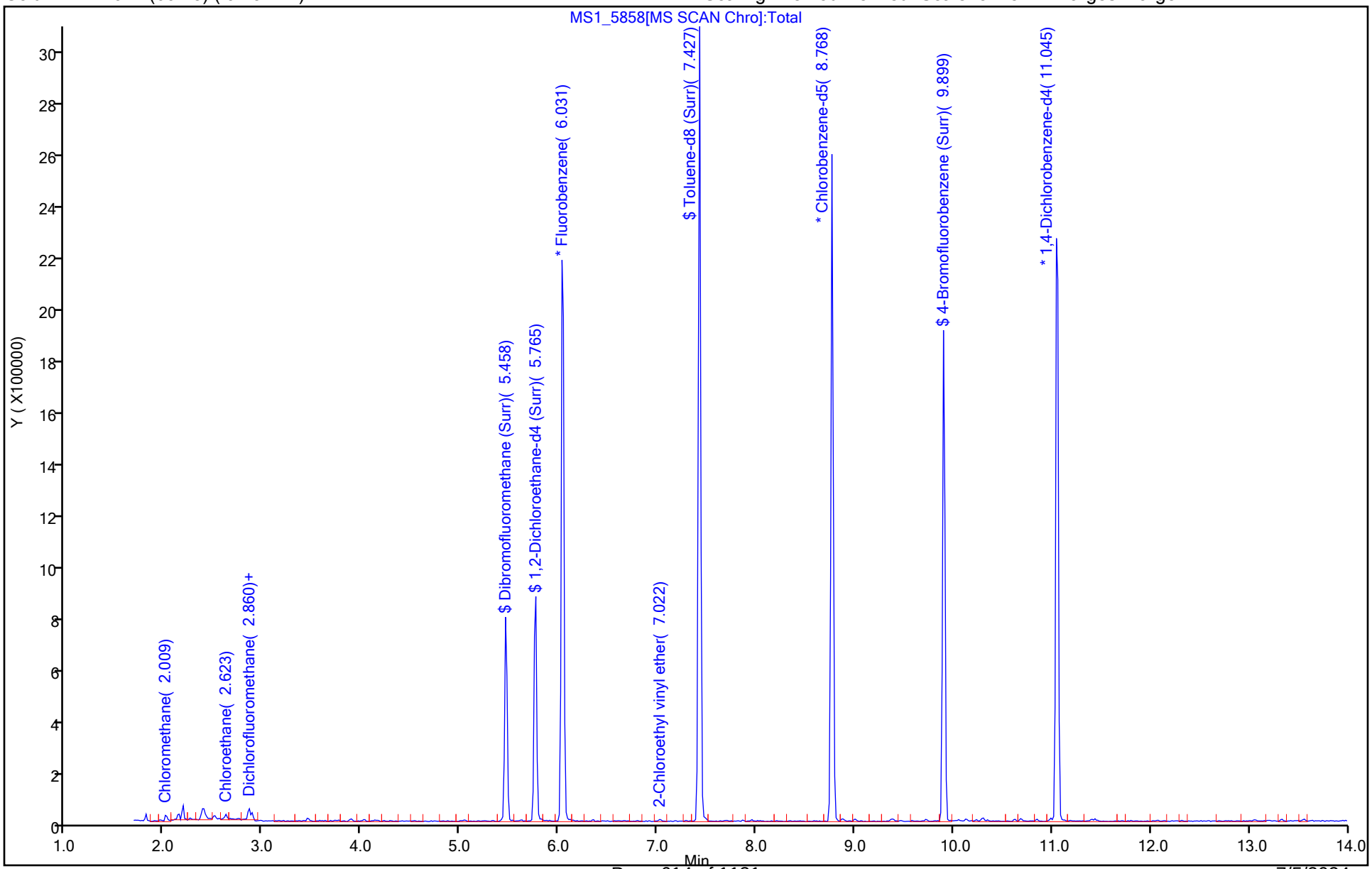
Report Date: 26-Jun-2024 09:57:53 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5858.D

Injection Date:	26-Jun-2024 03:53:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5859.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Jun-2024 04:14:30 ALS Bottle#: 28 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 4
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:57:56 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 09:54:47

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	1942999	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	443753	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	681729	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	441533	50.0	49.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	572770	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1934393	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	664434	50.0	50.6	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	39044	5.00	4.73	
10 Chloromethane	50	2.009	2.009	0.000	97	44199	5.00	4.36	
11 Vinyl chloride	62	2.134	2.134	0.000	97	47985	5.00	4.44	
13 Bromomethane	94	2.497	2.497	0.000	92	17852	5.00	3.74	
14 Chloroethane	64	2.623	2.623	0.000	99	32655	5.00	4.63	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	80166	5.00	4.37	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	54446	5.00	4.63	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.001	91	6269	5.00	4.46	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 1.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

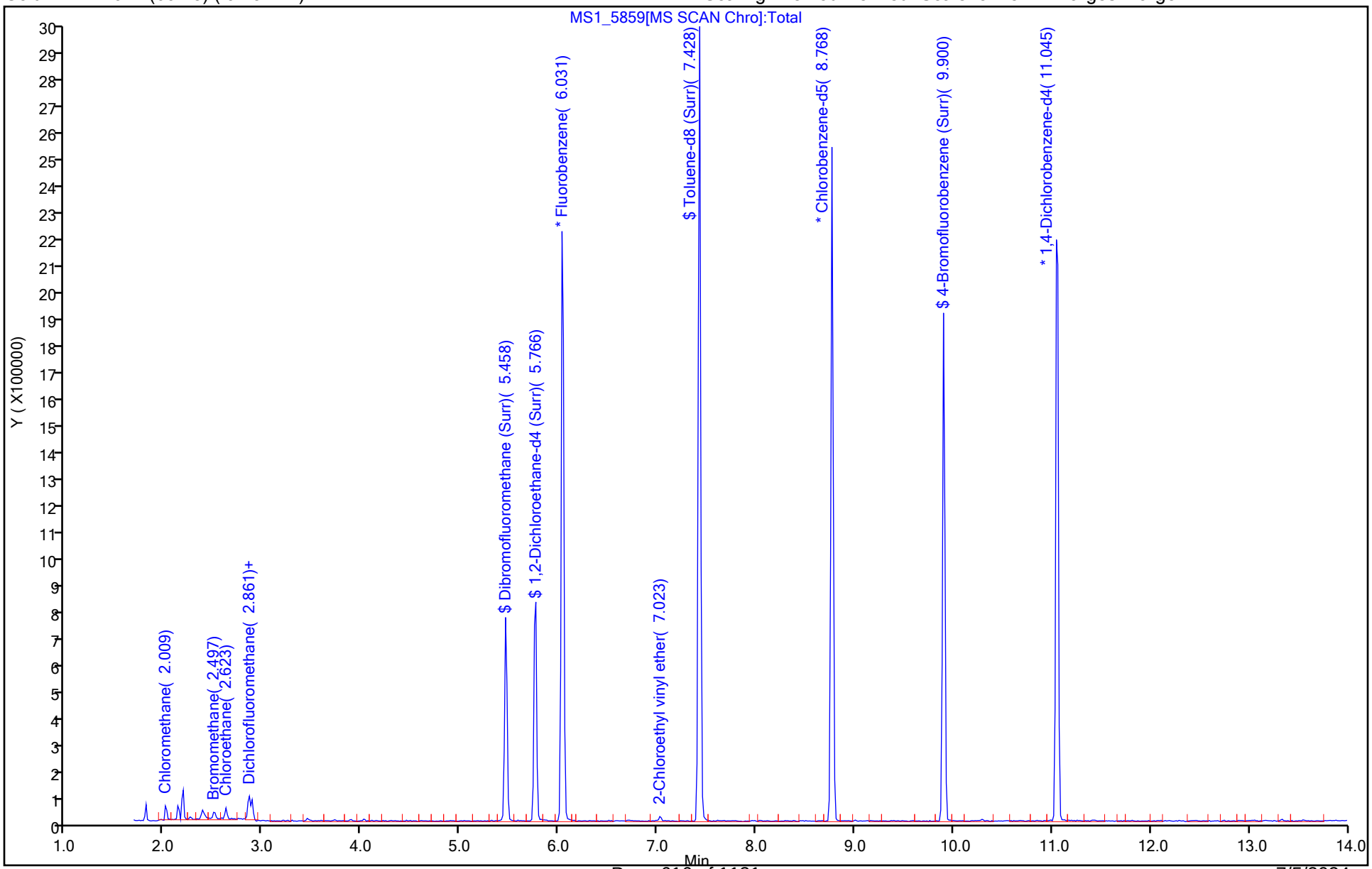
Report Date: 26-Jun-2024 09:57:57 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5859.D

Injection Date:	26-Jun-2024 04:14:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5860.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Jun-2024 04:36:30 ALS Bottle#: 29 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 5
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:57:59 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:52:51

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	99	1929619	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	432928	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	683581	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	438222	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	571149	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	94	1921169	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	84	653007	50.0	49.6	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	88549	10.0	10.8	
10 Chloromethane	50	2.009	2.009	0.000	99	104846	10.0	10.4	
11 Vinyl chloride	62	2.134	2.134	0.000	98	108254	10.0	10.1	
13 Bromomethane	94	2.497	2.497	0.000	91	44399	10.0	8.76	
14 Chloroethane	64	2.623	2.623	0.000	100	67986	10.0	9.71	
15 Dichlorofluoromethane	67	2.861	2.861	-0.001	97	186412	10.0	10.2	
16 Trichlorofluoromethane	101	2.888	2.889	0.000	99	122440	10.0	10.5	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	0.000	92	13862	10.0	9.94	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 2.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

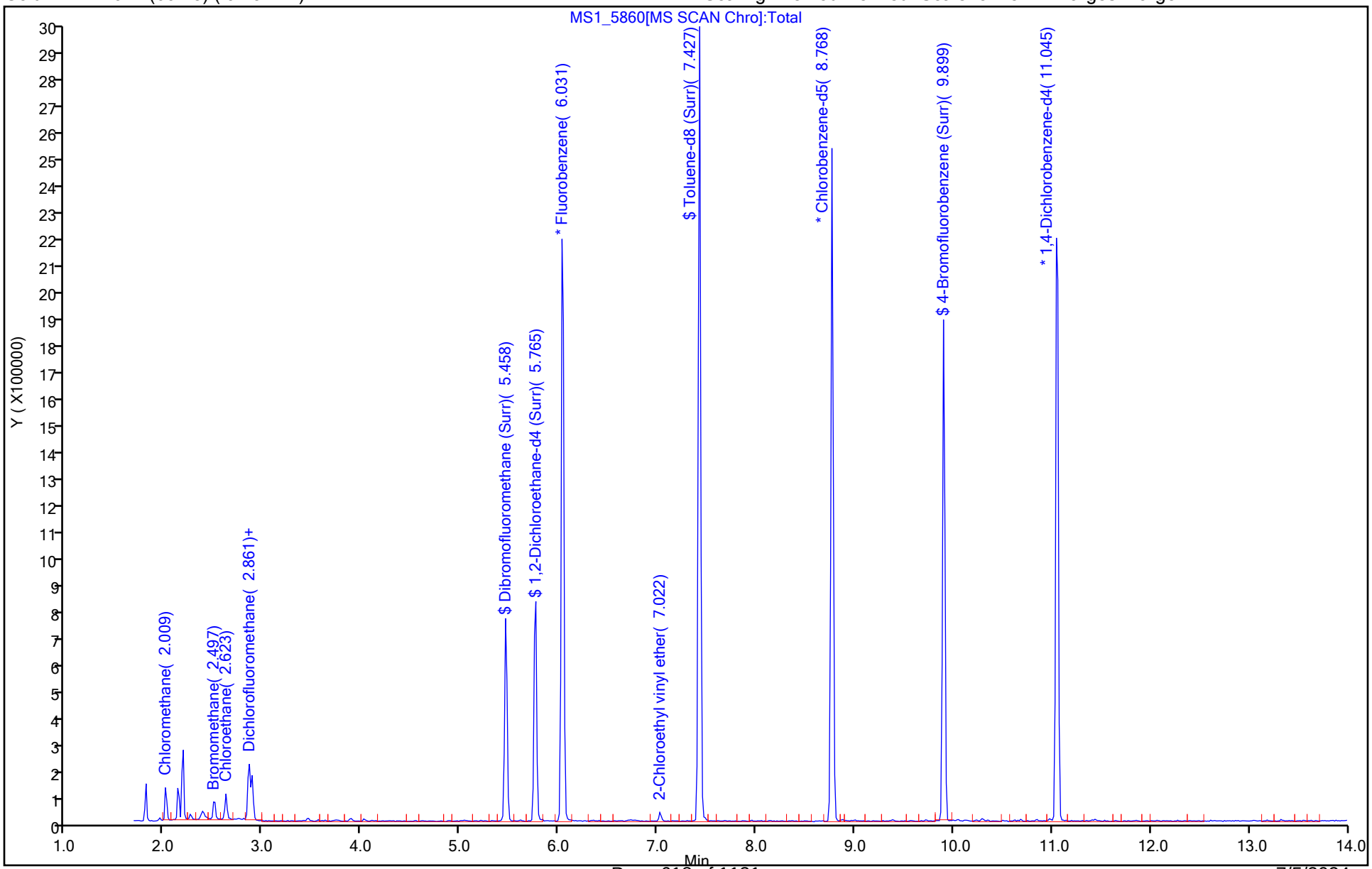
Report Date: 26-Jun-2024 09:57:59 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5860.D

Injection Date:	26-Jun-2024 04:36:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5861.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Jun-2024 04:57:30 ALS Bottle#: 30 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 6
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:58:02 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:53:06

	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	1932140	50.0	50.0	
*	2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	441215	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	682240	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	446448	50.0	50.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	572701	50.0	50.3	
$	6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1927748	50.0	49.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	650720	50.0	49.6	
	9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	420745	50.0	51.3	
	10 Chloromethane	50	2.009	2.009	0.000	99	486228	50.0	48.2	
	11 Vinyl chloride	62	2.134	2.134	0.000	98	520652	50.0	48.4	
	13 Bromomethane	94	2.497	2.497	0.000	91	228719	50.0	43.4	
	14 Chloroethane	64	2.623	2.623	0.000	100	329903	50.0	47.1	
	15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	868047	50.0	47.5	
	16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	585622	50.0	50.1	
	75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	65826	50.0	47.1	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 10.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

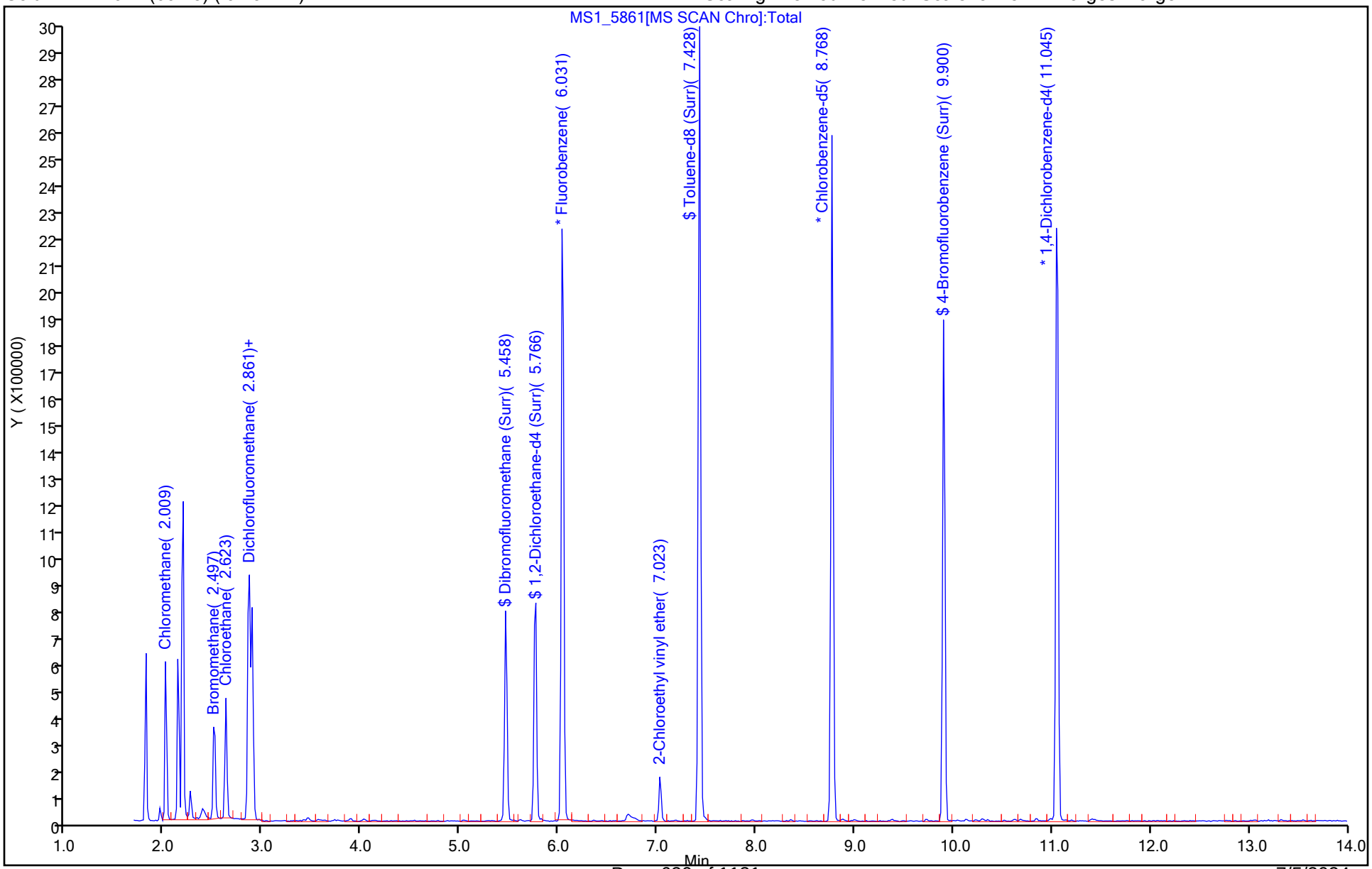
Report Date: 26-Jun-2024 09:58:02 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5861.D

Injection Date:	26-Jun-2024 04:57:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5862.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Jun-2024 05:18:30 ALS Bottle#: 31 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 7
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:58:04 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 09:50:50

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	1921531	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	439392	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	681398	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	447062	50.0	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	570426	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	94	1951933	50.0	50.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	84	662730	50.0	50.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	651884	75.0	79.9	
10 Chloromethane	50	2.008	2.009	-0.001	99	722034	75.0	72.0	
11 Vinyl chloride	62	2.134	2.134	0.000	98	779819	75.0	72.9	
13 Bromomethane	94	2.497	2.497	0.000	91	392811	75.0	74.6	
14 Chloroethane	64	2.623	2.623	0.000	100	497813	75.0	71.4	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	1309891	75.0	72.1	
16 Trichlorofluoromethane	101	2.888	2.889	0.000	98	882249	75.0	75.9	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	0.000	91	103164	75.0	74.3	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 15.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

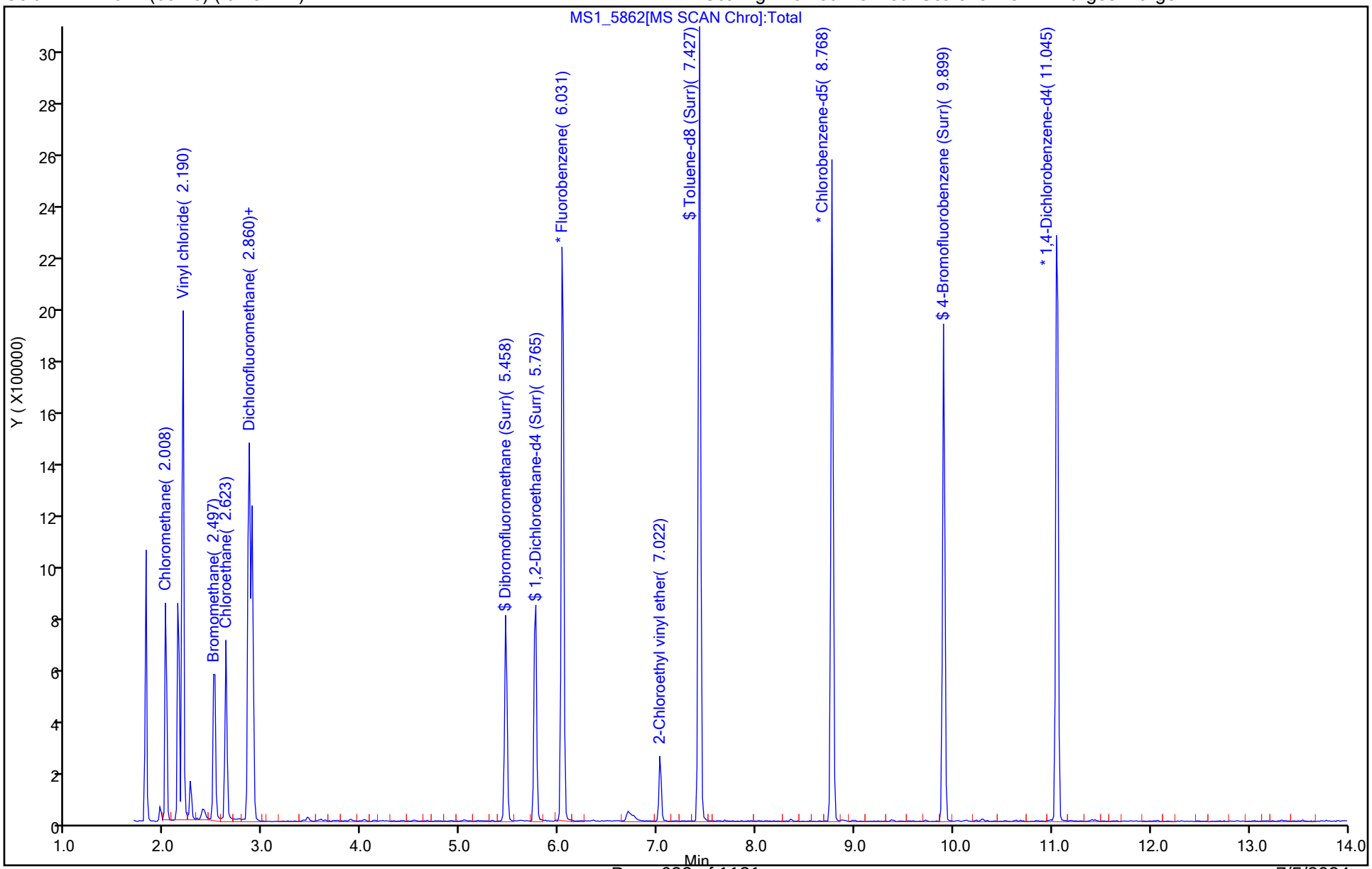
Report Date: 26-Jun-2024 09:58:04 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5862.D

Injection Date:	26-Jun-2024 05:18:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5863.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 26-Jun-2024 05:40:30 ALS Bottle#: 32 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 8
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:58:06 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:53:25

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	1892419	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	430629	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	670145	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	440943	50.0	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	563136	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	94	1891760	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	642811	50.0	49.8	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	801961	100.0	99.8	
10 Chloromethane	50	2.009	2.009	0.000	99	926590	100.0	93.8	
11 Vinyl chloride	62	2.134	2.134	0.000	98	988421	100.0	93.9	
13 Bromomethane	94	2.497	2.497	0.000	91	515149	100.0	99.2	
14 Chloroethane	64	2.623	2.623	0.000	100	630748	100.0	91.9	
15 Dichlorofluoromethane	67	2.861	2.861	-0.001	97	1664732	100.0	93.1	
16 Trichlorofluoromethane	101	2.888	2.889	0.000	99	1164472	100.0	101.7	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	0.000	92	128549	100.0	94.0	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 20.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

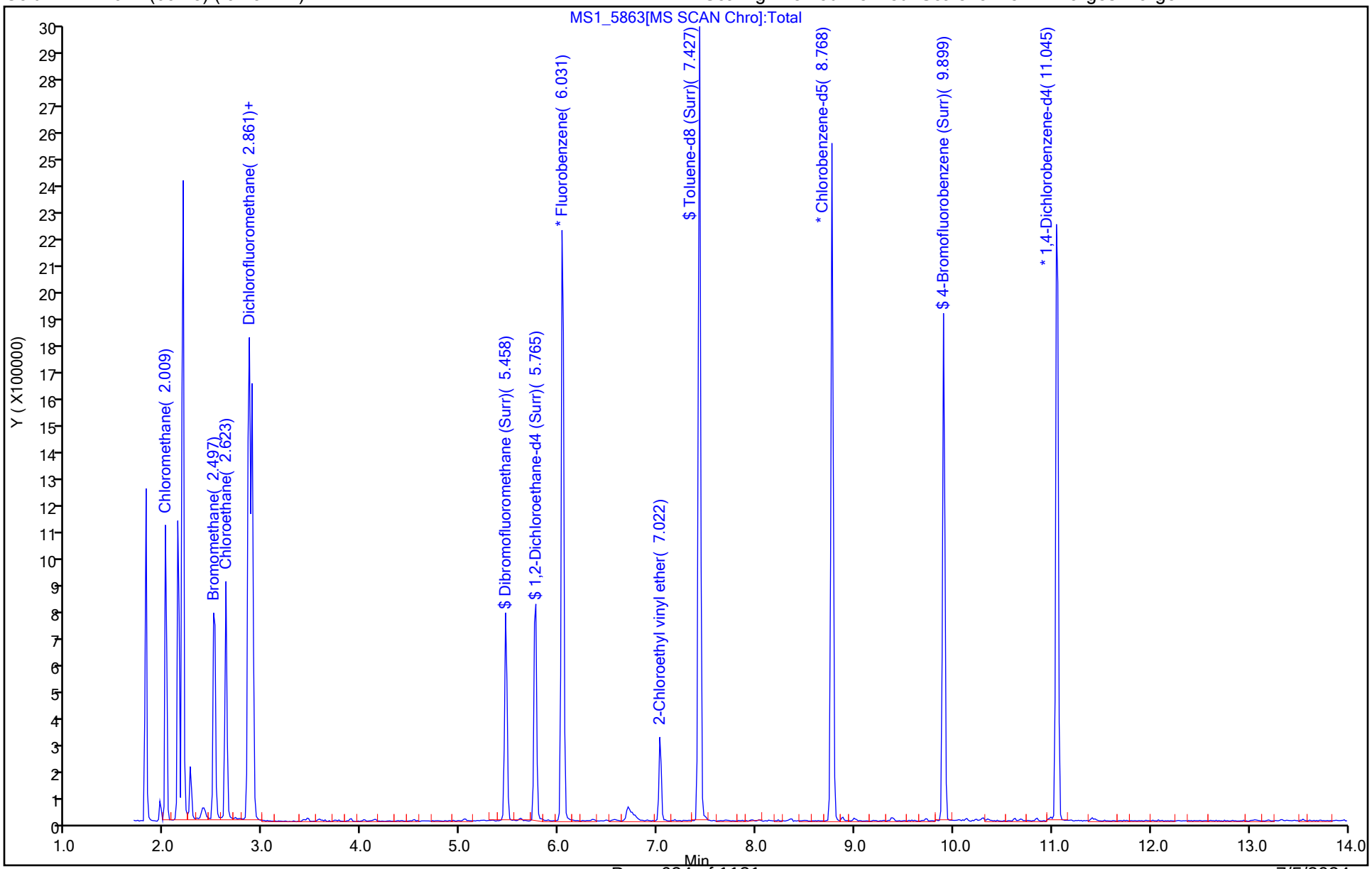
Report Date: 26-Jun-2024 09:58:07 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5863.D

Injection Date:	26-Jun-2024 05:40:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
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\20240626-134885.b\MS1_5864.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 26-Jun-2024 06:01:30 ALS Bottle#: 33 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ic 9
Misc. Info.: GAS
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub168

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 09:58:09 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 06:53:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1940700	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	438645	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	695227	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	443381	50.0	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	569700	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	94	1924777	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	666957	50.0	49.8	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	1533511	200.0	186.0	
10 Chloromethane	50	2.009	2.009	0.000	99	1828990	200.0	180.5	
11 Vinyl chloride	62	2.134	2.134	0.000	98	1960352	200.0	181.5	
13 Bromomethane	94	2.497	2.497	0.000	91	1120630	200.0	209.9	
14 Chloroethane	64	2.623	2.623	0.000	100	1268797	200.0	180.2	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	3348063	200.0	182.6	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	97	2259418	200.0	192.4	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.001	93	270922	200.0	193.1	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 40.00 Units: uL
mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

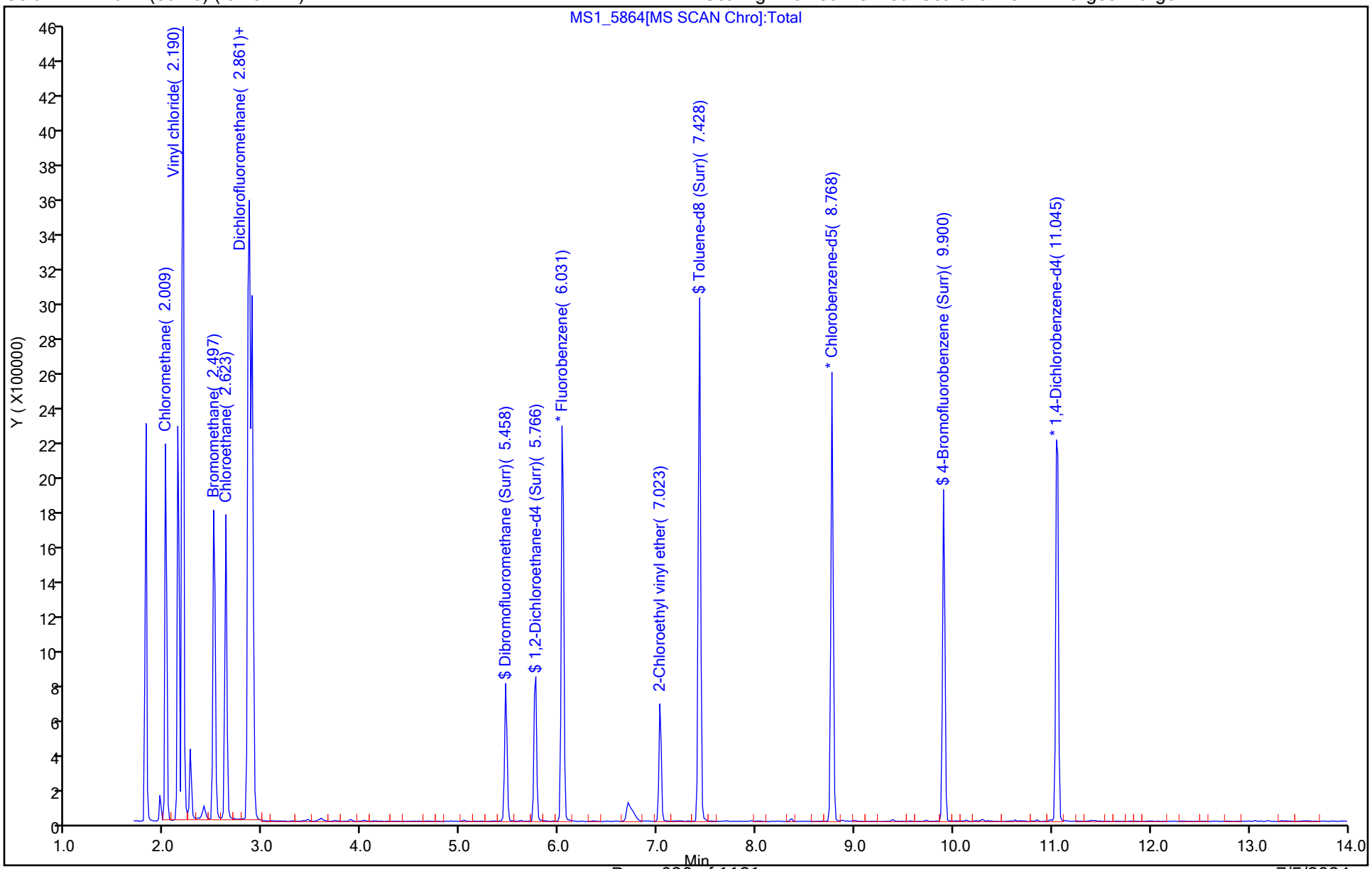
Report Date: 26-Jun-2024 09:58:09 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Injection Date:	26-Jun-2024 06:01:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	ic			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
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



7/5/2024
11:14:22 AM

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

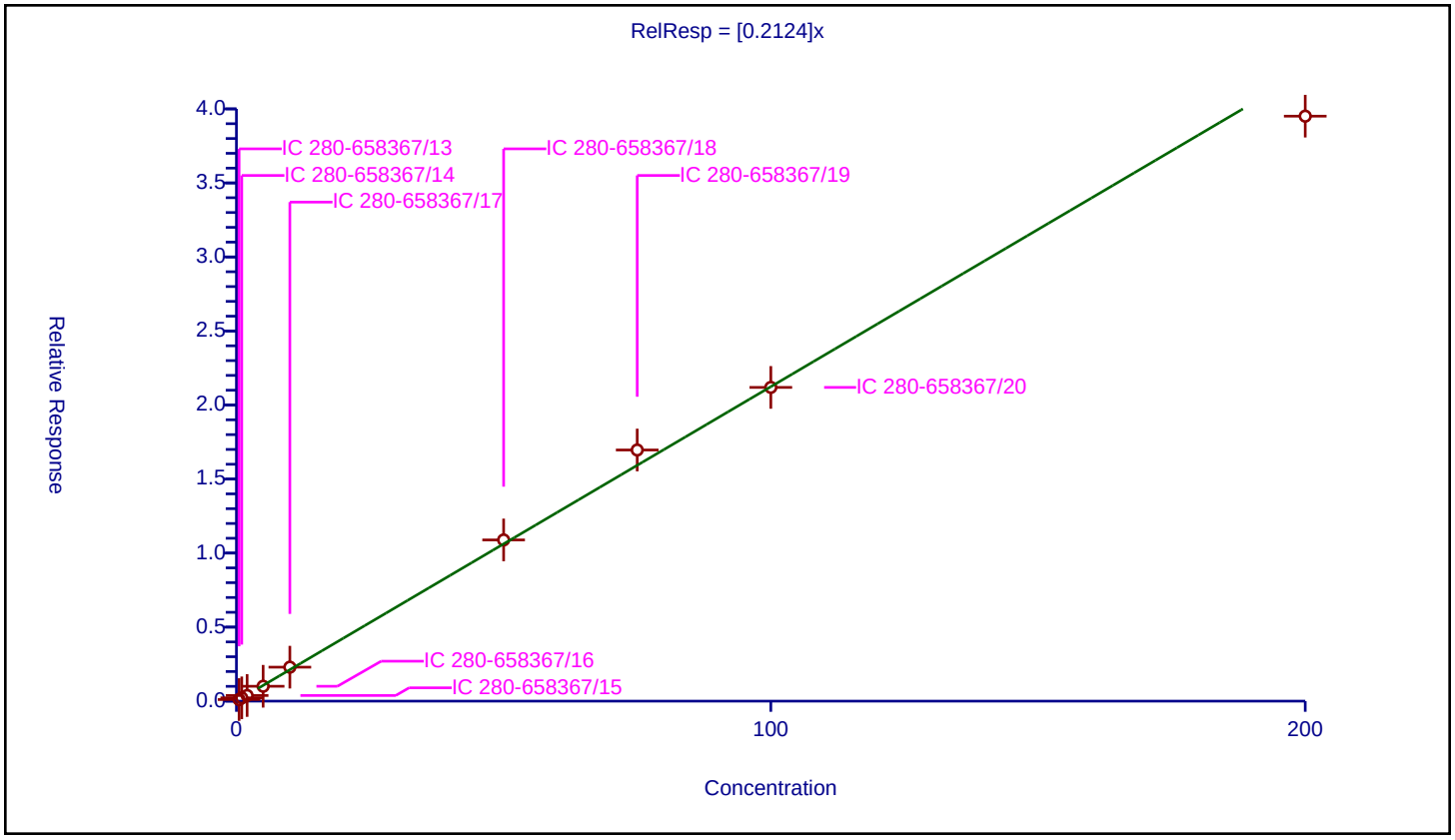
Curve Coefficients

Intercept:	0
Slope:	0.2124

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.107779	50.0	1926621.0	0.215559	Y
2	IC 280-658367/14	1.0	0.221842	50.0	1924790.0	0.221842	Y
3	IC 280-658367/15	2.0	0.380593	50.0	1927516.0	0.190297	Y
4	IC 280-658367/16	5.0	1.004735	50.0	1942999.0	0.200947	Y
5	IC 280-658367/17	10.0	2.294468	50.0	1929619.0	0.229447	Y
6	IC 280-658367/18	50.0	10.888057	50.0	1932140.0	0.217761	Y
7	IC 280-658367/19	75.0	16.96262	50.0	1921531.0	0.226168	Y
8	IC 280-658367/20	100.0	21.18878	50.0	1892419.0	0.211888	Y
9	IC 280-658367/21	200.0	39.509223	50.0	1940700.0	0.197546	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

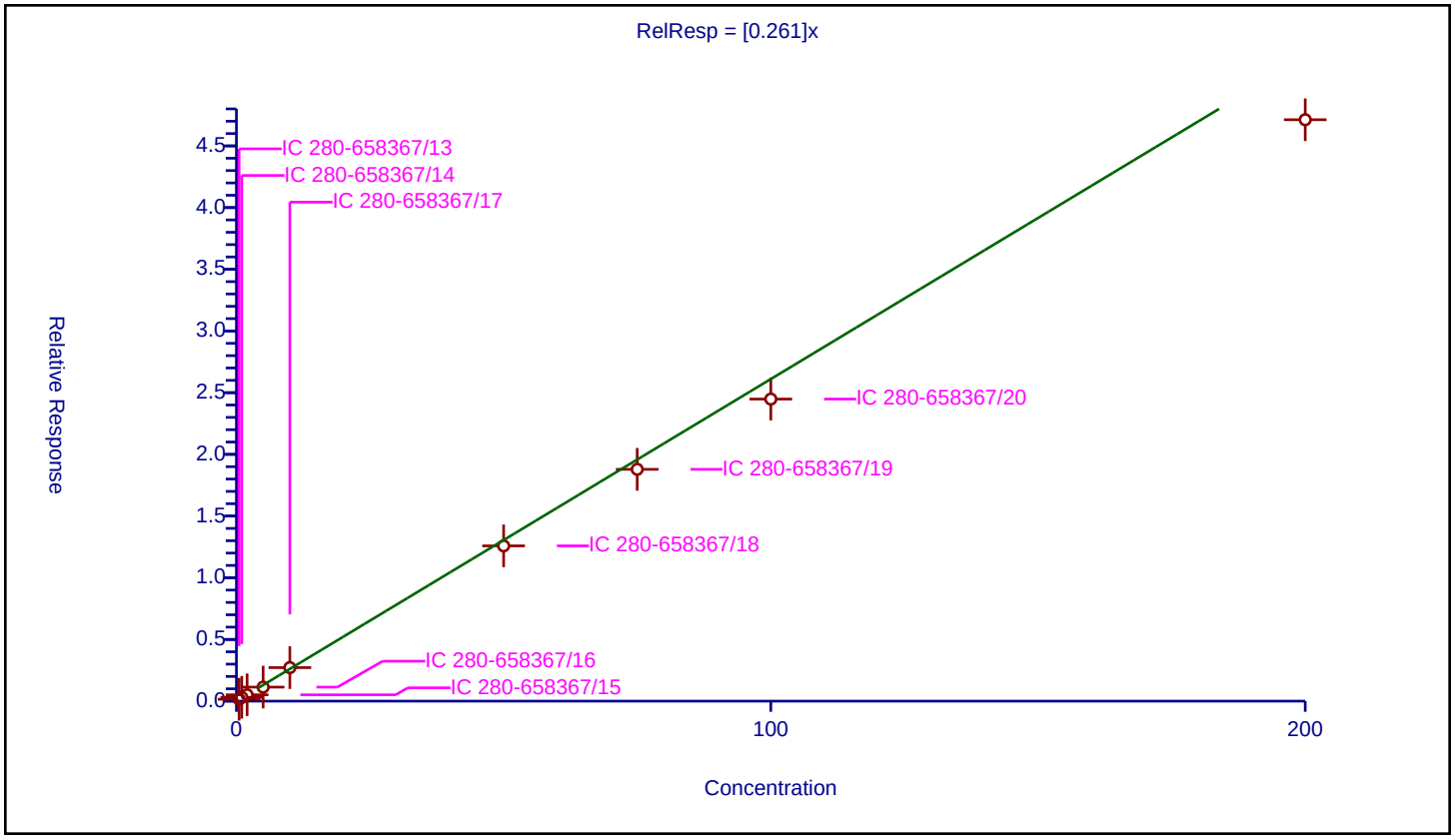
Curve Coefficients

Intercept:	0
Slope:	0.261

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.151431	50.0	1926621.0	0.302862	Y
2	IC 280-658367/14	1.0	0.308605	50.0	1924790.0	0.308605	Y
3	IC 280-658367/15	2.0	0.512369	50.0	1927516.0	0.256185	Y
4	IC 280-658367/16	5.0	1.137391	50.0	1942999.0	0.227478	Y
5	IC 280-658367/17	10.0	2.716754	50.0	1929619.0	0.271675	Y
6	IC 280-658367/18	50.0	12.582629	50.0	1932140.0	0.251653	Y
7	IC 280-658367/19	75.0	18.787987	50.0	1921531.0	0.250506	Y
8	IC 280-658367/20	100.0	24.481629	50.0	1892419.0	0.244816	Y
9	IC 280-658367/21	200.0	47.121915	50.0	1940700.0	0.23561	Y



7/5/2024
11:14:22 AM

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

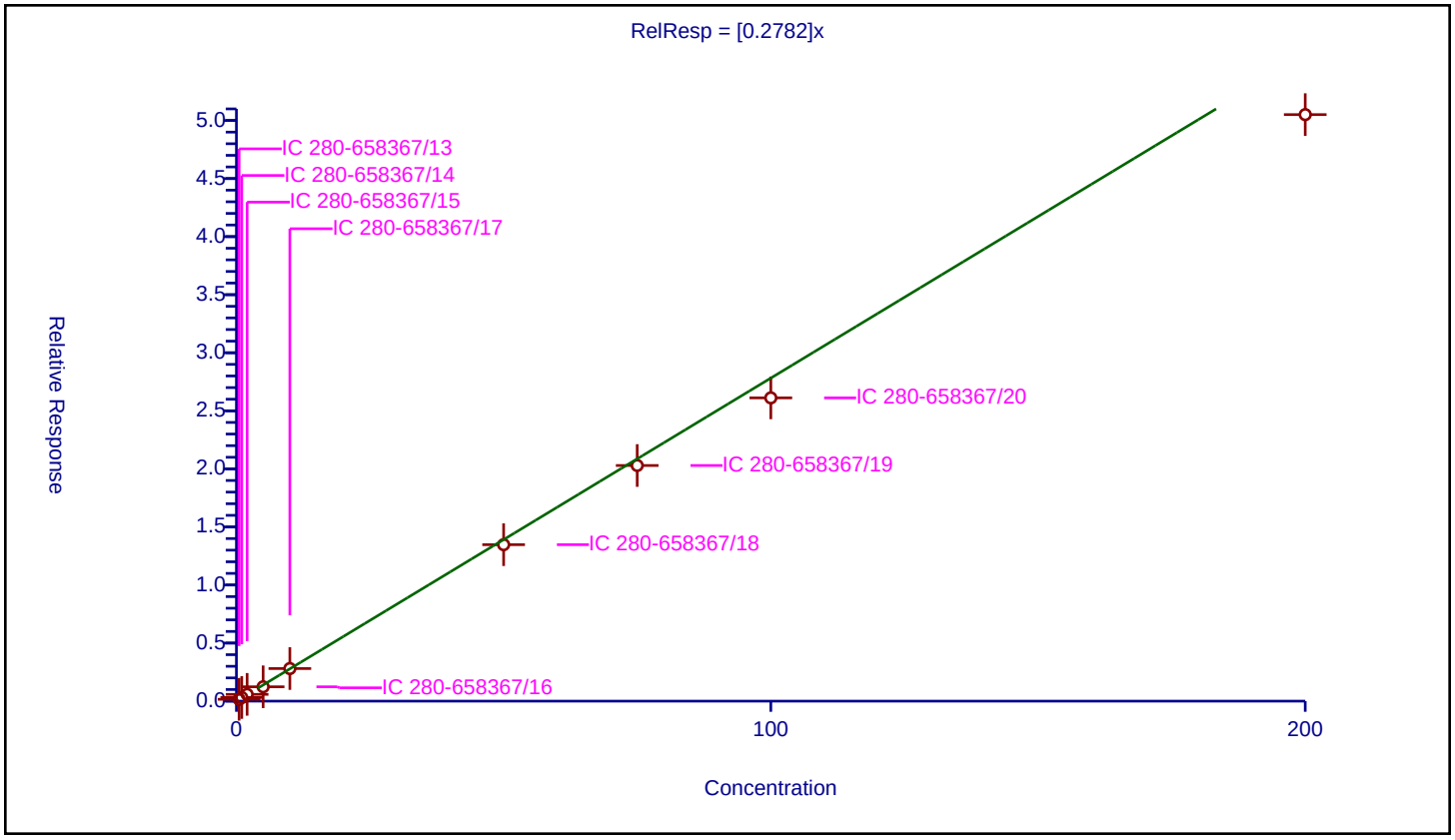
Curve Coefficients

Intercept:	0
Slope:	0.2782

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.15823	50.0	1926621.0	0.316461	Y
2	IC 280-658367/14	1.0	0.313826	50.0	1924790.0	0.313826	Y
3	IC 280-658367/15	2.0	0.584613	50.0	1927516.0	0.292306	Y
4	IC 280-658367/16	5.0	1.234818	50.0	1942999.0	0.246964	Y
5	IC 280-658367/17	10.0	2.805062	50.0	1929619.0	0.280506	Y
6	IC 280-658367/18	50.0	13.473454	50.0	1932140.0	0.269469	Y
7	IC 280-658367/19	75.0	20.291606	50.0	1921531.0	0.270555	Y
8	IC 280-658367/20	100.0	26.115279	50.0	1892419.0	0.261153	Y
9	IC 280-658367/21	200.0	50.506312	50.0	1940700.0	0.252532	Y



Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

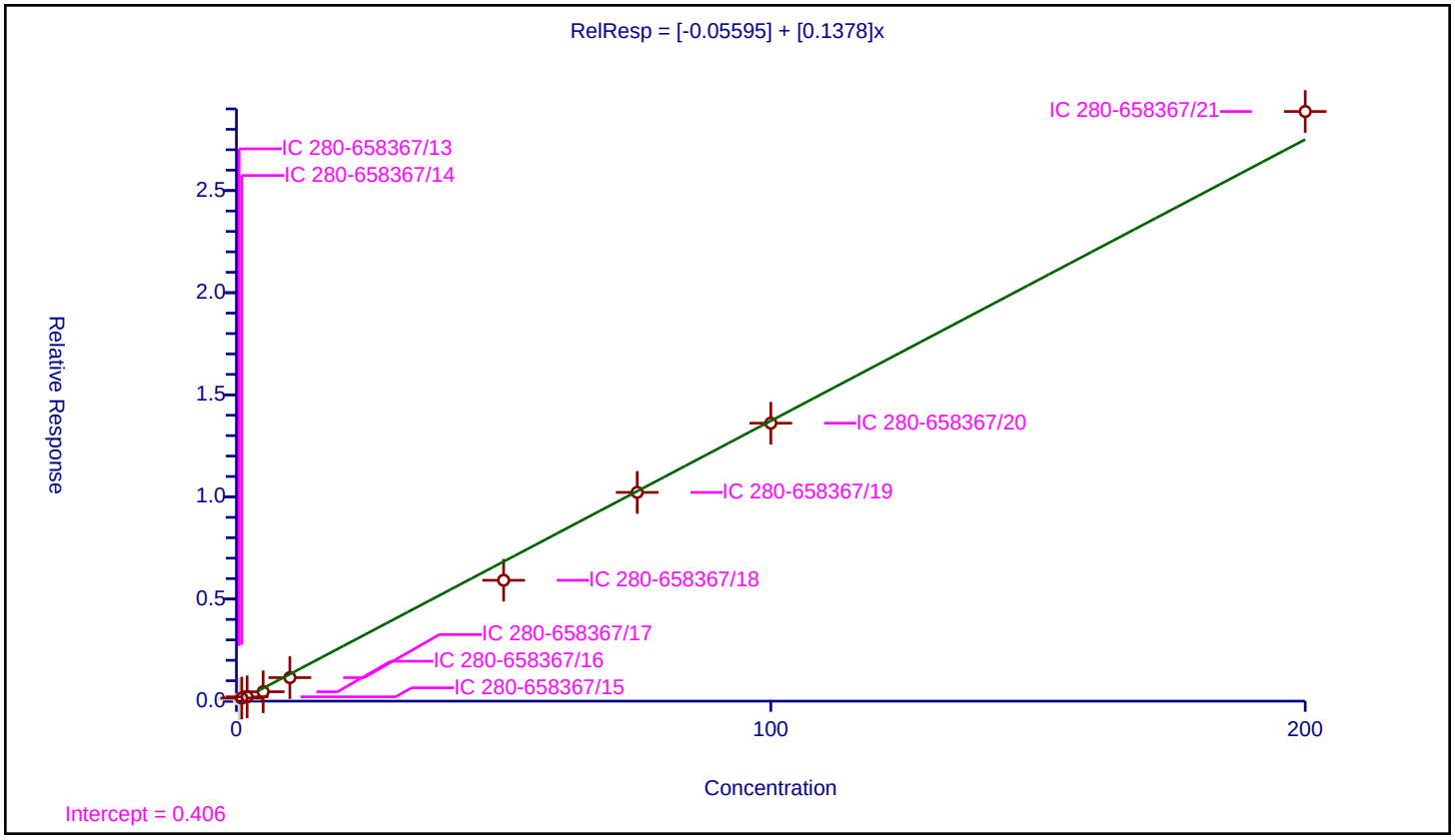
Curve Coefficients

Intercept:	-0.05595
Slope:	0.1378

Error Coefficients

Relative Standard Deviation:	24.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.09636	50.0	1926621.0	0.192721	N
2	IC 280-658367/14	1.0	0.151185	50.0	1924790.0	0.151185	Y
3	IC 280-658367/15	2.0	0.211412	50.0	1927516.0	0.105706	Y
4	IC 280-658367/16	5.0	0.459393	50.0	1942999.0	0.091879	Y
5	IC 280-658367/17	10.0	1.15046	50.0	1929619.0	0.115046	Y
6	IC 280-658367/18	50.0	5.9188	50.0	1932140.0	0.118376	Y
7	IC 280-658367/19	75.0	10.221303	50.0	1921531.0	0.136284	Y
8	IC 280-658367/20	100.0	13.61086	50.0	1892419.0	0.136109	Y
9	IC 280-658367/21	200.0	28.871799	50.0	1940700.0	0.144359	Y



7/5/2024
11:14:22 AM

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

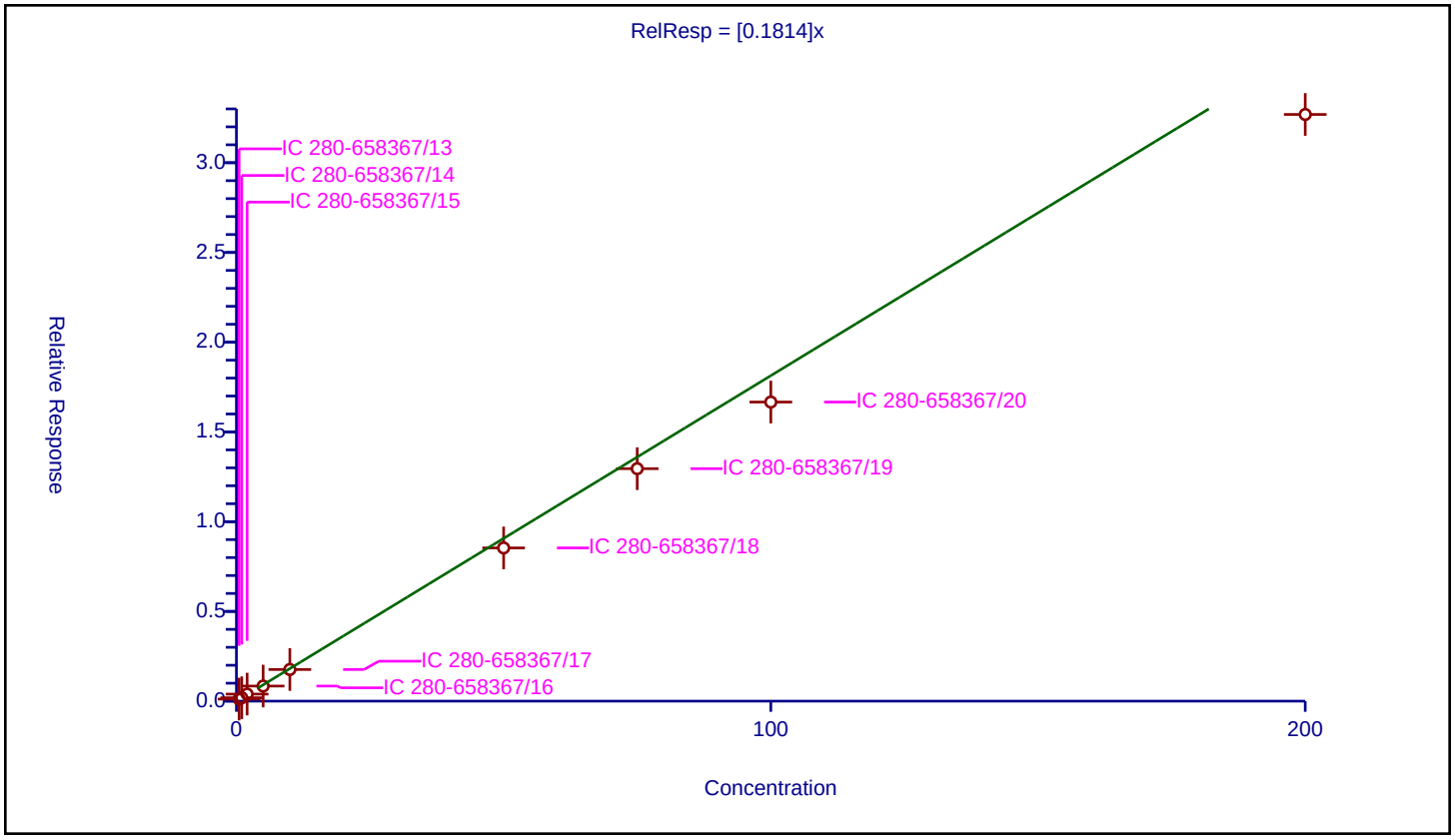
Curve Coefficients

Intercept:	0
Slope:	0.1814

Error Coefficients

Relative Standard Deviation:	11.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.114709	50.0	1926621.0	0.229417	Y
2	IC 280-658367/14	1.0	0.188774	50.0	1924790.0	0.188774	Y
3	IC 280-658367/15	2.0	0.3925	50.0	1927516.0	0.19625	Y
4	IC 280-658367/16	5.0	0.840325	50.0	1942999.0	0.168065	Y
5	IC 280-658367/17	10.0	1.761643	50.0	1929619.0	0.176164	Y
6	IC 280-658367/18	50.0	8.537244	50.0	1932140.0	0.170745	Y
7	IC 280-658367/19	75.0	12.953551	50.0	1921531.0	0.172714	Y
8	IC 280-658367/20	100.0	16.665125	50.0	1892419.0	0.166651	Y
9	IC 280-658367/21	200.0	32.689159	50.0	1940700.0	0.163446	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

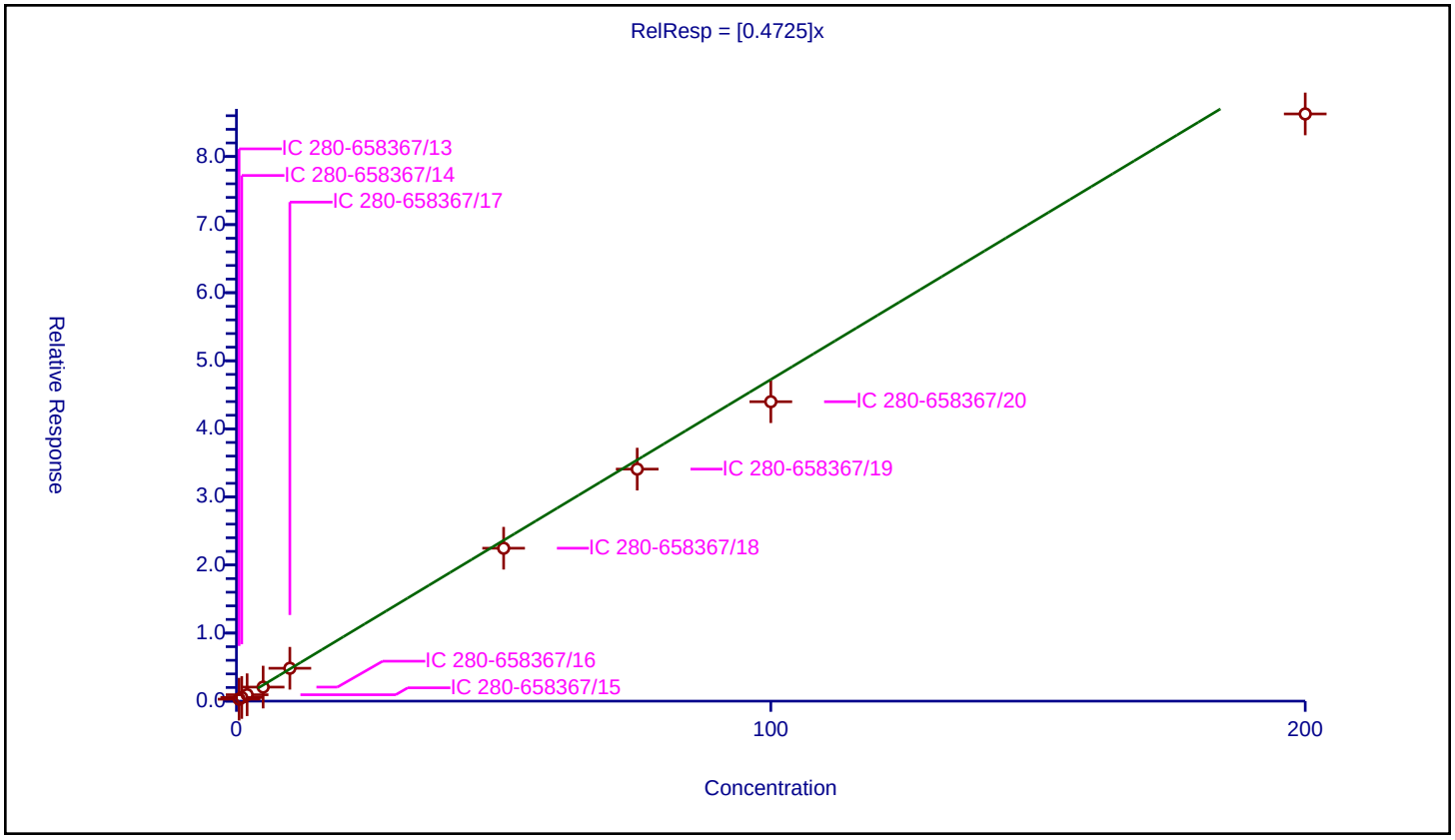
Curve Coefficients

Intercept:	0
Slope:	0.4725

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.288926	50.0	1926621.0	0.577851	Y
2	IC 280-658367/14	1.0	0.532811	50.0	1924790.0	0.532811	Y
3	IC 280-658367/15	2.0	0.941912	50.0	1927516.0	0.470956	Y
4	IC 280-658367/16	5.0	2.062945	50.0	1942999.0	0.412589	Y
5	IC 280-658367/17	10.0	4.83028	50.0	1929619.0	0.483028	Y
6	IC 280-658367/18	50.0	22.463357	50.0	1932140.0	0.449267	Y
7	IC 280-658367/19	75.0	34.084566	50.0	1921531.0	0.454461	Y
8	IC 280-658367/20	100.0	43.984234	50.0	1892419.0	0.439842	Y
9	IC 280-658367/21	200.0	86.259159	50.0	1940700.0	0.431296	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

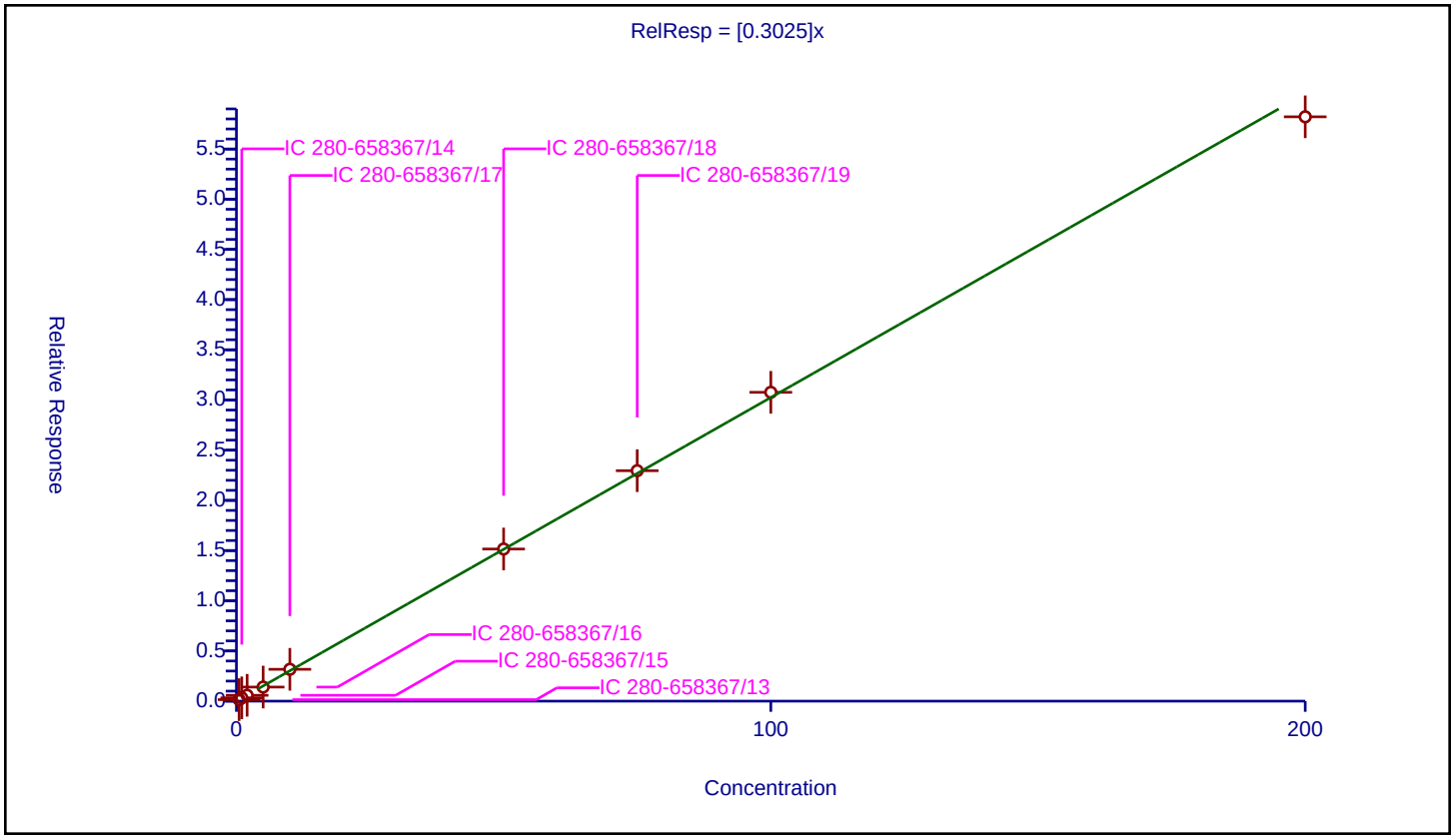
Curve Coefficients

Intercept:	0
Slope:	0.3025

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.149822	50.0	1926621.0	0.299644	Y
2	IC 280-658367/14	1.0	0.326503	50.0	1924790.0	0.326503	Y
3	IC 280-658367/15	2.0	0.581889	50.0	1927516.0	0.290944	Y
4	IC 280-658367/16	5.0	1.401082	50.0	1942999.0	0.280216	Y
5	IC 280-658367/17	10.0	3.172647	50.0	1929619.0	0.317265	Y
6	IC 280-658367/18	50.0	15.154751	50.0	1932140.0	0.303095	Y
7	IC 280-658367/19	75.0	22.956929	50.0	1921531.0	0.306092	Y
8	IC 280-658367/20	100.0	30.766759	50.0	1892419.0	0.307668	Y
9	IC 280-658367/21	200.0	58.211419	50.0	1940700.0	0.291057	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

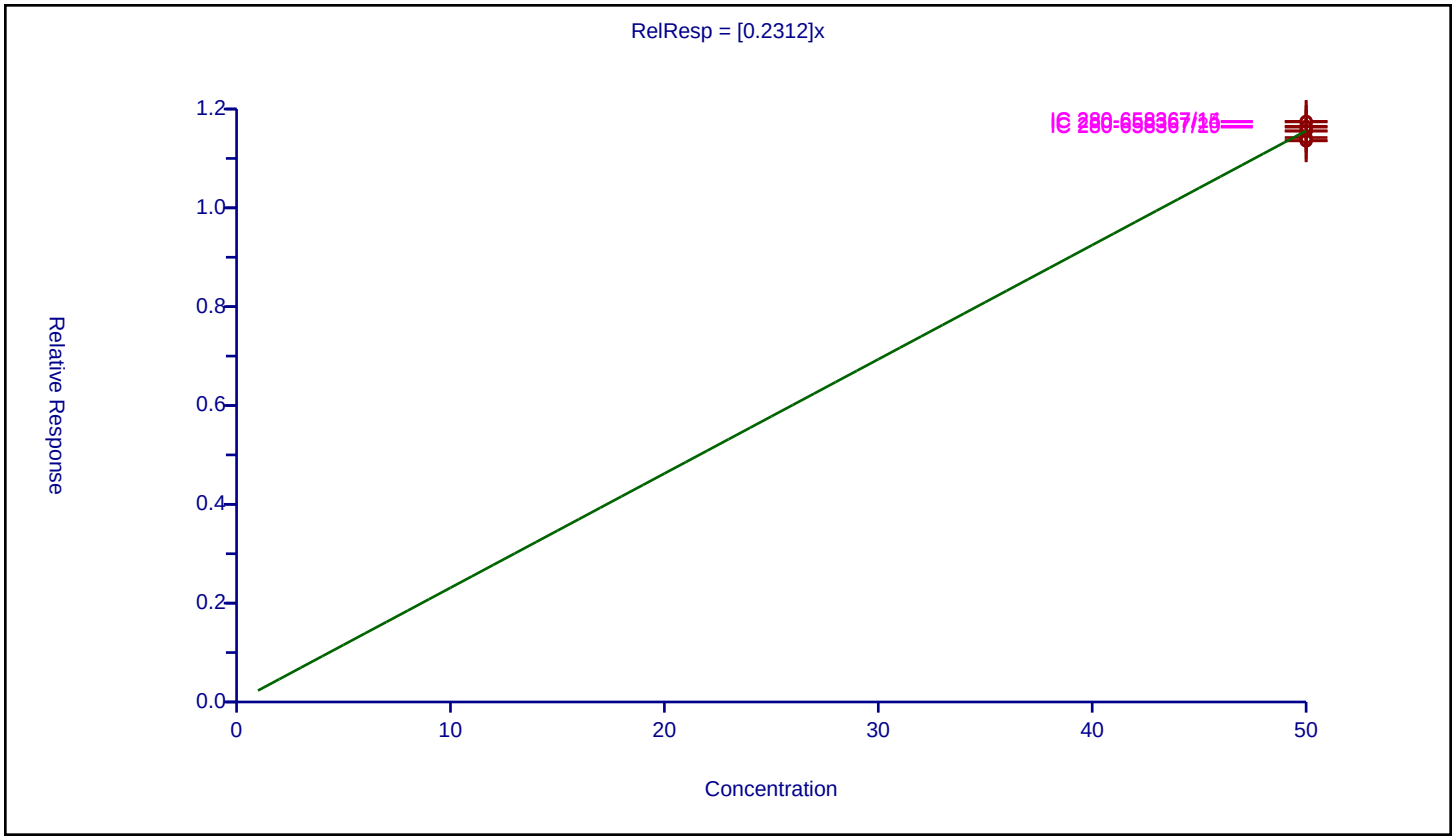
Curve Coefficients

Intercept:	0
Slope:	0.2312

Error Coefficients

Relative Standard Deviation:	1.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	50.0	11.558215	50.0	1926621.0	0.231164	Y
2	IC 280-658367/14	50.0	11.750139	50.0	1924790.0	0.235003	Y
3	IC 280-658367/15	50.0	11.739436	50.0	1927516.0	0.234789	Y
4	IC 280-658367/16	50.0	11.362152	50.0	1942999.0	0.227243	Y
5	IC 280-658367/17	50.0	11.355143	50.0	1929619.0	0.227103	Y
6	IC 280-658367/18	50.0	11.5532	50.0	1932140.0	0.231064	Y
7	IC 280-658367/19	50.0	11.632964	50.0	1921531.0	0.232659	Y
8	IC 280-658367/20	50.0	11.650248	50.0	1892419.0	0.233005	Y
9	IC 280-658367/21	50.0	11.423224	50.0	1940700.0	0.228464	Y



7/5/2024
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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

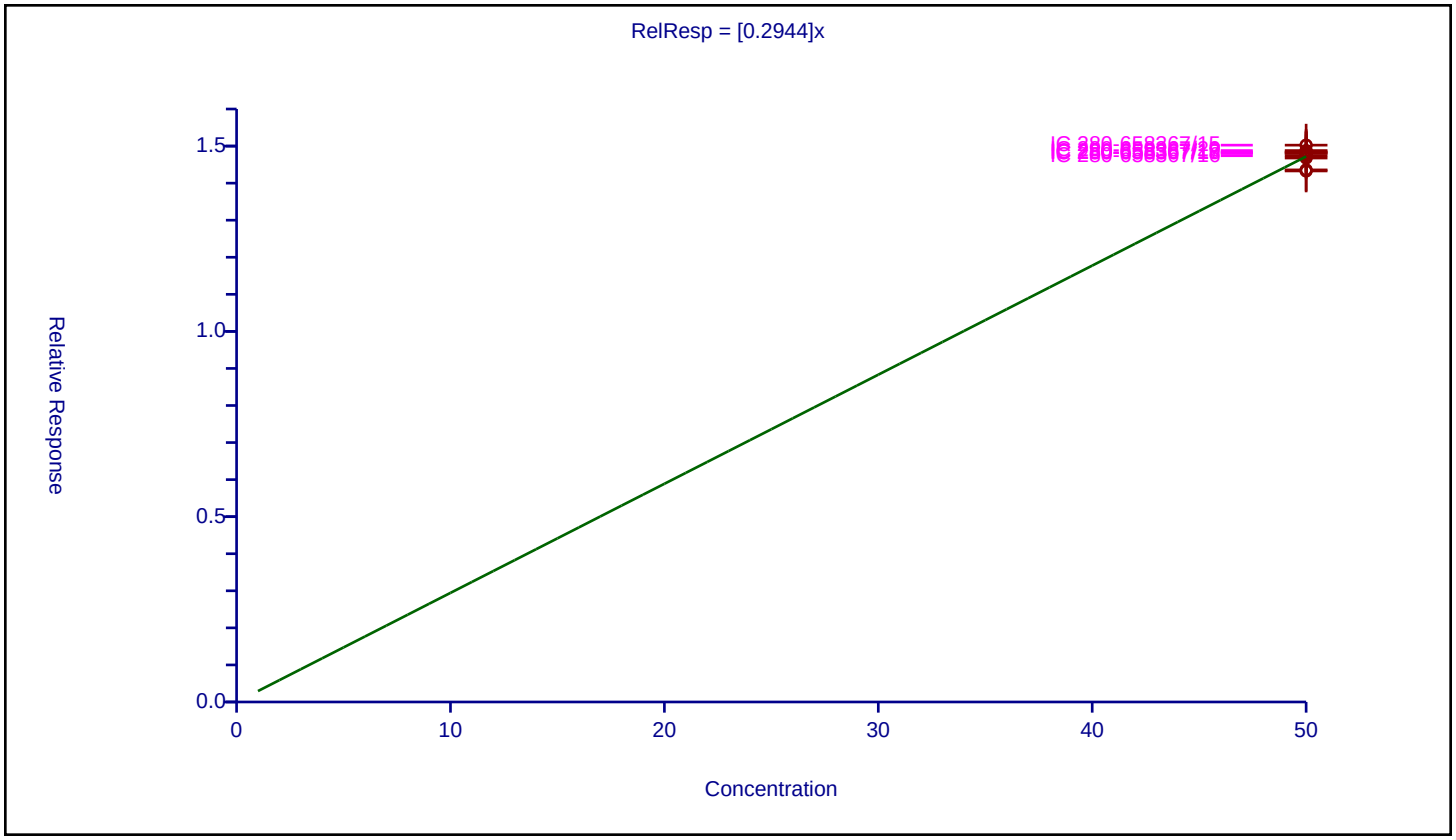
Curve Coefficients

Intercept:	0
Slope:	0.2944

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	50.0	14.357235	50.0	1926621.0	0.287145	Y
2	IC 280-658367/14	50.0	14.328368	50.0	1924790.0	0.286567	Y
3	IC 280-658367/15	50.0	15.025193	50.0	1927516.0	0.300504	Y
4	IC 280-658367/16	50.0	14.739328	50.0	1942999.0	0.294787	Y
5	IC 280-658367/17	50.0	14.799528	50.0	1929619.0	0.295991	Y
6	IC 280-658367/18	50.0	14.820381	50.0	1932140.0	0.296408	Y
7	IC 280-658367/19	50.0	14.843008	50.0	1921531.0	0.29686	Y
8	IC 280-658367/20	50.0	14.878735	50.0	1892419.0	0.297575	Y
9	IC 280-658367/21	50.0	14.677694	50.0	1940700.0	0.293554	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

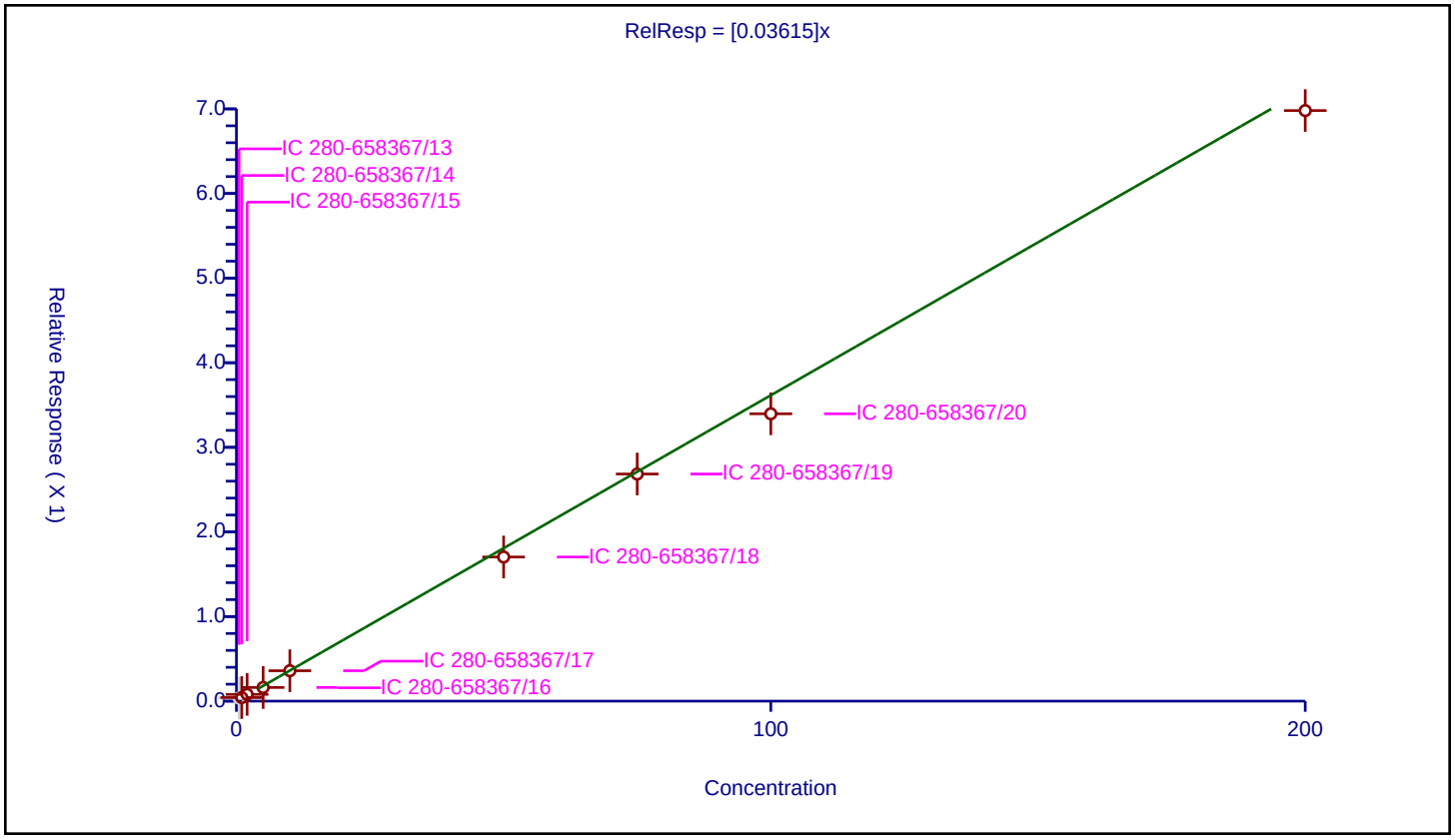
Curve Coefficients

Intercept:	0
Slope:	0.03615

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	0.5	0.036593	50.0	1926621.0	0.073185	N
2	IC 280-658367/14	1.0	0.04242	50.0	1924790.0	0.04242	Y
3	IC 280-658367/15	2.0	0.07974	50.0	1927516.0	0.03987	Y
4	IC 280-658367/16	5.0	0.161323	50.0	1942999.0	0.032265	Y
5	IC 280-658367/17	10.0	0.35919	50.0	1929619.0	0.035919	Y
6	IC 280-658367/18	50.0	1.703448	50.0	1932140.0	0.034069	Y
7	IC 280-658367/19	75.0	2.684422	50.0	1921531.0	0.035792	Y
8	IC 280-658367/20	100.0	3.39642	50.0	1892419.0	0.033964	Y
9	IC 280-658367/21	200.0	6.980007	50.0	1940700.0	0.0349	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

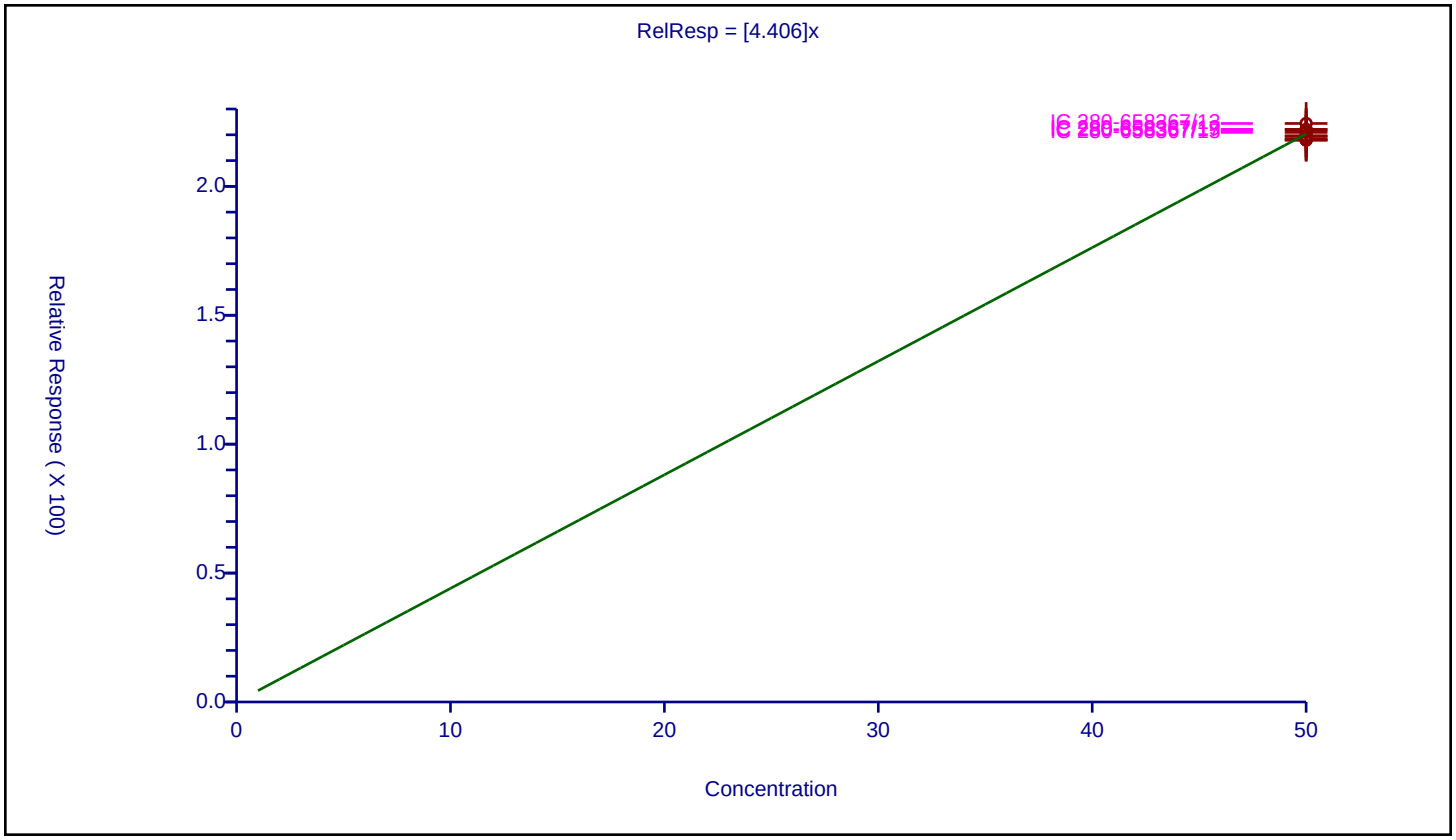
Curve Coefficients

Intercept:	0
Slope:	4.406

Error Coefficients

Relative Standard Deviation:	1.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	50.0	224.389747	50.0	432034.0	4.487795	Y
2	IC 280-658367/14	50.0	217.945386	50.0	442487.0	4.358908	Y
3	IC 280-658367/15	50.0	220.933407	50.0	435555.0	4.418668	Y
4	IC 280-658367/16	50.0	217.958301	50.0	443753.0	4.359166	Y
5	IC 280-658367/17	50.0	221.88089	50.0	432928.0	4.437618	Y
6	IC 280-658367/18	50.0	218.459028	50.0	441215.0	4.369181	Y
7	IC 280-658367/19	50.0	222.117494	50.0	439392.0	4.44235	Y
8	IC 280-658367/20	50.0	219.65079	50.0	430629.0	4.393016	Y
9	IC 280-658367/21	50.0	219.400312	50.0	438645.0	4.388006	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

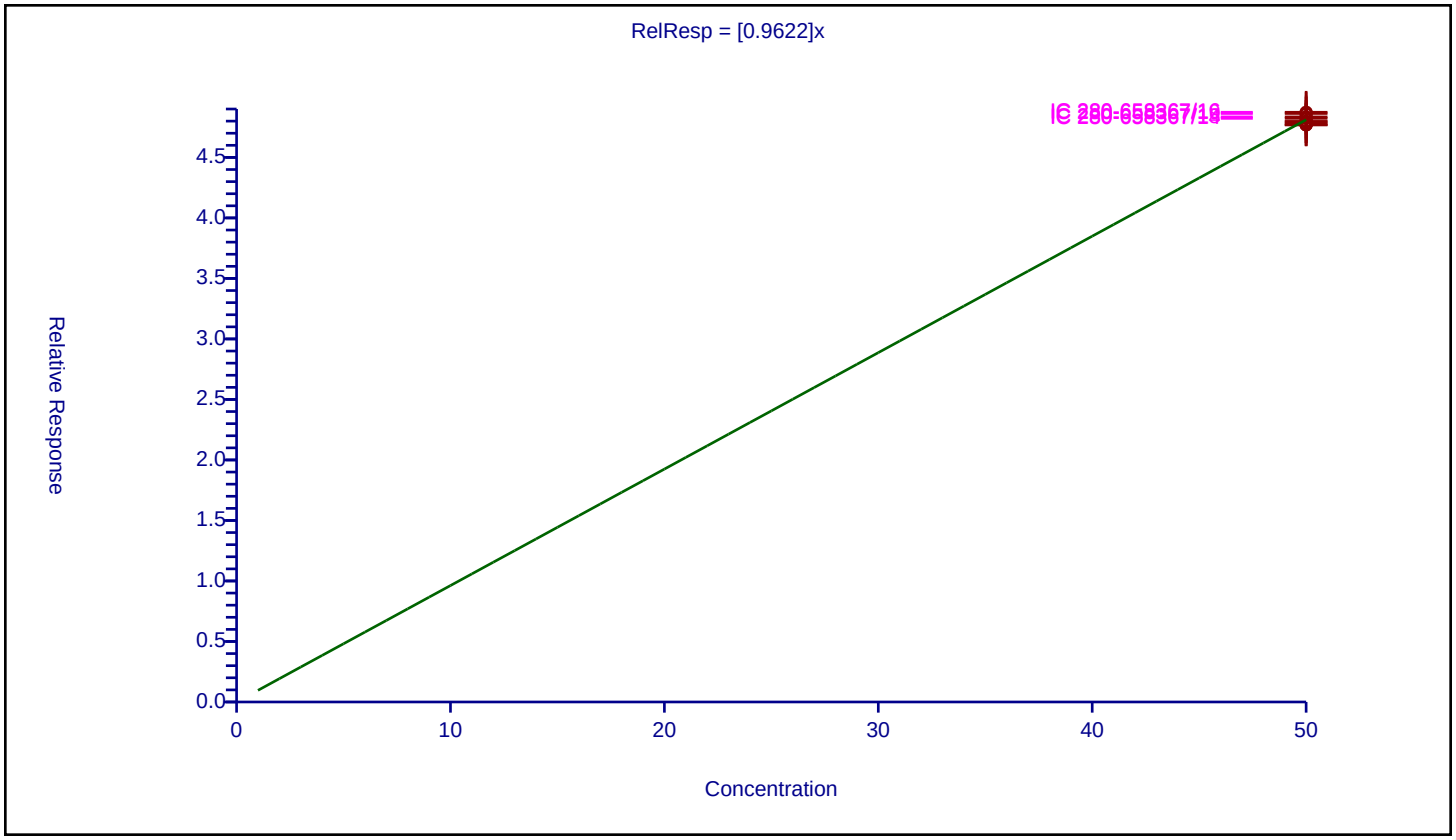
Curve Coefficients

Intercept:	0
Slope:	0.9622

Error Coefficients

Relative Standard Deviation:	0.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658367/13	50.0	47.696409	50.0	681588.0	0.953928	Y
2	IC 280-658367/14	50.0	48.225617	50.0	670712.0	0.964512	Y
3	IC 280-658367/15	50.0	48.347621	50.0	688492.0	0.966952	Y
4	IC 280-658367/16	50.0	48.731534	50.0	681729.0	0.974631	Y
5	IC 280-658367/17	50.0	47.763689	50.0	683581.0	0.955274	Y
6	IC 280-658367/18	50.0	47.689962	50.0	682240.0	0.953799	Y
7	IC 280-658367/19	50.0	48.630169	50.0	681398.0	0.972603	Y
8	IC 280-658367/20	50.0	47.960591	50.0	670145.0	0.959212	Y
9	IC 280-658367/21	50.0	47.966851	50.0	695227.0	0.959337	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-657950/13	P86601.D
Level 2	STD1 280-657950/14	P86600.D
Level 3	STD2 280-657950/15	P86602.D
Level 4	STD5 280-657950/16	P86603.D
Level 5	STD10 280-657950/17	P86604.D
Level 6	ICIS 280-657950/18	P86605.D
Level 7	STD75 280-657950/19	P86606.D
Level 8	STD100 280-657950/20	P86607.D
Level 9	STD200 280-657950/21	P86608.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.0839	0.0834 0.0919	0.0672 0.0875	0.0677 0.0870	0.0942	Ave		0.0828				12.3		15.0			
Chloromethane	+++++ 0.2904	0.4031 0.3109	0.3320 0.3138	0.3033 0.3141	0.3247	Ave		0.3240			0.1000	10.6		15.0			
Vinyl chloride	0.4698 0.4085	0.4233 0.4556	0.4221 0.4575	0.3886 0.4716	0.4419	Ave		0.4377				6.6		30.0			
Bromomethane	+++++ 0.3834	0.5928 0.4355	0.4820 0.4373	0.4143 +++++	0.4311	Ave		0.4538				15.0		15.0			
Chloroethane	0.2420 0.1874	0.2007 0.2209	0.2269 0.2378	0.2084 +++++	0.2052	Ave		0.2162				8.8		15.0			
Dichlorofluoromethane	0.5414 0.4838	0.5047 0.5236	0.5011 0.5150	0.5159 0.5526	0.5126	Ave		0.5167				4.0		15.0			
Trichlorofluoromethane	0.3601 0.3377	0.3306 0.3663	0.3289 0.3632	0.3308 0.3811	0.3598	Ave		0.3509				5.5		15.0			
Ethyl ether	0.2037 0.1982	0.1983 0.2022	0.2004 0.2014	0.1989 0.2085	0.2058	Ave		0.2019				1.7		15.0			
Acrolein	0.0327 0.0309	0.0312 0.0315	0.0311 0.0320	0.0298 0.0320	0.0304	Ave		0.0313				2.8		15.0			
1,1-Dichloroethene	0.2808 0.2394	0.2199 0.2556	0.2271 0.2473	0.2383 0.2853	0.2312	Ave		0.2472				9.3		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1880 0.1834	0.1893 0.1979	0.1868 0.1903	0.1847 0.2191	0.1725	Ave		0.1902				6.7		15.0			
Acetone	+++++ 0.0685	0.1622 0.0682	0.1136 0.0678	0.0849 0.0668	0.0770	Lin2	0.3806	0.0667							1.0000		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.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

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	+++++ 0.2469	+++++ 0.3059	+++++ 0.3030	0.1352 0.3365	0.1523	Lin1	-1.359	0.3255							0.9930		0.9900
Carbon disulfide	+++++ 0.7472	0.9384 0.7983	0.8328 0.7552	0.7809 0.8210	0.7352	Ave		0.8011				8.2		15.0			
Allyl chloride	+++++ 0.2722	0.3163 0.2739	0.3304 0.2365	0.2910 0.2349	0.2713	Ave		0.2783				12.2		15.0			
Methyl acetate	0.1814 0.1644	0.1660 0.1645	0.1695 0.1706	0.1647 0.1745	0.1631	Ave		0.1688				3.6		15.0			
Methylene Chloride	0.3743 0.2817	0.3562 0.2975	0.3039 0.2836	0.2929 0.3058	0.2815	Ave		0.3086				10.9		15.0			
2-Methyl-2-propanol	0.0289 0.0253	0.0221 0.0268	0.0211 0.0292	0.0223 0.0288	0.0245	Ave		0.0254				12.5		15.0			
Acrylonitrile	0.0970 0.1011	0.0973 0.1023	0.0998 0.1073	0.0959 0.1136	0.0976	Ave		0.1013				5.7		15.0			
trans-1,2-Dichloroethene	0.3164 0.2643	0.2745 0.2827	0.2611 0.2734	0.2604 0.3051	0.2558	Ave		0.2771				7.6		15.0			
Methyl tert-butyl ether	0.8221 0.7570	0.7794 0.7838	0.7440 0.7824	0.7505 0.8262	0.7567	Ave		0.7780				3.8		15.0			
Hexane	1.6328 1.2754	1.4316 1.3332	1.3385 1.2206	1.2999 1.2551	1.2392	Ave		1.3363				9.6		15.0			
Vinyl acetate	0.4401 0.4497	0.4053 0.4563	0.4103 0.4044	0.4077 0.4100	0.4147	Ave		0.4220				4.9		15.0			
1,1-Dichloroethane	0.4938 0.4646	0.4981 0.4950	0.4629 0.4727	0.4720 0.5339	0.4580	Ave		0.4834			0.1000	5.0		15.0			
cis-1,2-Dichloroethene	0.3329 0.3009	0.3100 0.3211	0.2958 0.3142	0.2935 0.3683	0.2864	Ave		0.3137				8.0		15.0			
2-Butanone (MEK)	+++++ 0.1123	0.1536 0.1119	0.1231 0.1172	0.1086 0.1248	0.1165	Ave		0.1210				11.8		15.0			
2,2-Dichloropropane	0.4639 0.3860	0.4266 0.4105	0.4108 0.3924	0.3860 0.4559	0.3792	Ave		0.4124				7.5		15.0			
sec-Butyl Alcohol	+++++ 0.0178	+++++ 0.0187	0.0144 0.0211	0.0146 0.0216	0.0163	Lin1	-0.578	0.0207							0.9950		0.9900
Chlorobromomethane	0.1520 0.1336	0.1305 0.1387	0.1397 0.1336	0.1362 0.1433	0.1316	Ave		0.1377				4.9		15.0			
Chloroform	0.5493 0.4650	0.4976 0.4880	0.4940 0.4699	0.4705 0.5210	0.4617	Ave		0.4908				5.9		30.0			

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.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

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								
Tetrahydrofuran	0.0808 0.0649	0.0752 0.0638	0.0777 0.0655	0.0688 0.0663	0.0682	Ave		0.0701				8.8		15.0			
1,1,1-Trichloroethane	0.4124 0.3787	0.3910 0.4030	0.3929 0.3837	0.3889 0.4313	0.3677	Ave		0.3944				4.8		15.0			
Cyclohexane	0.4066 0.3830	0.4553 0.4002	0.3963 0.3773	0.3890 0.4176	0.3651	Ave		0.3989				6.6		15.0			
1,1-Dichloropropene	0.3902 0.3499	0.3735 0.3766	0.3615 0.3589	0.3532 0.4101	0.3368	Ave		0.3679				6.1		15.0			
Carbon tetrachloride	0.2935 0.3139	0.3022 0.3450	0.3091 0.3373	0.3080 0.3923	0.2903	Ave		0.3213				10.0		15.0			
Isobutyl alcohol	+++++ 0.0067	+++++ 0.0070	0.0060 0.0079	0.0058 0.0080	0.0067	Ave		0.0069				12.4		15.0			
Benzene	1.1401 1.0591	1.0966 1.1102	1.0787 1.0762	1.0879 1.2155	1.0363	Ave		1.1001				4.8		15.0			
1,2-Dichloroethane	0.4116 0.3450	0.3912 0.3487	0.3744 0.3452	0.3549 0.3680	0.3401	Ave		0.3644				6.7		15.0			
n-Heptane	+++++ 0.2344	0.3118 0.2496	0.2614 0.2340	0.2698 0.2548	0.2426	Ave		0.2573				9.9		15.0			
Trichloroethene	1.2654 1.0869	1.2256 1.1451	1.1743 1.0809	1.1876 1.1658	1.1115	Ave		1.1604				5.3		15.0			
2-Pentanone	0.2031 0.1672	0.1730 0.1658	0.1620 0.1733	0.1633 0.1759	0.1723	Ave		0.1729				7.1		15.0			
Methylcyclohexane	0.3452 0.2884	0.3284 0.3074	0.3068 0.2894	0.2975 0.3411	0.2738	Ave		0.3087				8.0		15.0			
1,2-Dichloropropane	0.2999 0.2736	0.2944 0.2862	0.2835 0.2806	0.2721 0.3213	0.2668	Ave		0.2865				5.9		30.0			
Dibromomethane	0.2373 0.1838	0.1900 0.1901	0.1854 0.1875	0.1881 0.2017	0.1858	Ave		0.1944				8.7		15.0			
1,4-Dioxane	0.0039 0.0037	0.0046 0.0038	0.0035 0.0040	0.0035 0.0038	0.0037	Ave		0.0038				8.5		15.0			
Dichlorobromomethane	0.3652 0.3546	0.3321 0.3633	0.3465 0.3578	0.3363 0.3964	0.3430	Ave		0.3550				5.4		15.0			
2-Chloroethyl vinyl ether	0.1625 0.1608	0.1700 0.1672	0.1568 0.1701	0.1572 0.1766	0.1685	Ave		0.1655				4.0		15.0			
cis-1,3-Dichloropropene	1.9372 1.6728	1.8327 1.7339	1.6891 1.6466	1.7467 1.7136	1.6702	Ave		1.7381				5.3		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.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

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)	0.2347 0.2355	0.2264 0.2322	0.2215 0.2458	0.2269 0.2677	0.2312	Ave		0.2358				5.9		15.0			
Toluene	1.6132 1.1323	1.3633 1.1970	1.2582 1.1649	1.1638 1.3562	1.1086	Ave		1.2619				12.7		30.0			
trans-1,3-Dichloropropene	0.4312 0.4118	0.4039 0.4254	0.4006 0.4203	0.3952 0.4665	0.4038	Ave		0.4176				5.3		15.0			
Ethyl methacrylate	1.2497 1.3362	1.1273 1.3797	1.2022 1.3765	1.2063 1.4100	1.3208	Ave		1.2898				7.5		15.0			
1,1,2-Trichloroethane	0.2437 0.2424	0.2663 0.2453	0.2423 0.2485	0.2398 0.2753	0.2433	Ave		0.2497				5.0		15.0			
Tetrachloroethene	0.9005 0.8478	0.9124 0.8964	0.9131 0.8519	0.8886 0.9569	0.8403	Ave		0.8898				4.2		15.0			
1,3-Dichloropropane	1.7995 1.6820	1.8024 1.7198	1.7436 1.6562	1.7378 1.6973	1.7674	Ave		1.7340				2.9		15.0			
2-Hexanone	0.7587 0.6571	0.6873 0.6444	0.6524 0.6627	0.6598 0.6666	0.6826	Ave		0.6746				5.1		15.0			
Chlorodibromomethane	1.0960 1.0815	0.9929 1.1455	0.9955 1.1256	1.0193 1.2149	1.0229	Ave		1.0771				7.1		15.0			
1,2-Dibromoethane	1.1913 1.0584	1.1121 1.0827	1.1127 1.0532	1.0595 1.0808	1.0569	Ave		1.0897				4.1		15.0			
1-Chlorohexane	+++++ 1.5221	2.1186 1.6120	1.7429 1.5102	1.6670 1.6695	1.5451	Ave		1.6734				11.8		15.0			
Chlorobenzene	3.6566 3.0172	3.2846 3.1854	3.3195 3.0398	3.1563 3.3637	2.9907	Ave		3.2238			0.3000	6.5		15.0			
1,1,1,2-Tetrachloroethane	+++++ 1.0656	0.9126 1.1707	0.9391 1.1569	0.9605 1.3557	0.9764	Ave		1.0672				14.3		15.0			
Ethylbenzene	1.7660 1.6310	1.6202 1.7756	1.6910 1.7245	1.6162 2.0397	1.5523	Ave		1.7130				8.4		30.0			
m-Xylene & p-Xylene	2.4757 1.9392	2.0941 2.0722	2.0918 1.9725	1.9915 2.1625	1.8993	Ave		2.0776				8.3		15.0			
o-Xylene	2.2390 1.9668	2.0102 2.1362	2.0180 2.0762	1.9905 2.4443	1.9002	Ave		2.0868				8.0		15.0			
Styrene	3.6975 3.5132	3.4003 3.7908	3.2642 3.7127	3.4193 4.3560	3.2828	Ave		3.6041				9.4		15.0			
Bromoform	0.7528 0.6995	0.5829 0.7780	0.5966 0.8062	0.6273 0.8616	0.6382	Ave		0.7048			0.1000	14.2		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
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

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	3.3581 3.0502	3.1557 3.2331	3.1219 3.1051	3.1404 3.5738	3.0014	Ave		3.1933				5.5		15.0			
Cyclohexanone	0.0753 0.0615	0.0691 0.0610	0.0668 0.0643	0.0640 0.0642	0.0673	Ave		0.0659				6.7		15.0			
1,1,2,2-Tetrachloroethane	0.9510 0.8439	0.8880 0.8372	0.8702 0.8321	0.8788 0.8391	0.8765	Ave		0.8685			0.3000	4.3		15.0			
trans-1,4-Dichloro-2-butene	0.2587 0.2271	0.2492 0.2330	0.2338 0.2368	0.2083 0.2551	0.2322	Ave		0.2371				6.5		15.0			
Bromobenzene	0.9231 0.8047	0.8411 0.8374	0.8385 0.8300	0.8002 0.9541	0.7801	Ave		0.8454				6.8		15.0			
1,2,3-Trichloropropane	0.2838 0.2475	0.2442 0.2474	0.2432 0.2510	0.2487 0.2603	0.2503	Ave		0.2529				5.0		15.0			
N-Propylbenzene	0.9129 0.8453	0.9298 0.8932	0.8336 0.8629	0.8523 0.9848	0.8302	Ave		0.8828				5.9		15.0			
2-Chlorotoluene	0.8334 0.7384	0.7619 0.7708	0.7850 0.7496	0.7792 0.8328	0.7222	Ave		0.7748				5.0		15.0			
1,3,5-Trimethylbenzene	2.8081 2.5583	2.6118 2.7057	2.5108 2.6071	2.5694 2.9674	2.4755	Ave		2.6460				5.9		15.0			
4-Chlorotoluene	0.8620 0.7892	0.8477 0.8222	0.7564 0.7944	0.7998 0.8995	0.7506	Ave		0.8135				6.0		15.0			
tert-Butylbenzene	2.2588 2.1411	2.2938 2.2560	2.2221 2.1818	2.1880 2.5244	2.1009	Ave		2.2408				5.5		15.0			
1,2,4-Trimethylbenzene	2.8626 2.5956	2.7268 2.7685	2.6561 2.6641	2.5902 3.0858	2.5436	Ave		2.7215				6.2		15.0			
sec-Butylbenzene	0.6387 0.6470	0.6872 0.6970	0.6407 0.6669	0.6462 0.7769	0.6175	Ave		0.6687				7.1		15.0			
1,3-Dichlorobenzene	1.6297 1.4945	1.6323 1.5910	1.5250 1.5809	1.4890 1.8488	1.4497	Ave		1.5823				7.5		15.0			
4-Isopropyltoluene	2.8030 2.7345	2.7450 2.9493	2.6694 2.8623	2.7293 3.4314	2.5971	Ave		2.8357				8.7		15.0			
1,4-Dichlorobenzene	1.9072 1.5172	1.7208 1.6080	1.6522 1.5643	1.5602 1.7931	1.5257	Ave		1.6499				8.1		15.0			
n-Butylbenzene	3.0793 2.5636	2.7375 2.7247	2.5813 2.6227	2.5745 3.0835	2.4828	Ave		2.7167				8.1		15.0			
1,2-Dichlorobenzene	1.6845 1.4017	1.5115 1.4744	1.4501 1.4697	1.4354 1.6557	1.4092	Ave		1.4991				6.9		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.: 280-193176-1 Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 Calibration End Date: 06/24/2024 17:10 Calibration ID: 94833

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	0.0952 0.1385	0.1123 0.1409	0.1278 0.1478	0.1367 0.1483	0.1371	Ave		0.1316				13.3		15.0			
1,2,4-Trichlorobenzene	0.9640 0.7609	0.8812 0.7833	0.7883 0.7854	0.7700 0.8751	0.7724	Ave		0.8201				8.6		15.0			
Hexachlorobutadiene	+++++ 0.3009	0.4018 0.3158	0.3398 0.3002	0.3330 0.3415	0.3185	Ave		0.3314				9.8		15.0			
Naphthalene	2.3154 1.6903	1.9370 1.6784	1.7598 1.7644	1.7332 1.7998	1.7714	Ave		1.8278				10.8		15.0			
1,2,3-Trichlorobenzene	+++++ 0.4792	0.6537 0.4923	0.5439 0.5077	0.5111 0.5207	0.5223	Ave		0.5289				10.2		15.0			
Dibromofluoromethane (Surr)	0.2529 0.2603	0.2567 0.2587	0.2549 0.2611	0.2587 0.2611	0.2611	Ave		0.2584				1.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2564 0.2537	0.2571 0.2541	0.2571 0.2517	0.2485 0.2494	0.2560	Ave		0.2538				1.3		15.0			
Toluene-d8 (Surr)	4.1300 4.0303	4.0890 4.0198	4.1043 3.9445	4.1352 3.7362	4.1325	Ave		4.0358				3.2		15.0			
4-Bromofluorobenzene (Surr)	0.8453 0.8184	0.8444 0.7914	0.8385 0.7981	0.8283 0.7730	0.8365	Ave		0.8193				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.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-657950/13	P86601.D
Level 2	STD1 280-657950/14	P86600.D
Level 3	STD2 280-657950/15	P86602.D
Level 4	STD5 280-657950/16	P86603.D
Level 5	STD10 280-657950/17	P86604.D
Level 6	ICIS 280-657950/18	P86605.D
Level 7	STD75 280-657950/19	P86606.D
Level 8	STD100 280-657950/20	P86607.D
Level 9	STD200 280-657950/21	P86608.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	+++++ 136234	2791 207807	4558 245346	11502 479162	31563	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	+++++ 471542	13492 703106	22534 879366	51518 1730254	108809	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	7935 663339	14169 1030477	28647 1282173	66020 2597764	148074	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 622596	19842 985088	32712 1225605	70389 +++++	144470	+++++ 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Chloroethane	FB	Ave	4088 304280	6719 499688	15401 666563	35403 +++++	68769	0.500 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Dichlorofluoromethane	FB	Ave	9145 785640	16891 1184319	34011 1443325	87637 3043987	171763	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	6082 548386	11065 828579	22324 1017829	56197 2099018	120575	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	3440 321914	6637 457401	13602 564435	33797 1148268	68960	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	5455 495959	10296 703772	20851 885112	49957 1741180	100497	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1-Dichloroethene	FB	Ave	4743 388771	7359 578091	15415 693047	40485 1571542	77478	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	3175 297781	6336 447673	12681 533269	31372 1206555	57807	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	+++++ 445233	21716 617136	30830 760162	57713 1472181	103256	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
Iodomethane	FB	Lin1	+++++ 400965	+++++ 691868	+++++ 849231	22976 1853327	51032	+++++ 50.0	+++++ 75.0	+++++ 100	5.00 200	10.0
Carbon disulfide	FB	Ave	+++++ 1213453	31407 1805496	56521 2116554	132665 4522092	246348	+++++ 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.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

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
Allyl chloride	FB	Ave	+++++ 442109	10587 619480	22422 662894	49443 1293939	90925	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	6127 533953	11115 743961	23012 956364	55964 1922540	109316	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Methylene Chloride	FB	Ave	6322 457488	11923 672888	20626 794898	49751 1684139	94316	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	4889 411125	7398 605617	14320 818169	37853 1587330	82048	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	16383 1642025	32580 2314901	67724 3007439	162896 6257633	327025	5.00 500	10.0 750	20.0 1000	50.0 2000	100
trans-1,2-Dichloroethene	FB	Ave	5345 429127	9187 639405	17721 766310	44237 1680585	85716	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl tert-butyl ether	FB	Ave	13886 1229268	26086 1772886	50498 2192769	127498 4550713	253549	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZd5	Ave	6546 508819	11582 742003	21734 870331	52831 1869560	98722	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	14866 1460437	27132 2063952	55693 2266608	138511 4516697	277951	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	8341 754513	16670 1119499	31420 1324749	80185 2941013	153471	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	5623 488576	10376 726329	20077 880703	49857 2028774	95954	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	+++++ 729578	20565 1012619	33407 1313911	73828 2750424	156204	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
2,2-Dichloropropane	FB	Ave	7835 626755	14279 928505	27883 1099694	65581 2511183	127053	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin1	+++++ 692290	+++++ 1012992	23489 1417222	59596 2851672	130772	+++++ 1200	+++++ 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	2568 216902	4367 313748	9480 374414	23130 789255	44084	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroform	FB	Ave	9278 755051	16653 1103698	33531 1316866	79936 2869770	154708	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	2729 210663	5031 288563	10552 367056	23382 729915	45699	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1,1-Trichloroethane	FB	Ave	6965 614921	13086 911498	26668 1075390	66062 2375743	123206	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	6867 621920	15240 905237	26900 1057589	66086 2299972	122328	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	6591 568235	12502 851845	24534 1005925	60006 2259009	112867	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.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

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
Carbon tetrachloride	FB	Ave	4958 509744	10115 780249	20977 945212	52320 2160651	97276	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Ave	+++++ 271856	+++++ 398633	10211 552382	24669 1107843	56044	+++++ 1250	+++++ 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	19257 1719834	36703 2511071	73213 3016235	184814 6694914	347267	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	6952 560321	13093 788785	25413 967353	60298 2027167	113976	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	+++++ 380705	10437 564548	17741 655724	45833 1403290	81278	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZd5	Ave	5073 433634	9916 637300	19068 770733	48270 1736491	88546	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Ave	10975 869060	18530 1200215	35192 1554170	88757 3099628	184736	1.60 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	5830 468415	10991 695225	20824 811027	50536 1878982	91748	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	5065 444229	9853 647338	19242 786346	46216 1769485	89403	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromomethane	FB	Ave	4008 298478	6360 429936	12580 525558	31950 1110995	62257	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Ave	1318 119549	3059 171047	4776 222856	11743 422846	25008	10.0 1000	20.0 1500	40.0 2000	100 4000	200
Dichlorobromomethane	FB	Ave	6169 575760	11117 821624	23517 1002769	57135 2183652	114950	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	2744 261172	5691 378132	10643 476855	26702 972774	56471	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZd5	Ave	7766 667390	14827 964975	27427 1174108	70991 2552487	133059	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	15855 1529721	30307 2100373	60127 2755051	154194 5899149	309828	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	27248 1838734	45630 2707353	85392 3264799	197708 7470167	371467	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	7283 668777	13518 962242	27187 1177884	67129 2569347	135307	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZd5	Ave	5010 533091	9120 767844	19521 981516	49027 2100349	105220	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	4117 393699	8913 554775	16447 696366	40735 1516572	81535	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.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

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
Tetrachloroethene	CBNZd5	Ave	3610 338223	7382 498860	14827 607477	36116 1425325	66945	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZd5	Ave	7214 671030	14582 957148	28311 1180964	70631 2528289	140798	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZd5	Ave	12166 1048699	22243 1434517	42376 1890162	107260 3971728	217527	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZd5	Ave	4394 431462	8033 637496	16164 802646	41428 1809663	81492	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZd5	Ave	4776 422245	8997 602552	18068 751009	43064 1609952	84200	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZd5	Ave	+++++ 485788	13712 717706	22640 861513	54203 1989484	98475	+++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZd5	Ave	14659 1203727	26574 1772792	53899 2167592	128285 5010434	238258	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 425119	7383 651543	15248 824917	39038 2019434	77789	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZd5	Ave	7080 650719	13108 988198	27458 1229694	65688 3038314	123664	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZd5	Ave	9925 773660	16942 1153282	33965 1406525	80940 3221233	151305	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZd5	Ave	8976 784669	16263 1188900	32767 1480441	80902 3640981	151380	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZd5	Ave	14823 1401611	27510 2109734	53002 2647387	138972 6488585	261527	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZd5	Ave	3018 279054	4716 432970	9687 574843	25494 1283447	50840	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd4	Ave	22493 2037756	43922 3050999	84402 3754420	213499 8887864	390370	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZd5	Ave	9056	16766	32528	78064	160938	15.0	30.0	60.0	150	300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

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
			735647	1017929	1375595	2868252		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd4	Ave	6370 563774	12360 790056	23527 1006070	59745 2086746	114002	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	1733 151722	3468 219876	6320 286256	14161 634447	30200	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd4	Ave	6183 537610	11707 790198	22668 1003493	54399 2372737	101460	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd4	Ave	1901 165346	3399 233425	6574 303516	16910 647293	32549	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd4	Ave	6115 564718	12941 842925	22537 1043356	57944 2449015	107978	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd4	Ave	5582 493295	10604 727365	21223 906278	52972 2071048	93929	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	18809 1709089	36352 2553326	67882 3152286	174678 7379604	321968	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd4	Ave	5774 527260	11799 775932	20449 960541	54373 2237074	97622	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd4	Ave	15130 1430382	31926 2128934	60077 2637979	148749 6278049	273244	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	19174 1734057	37953 2612610	71809 3221136	176094 7674104	330829	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd4	Ave	4278 432219	9565 657722	17323 806314	43928 1931988	80309	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd4	Ave	10916 998441	22719 1501445	41230 1911486	101227 4597746	188556	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd4	Ave	18775 1826806	38206 2783163	72169 3460817	185547 8533724	337780	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd4	Ave	12775 1013563	23951 1517487	44668 1891388	106066 4459347	198439	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd4	Ave	20626 1712641	38102 2571265	69786 3171082	175023 7668526	322921	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd4	Ave	11283 936458	21037 1391341	39203 1777026	97585 4117653	183282	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	638 92519	1563 132918	3454 178735	9296 368789	17828	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	6457 508338	12265 739196	21311 949634	52345 2176401	100464	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 201018	5593 298011	9187 362914	22638 849199	41427	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd4	Ave	15509 1129238	26960 1583854	47577 2133281	117832 4476072	230395	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.: 280-193176-1 | Analy Batch No.: 657950

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2024 14:25 | Calibration End Date: 06/24/2024 17:10 | Calibration ID: 94833

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
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 320109	9098 464552	14706 613820	34746 1295028	67933	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	427144 422625	429641 390037	432492 365851	439446 359515	437431	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	433114 412057	430335 383188	436209 352667	422130 343474	428889	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1655690 1607937	1654079 1491448	1666062 1406335	1680688 1391336	1646105	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	566171 546737	587648 497893	566747 482464	563123 480599	543977	50.0 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

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Jun-2024 14:46:30 ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:58:49 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:09:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1689069	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.448	7.443	0.005	86	400897	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	96	669817	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	427144	50.0	48.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	433114	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	94	1655690	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.545	8.539	0.006	92	566171	50.0	51.6	
9 Dichlorodifluoromethane	85		1.632				ND	ND	U
10 Chloromethane	50	1.806	1.801	0.005	78	7945	0.5000	0.7258	
11 Vinyl chloride	62	1.883	1.883	0.000	95	7935	0.5000	0.5367	
12 Bromomethane	94	2.155	2.150	0.005	88	11635	0.5000	0.7590	
13 Chloroethane	64	2.237	2.232	0.005	94	4088	0.5000	0.5598	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	94	9145	0.5000	0.5239	
15 Trichlorofluoromethane	101	2.439	2.434	0.005	97	6082	0.5000	0.5130	
17 Ethyl ether	59	2.663	2.663	0.000	95	3440	0.5000	0.5043	
18 Acrolein	56	2.756	2.756	0.000	94	5455	4.94	5.16	
19 1,1-Dichloroethene	96	2.827	2.821	0.006	93	4743	0.5000	0.5679	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.827	2.826	0.001	72	3175	0.5000	0.4941	
21 Acetone	43	2.876	2.870	0.006	99	19615	2.00	3.00	
23 Iodomethane	142	2.941	2.936	0.005	92	2801	0.5000	4.43	a
24 Carbon disulfide	76	3.001	2.996	0.005	99	18680	0.5000	0.6902	
26 3-Chloro-1-propene	41	3.078	3.077	0.001	80	6970	0.5000	0.7413	
25 Methyl acetate	43	3.088	3.088	0.000	91	6127	1.00	1.07	
28 Methylene Chloride	84	3.170	3.170	0.000	90	6322	0.5000	0.6064	
29 2-Methyl-2-propanol	59	3.274	3.268	0.006	85	4889	5.00	5.69	
30 Acrylonitrile	53	3.334	3.334	0.000	94	16383	5.00	4.79	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	95	5345	0.5000	0.5710	
31 Methyl tert-butyl ether	73	3.394	3.389	0.006	94	13886	0.5000	0.5283	
33 Hexane	57	3.552	3.552	0.000	89	6546	0.5000	0.6110	
34 Vinyl acetate	43	3.667	3.667	0.000	97	14866	1.00	1.04	
36 1,1-Dichloroethane	63	3.667	3.672	-0.005	74	8341	0.5000	0.5107	

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	4.076	4.076	0.000	83	5623	0.5000	0.5306	
39 2-Butanone (MEK)	43	4.087	4.081	0.006	97	12542	2.00	3.07	
42 2,2-Dichloropropane	77	4.087	4.087	0.000	69	7835	0.5000	0.5624	
44 sec-Butyl Alcohol	45	4.223	4.212	0.011	98	5862	12.0	36.3	
46 Chlorobromomethane	128	4.251	4.245	0.006	96	2568	0.5000	0.5522	
48 Chloroform	83	4.305	4.305	0.000	93	9278	0.5000	0.5596	
47 Tetrahydrofuran	42	4.327	4.316	0.011	83	2729	1.00	1.15	
49 1,1,1-Trichloroethane	97	4.453	4.452	0.001	94	6965	0.5000	0.5228	
50 Cyclohexane	56	4.507	4.513	-0.006	84	6867	0.5000	0.5095	
51 1,1-Dichloropropene	75	4.567	4.562	0.005	94	6591	0.5000	0.5304	
52 Carbon tetrachloride	117	4.578	4.573	0.005	73	4958	0.5000	0.4568	
55 Isobutyl alcohol	41		4.622				ND	ND	U
53 Benzene	78	4.720	4.714	0.006	89	19257	0.5000	0.5182	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	91	6952	0.5000	0.5648	a
57 n-Heptane	43	4.900	4.900	0.000	86	5968	0.5000	0.6866	a
59 Trichloroethene	95	5.200	5.200	0.000	94	5073	0.5000	0.5453	
60 2-Pentanone	43	5.331	5.326	0.005	97	10975	1.60	1.88	
61 Methylcyclohexane	55	5.396	5.391	0.005	85	5830	0.5000	0.5591	
62 1,2-Dichloropropane	63	5.396	5.391	0.005	77	5065	0.5000	0.5234	
65 Dibromomethane	93	5.467	5.467	0.000	86	4008	0.5000	0.6103	
64 1,4-Dioxane	88	5.517	5.500	0.016	20	1318	10.0	10.2	Ma
66 Dichlorobromomethane	83	5.587	5.587	0.000	97	6169	0.5000	0.5144	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	88	2744	0.5000	0.4907	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	7766	0.5000	0.5573	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	96	15855	2.00	1.99	
71 Toluene	91	6.231	6.231	0.000	97	27248	0.5000	0.6392	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	91	7283	0.5000	0.5162	
73 Ethyl methacrylate	69	6.455	6.450	0.005	84	5010	0.5000	0.4844	
74 1,1,2-Trichloroethane	97	6.575	6.570	0.005	87	4117	0.5000	0.4881	
75 Tetrachloroethene	164	6.684	6.679	0.005	87	3610	0.5000	0.5060	
76 1,3-Dichloropropane	76	6.722	6.717	0.005	88	7214	0.5000	0.5189	
77 2-Hexanone	43	6.766	6.766	0.000	96	12166	2.00	2.25	
78 Chlorodibromomethane	129	6.913	6.913	0.000	91	4394	0.5000	0.5088	
79 Ethylene Dibromide	107	7.028	7.028	0.000	91	4776	0.5000	0.5466	
80 1-Chlorohexane	91	7.432	7.426	0.006	37	8147	0.4000	0.6072	
81 Chlorobenzene	112	7.470	7.470	0.000	94	14659	0.5000	0.5671	
82 1,1,1,2-Tetrachloroethane	131	7.546	7.541	0.005	43	3353	0.5000	0.3919	
83 Ethylbenzene	106	7.552	7.546	0.006	99	7080	0.5000	0.5155	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	9925	0.5000	0.5958	
85 o-Xylene	106	8.032	8.026	0.006	95	8976	0.5000	0.5365	
86 Styrene	104	8.043	8.043	0.000	94	14823	0.5000	0.5130	
87 Bromoform	173	8.223	8.217	0.006	89	3018	0.5000	0.5341	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	22493	0.5000	0.5258	
90 Cyclohexanone	55	8.496	8.490	0.006	90	9056	15.0	17.1	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	6370	0.5000	0.5475	
93 trans-1,4-Dichloro-2-butene	53	8.681	8.687	-0.006	54	1733	0.5000	0.5455	a
94 Bromobenzene	156	8.687	8.687	0.000	90	6183	0.5000	0.5459	
95 1,2,3-Trichloropropane	110	8.714	8.708	0.006	71	1901	0.5000	0.5611	
96 N-Propylbenzene	120	8.774	8.768	0.006	99	6115	0.5000	0.5171	
97 2-Chlorotoluene	126	8.867	8.867	0.000	95	5582	0.5000	0.5378	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	18809	0.5000	0.5306	
99 4-Chlorotoluene	126	8.981	8.981	0.000	98	5774	0.5000	0.5298	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	15130	0.5000	0.5040	
101 1,2,4-Trimethylbenzene	105	9.314	9.309	0.005	98	19174	0.5000	0.5259	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	4278	0.5000	0.4776	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	97	10916	0.5000	0.5150	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	96	18775	0.5000	0.4942	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	91	12775	0.5000	0.5780	
107 n-Butylbenzene	91	10.029	10.023	0.006	95	20626	0.5000	0.5668	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	95	11283	0.5000	0.5618	
109 1,2-Dibromo-3-Chloropropane	157	10.826	10.826	0.000	1	638	0.5000	0.3618	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	92	6457	0.5000	0.5878	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	88	3079	0.5000	0.6935	
113 Naphthalene	128	11.928	11.928	0.000	97	15509	0.5000	0.6334	
114 1,2,3-Trichlorobenzene	180	12.157	12.151	0.006	93	4976	0.5000	0.7024	
S 118 1,2-Dichloroethene, Total (URS)	96				0		1.00	1.10	
S 119 Xylenes, Total (URS)	1				0		1.00	1.13	
S 120 Trihalomethanes, Total	1				0		2.00	2.12	
S 122 Xylenes, Total	106				0		1.00	1.13	
S 123 1,2-Dichloroethene, Total	1				0		1.00	1.10	
S 124 1,3-Dichloropropene, Total	1				0		1.00	1.07	
S 125 Total BTEX	1				0			2.81	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

Cal Dil StdB_00001	Amount Added:	5.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

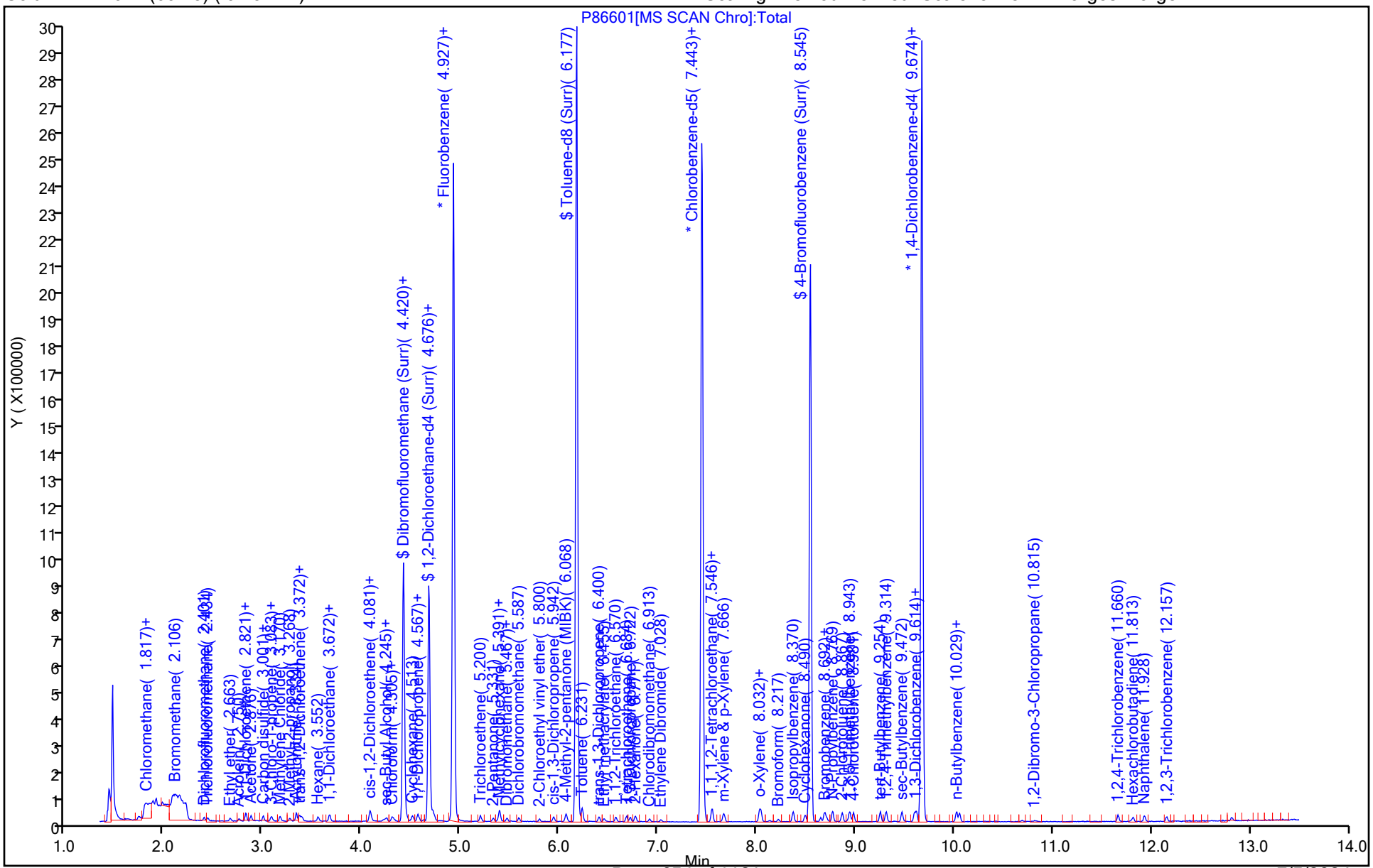
Report Date: 25-Jun-2024 00:58:49 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D

Injection Date:	24-Jun-2024 14:46:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD05			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

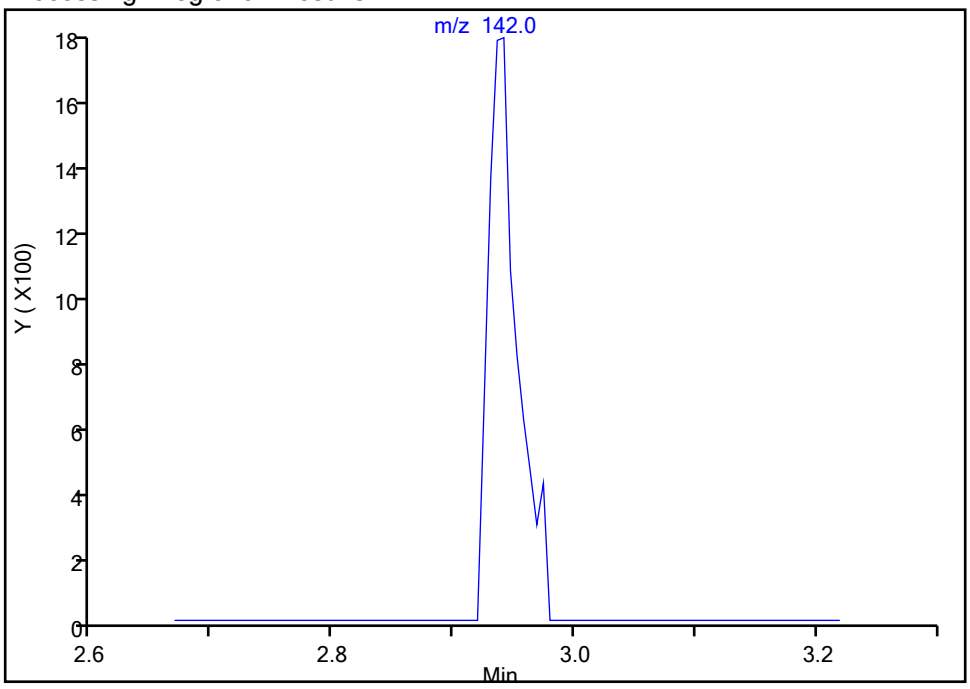
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

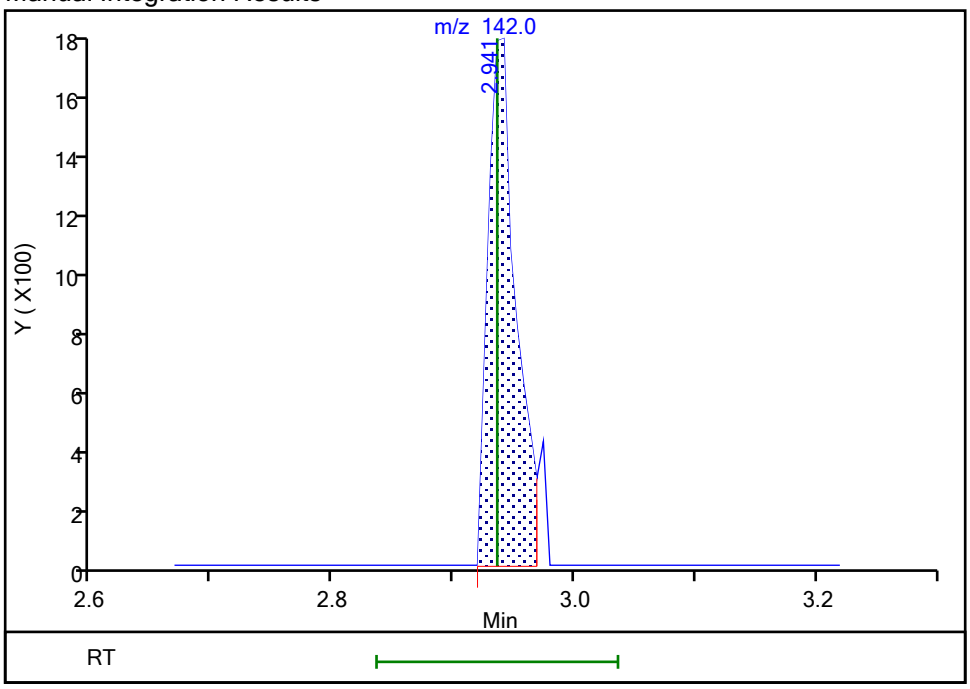
Not Detected
Expected RT: 2.94

Processing Integration Results



Manual Integration Results

RT: 2.94
Area: 2801
Amount: 4.429417
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:10:52 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

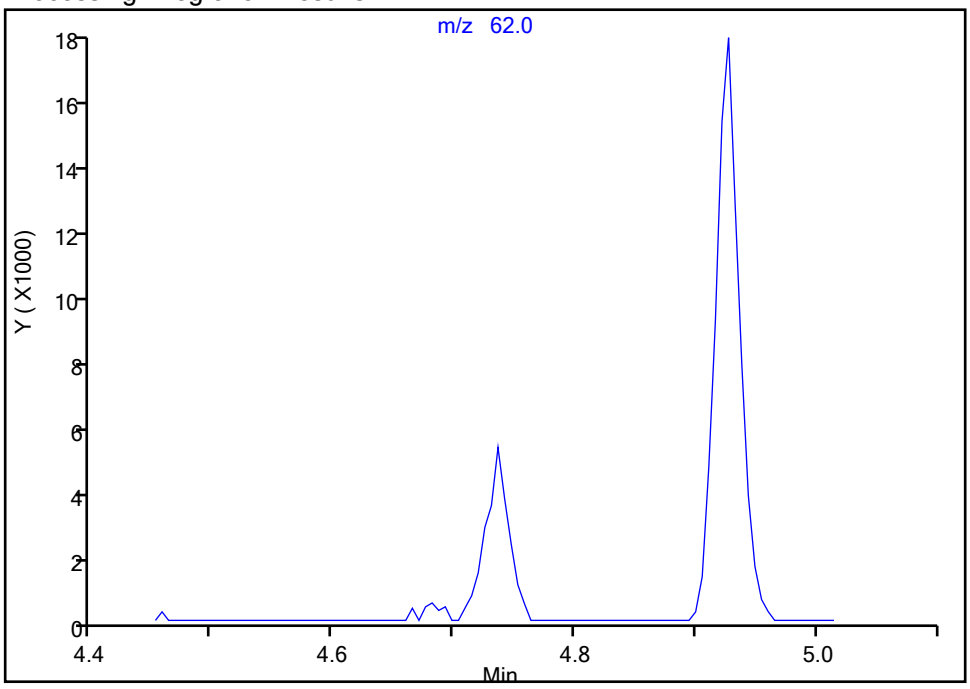
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

54 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

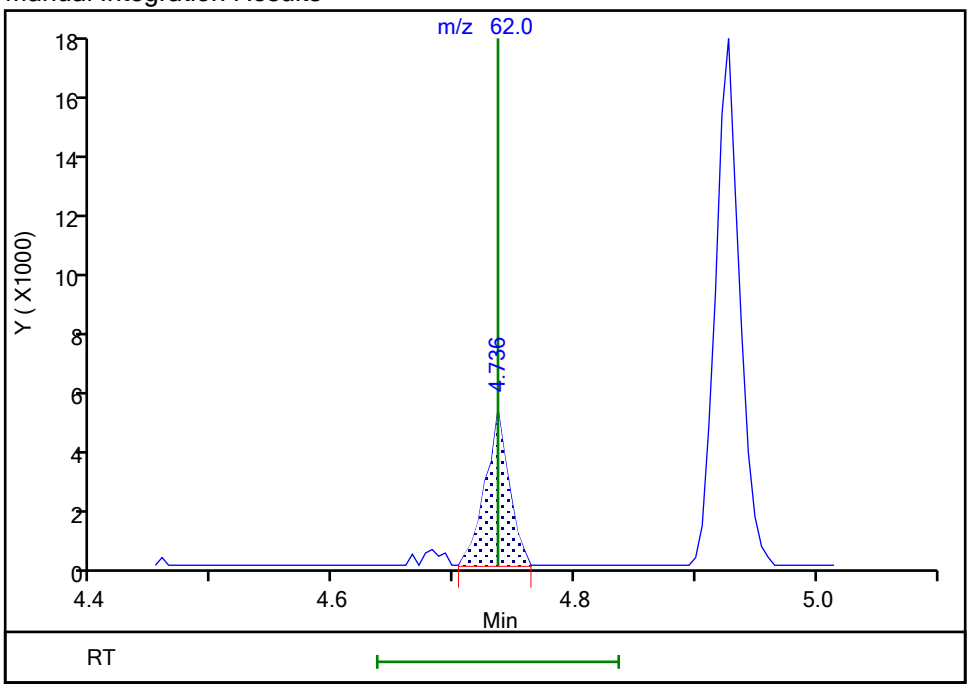
Not Detected
Expected RT: 4.74

Processing Integration Results



Manual Integration Results

RT: 4.74
Area: 6952
Amount: 0.564805
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:11:20 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

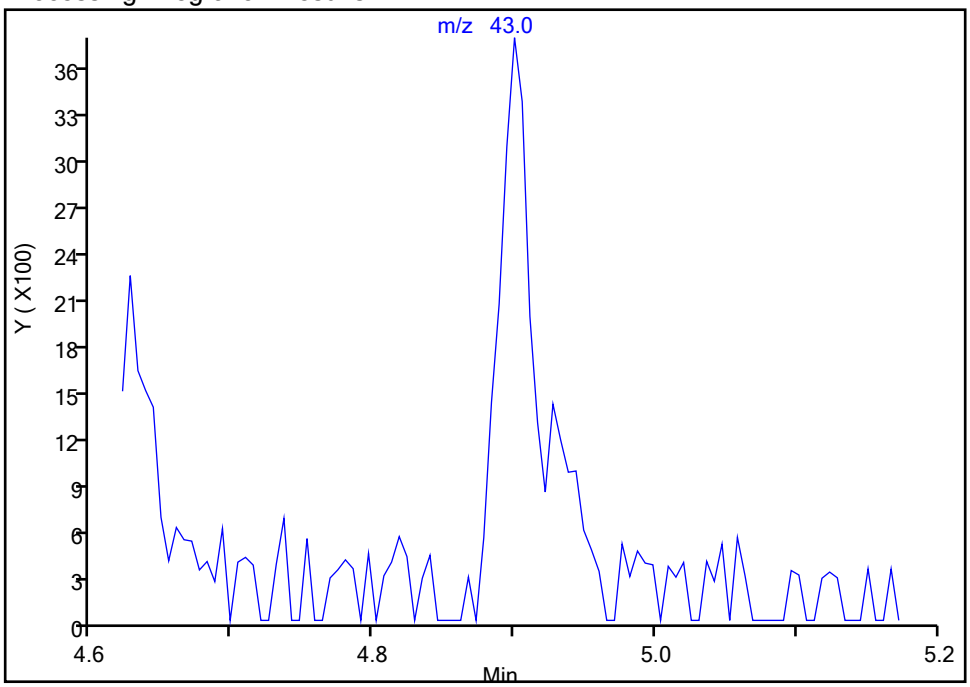
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

57 n-Heptane, CAS: 142-82-5

Signal: 1

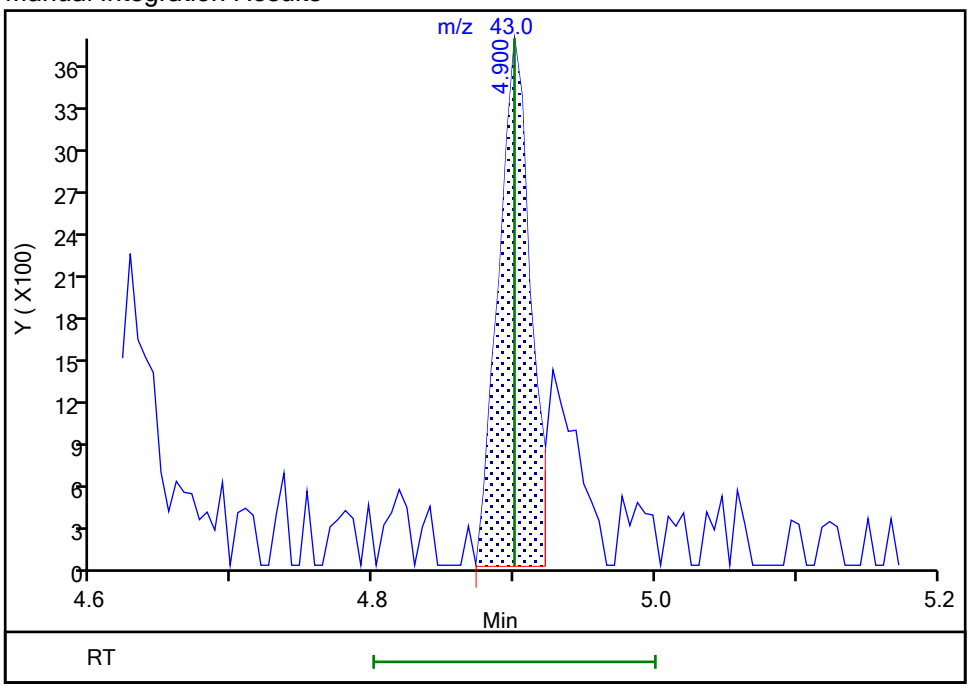
Not Detected
Expected RT: 4.90

Processing Integration Results



Manual Integration Results

RT: 4.90
Area: 5968
Amount: 0.686629
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:11:28 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

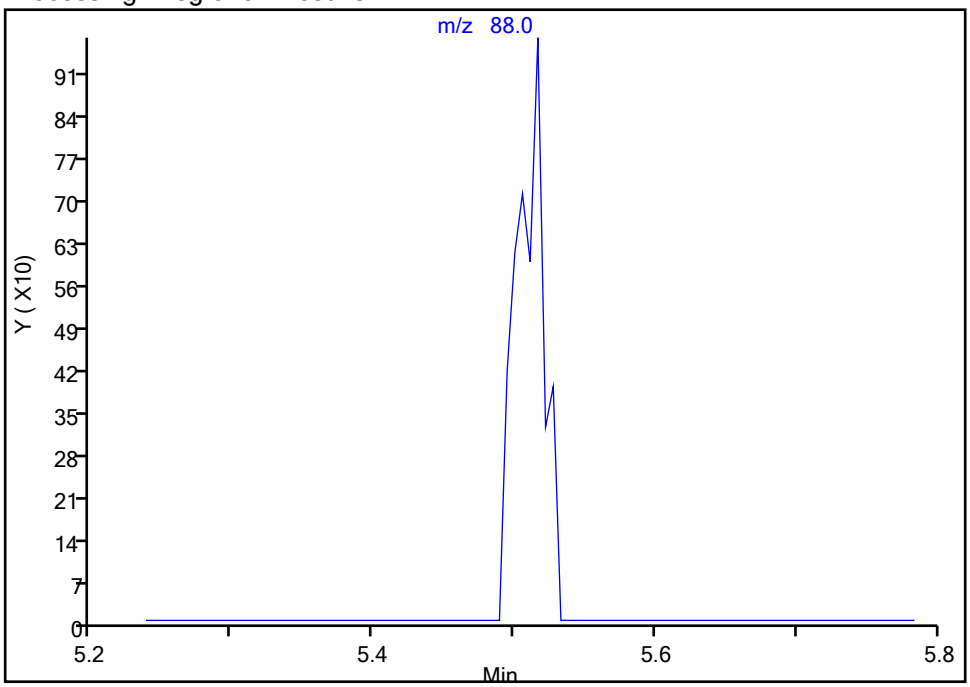
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

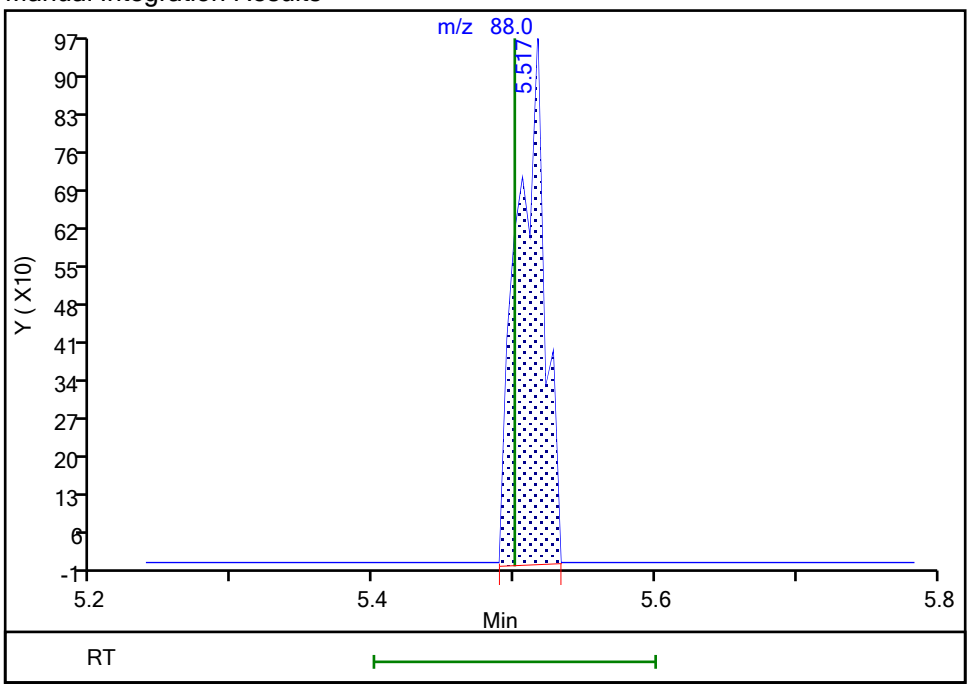
Not Detected
Expected RT: 5.50

Processing Integration Results



Manual Integration Results

RT: 5.52
Area: 1318
Amount: 10.191591
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:11:49 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

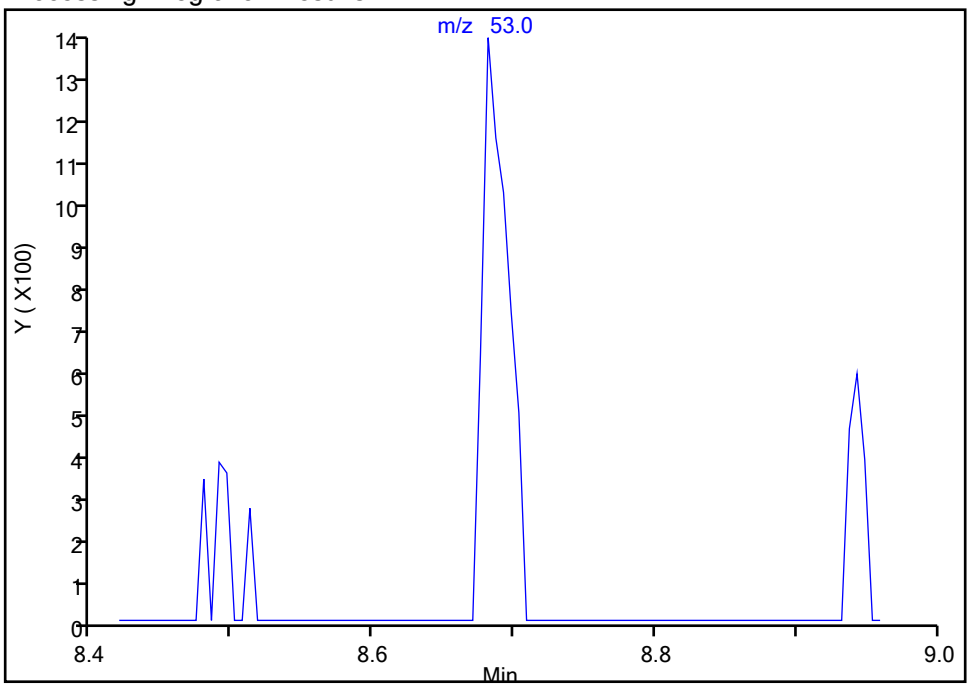
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

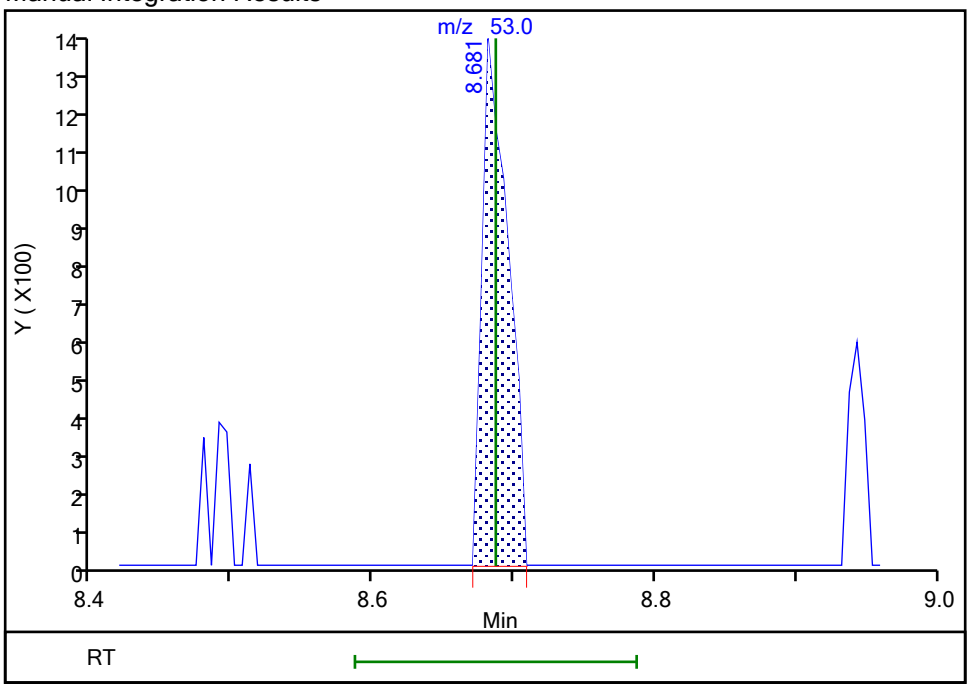
Not Detected
Expected RT: 8.69

Processing Integration Results



RT: 8.68
Area: 1733
Amount: 0.545550
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 24-Jun-2024 16:12:22 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

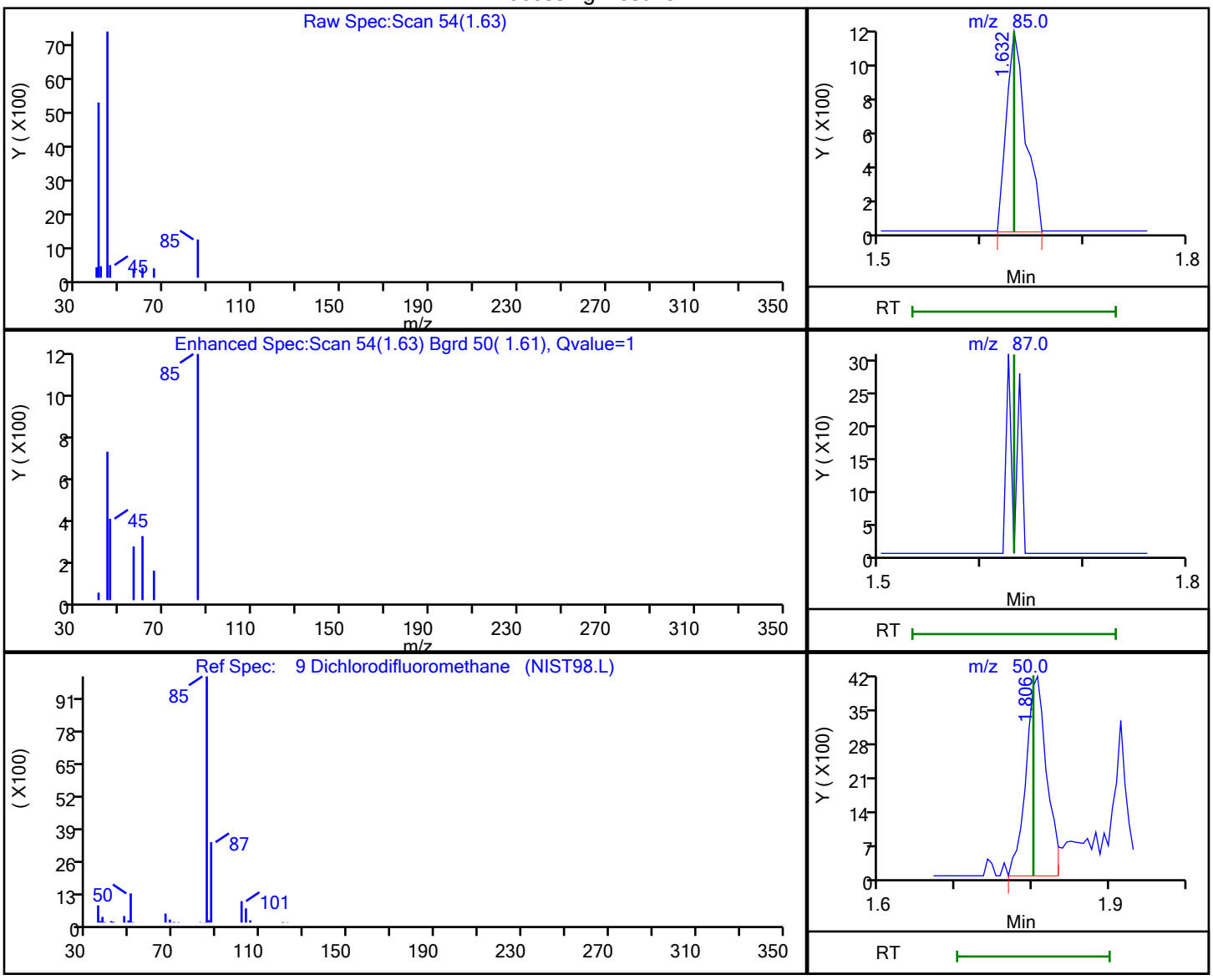
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_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

Processing Results



RT	Mass	Response	Amount
1.63	85.00	1482	0.529557
1.60	87.00	0	
1.81	50.00	7758	

Reviewer: Q2ZS, 24-Jun-2024 16:09:33 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

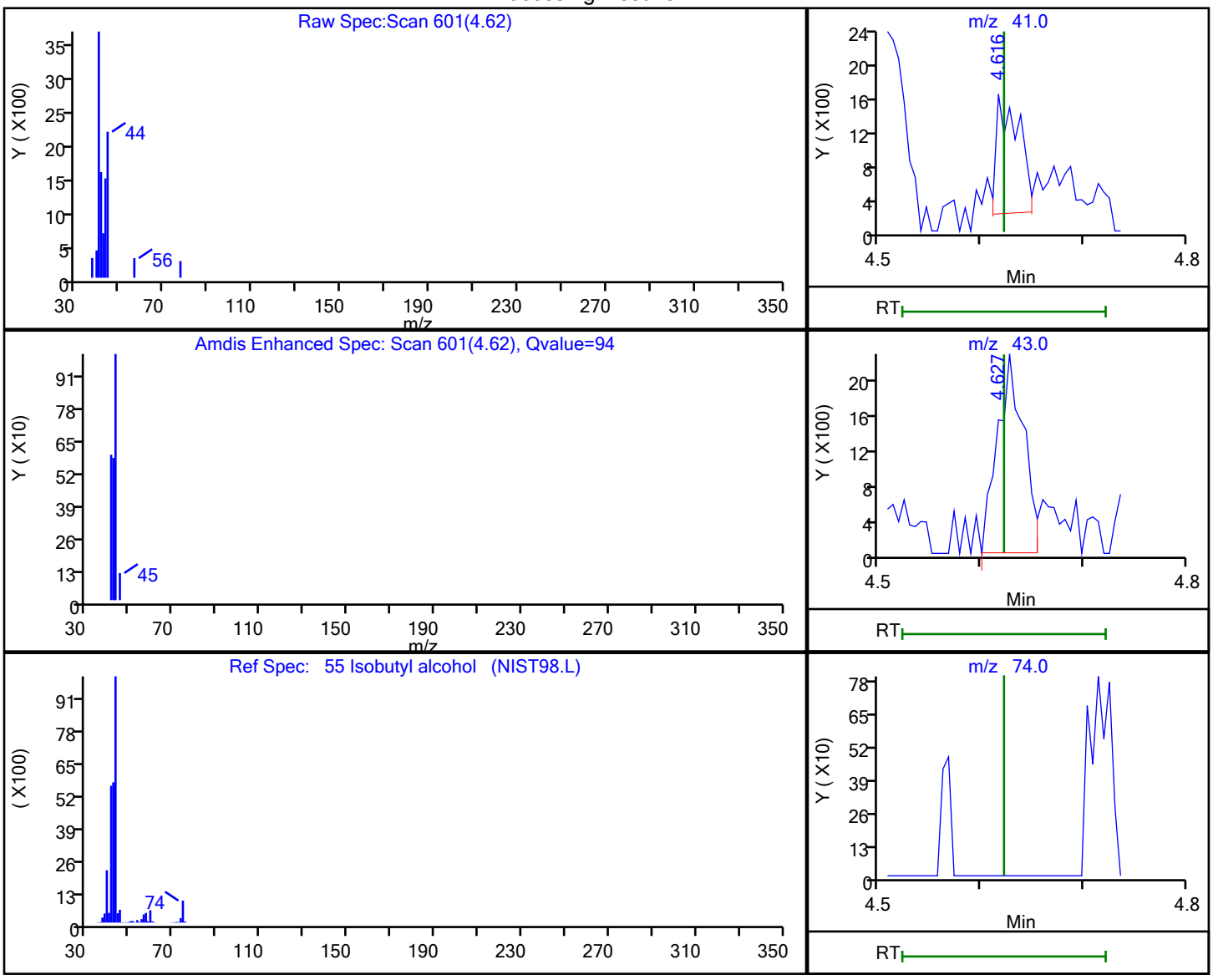
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86601.D
Injection Date: 24-Jun-2024 14:46:30 Instrument ID: VMS_P
Lims ID: STD05
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.62	41.00	2129	86.310286
4.63	43.00	4009	
4.62	74.00	0	

Reviewer: Q2ZS, 24-Jun-2024 16:11:13 -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_P\20240621-134755.b\P86600.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Jun-2024 14:25:30 ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:58:54 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:09:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1673497	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.448	7.443	0.005	86	404521	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	96	695917	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	429641	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	430335	50.0	50.7	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	94	1654079	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	95	8.545	8.539	0.006	91	587648	50.0	51.5	
9 Dichlorodifluoromethane	85	1.631	1.632	-0.001	45	2791	1.00	1.01	a
10 Chloromethane	50	1.801	1.801	0.000	80	13492	1.00	1.24	
11 Vinyl chloride	62	1.882	1.883	-0.001	95	14169	1.00	0.9673	
12 Bromomethane	94	2.150	2.150	0.000	95	19842	1.00	1.31	a
13 Chloroethane	64	2.232	2.232	0.000	97	6719	1.00	0.9286	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	97	16891	1.00	0.9766	
15 Trichlorofluoromethane	101	2.439	2.434	0.005	97	11065	1.00	0.9420	
17 Ethyl ether	59	2.668	2.663	0.005	89	6637	1.00	0.9820	
18 Acrolein	56	2.755	2.756	-0.001	96	10296	9.88	9.83	
19 1,1-Dichloroethene	96	2.826	2.821	0.005	98	7359	1.00	0.8894	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.826	2.826	0.000	75	6336	1.00	1.00	
21 Acetone	43	2.875	2.870	0.005	98	21716	4.00	4.02	
23 Iodomethane	142	2.941	2.936	0.005	98	5251	1.00	4.66	
24 Carbon disulfide	76	3.001	2.996	0.005	99	31407	1.00	1.17	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	85	10587	1.00	1.14	
25 Methyl acetate	43	3.088	3.088	0.000	94	11115	2.00	1.97	
28 Methylene Chloride	84	3.170	3.170	0.000	84	11923	1.00	1.15	
29 2-Methyl-2-propanol	59	3.274	3.268	0.006	98	7398	10.0	8.69	
30 Acrylonitrile	53	3.334	3.334	0.000	98	32580	10.0	9.61	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	99	9187	1.00	0.99	
31 Methyl tert-butyl ether	73	3.388	3.389	0.000	94	26086	1.00	1.00	
33 Hexane	57	3.558	3.552	0.006	90	11582	1.00	1.07	
34 Vinyl acetate	43	3.672	3.667	0.005	98	27132	2.00	1.92	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	71	16670	1.00	1.03	

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	4.081	4.076	0.005	82	10376	1.00	0.9883	
39 2-Butanone (MEK)	43	4.087	4.081	0.006	97	20565	4.00	5.08	
42 2,2-Dichloropropane	77	4.092	4.087	0.005	73	14279	1.00	1.03	
44 sec-Butyl Alcohol	45	4.223	4.212	0.011	97	11246	24.0	44.2	
46 Chlorobromomethane	128	4.250	4.245	0.005	94	4367	1.00	0.9477	
48 Chloroform	83	4.305	4.305	0.000	94	16653	1.00	1.01	
47 Tetrahydrofuran	42	4.327	4.316	0.011	76	5031	2.00	2.14	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	98	13086	1.00	0.99	
50 Cyclohexane	56	4.512	4.513	-0.001	91	15240	1.00	1.14	
51 1,1-Dichloropropene	75	4.567	4.562	0.005	97	12502	1.00	1.02	
52 Carbon tetrachloride	117	4.572	4.573	-0.001	71	10115	1.00	0.9407	
55 Isobutyl alcohol	41	4.632	4.622	0.010	91	2451	25.0	10.6	
53 Benzene	78	4.720	4.714	0.006	95	36703	1.00	1.00	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	96	13093	1.00	1.07	
57 n-Heptane	43	4.905	4.900	0.005	80	10437	1.00	1.21	
59 Trichloroethene	95	5.200	5.200	0.000	97	9916	1.00	1.06	
60 2-Pentanone	43	5.331	5.326	0.005	97	18530	3.20	3.20	
61 Methylcyclohexane	55	5.391	5.391	0.000	85	10991	1.00	1.06	
62 1,2-Dichloropropane	63	5.396	5.391	0.005	79	9853	1.00	1.03	
65 Dibromomethane	93	5.473	5.467	0.006	93	6360	1.00	0.9775	
64 1,4-Dioxane	88	5.500	5.500	0.000	89	3059	20.0	23.9	
66 Dichlorobromomethane	83	5.593	5.587	0.006	96	11117	1.00	0.9355	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	90	5691	1.00	1.03	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	95	14827	1.00	1.05	
70 4-Methyl-2-pentanone (MIBK)	43	6.067	6.068	-0.001	95	30307	4.00	3.84	
71 Toluene	91	6.231	6.231	0.000	96	45630	1.00	1.08	
72 trans-1,3-Dichloropropene	75	6.406	6.400	0.006	95	13518	1.00	0.9671	
73 Ethyl methacrylate	69	6.449	6.450	-0.001	87	9120	1.00	0.8739	
74 1,1,2-Trichloroethane	97	6.569	6.570	-0.001	89	8913	1.00	1.07	
75 Tetrachloroethene	164	6.684	6.679	0.005	94	7382	1.00	1.03	
76 1,3-Dichloropropane	76	6.722	6.717	0.005	88	14582	1.00	1.04	
77 2-Hexanone	43	6.771	6.766	0.005	96	22243	4.00	4.08	
78 Chlorodibromomethane	129	6.913	6.913	0.000	92	8033	1.00	0.9218	
79 Ethylene Dibromide	107	7.028	7.028	0.000	97	8997	1.00	1.02	
80 1-Chlorohexane	91	7.426	7.426	0.000	93	13712	0.8000	1.01	
81 Chlorobenzene	112	7.475	7.470	0.005	94	26574	1.00	1.02	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	90	7383	1.00	0.8551	
83 Ethylbenzene	106	7.552	7.546	0.006	99	13108	1.00	0.9458	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	16942	1.00	1.01	
85 o-Xylene	106	8.026	8.026	0.000	98	16263	1.00	0.9633	
86 Styrene	104	8.048	8.043	0.005	94	27510	1.00	0.9435	
87 Bromoform	173	8.223	8.217	0.006	89	4716	1.00	0.8271	
88 Isopropylbenzene	105	8.370	8.370	0.000	96	43922	1.00	0.9882	
90 Cyclohexanone	55	8.490	8.490	0.000	91	16766	30.0	31.4	
92 1,1,2,2-Tetrachloroethane	83	8.654	8.648	0.006	95	12360	1.00	1.02	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	59	3468	1.00	1.05	
94 Bromobenzene	156	8.687	8.687	0.000	95	11707	1.00	0.99	
95 1,2,3-Trichloropropane	110	8.714	8.708	0.006	85	3399	1.00	0.9655	
96 N-Propylbenzene	120	8.774	8.768	0.006	99	12941	1.00	1.05	
97 2-Chlorotoluene	126	8.867	8.867	0.000	95	10604	1.00	0.9833	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	95	36352	1.00	0.9871	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	11799	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	31926	1.00	1.02	
101 1,2,4-Trimethylbenzene	105	9.314	9.309	0.005	98	37953	1.00	1.00	
102 sec-Butylbenzene	134	9.472	9.472	0.000	95	9565	1.00	1.03	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	22719	1.00	1.03	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	38206	1.00	0.9680	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	93	23951	1.00	1.04	
107 n-Butylbenzene	91	10.023	10.023	0.000	98	38102	1.00	1.01	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	97	21037	1.00	1.01	
109 1,2-Dibromo-3-Chloropropane	157	10.831	10.826	0.005	81	1563	1.00	0.8532	
111 1,2,4-Trichlorobenzene	180	11.666	11.660	0.006	93	12265	1.00	1.07	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	93	5593	1.00	1.21	
113 Naphthalene	128	11.928	11.928	0.000	97	26960	1.00	1.06	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	93	9098	1.00	1.24	
S 118 1,2-Dichloroethene, Total (URS)	96				0		2.00	1.98	
S 119 Xylenes, Total (URS)	1				0		2.00	1.97	
S 120 Trihalomethanes, Total	1				0		4.00	3.70	
S 122 Xylenes, Total	106				0		2.00	1.97	
S 123 1,2-Dichloroethene, Total	1				0		2.00	1.98	
S 124 1,3-Dichloropropene, Total	1				0		2.00	2.02	
S 125 Total BTEX	1				0			4.99	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

Cal Dil StdB_00001	Amount Added: 10.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

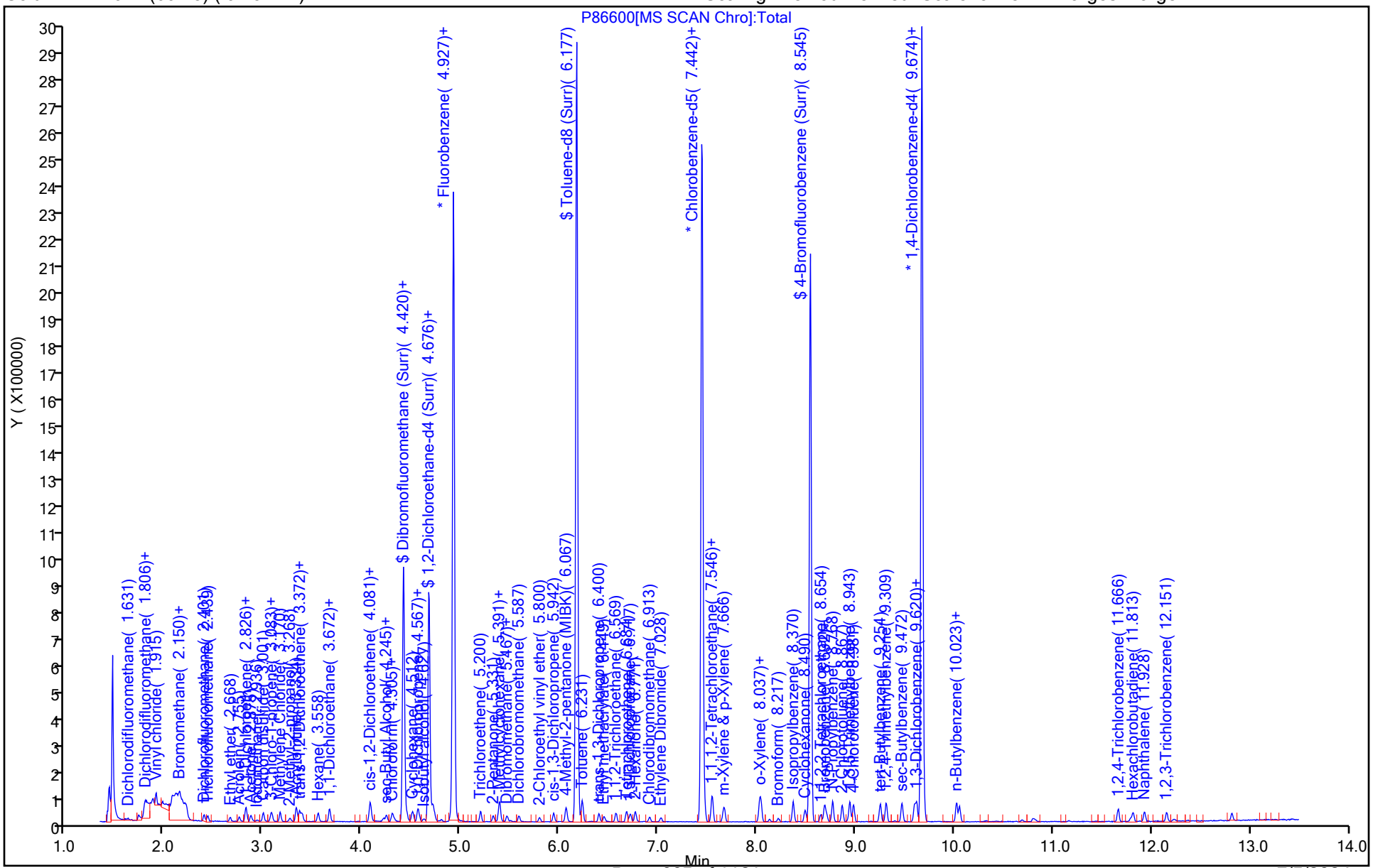
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Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86600.D

Injection Date:	24-Jun-2024 14:25:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

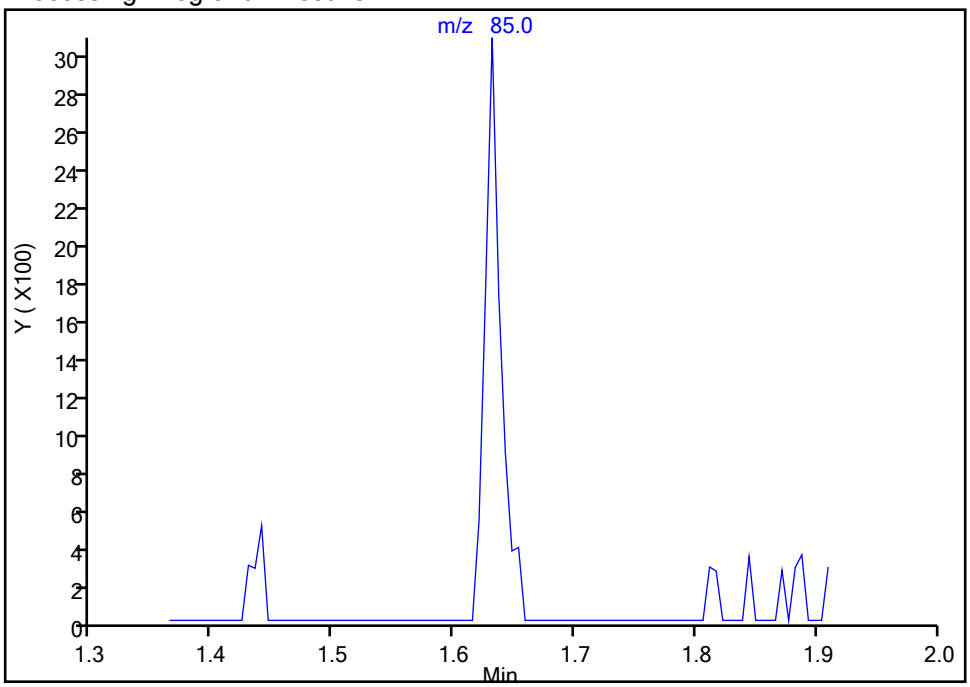
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Injection Date: 24-Jun-2024 14:25:30 Instrument ID: VMS_P
Lims ID: STD1
Client ID:
Operator ID: BJ ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

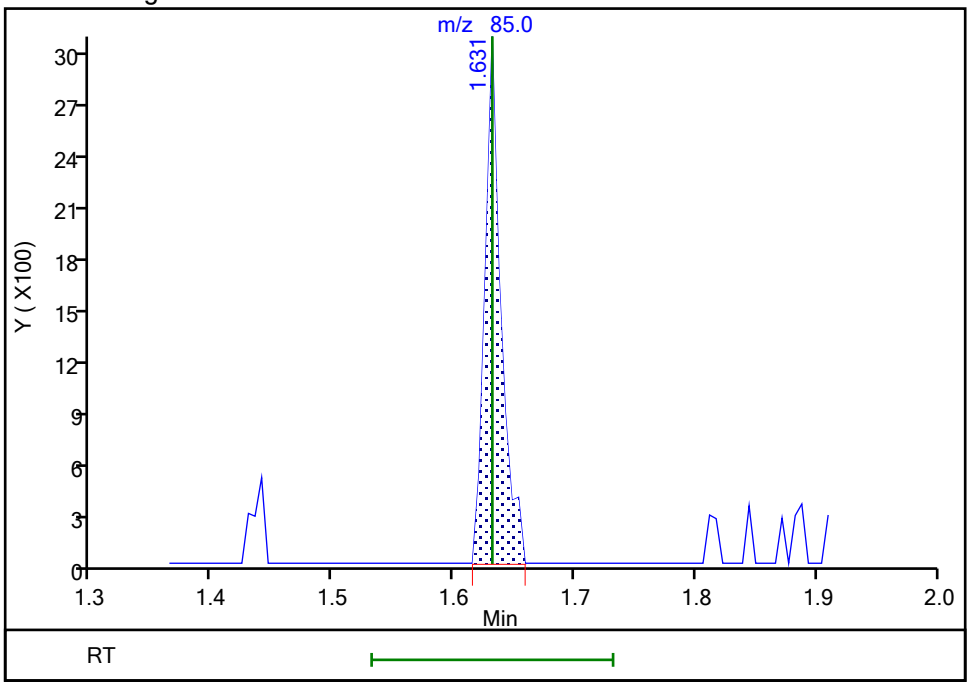
Not Detected
Expected RT: 1.63

Processing Integration Results



RT: 1.63
Area: 2791
Amount: 1.006577
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 24-Jun-2024 16:09:49 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

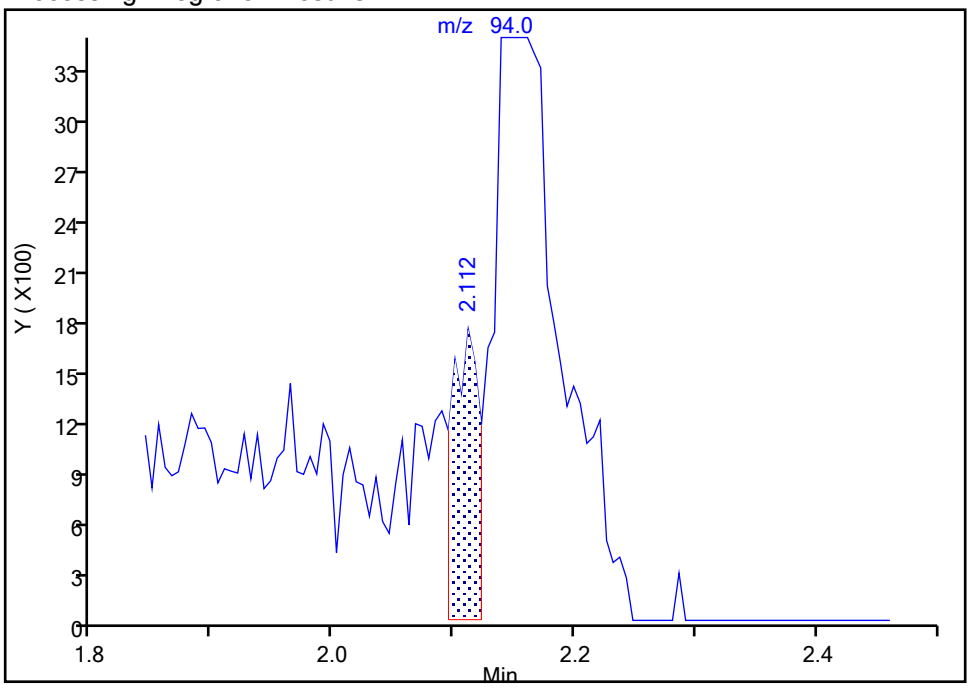
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Injection Date: 24-Jun-2024 14:25:30 Instrument ID: VMS_P
Lims ID: STD1
Client ID:
Operator ID: BJ ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

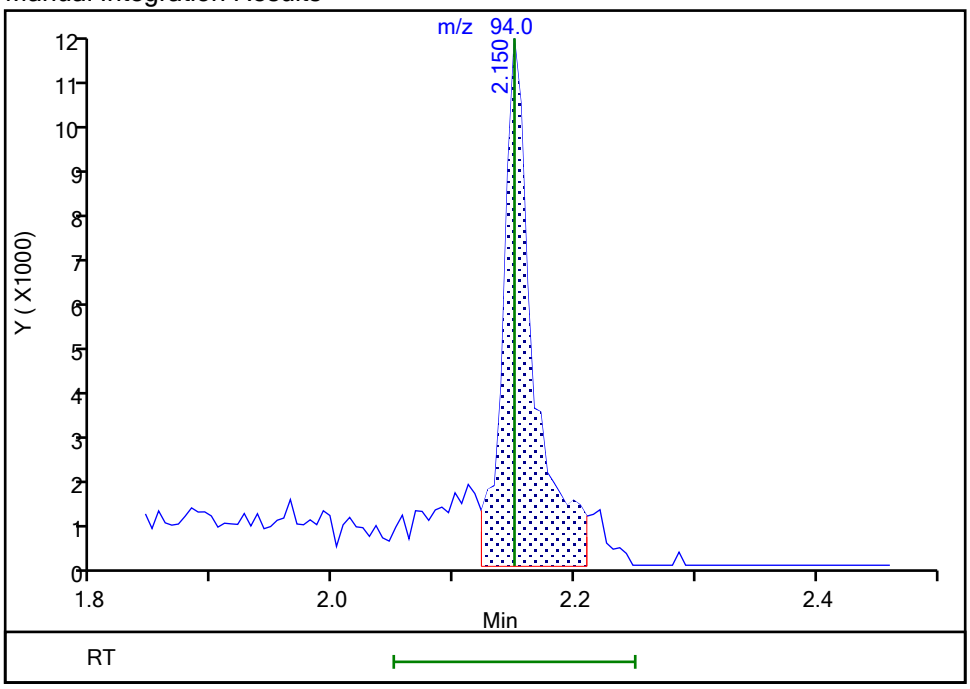
Processing Integration Results

RT: 2.11
Area: 2744
Amount: -0.204532
Amount Units: ug/l



Manual Integration Results

RT: 2.15
Area: 19842
Amount: 1.306403
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:09:00 -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_P\20240621-134755.b\P86602.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Jun-2024 15:06:30 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:58:59 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:13:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1696756	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	86	405933	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	96	675890	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	432492	50.0	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	436209	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	94	1666062	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.545	8.539	0.006	93	566747	50.0	51.2	
9 Dichlorodifluoromethane	85	1.631	1.632	-0.001	45	4558	2.00	1.62	
10 Chloromethane	50	1.801	1.801	0.000	96	22534	2.00	2.05	
11 Vinyl chloride	62	1.882	1.883	-0.001	97	28647	2.00	1.93	
12 Bromomethane	94	2.150	2.150	0.000	92	32712	2.00	2.12	
13 Chloroethane	64	2.232	2.232	0.000	98	15401	2.00	2.10	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	97	34011	2.00	1.94	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	97	22324	2.00	1.87	
17 Ethyl ether	59	2.663	2.663	0.000	87	13602	2.00	1.98	
18 Acrolein	56	2.755	2.756	-0.001	98	20851	19.8	19.6	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	15415	2.00	1.84	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.826	2.826	0.000	70	12681	2.00	1.96	
21 Acetone	43	2.875	2.870	0.005	100	30830	8.00	7.92	
23 Iodomethane	142	2.941	2.936	0.005	97	8183	2.00	4.92	
24 Carbon disulfide	76	3.001	2.996	0.005	99	56521	2.00	2.08	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	83	22422	2.00	2.37	
25 Methyl acetate	43	3.088	3.088	0.000	96	23012	4.00	4.02	
28 Methylene Chloride	84	3.170	3.170	0.000	89	20626	2.00	1.97	
29 2-Methyl-2-propanol	59	3.274	3.268	0.006	99	14320	20.0	16.6	
30 Acrylonitrile	53	3.334	3.334	0.000	99	67724	20.0	19.7	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	17721	2.00	1.88	
31 Methyl tert-butyl ether	73	3.388	3.389	0.000	93	50498	2.00	1.91	
33 Hexane	57	3.552	3.552	0.000	90	21734	2.00	2.00	
34 Vinyl acetate	43	3.667	3.667	0.000	97	55693	4.00	3.89	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	70	31420	2.00	1.92	

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	4.081	4.076	0.005	82	20077	2.00	1.89	
39 2-Butanone (MEK)	43	4.087	4.081	0.006	97	33407	8.00	8.13	
42 2,2-Dichloropropane	77	4.081	4.087	-0.006	72	27883	2.00	1.99	
44 sec-Butyl Alcohol	45	4.218	4.212	0.006	97	23489	48.0	61.4	
46 Chlorobromomethane	128	4.245	4.245	0.000	94	9480	2.00	2.03	
48 Chloroform	83	4.305	4.305	0.000	95	33531	2.00	2.01	
47 Tetrahydrofuran	42	4.327	4.316	0.011	90	10552	4.00	4.43	
49 1,1,1-Trichloroethane	97	4.458	4.452	0.006	99	26668	2.00	1.99	
50 Cyclohexane	56	4.512	4.513	-0.001	89	26900	2.00	1.99	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	95	24534	2.00	1.97	
52 Carbon tetrachloride	117	4.578	4.573	0.005	94	20977	2.00	1.92	
55 Isobutyl alcohol	41	4.627	4.622	0.005	92	10211	50.0	43.7	
53 Benzene	78	4.714	4.714	0.000	93	73213	2.00	1.96	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	95	25413	2.00	2.06	
57 n-Heptane	43	4.900	4.900	0.000	78	17741	2.00	2.03	
59 Trichloroethene	95	5.200	5.200	0.000	95	19068	2.00	2.02	
60 2-Pentanone	43	5.325	5.326	-0.001	98	35192	6.40	6.00	
61 Methylcyclohexane	55	5.385	5.391	-0.006	85	20824	2.00	1.99	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	80	19242	2.00	1.98	
65 Dibromomethane	93	5.467	5.467	0.000	96	12580	2.00	1.91	
64 1,4-Dioxane	88	5.495	5.500	-0.005	66	4776	40.0	36.8	M
66 Dichlorobromomethane	83	5.593	5.587	0.006	98	23517	2.00	1.95	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	91	10643	2.00	1.89	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	95	27427	2.00	1.94	
70 4-Methyl-2-pentanone (MIBK)	43	6.067	6.068	-0.001	96	60127	8.00	7.52	
71 Toluene	91	6.231	6.231	0.000	97	85392	2.00	1.99	
72 trans-1,3-Dichloropropene	75	6.406	6.400	0.006	95	27187	2.00	1.92	
73 Ethyl methacrylate	69	6.455	6.450	0.005	84	19521	2.00	1.86	
74 1,1,2-Trichloroethane	97	6.575	6.570	0.005	91	16447	2.00	1.94	
75 Tetrachloroethene	164	6.684	6.679	0.005	93	14827	2.00	2.05	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	87	28311	2.00	2.01	
77 2-Hexanone	43	6.771	6.766	0.005	93	42376	8.00	7.74	
78 Chlorodibromomethane	129	6.919	6.913	0.006	90	16164	2.00	1.85	
79 Ethylene Dibromide	107	7.028	7.028	0.000	94	18068	2.00	2.04	
80 1-Chlorohexane	91	7.426	7.426	0.000	93	22640	1.60	1.67	
81 Chlorobenzene	112	7.470	7.470	0.000	97	53899	2.00	2.06	
82 1,1,1,2-Tetrachloroethane	131	7.546	7.541	0.005	92	15248	2.00	1.76	
83 Ethylbenzene	106	7.552	7.546	0.006	98	27458	2.00	1.97	
84 m-Xylene & p-Xylene	106	7.672	7.666	0.006	0	33965	2.00	2.01	
85 o-Xylene	106	8.026	8.026	0.000	97	32767	2.00	1.93	
86 Styrene	104	8.043	8.043	0.000	95	53002	2.00	1.81	
87 Bromoform	173	8.223	8.217	0.006	90	9687	2.00	1.69	
88 Isopropylbenzene	105	8.370	8.370	0.000	96	84402	2.00	1.96	
90 Cyclohexanone	55	8.490	8.490	0.000	91	32528	60.0	60.8	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	23527	2.00	2.00	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	46	6320	2.00	1.97	
94 Bromobenzene	156	8.692	8.687	0.005	95	22668	2.00	1.98	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	84	6574	2.00	1.92	
96 N-Propylbenzene	120	8.774	8.768	0.006	100	22537	2.00	1.89	
97 2-Chlorotoluene	126	8.867	8.867	0.000	95	21223	2.00	2.03	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	67882	2.00	1.90	
99 4-Chlorotoluene	126	8.981	8.981	0.000	98	20449	2.00	1.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	60077	2.00	1.98	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	97	71809	2.00	1.95	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	17323	2.00	1.92	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	41230	2.00	1.93	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	98	72169	2.00	1.88	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	91	44668	2.00	2.00	
107 n-Butylbenzene	91	10.023	10.023	0.000	98	69786	2.00	1.90	
108 1,2-Dichlorobenzene	146	10.051	10.056	-0.005	96	39203	2.00	1.93	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.826	-0.001	79	3454	2.00	1.94	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	21311	2.00	1.92	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	94	9187	2.00	2.05	
113 Naphthalene	128	11.933	11.928	0.005	97	47577	2.00	1.93	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	93	14706	2.00	2.06	
S 118 1,2-Dichloroethene, Total (URS)	96				0		4.00	3.77	
S 119 Xylenes, Total (URS)	1				0		4.00	3.95	
S 120 Trihalomethanes, Total	1				0		8.00	7.51	
S 122 Xylenes, Total	106				0		4.00	3.95	
S 123 1,2-Dichloroethene, Total	1				0		4.00	3.77	
S 124 1,3-Dichloropropene, Total	1				0		4.00	3.86	
S 125 Total BTEX	1				0			9.88	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil StdB_00001	Amount Added:	20.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 25-Jun-2024 00:58:59 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86602.D

Injection Date: 24-Jun-2024 15:06:30 Instrument ID: VMS_P Operator ID: BJ

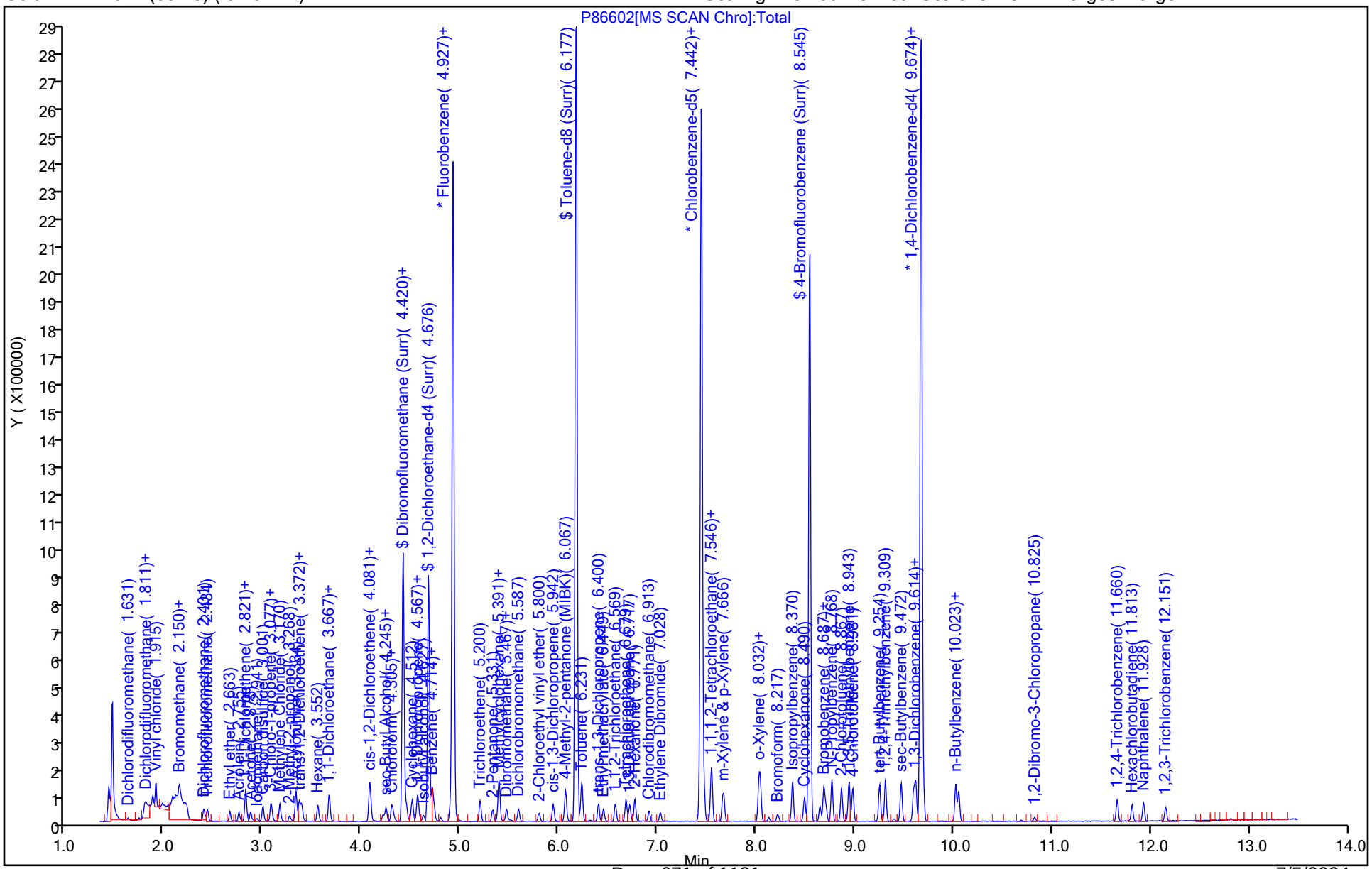
Lims ID: STD2 Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

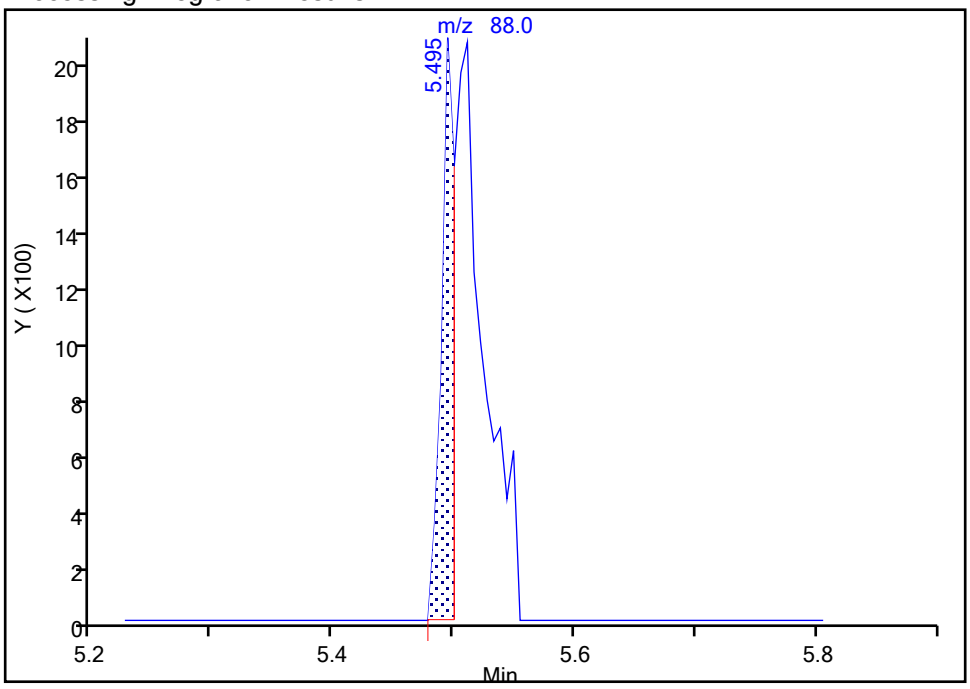
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86602.D
Injection Date: 24-Jun-2024 15:06:30 Instrument ID: VMS_P
Lims ID: STD2
Client ID:
Operator ID: BJ ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

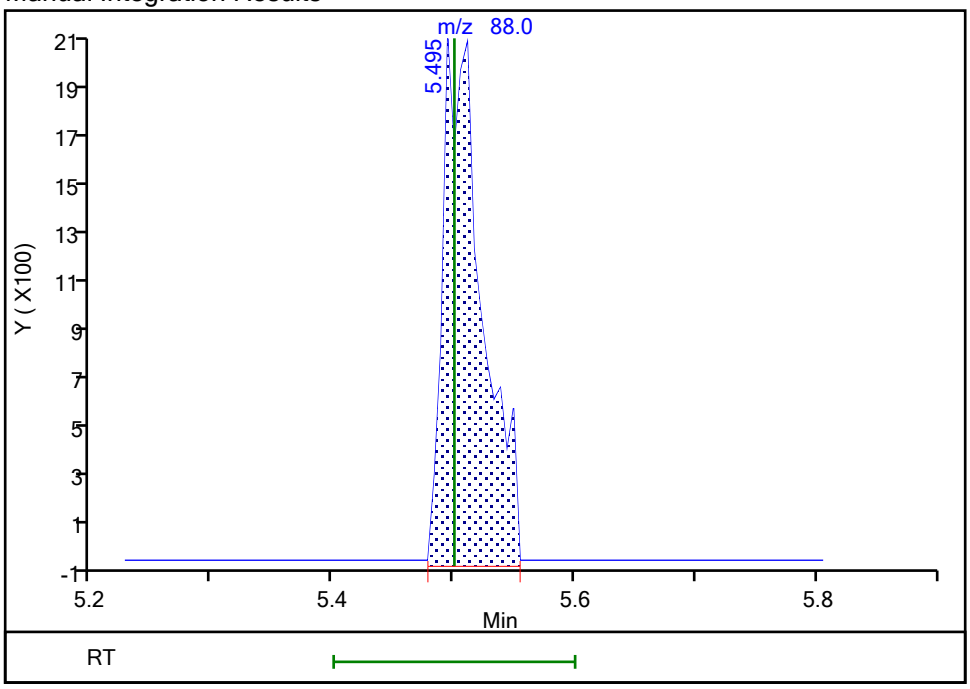
Processing Integration Results

RT: 5.49
Area: 1603
Amount: 13.606196
Amount Units: ug/l



Manual Integration Results

RT: 5.49
Area: 4776
Amount: 36.763674
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:49:34 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86603.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Jun-2024 15:27:30 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:03 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:08:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1698799	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	86	406437	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	679836	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	439446	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	422130	50.0	49.0	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	94	1680688	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	91	563123	50.0	50.5	
9 Dichlorodifluoromethane	85	1.631	1.632	-0.001	79	11502	5.00	4.09	
10 Chloromethane	50	1.801	1.801	-0.001	99	51518	5.00	4.68	
11 Vinyl chloride	62	1.882	1.883	-0.001	98	66020	5.00	4.44	
12 Bromomethane	94	2.144	2.150	-0.006	92	70389	5.00	4.57	a
13 Chloroethane	64	2.232	2.232	0.000	99	35403	5.00	4.82	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	87637	5.00	4.99	
15 Trichlorofluoromethane	101	2.433	2.434	-0.001	98	56197	5.00	4.71	
17 Ethyl ether	59	2.663	2.663	0.000	88	33797	5.00	4.93	
18 Acrolein	56	2.755	2.756	-0.001	99	49957	49.4	47.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	40485	5.00	4.82	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.826	-0.005	72	31372	5.00	4.85	
21 Acetone	43	2.870	2.870	0.000	100	57713	20.0	19.8	
23 Iodomethane	142	2.935	2.936	-0.001	99	22976	5.00	6.25	
24 Carbon disulfide	76	2.995	2.996	-0.001	100	132665	5.00	4.87	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	82	49443	5.00	5.23	
25 Methyl acetate	43	3.088	3.088	0.000	96	55964	10.0	9.76	
28 Methylene Chloride	84	3.170	3.170	0.000	89	49751	5.00	4.75	
29 2-Methyl-2-propanol	59	3.274	3.268	0.006	99	37853	50.0	43.8	
30 Acrylonitrile	53	3.334	3.334	0.000	99	162896	50.0	47.3	
32 trans-1,2-Dichloroethene	96	3.366	3.367	-0.001	96	44237	5.00	4.70	
31 Methyl tert-butyl ether	73	3.388	3.389	0.000	94	127498	5.00	4.82	
33 Hexane	57	3.552	3.552	0.000	91	52831	5.00	4.86	
34 Vinyl acetate	43	3.667	3.667	0.000	98	138511	10.0	9.66	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	80185	5.00	4.88	

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	4.076	4.076	0.000	82	49857	5.00	4.68	
39 2-Butanone (MEK)	43	4.087	4.081	0.006	97	73828	20.0	18.0	
42 2,2-Dichloropropane	77	4.087	4.087	0.000	78	65581	5.00	4.68	
44 sec-Butyl Alcohol	45	4.218	4.212	0.006	98	59596	120.0	112.7	
46 Chlorobromomethane	128	4.245	4.245	0.000	94	23130	5.00	4.94	
48 Chloroform	83	4.305	4.305	0.000	94	79936	5.00	4.79	
47 Tetrahydrofuran	42	4.321	4.316	0.005	81	23382	10.0	9.81	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	98	66062	5.00	4.93	
50 Cyclohexane	56	4.507	4.513	-0.006	87	66086	5.00	4.88	
51 1,1-Dichloropropene	75	4.561	4.562	-0.001	96	60006	5.00	4.80	
52 Carbon tetrachloride	117	4.578	4.573	0.005	94	52320	5.00	4.79	
55 Isobutyl alcohol	41	4.621	4.622	-0.001	86	24669	125.0	105.5	
53 Benzene	78	4.714	4.714	0.000	95	184814	5.00	4.94	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	96	60298	5.00	4.87	
57 n-Heptane	43	4.900	4.900	0.000	85	45833	5.00	5.24	
59 Trichloroethene	95	5.200	5.200	0.000	97	48270	5.00	5.12	
60 2-Pentanone	43	5.325	5.326	-0.001	98	88757	16.0	15.1	
61 Methylcyclohexane	55	5.391	5.391	0.000	86	50536	5.00	4.82	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	88	46216	5.00	4.75	
65 Dibromomethane	93	5.467	5.467	0.000	95	31950	5.00	4.84	
64 1,4-Dioxane	88	5.500	5.500	0.000	89	11743	100.0	90.3	
66 Dichlorobromomethane	83	5.587	5.587	0.000	97	57135	5.00	4.74	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	92	26702	5.00	4.75	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	95	70991	5.00	5.02	
70 4-Methyl-2-pentanone (MIBK)	43	6.067	6.068	-0.001	96	154194	20.0	19.3	
71 Toluene	91	6.231	6.231	0.000	98	197708	5.00	4.61	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	94	67129	5.00	4.73	
73 Ethyl methacrylate	69	6.449	6.450	-0.001	85	49027	5.00	4.68	
74 1,1,2-Trichloroethane	97	6.569	6.570	-0.001	91	40735	5.00	4.80	
75 Tetrachloroethene	164	6.679	6.679	-0.001	94	36116	5.00	4.99	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	88	70631	5.00	5.01	
77 2-Hexanone	43	6.771	6.766	0.005	95	107260	20.0	19.6	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	41428	5.00	4.73	
79 Ethylene Dibromide	107	7.028	7.028	0.000	96	43064	5.00	4.86	
80 1-Chlorohexane	91	7.426	7.426	0.000	91	54203	4.00	3.98	
81 Chlorobenzene	112	7.470	7.470	0.000	96	128285	5.00	4.90	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	93	39038	5.00	4.50	
83 Ethylbenzene	106	7.552	7.546	0.006	99	65688	5.00	4.72	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	80940	5.00	4.79	
85 o-Xylene	106	8.026	8.026	0.000	97	80902	5.00	4.77	
86 Styrene	104	8.043	8.043	0.000	95	138972	5.00	4.74	
87 Bromoform	173	8.217	8.217	0.000	91	25494	5.00	4.45	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	213499	5.00	4.92	
90 Cyclohexanone	55	8.490	8.490	0.000	90	78064	150.0	145.6	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	95	59745	5.00	5.06	
93 trans-1,4-Dichloro-2-butene	53	8.686	8.687	-0.001	59	14161	5.00	4.39	
94 Bromobenzene	156	8.686	8.687	-0.001	95	54399	5.00	4.73	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	16910	5.00	4.92	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	57944	5.00	4.83	
97 2-Chlorotoluene	126	8.867	8.867	-0.001	97	52972	5.00	5.03	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	174678	5.00	4.86	
99 4-Chlorotoluene	126	8.981	8.981	0.000	98	54373	5.00	4.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	148749	5.00	4.88	
101 1,2,4-Trimethylbenzene	105	9.308	9.309	-0.001	98	176094	5.00	4.76	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	43928	5.00	4.83	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	101227	5.00	4.71	
104 4-Isopropyltoluene	119	9.619	9.620	-0.001	97	185547	5.00	4.81	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	106066	5.00	4.73	
107 n-Butylbenzene	91	10.023	10.023	0.000	98	175023	5.00	4.74	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	98	97585	5.00	4.79	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.826	-0.001	80	9296	5.00	5.19	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	52345	5.00	4.69	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	95	22638	5.00	5.02	
113 Naphthalene	128	11.928	11.928	0.000	97	117832	5.00	4.74	
114 1,2,3-Trichlorobenzene	180	12.157	12.151	0.006	93	34746	5.00	4.83	
S 118 1,2-Dichloroethene, Total (URS)	96				0		10.0	9.38	
S 119 Xylenes, Total (URS)	1				0		10.0	9.56	
S 120 Trihalomethanes, Total	1				0		20.0	18.7	
S 122 Xylenes, Total	106				0		10.0	9.56	
S 123 1,2-Dichloroethene, Total	1				0		10.0	9.38	
S 124 1,3-Dichloropropene, Total	1				0		10.0	9.76	
S 125 Total BTEX	1				0			23.8	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMain B_00105	Amount Added:	2.50	Units: uL	
MV-Gas B_00165	Amount Added:	1.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

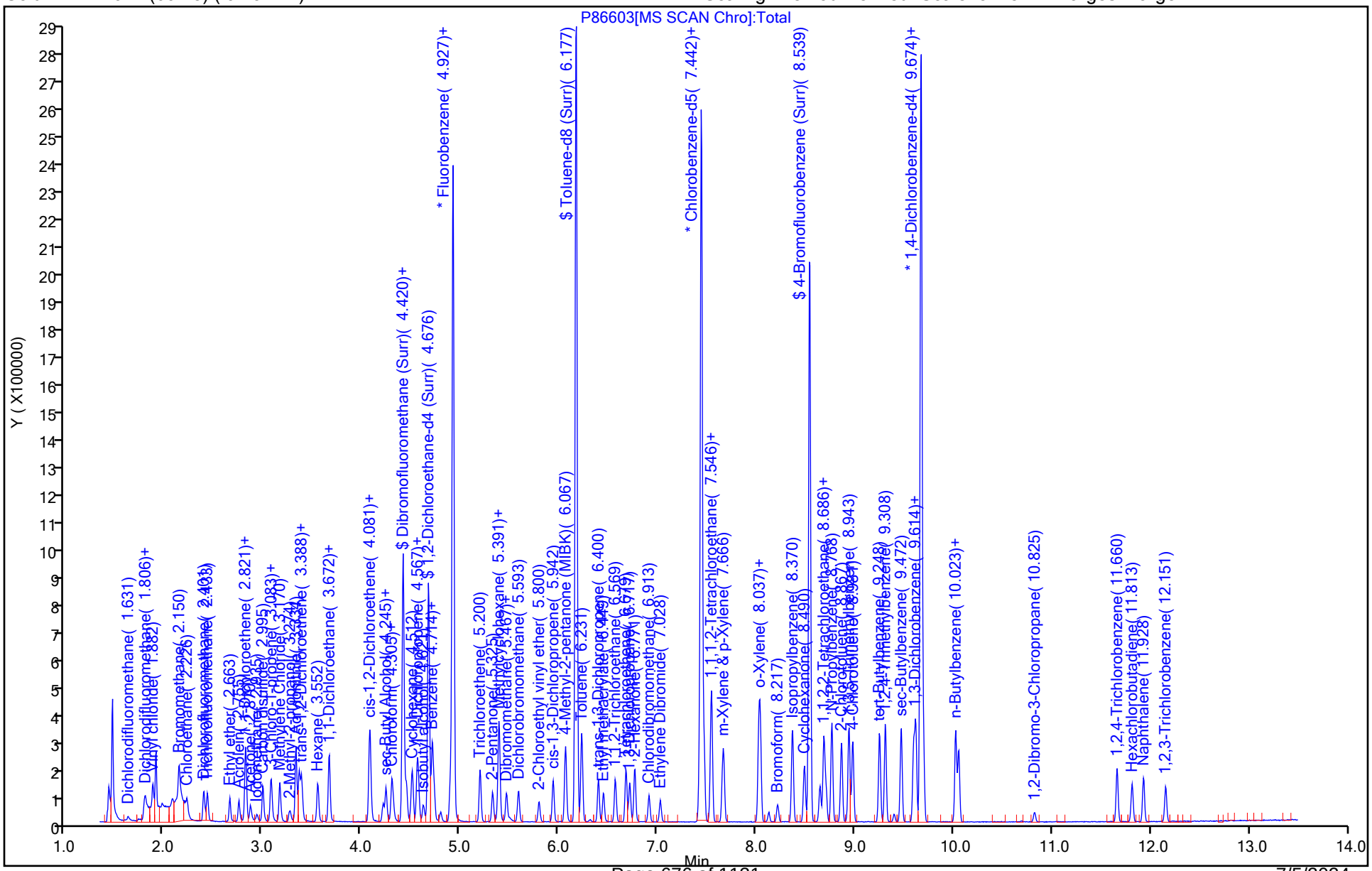
Report Date: 25-Jun-2024 00:59:04 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86603.D

Injection Date:	24-Jun-2024 15:27:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD5			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSP_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



Manual Integration/User Assign Peak Report

Eurofins Denver

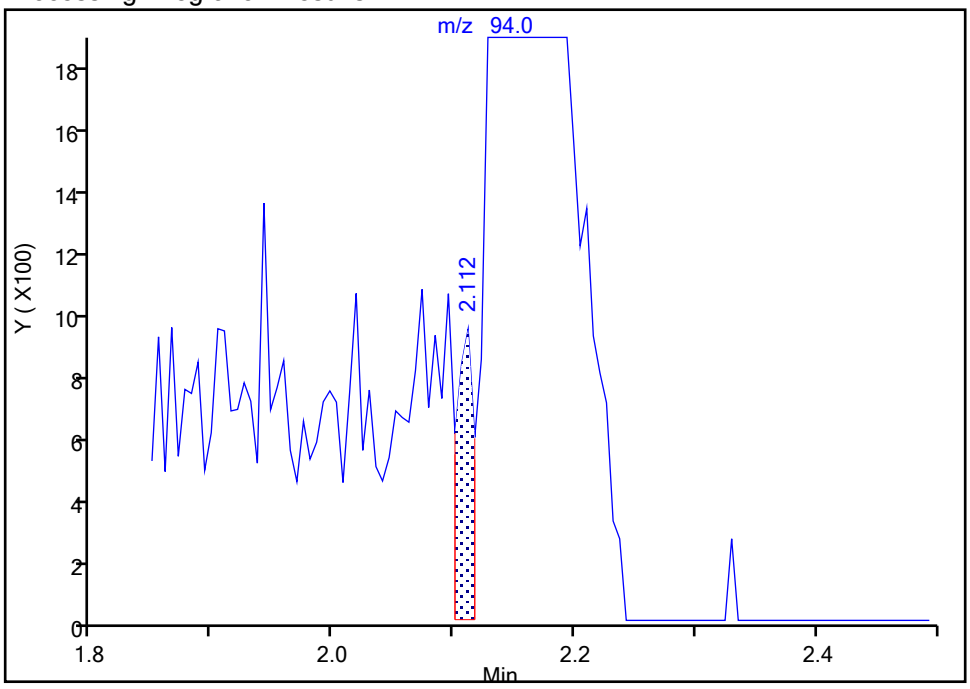
Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86603.D
Injection Date: 24-Jun-2024 15:27:30 Instrument ID: VMS_P
Lims ID: STD5
Client ID:
Operator ID: BJ ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

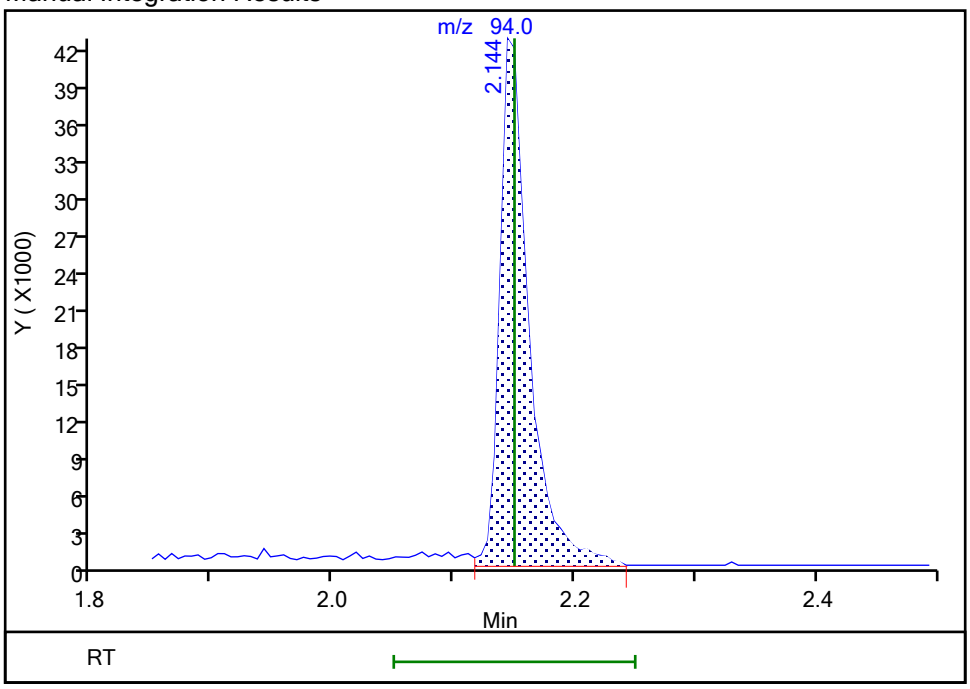
Processing Integration Results

RT: 2.11
Area: 961
Amount: 0.098190
Amount Units: ug/l



Manual Integration Results

RT: 2.14
Area: 70389
Amount: 4.565407
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:08:38 -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_P\20240621-134755.b\P86604.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Jun-2024 15:47:30 ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:09 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:08:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1675434	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	85	398327	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	650309	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	437431	50.0	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	428889	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	6.177	6.177	0.000	93	1646105	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	91	543977	50.0	51.0	
9 Dichlorodifluoromethane	85	1.632	1.632	0.000	85	31563	10.0	11.4	
10 Chloromethane	50	1.806	1.806	0.000	98	108809	10.0	10.0	
11 Vinyl chloride	62	1.883	1.883	0.000	98	148074	10.0	10.1	
12 Bromomethane	94	2.150	2.150	0.000	92	144470	10.0	9.50	a
13 Chloroethane	64	2.232	2.232	0.000	100	68769	10.0	9.49	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	98	171763	10.0	9.92	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	120575	10.0	10.3	
17 Ethyl ether	59	2.663	2.663	0.000	88	68960	10.0	10.2	
18 Acrolein	56	2.756	2.756	0.000	100	100497	98.8	95.9	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	77478	10.0	9.35	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.827	2.827	0.000	70	57807	10.0	9.07	
21 Acetone	43	2.870	2.870	0.000	100	103256	40.0	40.5	
23 Iodomethane	142	2.936	2.936	0.000	99	51032	10.0	8.85	
24 Carbon disulfide	76	2.996	2.996	0.000	100	246348	10.0	9.18	
26 3-Chloro-1-propene	41	3.078	3.078	0.000	82	90925	10.0	9.75	
25 Methyl acetate	43	3.088	3.088	0.000	96	109316	20.0	19.3	
28 Methylene Chloride	84	3.170	3.170	0.000	90	94316	10.0	9.12	
29 2-Methyl-2-propanol	59	3.269	3.269	0.000	99	82048	100.0	96.2	
30 Acrylonitrile	53	3.334	3.334	0.000	99	327025	100.0	96.3	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	97	85716	10.0	9.23	
31 Methyl tert-butyl ether	73	3.389	3.389	0.000	94	253549	10.0	9.73	
33 Hexane	57	3.558	3.558	0.000	89	98722	10.0	9.27	
34 Vinyl acetate	43	3.667	3.667	0.000	98	277951	20.0	19.7	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	153471	10.0	9.47	

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	4.076	4.076	0.000	81	95954	10.0	9.13	
39 2-Butanone (MEK)	43	4.082	4.082	0.000	97	156204	40.0	38.5	
42 2,2-Dichloropropane	77	4.082	4.082	0.000	78	127053	10.0	9.19	
44 sec-Butyl Alcohol	45	4.212	4.212	0.000	98	130772	240.0	216.6	
46 Chlorobromomethane	128	4.245	4.245	0.000	93	44084	10.0	9.56	
48 Chloroform	83	4.305	4.305	0.000	94	154708	10.0	9.41	
47 Tetrahydrofuran	42	4.322	4.322	0.000	81	45699	20.0	19.4	
49 1,1,1-Trichloroethane	97	4.453	4.453	0.000	98	123206	10.0	9.32	
50 Cyclohexane	56	4.513	4.513	0.000	87	122328	10.0	9.15	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	96	112867	10.0	9.16	
52 Carbon tetrachloride	117	4.573	4.573	0.000	95	97276	10.0	9.04	
55 Isobutyl alcohol	41	4.627	4.627	0.000	91	56044	250.0	242.9	
53 Benzene	78	4.714	4.714	0.000	95	347267	10.0	9.42	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	97	113976	10.0	9.34	
57 n-Heptane	43	4.900	4.900	0.000	85	81278	10.0	9.43	
59 Trichloroethene	95	5.200	5.200	0.000	96	88546	10.0	9.58	
60 2-Pentanone	43	5.326	5.326	0.000	98	184736	32.0	31.9	
61 Methylcyclohexane	55	5.391	5.391	0.000	86	91748	10.0	8.87	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	91	89403	10.0	9.31	
65 Dibromomethane	93	5.467	5.467	0.000	94	62257	10.0	9.56	
64 1,4-Dioxane	88	5.500	5.500	0.000	91	25008	200.0	195.0	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	114950	10.0	9.66	
68 2-Chloroethyl vinyl ether	63	5.800	5.800	0.000	91	56471	10.0	10.2	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	95	133059	10.0	9.61	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	96	309828	40.0	39.2	
71 Toluene	91	6.231	6.231	0.000	97	371467	10.0	8.78	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	93	135307	10.0	9.67	
73 Ethyl methacrylate	69	6.450	6.450	0.000	85	105220	10.0	10.2	
74 1,1,2-Trichloroethane	97	6.570	6.570	0.000	91	81535	10.0	9.75	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	66945	10.0	9.44	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	87	140798	10.0	10.2	
77 2-Hexanone	43	6.766	6.766	0.000	94	217527	40.0	40.5	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	81492	10.0	9.50	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	84200	10.0	9.70	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	98475	8.00	7.39	
81 Chlorobenzene	112	7.470	7.470	0.000	96	238258	10.0	9.28	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	93	77789	10.0	9.15	
83 Ethylbenzene	106	7.546	7.546	0.000	98	123664	10.0	9.06	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	151305	10.0	9.14	
85 o-Xylene	106	8.026	8.026	0.000	97	151380	10.0	9.11	
86 Styrene	104	8.043	8.043	0.000	95	261527	10.0	9.11	
87 Bromoform	173	8.217	8.217	0.000	93	50840	10.0	9.05	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	390370	10.0	9.40	
90 Cyclohexanone	55	8.490	8.490	0.000	91	160938	300.0	306.4	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	95	114002	10.0	10.1	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	58	30200	10.0	9.79	
94 Bromobenzene	156	8.687	8.687	0.000	94	101460	10.0	9.23	
95 1,2,3-Trichloropropane	110	8.709	8.709	0.000	83	32549	10.0	9.89	
96 N-Propylbenzene	120	8.769	8.769	0.000	99	107978	10.0	9.40	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	93929	10.0	9.32	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	321968	10.0	9.36	
99 4-Chlorotoluene	126	8.981	8.981	0.000	98	97622	10.0	9.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.249	9.249	0.000	93	273244	10.0	9.38	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	330829	10.0	9.35	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	80309	10.0	9.23	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	188556	10.0	9.16	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	337780	10.0	9.16	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	96	198439	10.0	9.25	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	322921	10.0	9.14	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	97	183282	10.0	9.40	
109 1,2-Dibromo-3-Chloropropane	157	10.820	10.820	0.000	77	17828	10.0	10.4	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	92	100464	10.0	9.42	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	96	41427	10.0	9.61	
113 Naphthalene	128	11.928	11.928	0.000	97	230395	10.0	9.69	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	94	67933	10.0	9.88	
S 118 1,2-Dichloroethene, Total (URS)	96				0		20.0	18.4	
S 119 Xylenes, Total (URS)	1				0		20.0	18.2	
S 120 Trihalomethanes, Total	1				0		40.0	37.6	
S 122 Xylenes, Total	106				0		20.0	18.2	
S 123 1,2-Dichloroethene, Total	1				0		20.0	18.4	
S 124 1,3-Dichloropropene, Total	1				0		20.0	19.3	
S 125 Total BTEX	1				0			45.5	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMain B_00105	Amount Added:	5.00	Units: uL	
MV-Gas B_00165	Amount Added:	2.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

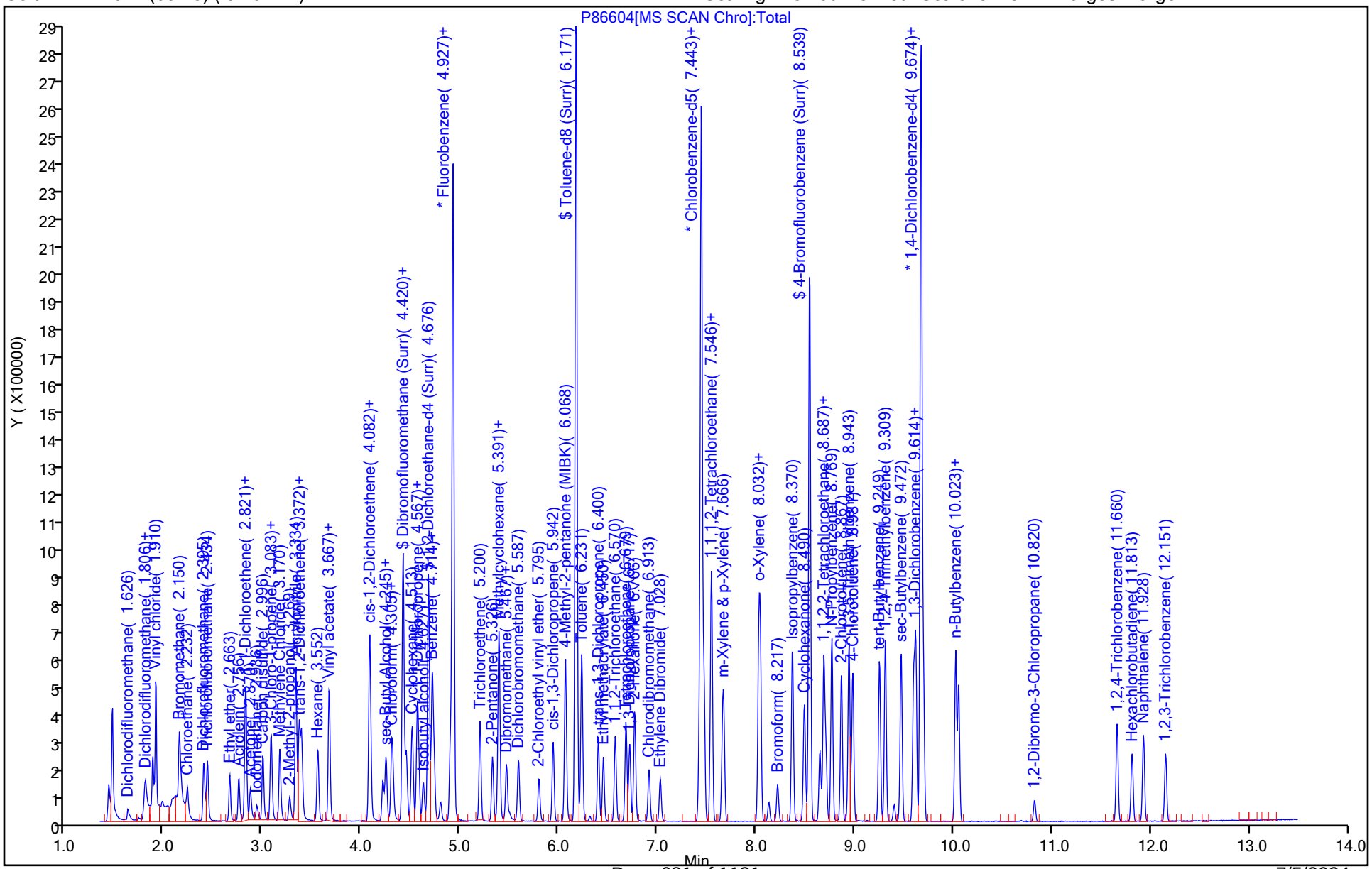
Report Date: 25-Jun-2024 00:59:09 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86604.D

Injection Date:	24-Jun-2024 15:47:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD10			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSP_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



Manual Integration/User Assign Peak Report

Eurofins Denver

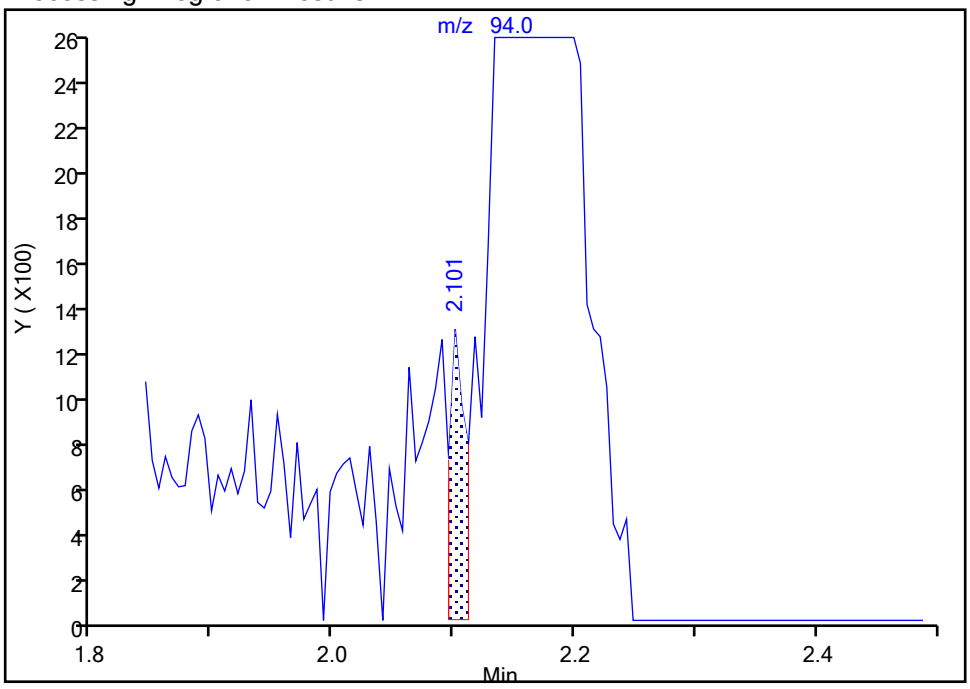
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Injection Date: 24-Jun-2024 15:47:30 Instrument ID: VMS_P
Lims ID: STD10
Client ID:
Operator ID: BJ ALS Bottle#: 6 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

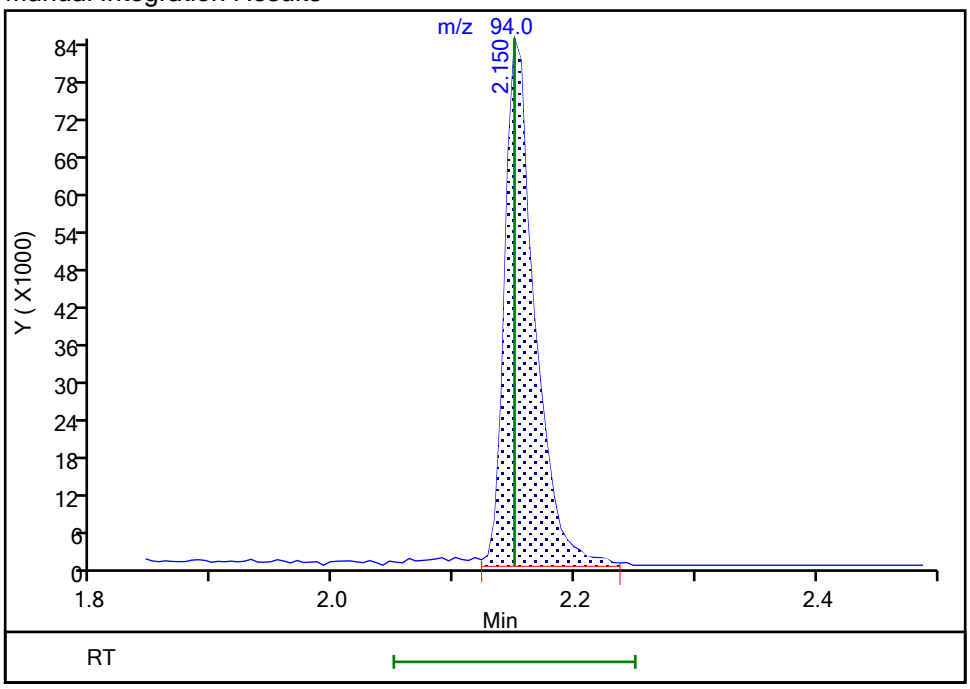
Processing Integration Results

RT: 2.10
Area: 1186
Amount: 0.174750
Amount Units: ug/l



Manual Integration Results

RT: 2.15
Area: 144470
Amount: 9.500951
Amount Units: ug/l



Reviewer: Q2ZS, 24-Jun-2024 16:08:26 -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_P\20240621-134755.b\P86605.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 24-Jun-2024 16:08:30 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:14 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:48:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1623913	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	85	398958	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	94	668067	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	422625	50.0	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	412057	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1607937	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	546737	50.0	49.9	
9 Dichlorodifluoromethane	85	1.632	1.632	0.000	87	136234	50.0	50.6	
10 Chloromethane	50	1.801	1.801	0.000	98	471542	50.0	44.8	
11 Vinyl chloride	62	1.883	1.883	0.000	98	663339	50.0	46.7	
12 Bromomethane	94	2.150	2.150	0.000	92	622596	50.0	42.2	
13 Chloroethane	64	2.232	2.232	0.000	99	304280	50.0	43.3	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	98	785640	50.0	46.8	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	99	548386	50.0	48.1	
17 Ethyl ether	59	2.663	2.663	0.000	88	321914	50.0	49.1	
18 Acrolein	56	2.756	2.756	0.000	99	495959	493.8	488.1	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	388771	50.0	48.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.826	2.826	0.000	72	297781	50.0	48.2	
21 Acetone	43	2.870	2.870	0.000	100	445233	200.0	200.0	
23 Iodomethane	142	2.936	2.936	0.000	99	400965	50.0	42.1	
24 Carbon disulfide	76	2.996	2.996	0.000	100	1213453	50.0	46.6	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	83	442109	50.0	48.9	
25 Methyl acetate	43	3.088	3.088	0.000	96	533953	100.0	97.4	
28 Methylene Chloride	84	3.170	3.170	0.000	89	457488	50.0	45.6	
29 2-Methyl-2-propanol	59	3.268	3.268	0.000	99	411125	500.0	497.5	
30 Acrylonitrile	53	3.334	3.334	0.000	99	1642025	500.0	498.9	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	97	429127	50.0	47.7	
31 Methyl tert-butyl ether	73	3.389	3.389	0.000	94	1229268	50.0	48.6	
33 Hexane	57	3.552	3.552	0.000	90	508819	50.0	47.7	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1460437	100.0	106.5	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	754513	50.0	48.1	

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	4.076	4.076	0.000	82	488576	50.0	48.0	
39 2-Butanone (MEK)	43	4.081	4.081	0.000	98	729578	200.0	185.6	
42 2,2-Dichloropropane	77	4.087	4.087	0.000	89	626755	50.0	46.8	
44 sec-Butyl Alcohol	45	4.212	4.212	0.000	98	692290	1200.0	1058.5	
46 Chlorobromomethane	128	4.245	4.245	0.000	92	216902	50.0	48.5	
48 Chloroform	83	4.305	4.305	0.000	94	755051	50.0	47.4	
47 Tetrahydrofuran	42	4.316	4.316	0.000	81	210663	100.0	92.5	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	99	614921	50.0	48.0	
50 Cyclohexane	56	4.513	4.513	0.000	88	621920	50.0	48.0	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	97	568235	50.0	47.6	
52 Carbon tetrachloride	117	4.573	4.573	0.000	95	509744	50.0	48.9	
55 Isobutyl alcohol	41	4.622	4.622	0.000	93	271856	1250.0	1215.8	
53 Benzene	78	4.714	4.714	0.000	95	1719834	50.0	48.1	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	97	560321	50.0	47.3	
57 n-Heptane	43	4.900	4.900	0.000	85	380705	50.0	45.6	
59 Trichloroethene	95	5.200	5.200	0.000	97	433634	50.0	46.8	
60 2-Pentanone	43	5.326	5.326	0.000	98	869060	160.0	154.8	
61 Methylcyclohexane	55	5.391	5.391	0.000	89	468415	50.0	46.7	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	92	444229	50.0	47.7	
65 Dibromomethane	93	5.467	5.467	0.000	95	298478	50.0	47.3	
64 1,4-Dioxane	88	5.500	5.500	0.000	89	119549	1000.0	961.5	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	575760	50.0	49.9	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	261172	50.0	48.6	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	667390	50.0	48.1	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	96	1529721	200.0	199.8	
71 Toluene	91	6.231	6.231	0.000	97	1838734	50.0	44.9	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	93	668777	50.0	49.3	
73 Ethyl methacrylate	69	6.450	6.450	0.000	85	533091	50.0	51.8	
74 1,1,2-Trichloroethane	97	6.570	6.570	0.000	91	393699	50.0	48.6	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	338223	50.0	47.6	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	88	671030	50.0	48.5	
77 2-Hexanone	43	6.766	6.766	0.000	94	1048699	200.0	194.8	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	431462	50.0	50.2	
79 Ethylene Dibromide	107	7.028	7.028	0.000	97	422245	50.0	48.6	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	485788	40.0	36.4	
81 Chlorobenzene	112	7.470	7.470	0.000	95	1203727	50.0	46.8	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	425119	50.0	49.9	
83 Ethylbenzene	106	7.546	7.546	0.000	98	650719	50.0	47.6	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	773660	50.0	46.7	
85 o-Xylene	106	8.026	8.026	0.000	97	784669	50.0	47.1	
86 Styrene	104	8.043	8.043	0.000	95	1401611	50.0	48.7	
87 Bromoform	173	8.217	8.217	0.000	93	279054	50.0	49.6	
88 Isopropylbenzene	105	8.370	8.370	0.000	96	2037756	50.0	47.8	
90 Cyclohexanone	55	8.490	8.490	0.000	91	735647	1500.0	1398.2	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	563774	50.0	48.6	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	76	151722	50.0	47.9	
94 Bromobenzene	156	8.687	8.687	0.000	95	537610	50.0	47.6	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	165346	50.0	48.9	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	564718	50.0	47.9	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	493295	50.0	47.7	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1709089	50.0	48.3	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	527260	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.249	9.249	0.000	93	1430382	50.0	47.8	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1734057	50.0	47.7	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	432219	50.0	48.4	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	998441	50.0	47.2	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1826806	50.0	48.2	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	1013563	50.0	46.0	
107 n-Butylbenzene	91	10.023	10.023	0.000	98	1712641	50.0	47.2	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	98	936458	50.0	46.8	
109 1,2-Dibromo-3-Chloropropane	157	10.826	10.826	0.000	85	92519	50.0	52.6	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	508338	50.0	46.4	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	201018	50.0	45.4	
113 Naphthalene	128	11.928	11.928	0.000	97	1129238	50.0	46.2	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	320109	50.0	45.3	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	95.6	
S 119 Xylenes, Total (URS)	1				0		100.0	93.8	
S 120 Trihalomethanes, Total	1				0		200.0	197.1	
S 122 Xylenes, Total	106				0		100.0	93.8	
S 123 1,2-Dichloroethene, Total	1				0		100.0	95.6	
S 124 1,3-Dichloropropene, Total	1				0		100.0	97.4	

QC Flag Legend

Processing Flags

Reagents:

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MV-Gas B_00165	Amount Added: 10.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 25-Jun-2024 00:59:14 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86605.D

Injection Date: 24-Jun-2024 16:08:30 Instrument ID: VMS_P Operator ID: BJ

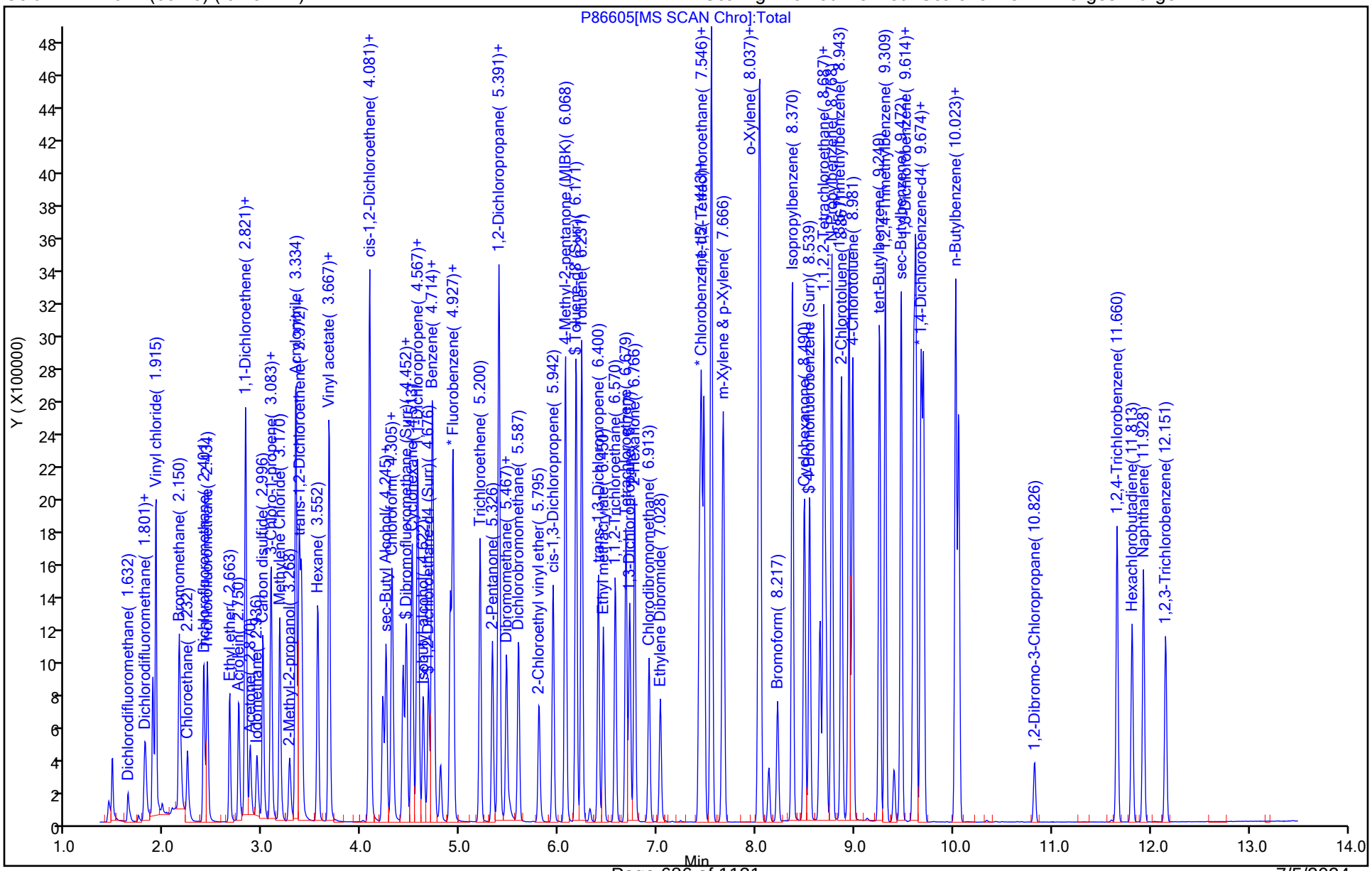
Lims ID: ICIS Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86606.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jun-2024 16:28:30 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:18 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 16:49:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1507871	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	84	371029	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	94	629122	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	390037	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	383188	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1491448	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	497893	50.0	48.3	
9 Dichlorodifluoromethane	85	1.626	1.632	-0.006	88	207807	75.0	83.2	
10 Chloromethane	50	1.801	1.801	0.000	99	703106	75.0	72.0	
11 Vinyl chloride	62	1.883	1.883	0.000	98	1030477	75.0	78.1	
12 Bromomethane	94	2.144	2.150	-0.006	93	985088	75.0	72.0	
13 Chloroethane	64	2.232	2.232	0.000	100	499688	75.0	76.6	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	98	1184319	75.0	76.0	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	828579	75.0	78.3	
17 Ethyl ether	59	2.657	2.663	-0.006	88	457401	75.0	75.1	
18 Acrolein	56	2.750	2.756	-0.006	99	703772	740.6	746.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	578091	75.0	77.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.826	-0.005	71	447673	75.0	78.0	
21 Acetone	43	2.870	2.870	0.000	100	617136	300.0	301.3	
23 Iodomethane	142	2.936	2.936	0.000	99	691868	75.0	74.6	
24 Carbon disulfide	76	2.996	2.996	0.000	100	1805496	75.0	74.7	
26 3-Chloro-1-propene	41	3.078	3.077	0.001	80	619480	75.0	73.8	
25 Methyl acetate	43	3.083	3.088	-0.005	96	743961	150.0	146.2	
28 Methylene Chloride	84	3.170	3.170	0.000	88	672888	75.0	72.3	
29 2-Methyl-2-propanol	59	3.268	3.268	0.000	99	605617	750.0	789.2	
30 Acrylonitrile	53	3.329	3.334	-0.006	98	2314901	750.0	757.5	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	639405	75.0	76.5	
31 Methyl tert-butyl ether	73	3.389	3.389	0.001	93	1772886	75.0	75.6	
33 Hexane	57	3.552	3.552	0.000	89	742003	75.0	74.8	
34 Vinyl acetate	43	3.667	3.667	0.000	98	2063952	150.0	162.2	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	1119499	75.0	76.8	

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	4.076	4.076	0.000	81	726329	75.0	76.8	
39 2-Butanone (MEK)	43	4.081	4.081	0.000	98	1012619	300.0	277.5	
42 2,2-Dichloropropane	77	4.081	4.087	-0.006	87	928505	75.0	74.7	
44 sec-Butyl Alcohol	45	4.212	4.212	0.000	98	1012992	1800.0	1651.9	
46 Chlorobromomethane	128	4.245	4.245	0.000	92	313748	75.0	75.6	
48 Chloroform	83	4.305	4.305	0.000	94	1103698	75.0	74.6	
47 Tetrahydrofuran	42	4.316	4.316	0.000	80	288563	150.0	136.5	
49 1,1,1-Trichloroethane	97	4.453	4.452	0.001	98	911498	75.0	76.6	
50 Cyclohexane	56	4.513	4.513	0.000	87	905237	75.0	75.2	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	97	851845	75.0	76.8	
52 Carbon tetrachloride	117	4.573	4.573	0.000	95	780249	75.0	80.5	
55 Isobutyl alcohol	41	4.622	4.622	0.000	92	398633	1875.0	1920.0	
53 Benzene	78	4.714	4.714	0.000	95	2511071	75.0	75.7	
54 1,2-Dichloroethane	62	4.731	4.736	-0.005	97	788785	75.0	71.8	
57 n-Heptane	43	4.900	4.900	0.000	85	564548	75.0	72.8	
59 Trichloroethene	95	5.200	5.200	0.000	98	637300	75.0	74.0	
60 2-Pentanone	43	5.326	5.326	0.000	98	1200215	240.0	230.2	
61 Methylcyclohexane	55	5.391	5.391	0.000	88	695225	75.0	74.7	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	93	647338	75.0	74.9	
65 Dibromomethane	93	5.467	5.467	0.000	95	429936	75.0	73.3	
64 1,4-Dioxane	88	5.500	5.500	0.000	88	171047	1500.0	1481.6	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	821624	75.0	76.7	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	378132	75.0	75.7	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	964975	75.0	74.8	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	96	2100373	300.0	295.4	
71 Toluene	91	6.231	6.231	0.000	98	2707353	75.0	71.1	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	93	962242	75.0	76.4	
73 Ethyl methacrylate	69	6.450	6.450	0.000	85	767844	75.0	80.2	
74 1,1,2-Trichloroethane	97	6.570	6.570	0.000	91	554775	75.0	73.7	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	498860	75.0	75.6	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	87	957148	75.0	74.4	
77 2-Hexanone	43	6.766	6.766	0.000	95	1434517	300.0	286.6	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	637496	75.0	79.8	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	602552	75.0	74.5	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	717706	60.0	57.8	
81 Chlorobenzene	112	7.470	7.470	0.000	96	1772792	75.0	74.1	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	651543	75.0	82.3	
83 Ethylbenzene	106	7.546	7.546	0.000	98	988198	75.0	77.7	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	1153282	75.0	74.8	
85 o-Xylene	106	8.026	8.026	0.000	97	1188900	75.0	76.8	
86 Styrene	104	8.043	8.043	0.000	95	2109734	75.0	78.9	
87 Bromoform	173	8.217	8.217	0.000	94	432970	75.0	82.8	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	3050999	75.0	75.9	
90 Cyclohexanone	55	8.490	8.490	0.000	90	1017929	2250.0	2080.4	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	790056	75.0	72.3	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	66	219876	75.0	73.7	
94 Bromobenzene	156	8.687	8.687	0.000	93	790198	75.0	74.3	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	233425	75.0	73.3	
96 N-Propylbenzene	120	8.769	8.768	0.000	99	842925	75.0	75.9	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	727365	75.0	74.6	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	95	2553326	75.0	76.7	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	775932	75.0	75.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	2128934	75.0	75.5	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	2612610	75.0	76.3	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	657722	75.0	78.2	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	1501445	75.0	75.4	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	2783163	75.0	78.0	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	1517487	75.0	73.1	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	2571265	75.0	75.2	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	98	1391341	75.0	73.8	
109 1,2-Dibromo-3-Chloropropane	157	10.826	10.826	0.000	87	132918	75.0	80.3	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	739196	75.0	71.6	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	298011	75.0	71.5	
113 Naphthalene	128	11.928	11.928	0.000	97	1583854	75.0	68.9	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	464552	75.0	69.8	
S 118 1,2-Dichloroethene, Total (URS)	96				0		150.0	153.3	
S 119 Xylenes, Total (URS)	1				0		150.0	151.6	
S 120 Trihalomethanes, Total	1				0		300.0	313.9	
S 122 Xylenes, Total	106				0		150.0	151.6	
S 123 1,2-Dichloroethene, Total	1				0		150.0	153.3	
S 124 1,3-Dichloropropene, Total	1				0		150.0	151.2	
S 125 Total BTEX	1				0			376.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00105	Amount Added: 37.50	Units: uL	
MV-Gas B_00165	Amount Added: 15.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

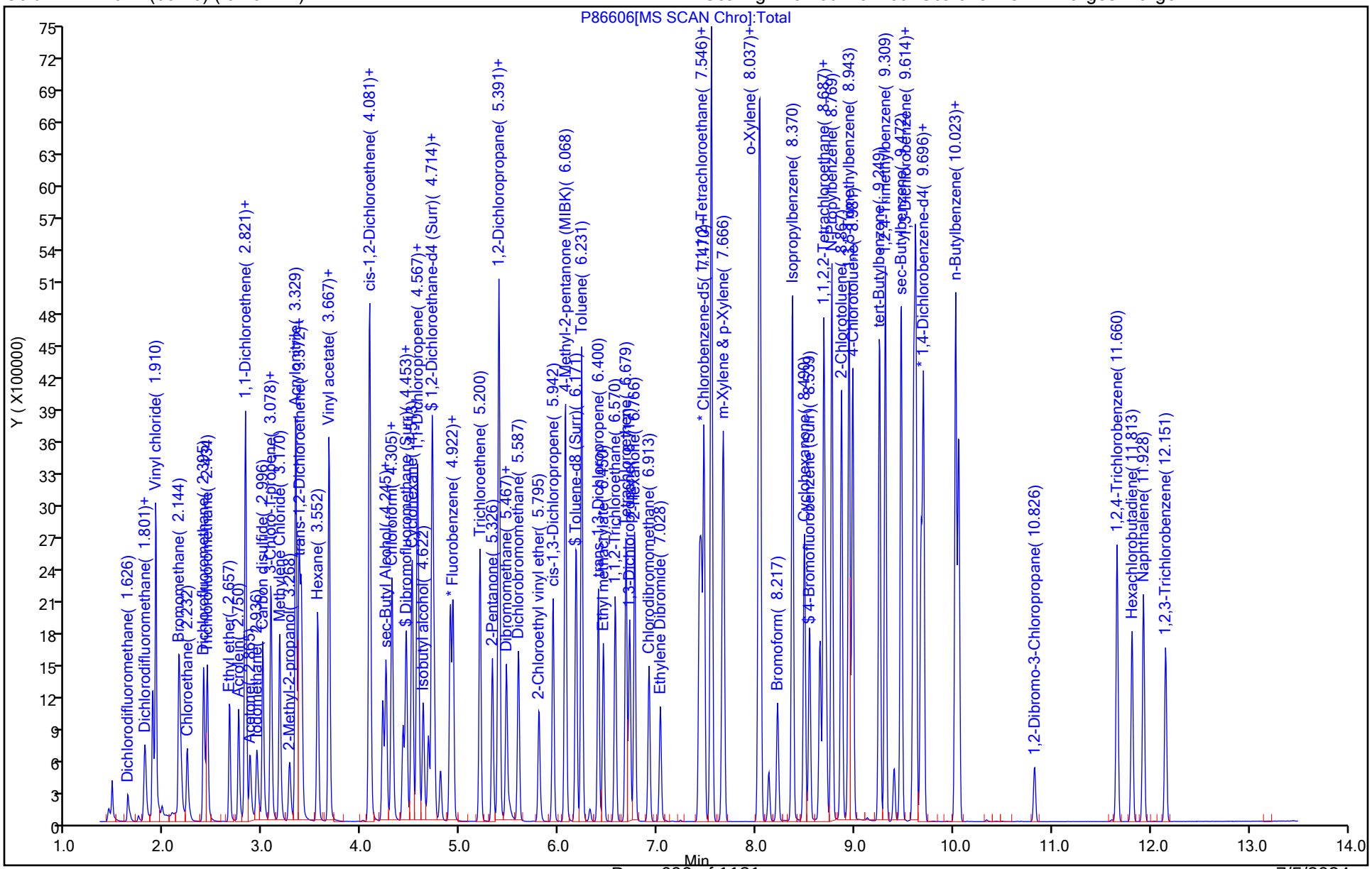
Report Date: 25-Jun-2024 00:59:19 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86606.D

Injection Date:	24-Jun-2024 16:28:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD75			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86607.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Jun-2024 16:49:30 ALS Bottle#: 9 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:23 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 17:14:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1401341	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	356530	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	94	604548	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	365851	50.0	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	352667	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	93	1406335	50.0	48.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.545	8.539	0.006	93	482464	50.0	48.7	
9 Dichlorodifluoromethane	85	1.631	1.632	-0.001	88	245346	100.0	105.7	
10 Chloromethane	50	1.806	1.801	0.005	99	879366	100.0	96.8	
11 Vinyl chloride	62	1.882	1.883	-0.001	98	1282173	100.0	104.5	
12 Bromomethane	94	2.144	2.150	-0.006	91	1225605	100.0	96.4	
13 Chloroethane	64	2.226	2.232	-0.006	100	666563	100.0	110.0	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	1443325	100.0	99.7	
15 Trichlorofluoromethane	101	2.433	2.434	-0.001	98	1017829	100.0	103.5	
17 Ethyl ether	59	2.657	2.663	-0.006	88	564435	100.0	99.7	
18 Acrolein	56	2.750	2.756	-0.006	99	885112	987.5	1009.5	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	693047	100.0	100.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.826	-0.005	71	533269	100.0	100.0	
21 Acetone	43	2.870	2.870	0.000	99	760162	400.0	401.2	
23 Iodomethane	142	2.935	2.936	-0.001	99	849231	100.0	97.3	
24 Carbon disulfide	76	2.995	2.996	-0.001	100	2116554	100.0	94.3	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	81	662894	100.0	85.0	
25 Methyl acetate	43	3.083	3.088	-0.005	95	956364	200.0	202.2	
28 Methylene Chloride	84	3.170	3.170	0.000	88	794898	100.0	91.9	
29 2-Methyl-2-propanol	59	3.268	3.268	0.000	99	818169	1000.0	1147.2	
30 Acrylonitrile	53	3.334	3.334	0.000	99	3007439	1000.0	1059.0	
32 trans-1,2-Dichloroethene	96	3.366	3.367	-0.001	96	766310	100.0	98.7	
31 Methyl tert-butyl ether	73	3.388	3.389	0.000	93	2192769	100.0	100.6	
33 Hexane	57	3.552	3.552	0.000	89	870331	100.0	91.3	
34 Vinyl acetate	43	3.667	3.667	0.000	98	2266608	200.0	191.6	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	1324749	100.0	97.8	

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	4.076	4.076	0.000	80	880703	100.0	100.2	
39 2-Butanone (MEK)	43	4.081	4.081	0.000	97	1313911	400.0	387.4	
42 2,2-Dichloropropane	77	4.081	4.087	-0.006	87	1099694	100.0	95.2	
44 sec-Butyl Alcohol	45	4.212	4.212	0.000	98	1417222	2400.0	2472.7	
46 Chlorobromomethane	128	4.250	4.245	0.005	91	374414	100.0	97.0	
48 Chloroform	83	4.305	4.305	0.000	94	1316866	100.0	95.7	
47 Tetrahydrofuran	42	4.316	4.316	0.000	78	367056	200.0	186.8	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	99	1075390	100.0	97.3	
50 Cyclohexane	56	4.512	4.513	-0.001	88	1057589	100.0	94.6	
51 1,1-Dichloropropene	75	4.561	4.562	-0.001	97	1005925	100.0	97.6	
52 Carbon tetrachloride	117	4.572	4.573	-0.001	96	945212	100.0	105.0	
55 Isobutyl alcohol	41	4.627	4.622	0.005	92	552382	2500.0	2862.8	
53 Benzene	78	4.714	4.714	0.000	95	3016235	100.0	97.8	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	97	967353	100.0	94.7	
57 n-Heptane	43	4.900	4.900	0.000	86	655724	100.0	90.9	
59 Trichloroethene	95	5.200	5.200	0.000	97	770733	100.0	93.2	
60 2-Pentanone	43	5.325	5.326	-0.001	98	1554170	320.0	320.8	
61 Methylcyclohexane	55	5.391	5.391	0.000	89	811027	100.0	93.8	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	94	786346	100.0	97.9	
65 Dibromomethane	93	5.467	5.467	0.000	96	525558	100.0	96.5	
64 1,4-Dioxane	88	5.494	5.500	-0.006	89	222856	2000.0	2077.1	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	1002769	100.0	100.8	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	476855	100.0	102.8	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	1174108	100.0	94.7	
70 4-Methyl-2-pentanone (MIBK)	43	6.067	6.068	-0.001	95	2755051	400.0	417.0	
71 Toluene	91	6.231	6.231	0.000	98	3264799	100.0	92.3	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	93	1177884	100.0	100.6	
73 Ethyl methacrylate	69	6.449	6.450	-0.001	85	981516	100.0	106.7	
74 1,1,2-Trichloroethane	97	6.575	6.570	0.005	91	696366	100.0	99.5	
75 Tetrachloroethene	164	6.679	6.679	-0.001	96	607477	100.0	95.7	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	87	1180964	100.0	95.5	
77 2-Hexanone	43	6.766	6.766	0.000	94	1890162	400.0	392.9	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	802646	100.0	104.5	
79 Ethylene Dibromide	107	7.028	7.028	0.000	97	751009	100.0	96.6	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	861513	80.0	72.2	
81 Chlorobenzene	112	7.470	7.470	0.000	96	2167592	100.0	94.3	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	824917	100.0	108.4	
83 Ethylbenzene	106	7.552	7.546	0.006	98	1229694	100.0	100.7	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	1406525	100.0	94.9	
85 o-Xylene	106	8.026	8.026	0.000	97	1480441	100.0	99.5	
86 Styrene	104	8.043	8.043	0.000	95	2647387	100.0	103.0	
87 Bromoform	173	8.217	8.217	0.000	94	574843	100.0	114.4	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	3754420	100.0	97.2	
90 Cyclohexanone	55	8.490	8.490	0.000	90	1375595	3000.0	2925.7	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	1006070	100.0	95.8	
93 trans-1,4-Dichloro-2-butene	53	8.686	8.687	-0.001	66	286256	100.0	99.8	
94 Bromobenzene	156	8.686	8.687	-0.001	96	1003493	100.0	98.2	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	303516	100.0	99.2	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	1043356	100.0	97.8	
97 2-Chlorotoluene	126	8.867	8.867	0.000	97	906278	100.0	96.7	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	95	3152286	100.0	98.5	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	960541	100.0	97.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	93	2637979	100.0	97.4	
101 1,2,4-Trimethylbenzene	105	9.308	9.309	-0.001	98	3221136	100.0	97.9	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	806314	100.0	99.7	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	1911486	100.0	99.9	
104 4-Isopropyltoluene	119	9.619	9.620	-0.001	97	3460817	100.0	100.9	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	1891388	100.0	94.8	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	3171082	100.0	96.5	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	98	1777026	100.0	98.0	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.826	-0.001	93	178735	100.0	112.3	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	949634	100.0	95.8	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	362914	100.0	90.6	
113 Naphthalene	128	11.928	11.928	0.000	97	2133281	100.0	96.5	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	613820	100.0	96.0	
S 118 1,2-Dichloroethene, Total (URS)	96				0		200.0	198.9	
S 119 Xylenes, Total (URS)	1				0		200.0	194.4	
S 120 Trihalomethanes, Total	1				0		400.0	415.4	
S 122 Xylenes, Total	106				0		200.0	194.4	
S 123 1,2-Dichloroethene, Total	1				0		200.0	198.9	
S 124 1,3-Dichloropropene, Total	1				0		200.0	195.4	
S 125 Total BTEX	1				0			485.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00105	Amount Added:	50.00	Units: uL	
MV-Gas B_00165	Amount Added:	20.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

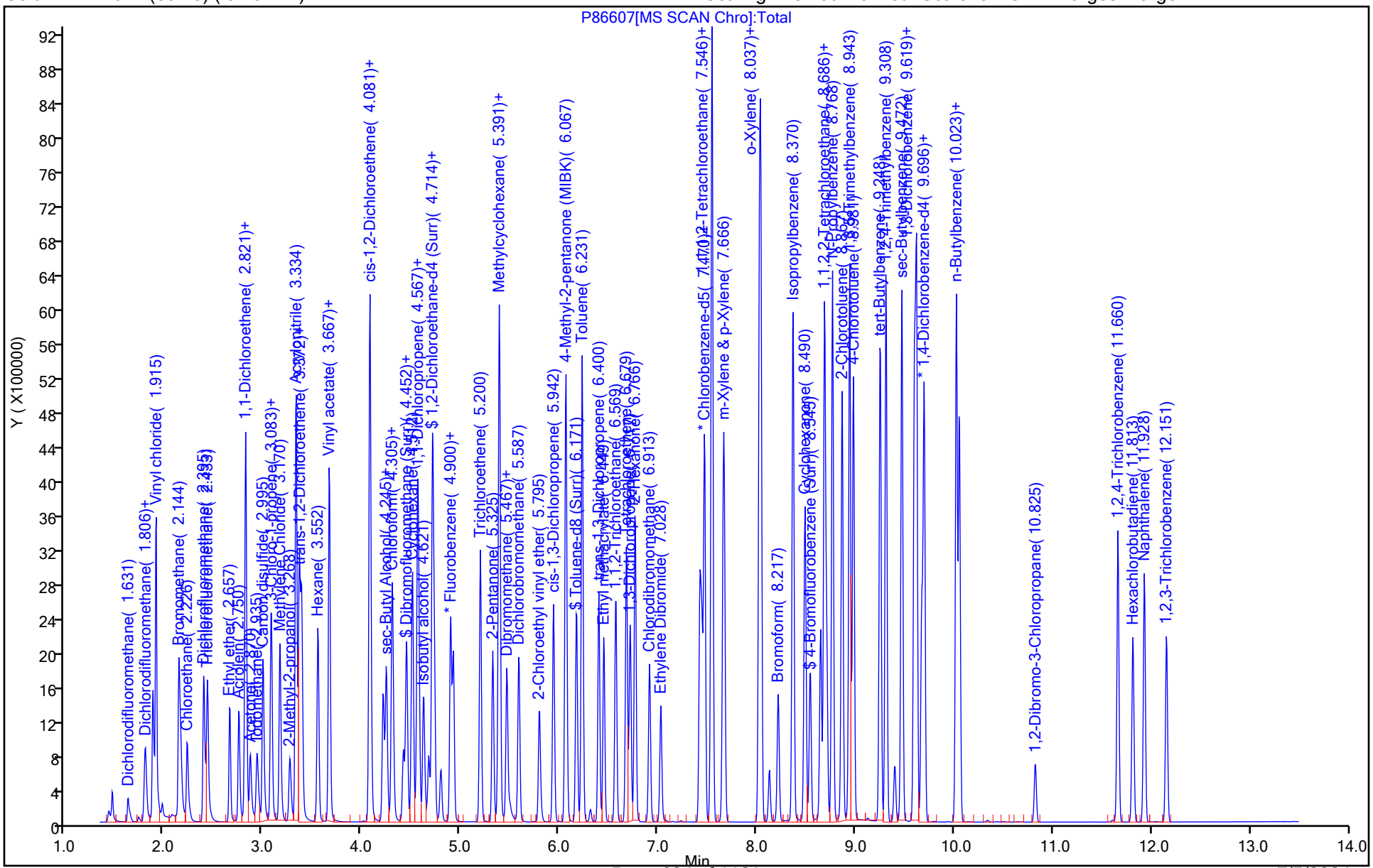
Report Date: 25-Jun-2024 00:59:24 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86607.D

Injection Date:	24-Jun-2024 16:49:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD100			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	AQ_VMSP_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_P\20240621-134755.b\P86608.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 24-Jun-2024 17:10:30 ALS Bottle#: 10 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 00:59:28 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: Q2ZS Date: 24-Jun-2024 20:19:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1377023	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	84	372390	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	621729	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	359515	50.0	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	343474	50.0	49.1	
$ 6 Toluene-d8 (Surr)	98	6.177	6.171	0.006	93	1391336	50.0	46.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	480599	50.0	47.2	
9 Dichlorodifluoromethane	85	1.626	1.632	-0.006	88	479162	200.0	210.0	
10 Chloromethane	50	1.801	1.801	0.000	99	1730254	200.0	193.9	
11 Vinyl chloride	62	1.877	1.883	-0.006	98	2597764	200.0	215.5	
12 Bromomethane	94	2.144	2.150	-0.006	92	1905291	200.0	152.5	
13 Chloroethane	64	2.226	2.232	-0.006	100	1697954	200.0	285.2	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	98	3043987	200.0	213.9	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	99	2099018	200.0	217.2	
17 Ethyl ether	59	2.657	2.663	-0.006	88	1148268	200.0	206.5	
18 Acrolein	56	2.750	2.756	-0.006	99	1741180	1975.0	2021.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	96	1571542	200.0	230.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.826	-0.005	76	1206555	200.0	230.3	
21 Acetone	43	2.870	2.870	0.000	99	1472181	800.0	796.3	
23 Iodomethane	142	2.936	2.936	0.000	99	1853327	200.0	210.9	
24 Carbon disulfide	76	2.996	2.996	0.000	100	4522092	200.0	205.0	
26 3-Chloro-1-propene	41	3.078	3.077	0.001	82	1293939	200.0	168.8	
25 Methyl acetate	43	3.083	3.088	-0.005	96	1922540	400.0	413.7	
28 Methylene Chloride	84	3.170	3.170	0.000	88	1684139	200.0	198.2	
29 2-Methyl-2-propanol	59	3.274	3.268	0.006	99	1587330	2000.0	2265.0	
30 Acrylonitrile	53	3.334	3.334	0.000	99	6257633	2000.0	2242.3	
32 trans-1,2-Dichloroethene	96	3.361	3.367	-0.006	95	1680585	200.0	220.2	
31 Methyl tert-butyl ether	73	3.389	3.389	0.001	93	4550713	200.0	212.4	
33 Hexane	57	3.552	3.552	0.000	88	1869560	200.0	187.9	
34 Vinyl acetate	43	3.667	3.667	0.000	98	4516697	400.0	388.6	
36 1,1-Dichloroethane	63	3.667	3.672	-0.005	96	2941013	200.0	220.9	

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	4.076	4.076	0.000	80	2028774	200.0	234.8	
39 2-Butanone (MEK)	43	4.081	4.081	0.000	95	2750424	800.0	825.2	
42 2,2-Dichloropropane	77	4.081	4.087	-0.006	87	2511183	200.0	221.1	
44 sec-Butyl Alcohol	45	4.218	4.212	0.006	98	2851672	4800.0	5034.1	
46 Chlorobromomethane	128	4.245	4.245	0.000	89	789255	200.0	208.2	
48 Chloroform	83	4.305	4.305	0.000	94	2869770	200.0	212.3	
47 Tetrahydrofuran	42	4.316	4.316	0.000	80	729915	400.0	378.0	
49 1,1,1-Trichloroethane	97	4.453	4.452	0.001	99	2375743	200.0	218.7	
50 Cyclohexane	56	4.513	4.513	0.000	87	2299972	200.0	209.3	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	97	2259009	200.0	223.0	
52 Carbon tetrachloride	117	4.573	4.573	0.000	95	2160651	200.0	244.2	
55 Isobutyl alcohol	41	4.627	4.622	0.005	92	1107843	5000.0	5843.0	
53 Benzene	78	4.714	4.714	0.000	95	6694914	200.0	221.0	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	97	2027167	200.0	202.0	
57 n-Heptane	43	4.900	4.900	0.000	84	1403290	200.0	198.0	
59 Trichloroethene	95	5.200	5.200	0.000	97	1736491	200.0	200.9	
60 2-Pentanone	43	5.326	5.326	0.000	97	3099628	640.0	651.0	
61 Methylcyclohexane	55	5.391	5.391	0.000	87	1878982	200.0	221.0	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	93	1769485	200.0	224.3	
65 Dibromomethane	93	5.467	5.467	0.000	96	1110995	200.0	207.5	
64 1,4-Dioxane	88	5.500	5.500	0.000	89	422846	4000.0	4010.7	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	2183652	200.0	223.3	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	972774	200.0	213.4	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	2552487	200.0	197.2	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	95	5899149	800.0	908.6	
71 Toluene	91	6.231	6.231	0.000	98	7470167	200.0	214.9	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	2569347	200.0	223.4	
73 Ethyl methacrylate	69	6.450	6.450	0.000	85	2100349	200.0	218.6	
74 1,1,2-Trichloroethane	97	6.570	6.570	0.000	91	1516572	200.0	220.6	
75 Tetrachloroethene	164	6.679	6.679	0.000	97	1425325	200.0	215.1	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	2528289	200.0	195.8	
77 2-Hexanone	43	6.771	6.766	0.005	94	3971728	800.0	790.5	
78 Chlorodibromomethane	129	6.913	6.913	0.000	93	1809663	200.0	225.6	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	1609952	200.0	198.4	
80 1-Chlorohexane	91	7.426	7.426	0.000	89	1989484	160.0	159.6	
81 Chlorobenzene	112	7.470	7.470	0.000	96	5010434	200.0	208.7	
82 1,1,1,2-Tetrachloroethane	131	7.546	7.541	0.005	96	2019434	200.0	254.1	
83 Ethylbenzene	106	7.552	7.546	0.006	98	3038314	200.0	238.2	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	3221233	200.0	208.2	
85 o-Xylene	106	8.032	8.026	0.006	97	3640981	200.0	234.3	
86 Styrene	104	8.043	8.043	0.000	95	6488585	200.0	241.7	
87 Bromoform	173	8.217	8.217	0.000	94	1283447	200.0	244.5	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	8887864	200.0	223.8	
90 Cyclohexanone	55	8.490	8.490	0.000	90	2868252	6000.0	5840.6	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	2086746	200.0	193.2	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	75	634447	200.0	215.2	
94 Bromobenzene	156	8.687	8.687	0.000	93	2372737	200.0	225.7	
95 1,2,3-Trichloropropane	110	8.709	8.708	0.000	85	647293	200.0	205.8	
96 N-Propylbenzene	120	8.769	8.768	0.001	99	2449015	200.0	223.1	
97 2-Chlorotoluene	126	8.867	8.867	0.000	97	2071048	200.0	215.0	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	96	7379604	200.0	224.3	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	2237074	200.0	221.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.254	9.249	0.005	92	6278049	200.0	225.3	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	97	7674104	200.0	226.8	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	1931988	200.0	232.4	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	4597746	200.0	233.7	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	8533724	200.0	242.0	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	4459347	200.0	217.4	
107 n-Butylbenzene	91	10.023	10.023	0.000	98	7668526	200.0	227.0	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	98	4117653	200.0	220.9	
109 1,2-Dibromo-3-Chloropropane	157	10.826	10.826	0.000	87	368789	200.0	225.3	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	2176401	200.0	213.4	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	849199	200.0	206.1	
113 Naphthalene	128	11.928	11.928	0.000	97	4476072	200.0	196.9	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	1295028	200.0	196.9	
S 118 1,2-Dichloroethene, Total (URS)	96				0		400.0	455.1	
S 119 Xylenes, Total (URS)	1				0		400.0	442.4	
S 120 Trihalomethanes, Total	1				0		800.0	905.7	
S 122 Xylenes, Total	106				0		400.0	442.4	
S 123 1,2-Dichloroethene, Total	1				0		400.0	455.1	
S 124 1,3-Dichloropropene, Total	1				0		400.0	420.6	
S 125 Total BTEX	1				0			1116.5	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00105	Amount Added: 100.00	Units: uL	
MV-Gas B_00165	Amount Added: 40.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

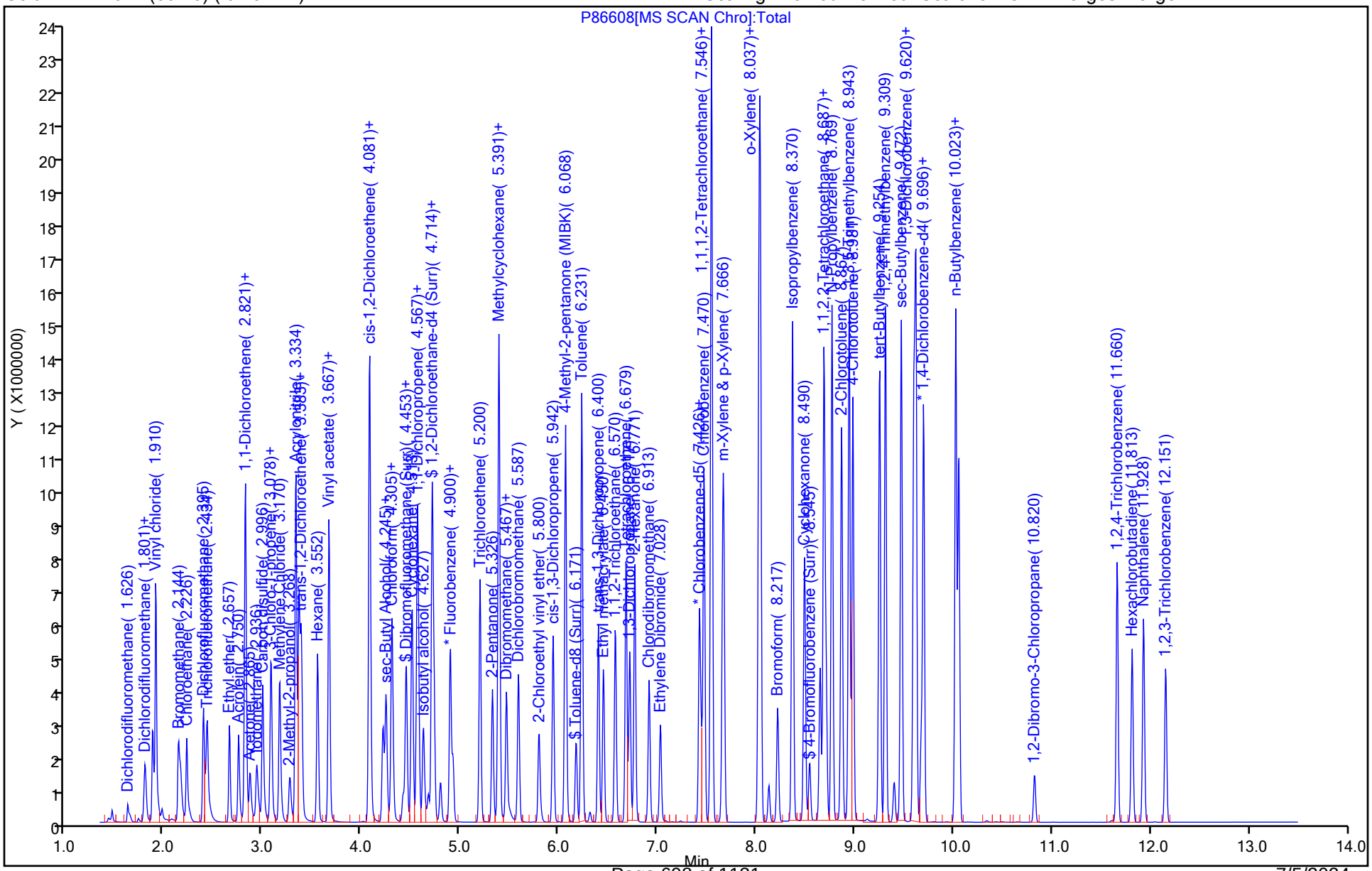
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Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Injection Date:	24-Jun-2024 17:10:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	STD200			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

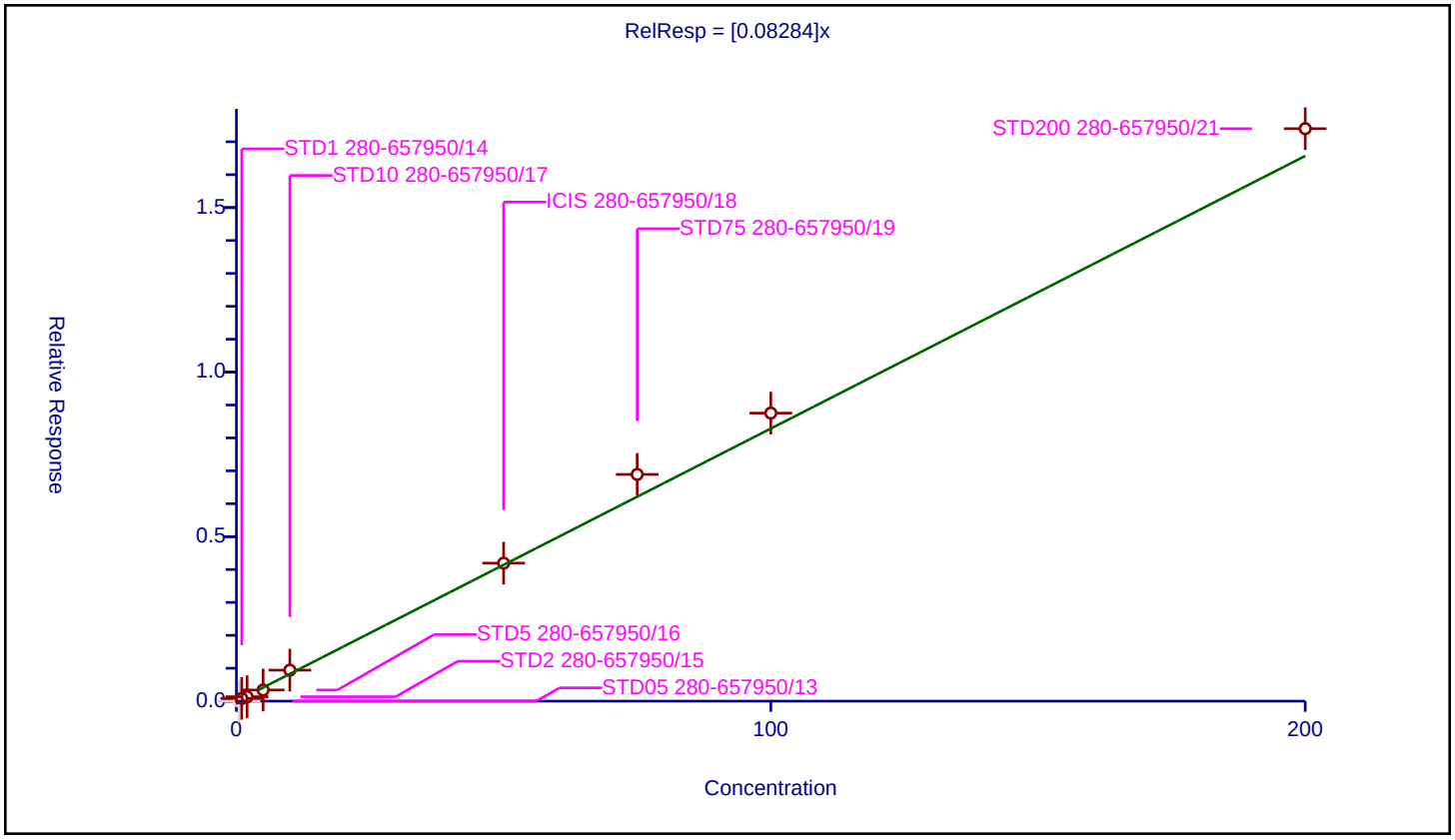
Curve Coefficients

Intercept:	0
Slope:	0.08284

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.0	50.0	1689069.0	0.0	N
2	STD1 280-657950/14	1.0	0.083388	50.0	1673497.0	0.083388	Y
3	STD2 280-657950/15	2.0	0.134315	50.0	1696756.0	0.067158	Y
4	STD5 280-657950/16	5.0	0.338533	50.0	1698799.0	0.067707	Y
5	STD10 280-657950/17	10.0	0.941935	50.0	1675434.0	0.094194	Y
6	ICIS 280-657950/18	50.0	4.194621	50.0	1623913.0	0.083892	Y
7	STD75 280-657950/19	75.0	6.890742	50.0	1507871.0	0.091877	Y
8	STD100 280-657950/20	100.0	8.753972	50.0	1401341.0	0.08754	Y
9	STD200 280-657950/21	200.0	17.398475	50.0	1377023.0	0.086992	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

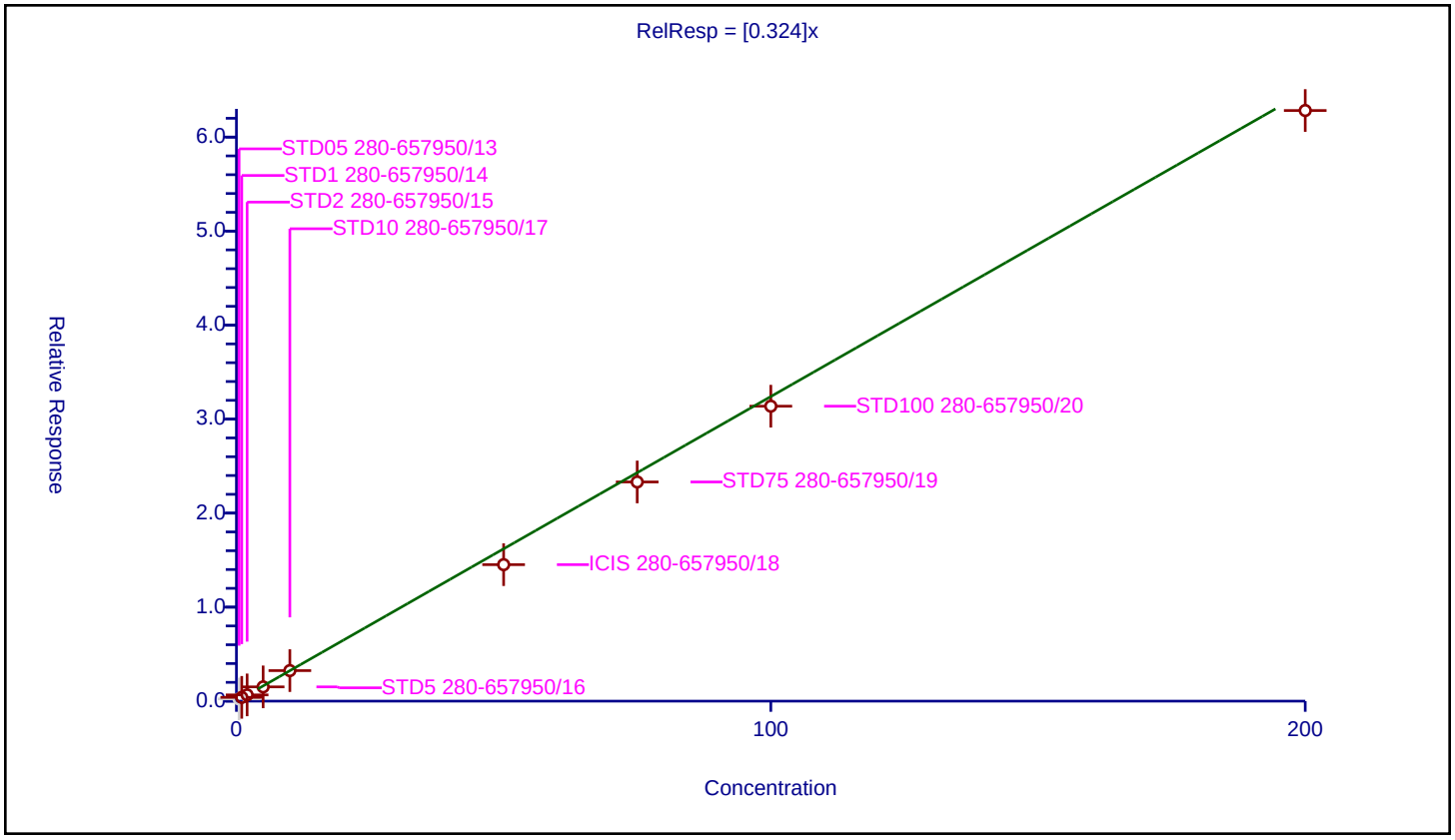
Curve Coefficients

Intercept:	0
Slope:	0.324

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.235189	50.0	1689069.0	0.470377	N
2	STD1 280-657950/14	1.0	0.403108	50.0	1673497.0	0.403108	Y
3	STD2 280-657950/15	2.0	0.664032	50.0	1696756.0	0.332016	Y
4	STD5 280-657950/16	5.0	1.516307	50.0	1698799.0	0.303261	Y
5	STD10 280-657950/17	10.0	3.247188	50.0	1675434.0	0.324719	Y
6	ICIS 280-657950/18	50.0	14.518697	50.0	1623913.0	0.290374	Y
7	STD75 280-657950/19	75.0	23.314528	50.0	1507871.0	0.31086	Y
8	STD100 280-657950/20	100.0	31.375875	50.0	1401341.0	0.313759	Y
9	STD200 280-657950/21	200.0	62.825893	50.0	1377023.0	0.314129	Y



7/5/2024
11:14:22 AM

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

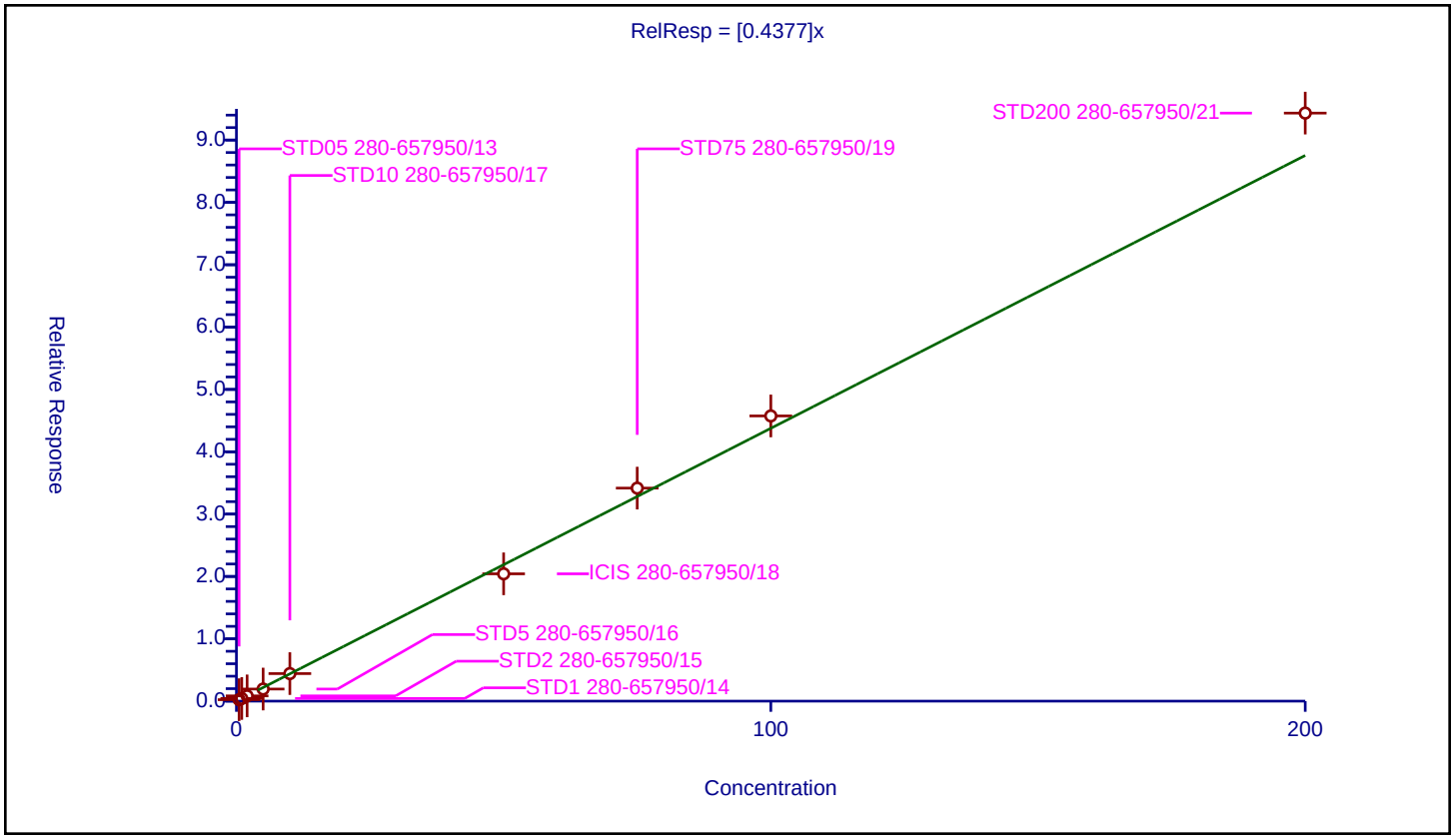
Curve Coefficients

Intercept:	0
Slope:	0.4377

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.234893	50.0	1689069.0	0.469785	Y
2	STD1 280-657950/14	1.0	0.423335	50.0	1673497.0	0.423335	Y
3	STD2 280-657950/15	2.0	0.84417	50.0	1696756.0	0.422085	Y
4	STD5 280-657950/16	5.0	1.943137	50.0	1698799.0	0.388627	Y
5	STD10 280-657950/17	10.0	4.418974	50.0	1675434.0	0.441897	Y
6	ICIS 280-657950/18	50.0	20.424093	50.0	1623913.0	0.408482	Y
7	STD75 280-657950/19	75.0	34.169932	50.0	1507871.0	0.455599	Y
8	STD100 280-657950/20	100.0	45.748073	50.0	1401341.0	0.457481	Y
9	STD200 280-657950/21	200.0	94.325367	50.0	1377023.0	0.471627	Y



7/5/2024
11:14:22 AM

Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

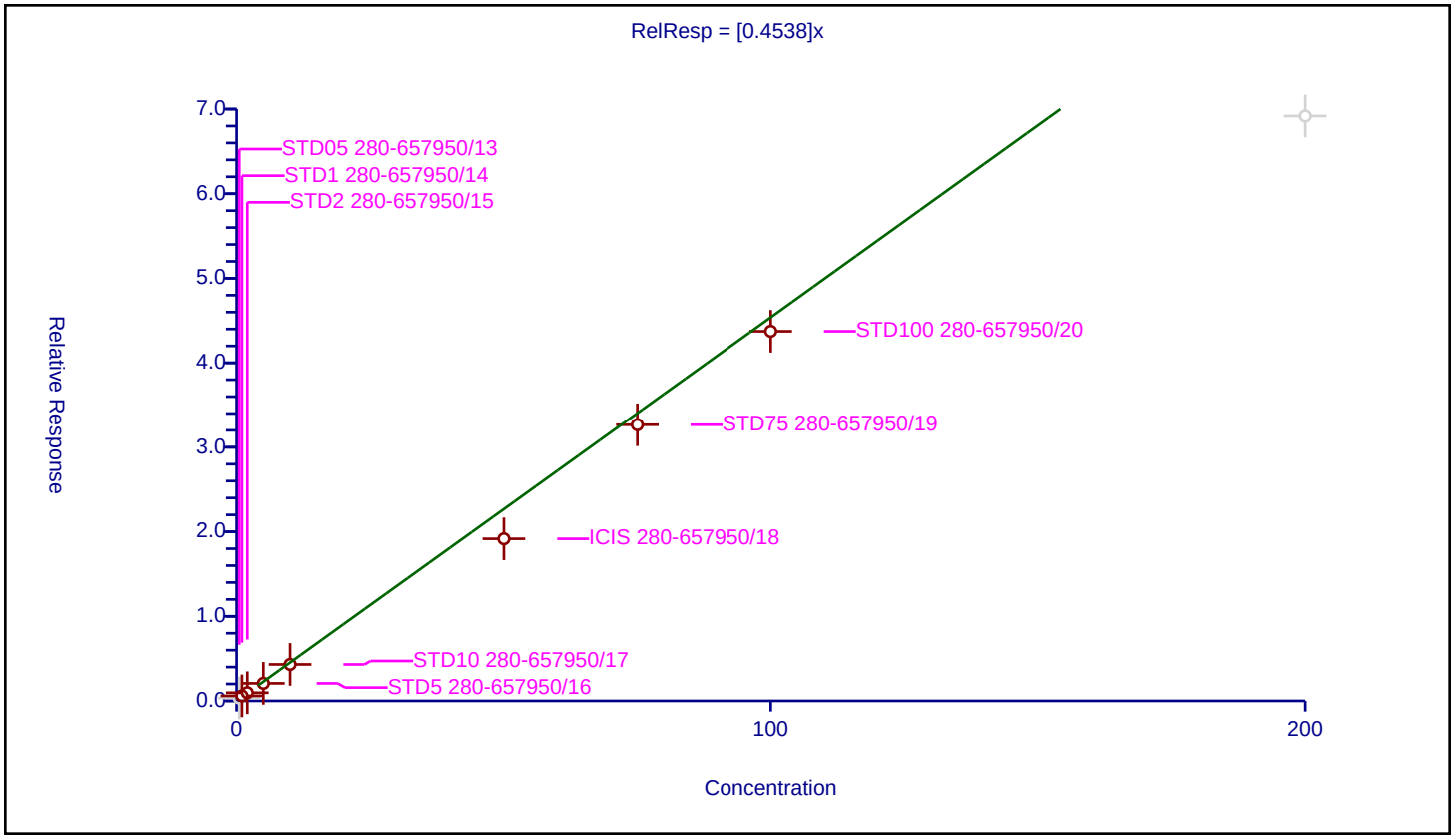
Curve Coefficients

Intercept:	0
Slope:	0.4538

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.344421	50.0	1689069.0	0.688841	N
2	STD1 280-657950/14	1.0	0.59283	50.0	1673497.0	0.59283	Y
3	STD2 280-657950/15	2.0	0.963957	50.0	1696756.0	0.481979	Y
4	STD5 280-657950/16	5.0	2.071728	50.0	1698799.0	0.414346	Y
5	STD10 280-657950/17	10.0	4.31142	50.0	1675434.0	0.431142	Y
6	ICIS 280-657950/18	50.0	19.169623	50.0	1623913.0	0.383392	Y
7	STD75 280-657950/19	75.0	32.664863	50.0	1507871.0	0.435532	Y
8	STD100 280-657950/20	100.0	43.72972	50.0	1401341.0	0.437297	Y
9	STD200 280-657950/21	200.0	69.181524	50.0	1377023.0	0.345908	N



7/5/2024
11:14:22 AM

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

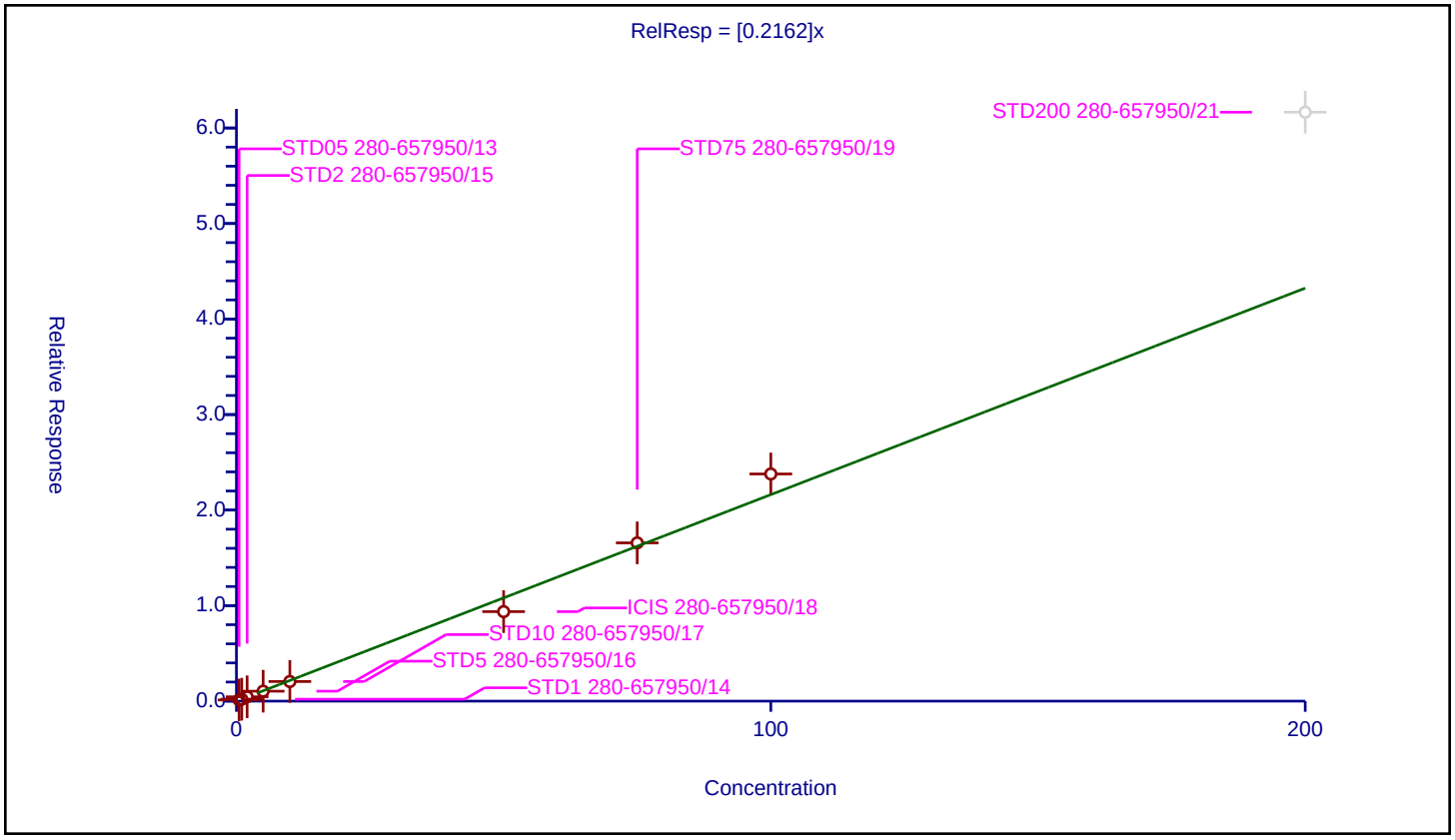
Curve Coefficients

Intercept:	0
Slope:	0.2162

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.121013	50.0	1689069.0	0.242027	Y
2	STD1 280-657950/14	1.0	0.200747	50.0	1673497.0	0.200747	Y
3	STD2 280-657950/15	2.0	0.453837	50.0	1696756.0	0.226918	Y
4	STD5 280-657950/16	5.0	1.042001	50.0	1698799.0	0.2084	Y
5	STD10 280-657950/17	10.0	2.052274	50.0	1675434.0	0.205227	Y
6	ICIS 280-657950/18	50.0	9.368728	50.0	1623913.0	0.187375	Y
7	STD75 280-657950/19	75.0	16.569322	50.0	1507871.0	0.220924	Y
8	STD100 280-657950/20	100.0	23.783041	50.0	1401341.0	0.23783	Y
9	STD200 280-657950/21	200.0	61.653073	50.0	1377023.0	0.308265	N



7/5/2024
11:14:22 AM

Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

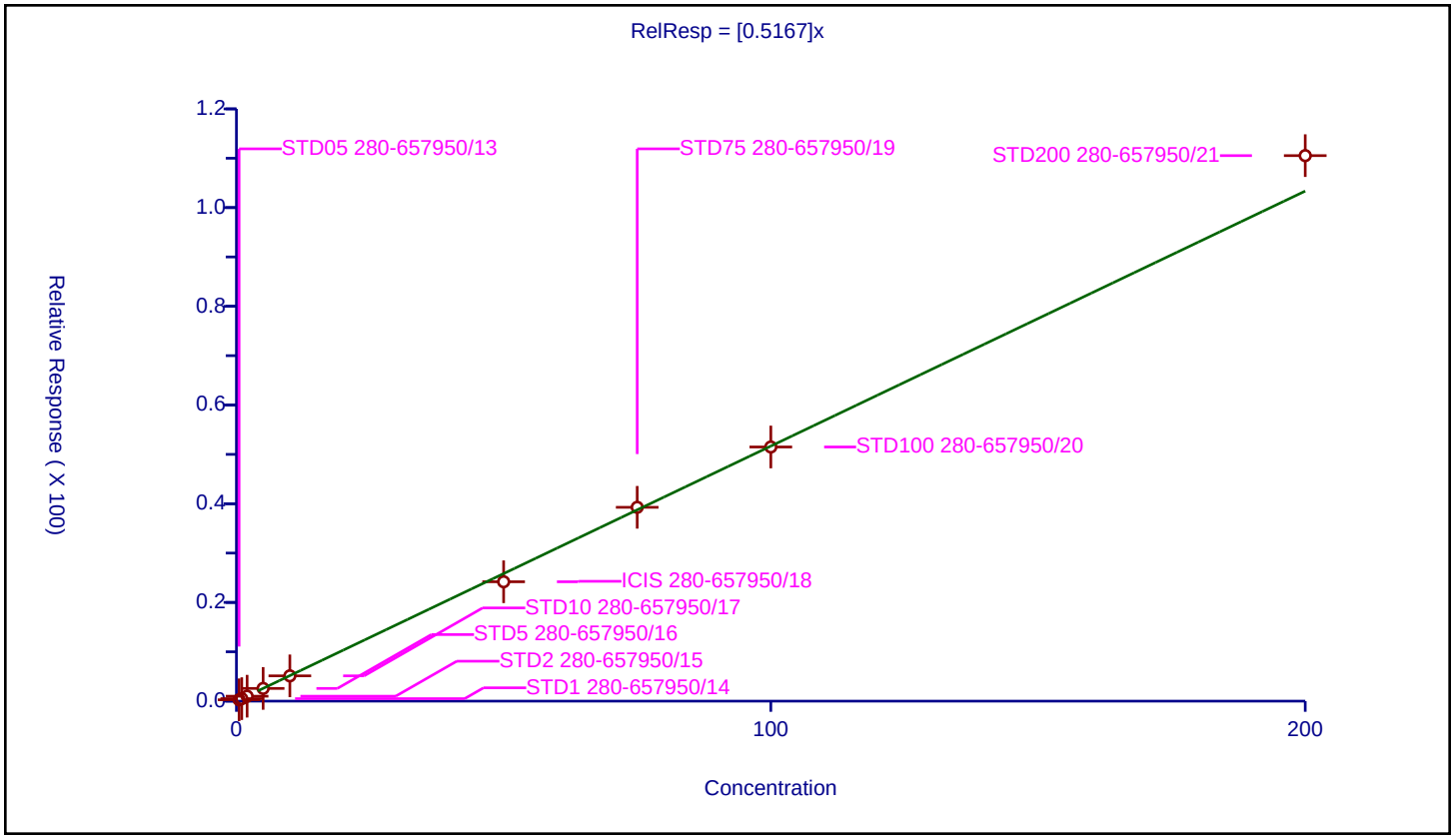
Curve Coefficients

Intercept:	0
Slope:	0.5167

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.270711	50.0	1689069.0	0.541423	Y
2	STD1 280-657950/14	1.0	0.504662	50.0	1673497.0	0.504662	Y
3	STD2 280-657950/15	2.0	1.002236	50.0	1696756.0	0.501118	Y
4	STD5 280-657950/16	5.0	2.579381	50.0	1698799.0	0.515876	Y
5	STD10 280-657950/17	10.0	5.125926	50.0	1675434.0	0.512593	Y
6	ICIS 280-657950/18	50.0	24.18972	50.0	1623913.0	0.483794	Y
7	STD75 280-657950/19	75.0	39.271231	50.0	1507871.0	0.523616	Y
8	STD100 280-657950/20	100.0	51.497994	50.0	1401341.0	0.51498	Y
9	STD200 280-657950/21	200.0	110.52782	50.0	1377023.0	0.552639	Y



7/5/2024
11:14:22 AM

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

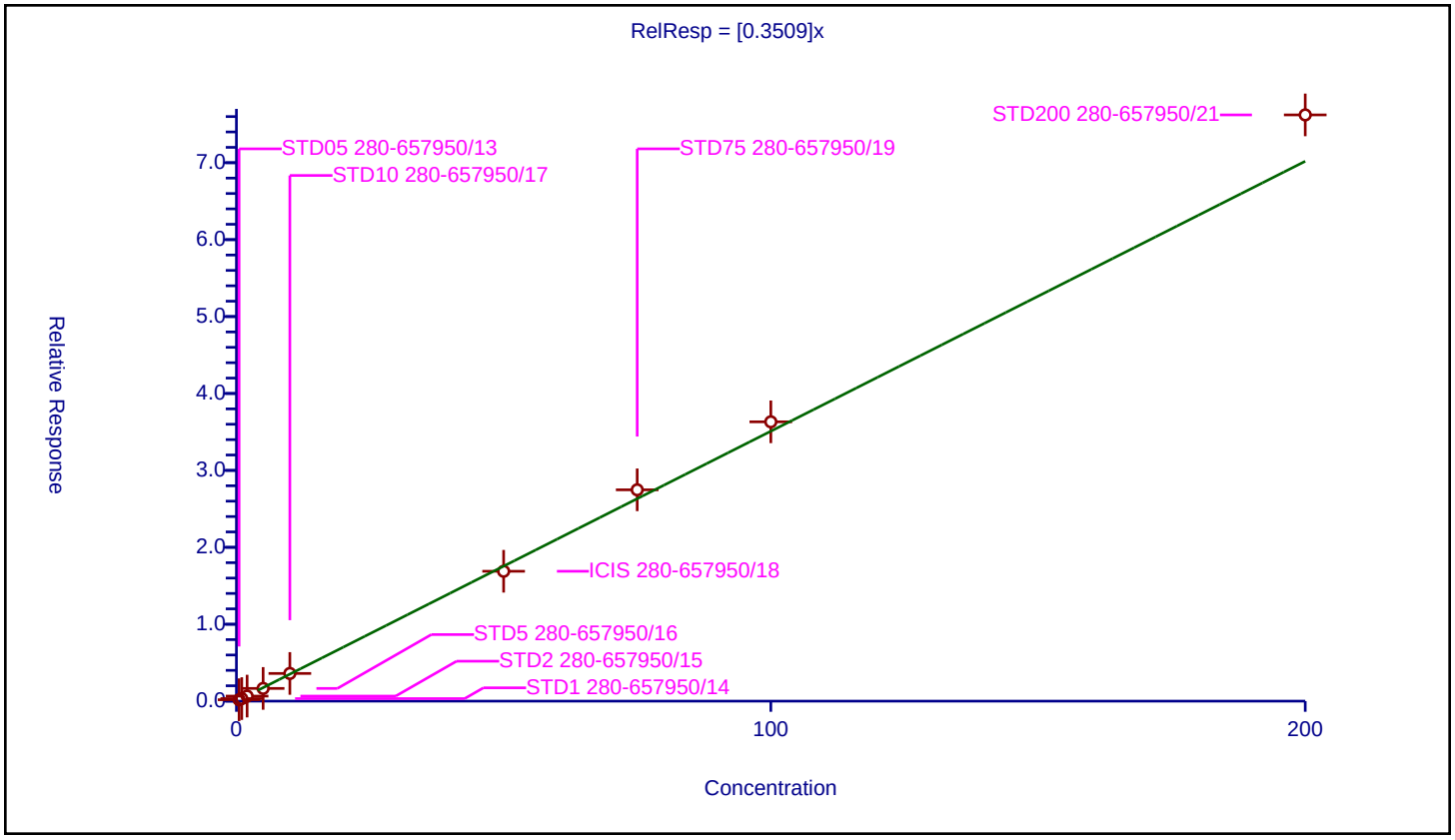
Curve Coefficients

Intercept:	0
Slope:	0.3509

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.18004	50.0	1689069.0	0.36008	Y
2	STD1 280-657950/14	1.0	0.330595	50.0	1673497.0	0.330595	Y
3	STD2 280-657950/15	2.0	0.657844	50.0	1696756.0	0.328922	Y
4	STD5 280-657950/16	5.0	1.654021	50.0	1698799.0	0.330804	Y
5	STD10 280-657950/17	10.0	3.598321	50.0	1675434.0	0.359832	Y
6	ICIS 280-657950/18	50.0	16.88471	50.0	1623913.0	0.337694	Y
7	STD75 280-657950/19	75.0	27.475129	50.0	1507871.0	0.366335	Y
8	STD100 280-657950/20	100.0	36.31625	50.0	1401341.0	0.363162	Y
9	STD200 280-657950/21	200.0	76.215793	50.0	1377023.0	0.381079	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

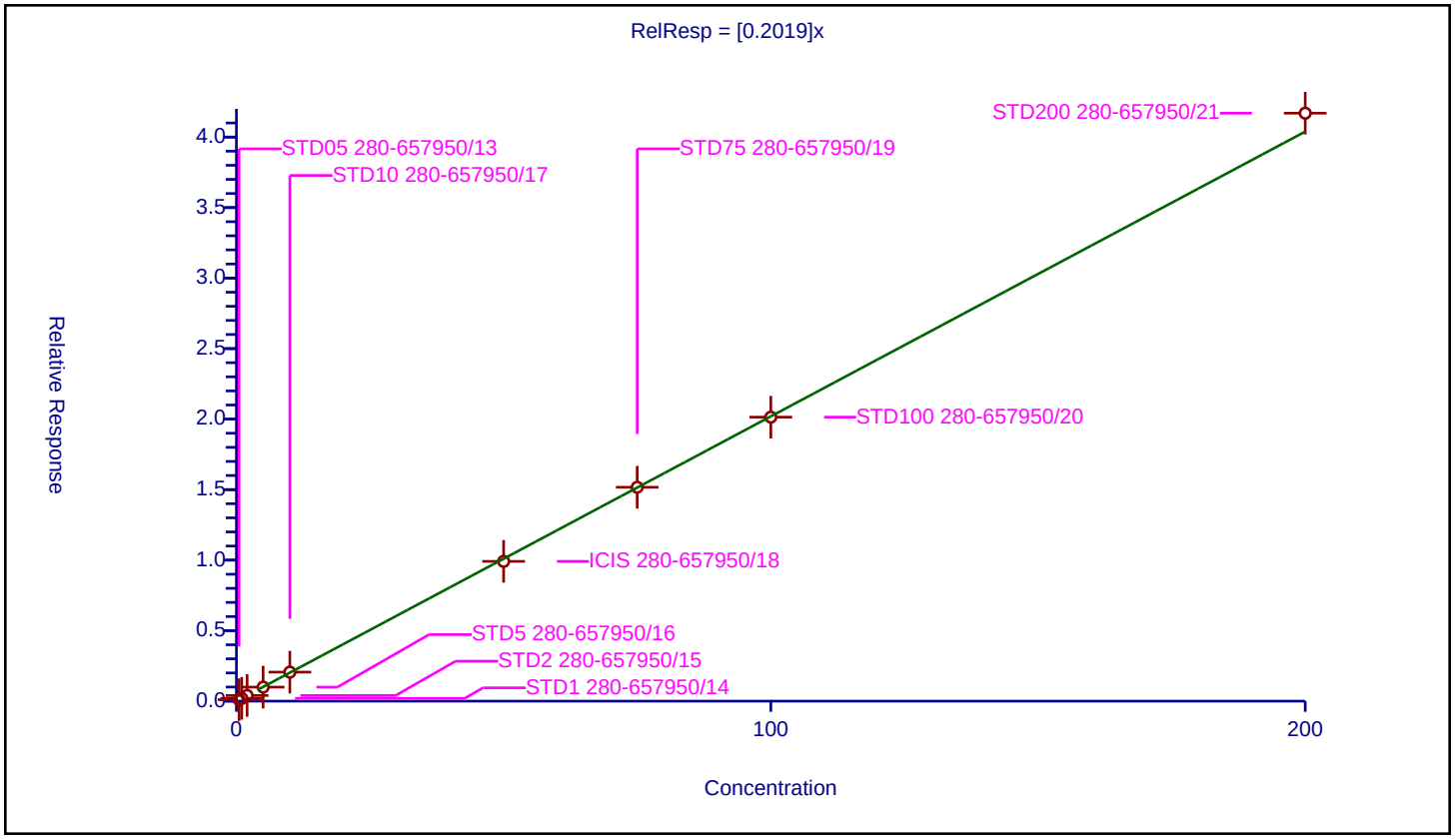
Curve Coefficients

Intercept:	0
Slope:	0.2019

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.101831	50.0	1689069.0	0.203662	Y
2	STD1 280-657950/14	1.0	0.198297	50.0	1673497.0	0.198297	Y
3	STD2 280-657950/15	2.0	0.400824	50.0	1696756.0	0.200412	Y
4	STD5 280-657950/16	5.0	0.994732	50.0	1698799.0	0.198946	Y
5	STD10 280-657950/17	10.0	2.057974	50.0	1675434.0	0.205797	Y
6	ICIS 280-657950/18	50.0	9.911676	50.0	1623913.0	0.198234	Y
7	STD75 280-657950/19	75.0	15.167113	50.0	1507871.0	0.202228	Y
8	STD100 280-657950/20	100.0	20.139102	50.0	1401341.0	0.201391	Y
9	STD200 280-657950/21	200.0	41.693857	50.0	1377023.0	0.208469	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

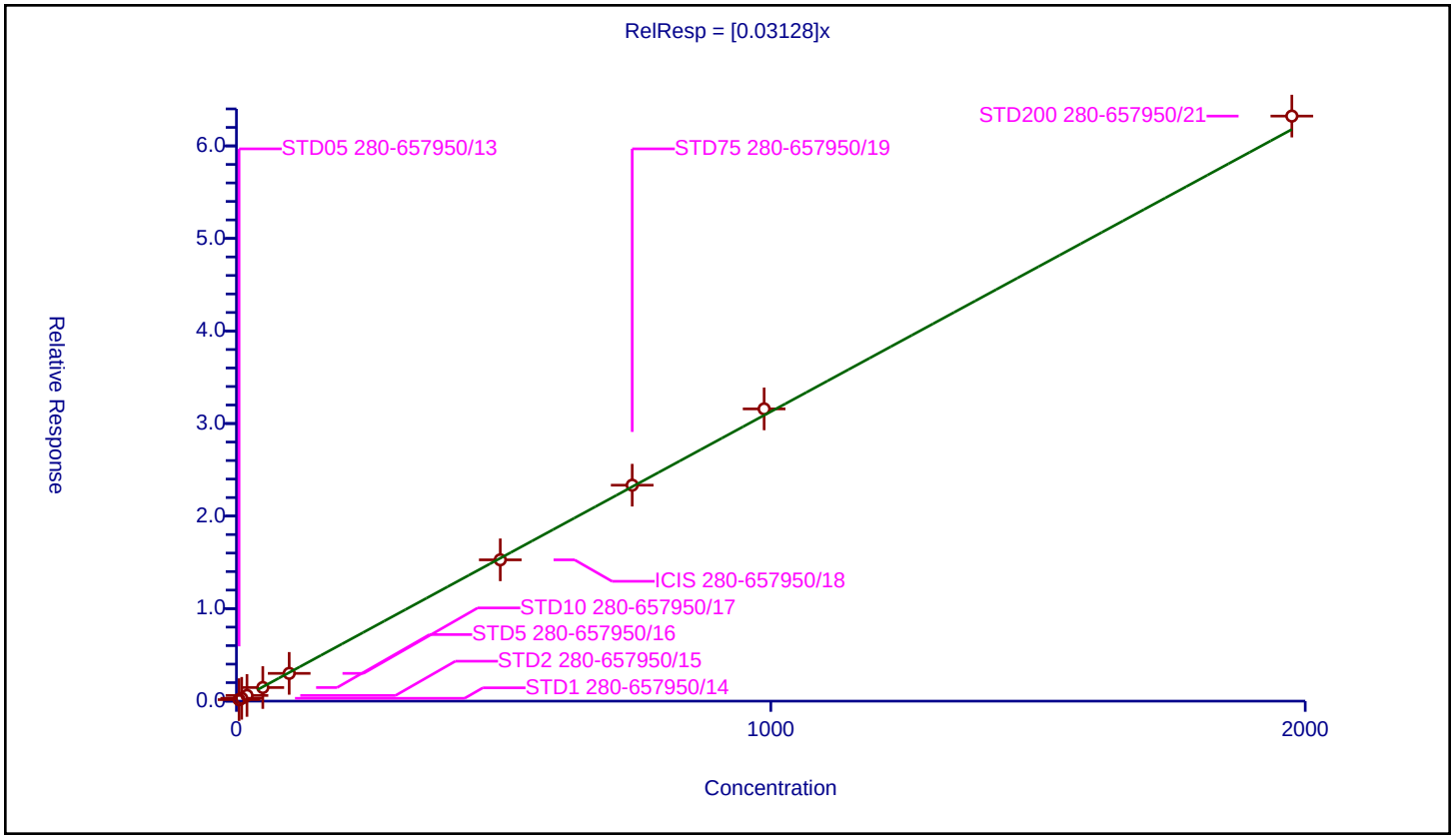
Curve Coefficients

Intercept:	0
Slope:	0.03128

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	4.9375	0.161479	50.0	1689069.0	0.032705	Y
2	STD1 280-657950/14	9.875	0.307619	50.0	1673497.0	0.031151	Y
3	STD2 280-657950/15	19.75	0.614437	50.0	1696756.0	0.031111	Y
4	STD5 280-657950/16	49.375	1.470362	50.0	1698799.0	0.029779	Y
5	STD10 280-657950/17	98.75	2.999133	50.0	1675434.0	0.030371	Y
6	ICIS 280-657950/18	493.75	15.270492	50.0	1623913.0	0.030928	Y
7	STD75 280-657950/19	740.625	23.336612	50.0	1507871.0	0.031509	Y
8	STD100 280-657950/20	987.5	31.580893	50.0	1401341.0	0.031981	Y
9	STD200 280-657950/21	1975.0	63.222619	50.0	1377023.0	0.032011	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

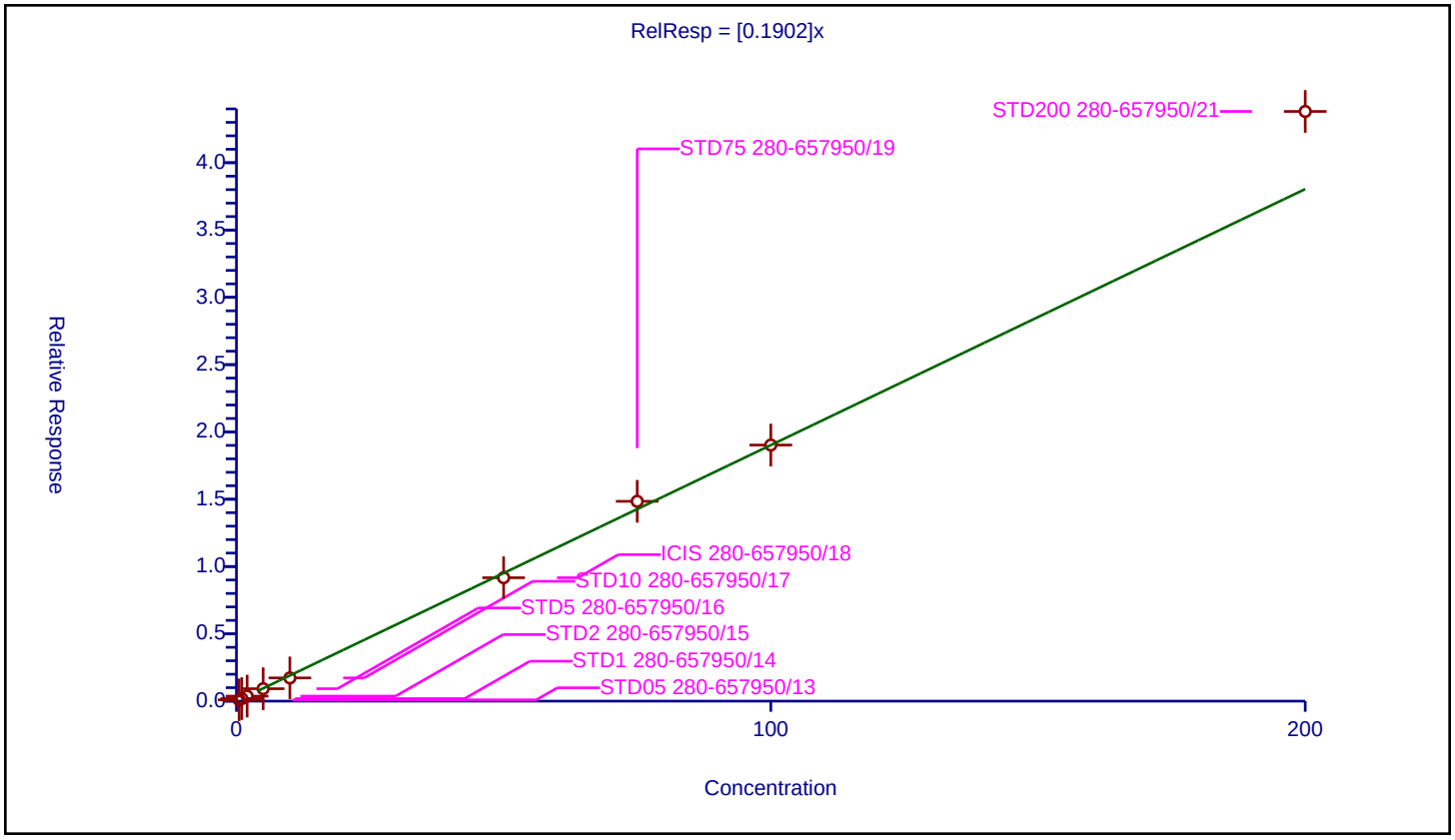
Curve Coefficients

Intercept:	0
Slope:	0.1902

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.093987	50.0	1689069.0	0.187973	Y
2	STD1 280-657950/14	1.0	0.189304	50.0	1673497.0	0.189304	Y
3	STD2 280-657950/15	2.0	0.373684	50.0	1696756.0	0.186842	Y
4	STD5 280-657950/16	5.0	0.923358	50.0	1698799.0	0.184672	Y
5	STD10 280-657950/17	10.0	1.725135	50.0	1675434.0	0.172514	Y
6	ICIS 280-657950/18	50.0	9.168625	50.0	1623913.0	0.183373	Y
7	STD75 280-657950/19	75.0	14.844539	50.0	1507871.0	0.197927	Y
8	STD100 280-657950/20	100.0	19.027096	50.0	1401341.0	0.190271	Y
9	STD200 280-657950/21	200.0	43.81027	50.0	1377023.0	0.219051	Y



7/5/2024
11:14:22 AM

Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

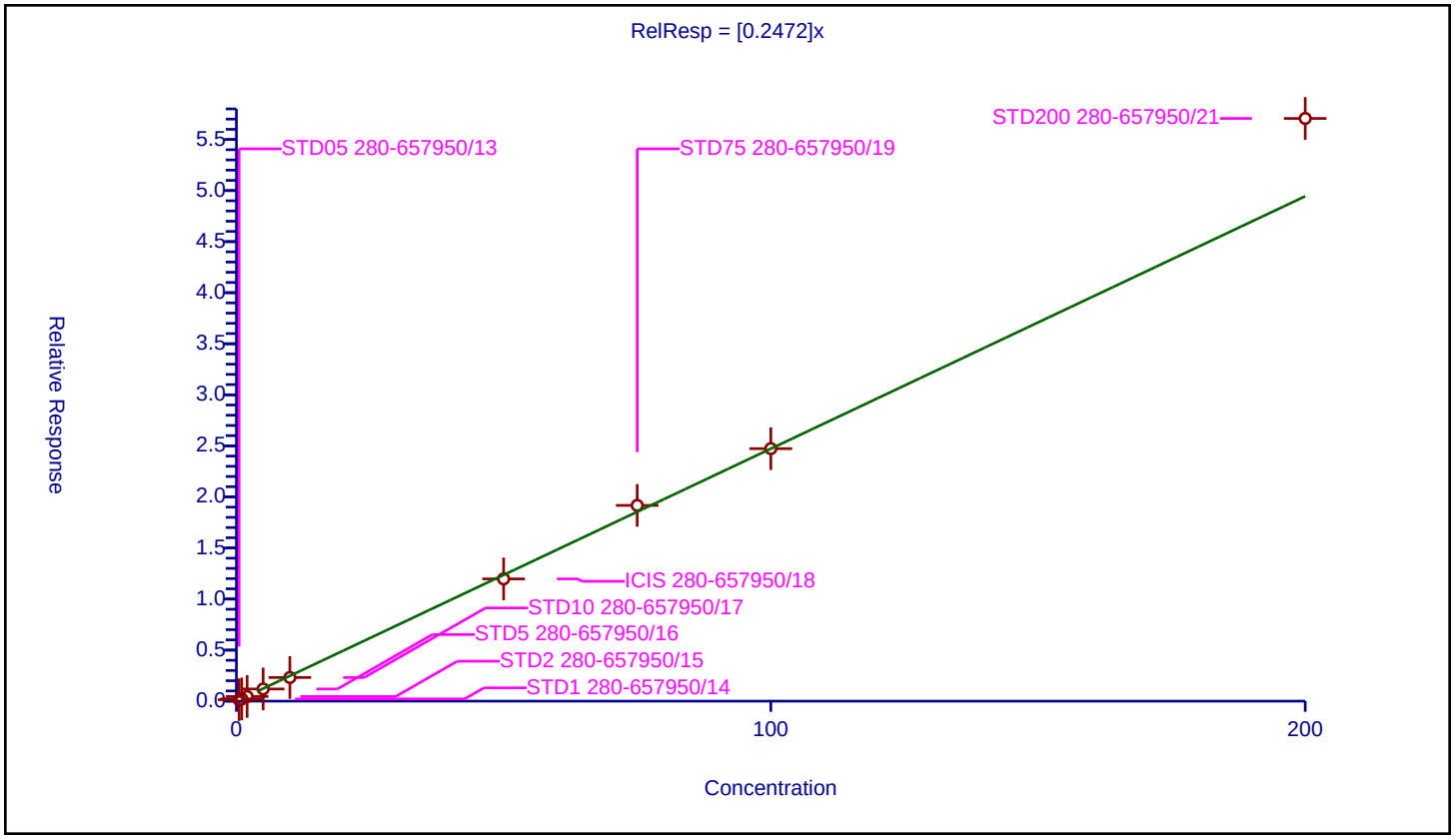
Curve Coefficients

Intercept:	0
Slope:	0.2472

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.140403	50.0	1689069.0	0.280806	Y
2	STD1 280-657950/14	1.0	0.219869	50.0	1673497.0	0.219869	Y
3	STD2 280-657950/15	2.0	0.454249	50.0	1696756.0	0.227125	Y
4	STD5 280-657950/16	5.0	1.191577	50.0	1698799.0	0.238315	Y
5	STD10 280-657950/17	10.0	2.312177	50.0	1675434.0	0.231218	Y
6	ICIS 280-657950/18	50.0	11.970192	50.0	1623913.0	0.239404	Y
7	STD75 280-657950/19	75.0	19.169113	50.0	1507871.0	0.255588	Y
8	STD100 280-657950/20	100.0	24.727993	50.0	1401341.0	0.24728	Y
9	STD200 280-657950/21	200.0	57.063027	50.0	1377023.0	0.285315	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

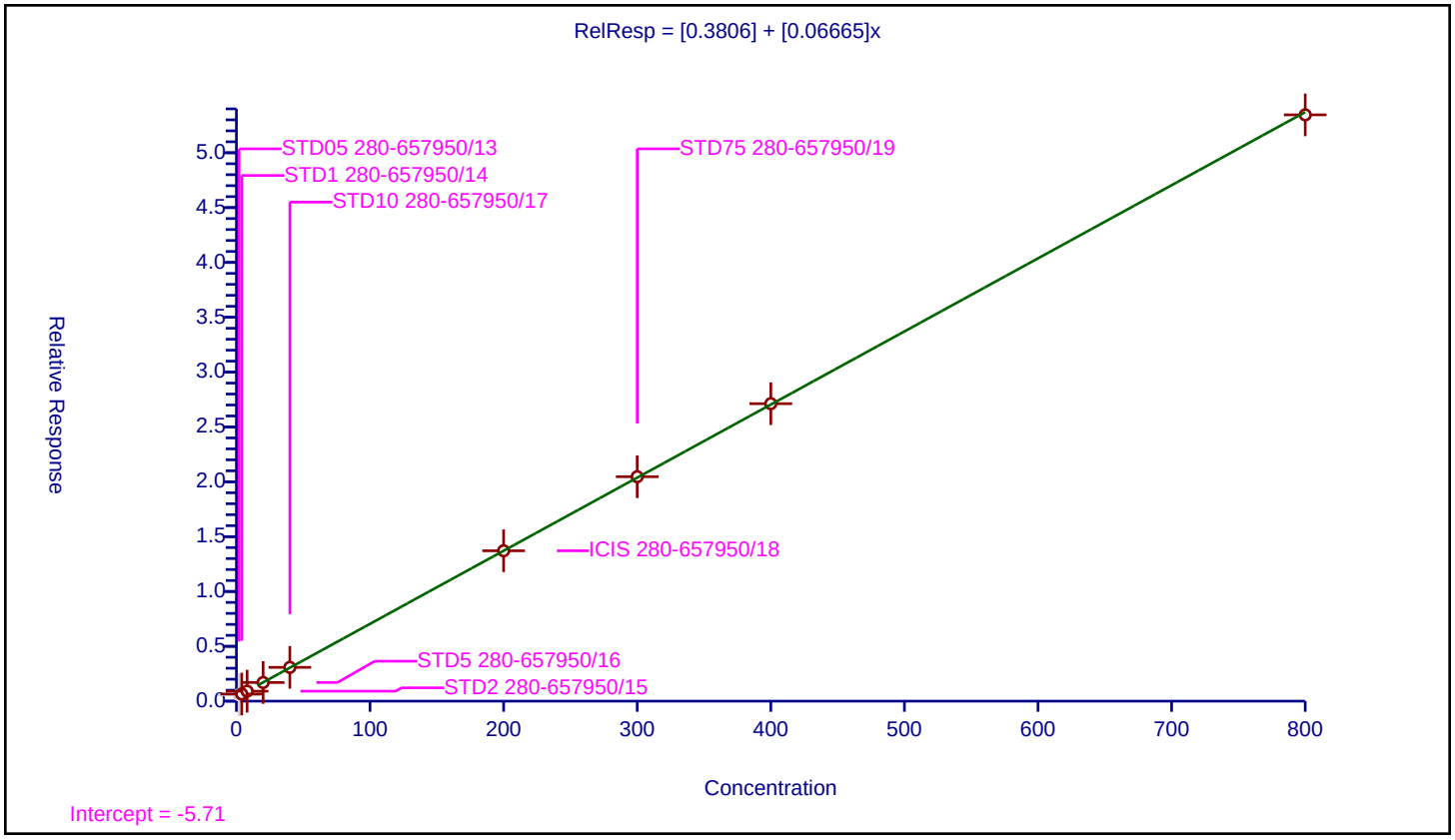
Curve Coefficients

Intercept:	0.3806
Slope:	0.06665

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	2.0	0.580645	50.0	1689069.0	0.290323	N
2	STD1 280-657950/14	4.0	0.648821	50.0	1673497.0	0.162205	Y
3	STD2 280-657950/15	8.0	0.908498	50.0	1696756.0	0.113562	Y
4	STD5 280-657950/16	20.0	1.698641	50.0	1698799.0	0.084932	Y
5	STD10 280-657950/17	40.0	3.08147	50.0	1675434.0	0.077037	Y
6	ICIS 280-657950/18	200.0	13.708647	50.0	1623913.0	0.068543	Y
7	STD75 280-657950/19	300.0	20.46382	50.0	1507871.0	0.068213	Y
8	STD100 280-657950/20	400.0	27.122663	50.0	1401341.0	0.067807	Y
9	STD200 280-657950/21	800.0	53.455207	50.0	1377023.0	0.066819	Y



7/5/2024
11:14:22 AM

Calibration / Iodomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

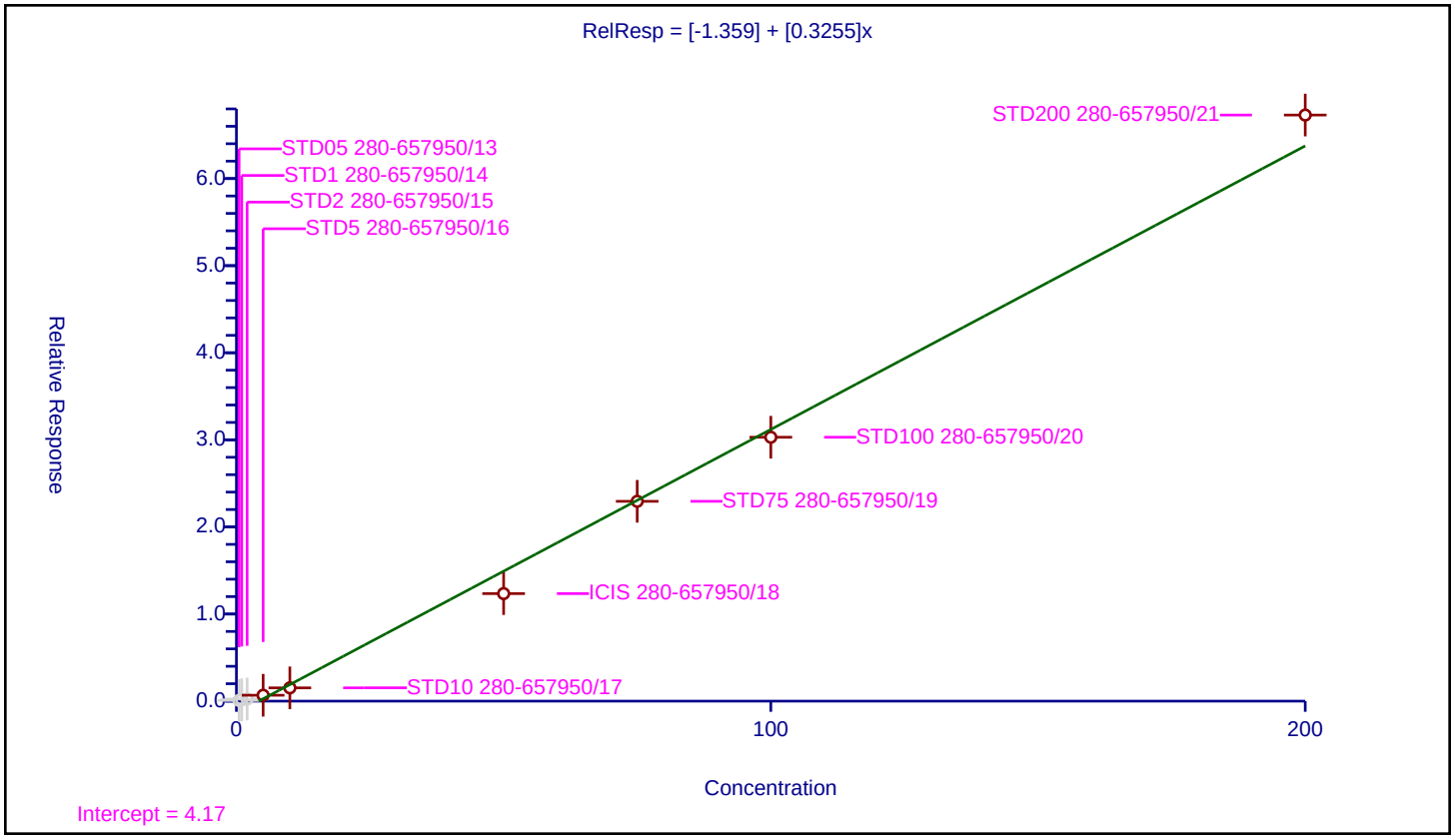
Curve Coefficients

Intercept:	-1.359
Slope:	0.3255

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.082915	50.0	1689069.0	0.165831	N
2	STD1 280-657950/14	1.0	0.156887	50.0	1673497.0	0.156887	N
3	STD2 280-657950/15	2.0	0.241137	50.0	1696756.0	0.120568	N
4	STD5 280-657950/16	5.0	0.676242	50.0	1698799.0	0.135248	Y
5	STD10 280-657950/17	10.0	1.522949	50.0	1675434.0	0.152295	Y
6	ICIS 280-657950/18	50.0	12.345643	50.0	1623913.0	0.246913	Y
7	STD75 280-657950/19	75.0	22.941883	50.0	1507871.0	0.305892	Y
8	STD100 280-657950/20	100.0	30.300655	50.0	1401341.0	0.303007	Y
9	STD200 280-657950/21	200.0	67.2947	50.0	1377023.0	0.336474	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

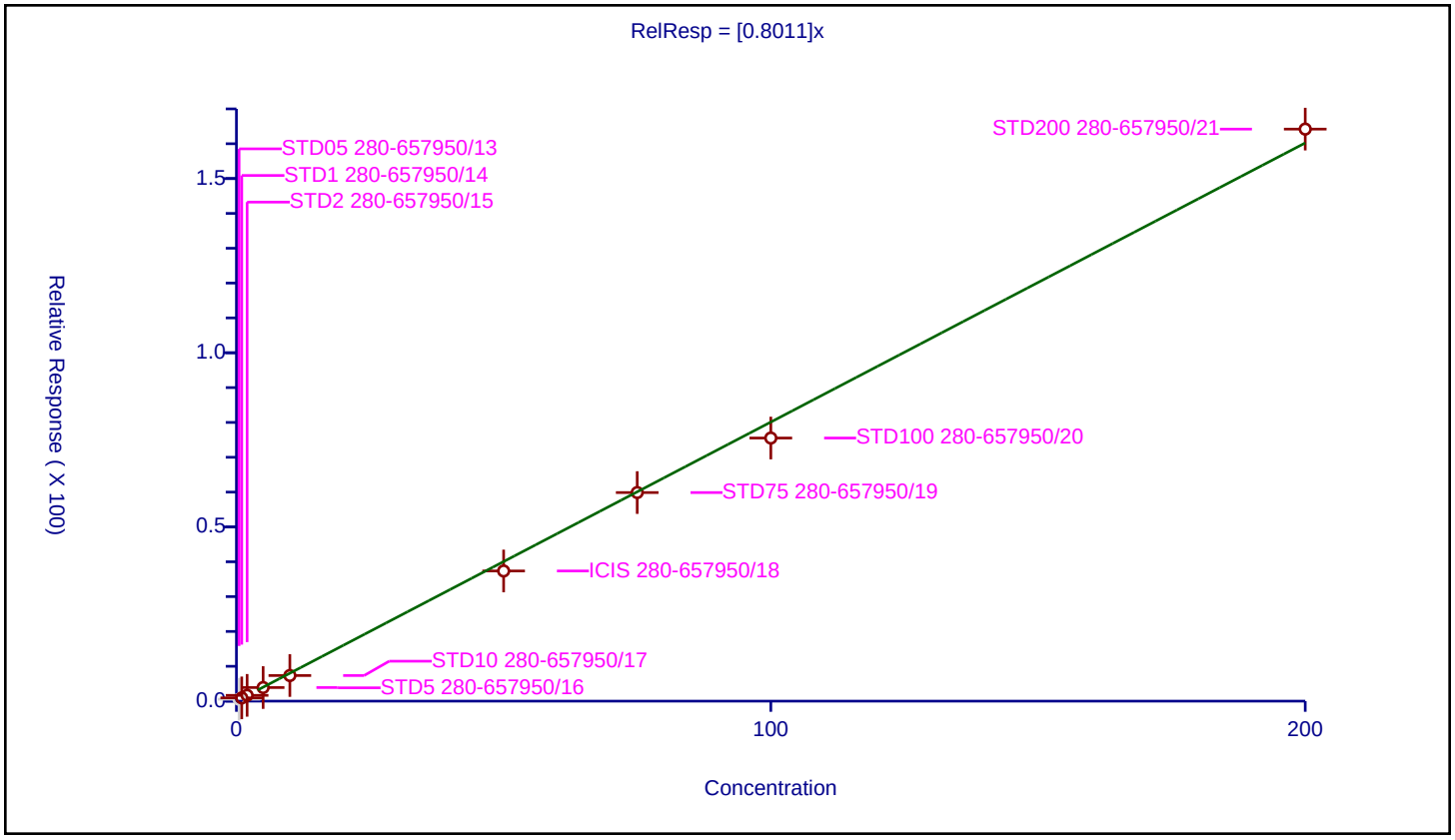
Curve Coefficients

Intercept:	0
Slope:	0.8011

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.552967	50.0	1689069.0	1.105935	N
2	STD1 280-657950/14	1.0	0.938364	50.0	1673497.0	0.938364	Y
3	STD2 280-657950/15	2.0	1.665561	50.0	1696756.0	0.83278	Y
4	STD5 280-657950/16	5.0	3.90467	50.0	1698799.0	0.780934	Y
5	STD10 280-657950/17	10.0	7.351767	50.0	1675434.0	0.735177	Y
6	ICIS 280-657950/18	50.0	37.362008	50.0	1623913.0	0.74724	Y
7	STD75 280-657950/19	75.0	59.869047	50.0	1507871.0	0.798254	Y
8	STD100 280-657950/20	100.0	75.518878	50.0	1401341.0	0.755189	Y
9	STD200 280-657950/21	200.0	164.198129	50.0	1377023.0	0.820991	Y



7/5/2024
11:14:22 AM

Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

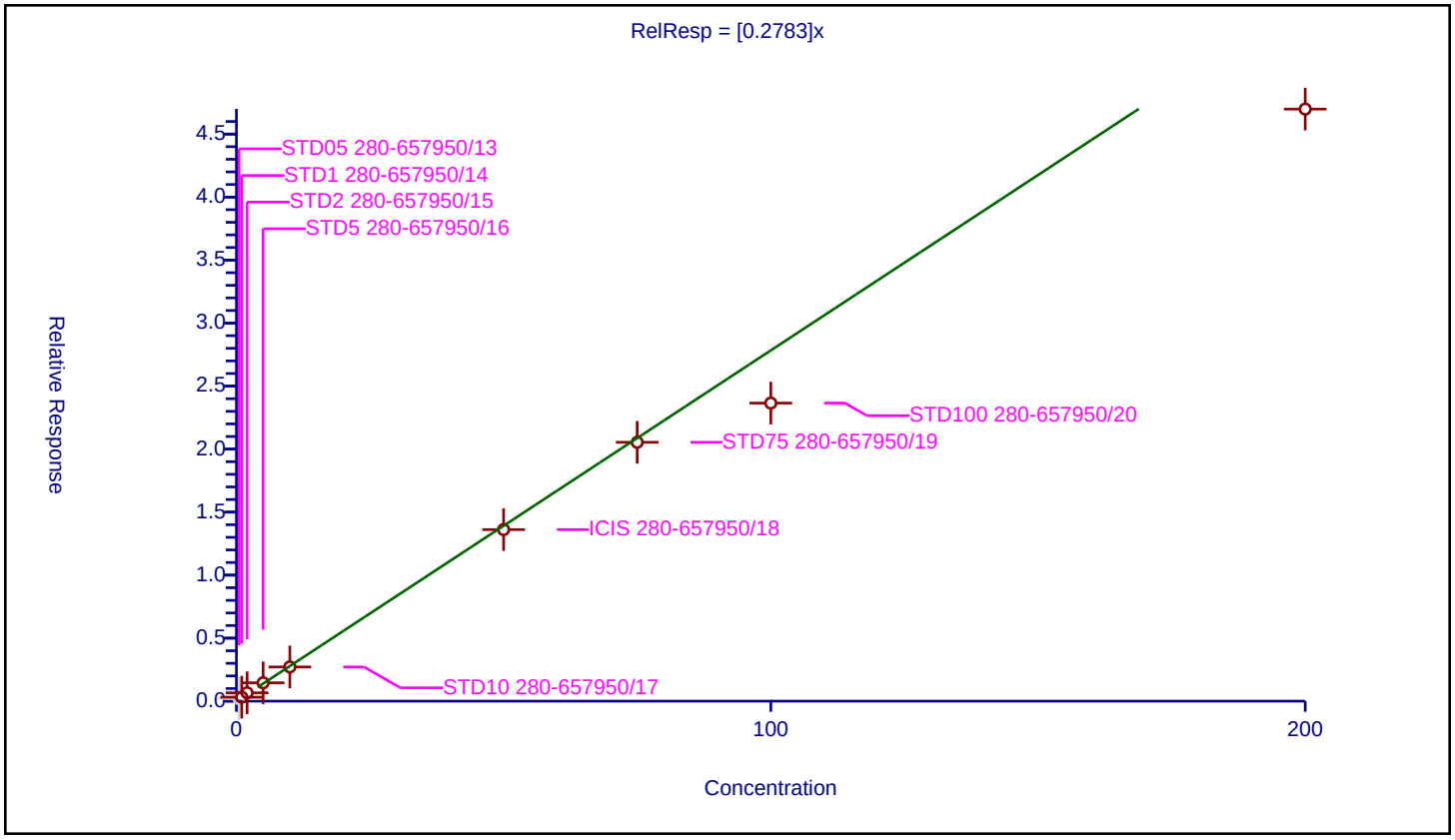
Curve Coefficients

Intercept:	0
Slope:	0.2783

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.206327	50.0	1689069.0	0.412653	N
2	STD1 280-657950/14	1.0	0.316314	50.0	1673497.0	0.316314	Y
3	STD2 280-657950/15	2.0	0.660731	50.0	1696756.0	0.330366	Y
4	STD5 280-657950/16	5.0	1.455234	50.0	1698799.0	0.291047	Y
5	STD10 280-657950/17	10.0	2.713476	50.0	1675434.0	0.271348	Y
6	ICIS 280-657950/18	50.0	13.61246	50.0	1623913.0	0.272249	Y
7	STD75 280-657950/19	75.0	20.541545	50.0	1507871.0	0.273887	Y
8	STD100 280-657950/20	100.0	23.65213	50.0	1401341.0	0.236521	Y
9	STD200 280-657950/21	200.0	46.983202	50.0	1377023.0	0.234916	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

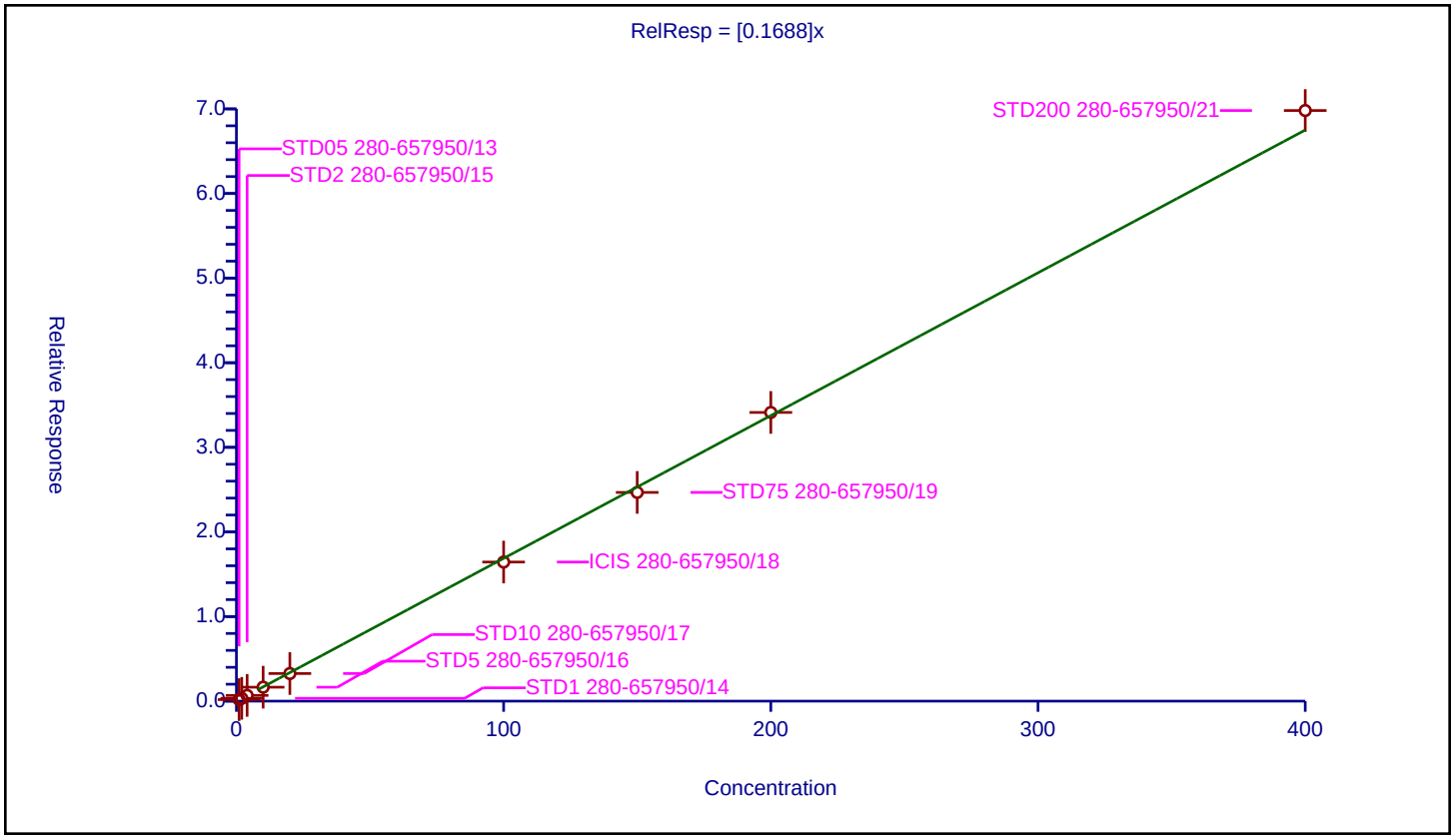
Curve Coefficients

Intercept:	0
Slope:	0.1688

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	1.0	0.181372	50.0	1689069.0	0.181372	Y
2	STD1 280-657950/14	2.0	0.332089	50.0	1673497.0	0.166045	Y
3	STD2 280-657950/15	4.0	0.678118	50.0	1696756.0	0.169529	Y
4	STD5 280-657950/16	10.0	1.647164	50.0	1698799.0	0.164716	Y
5	STD10 280-657950/17	20.0	3.262319	50.0	1675434.0	0.163116	Y
6	ICIS 280-657950/18	100.0	16.44032	50.0	1623913.0	0.164403	Y
7	STD75 280-657950/19	150.0	24.669252	50.0	1507871.0	0.164462	Y
8	STD100 280-657950/20	200.0	34.123172	50.0	1401341.0	0.170616	Y
9	STD200 280-657950/21	400.0	69.807839	50.0	1377023.0	0.17452	Y



7/5/2024
11:14:22 AM

Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

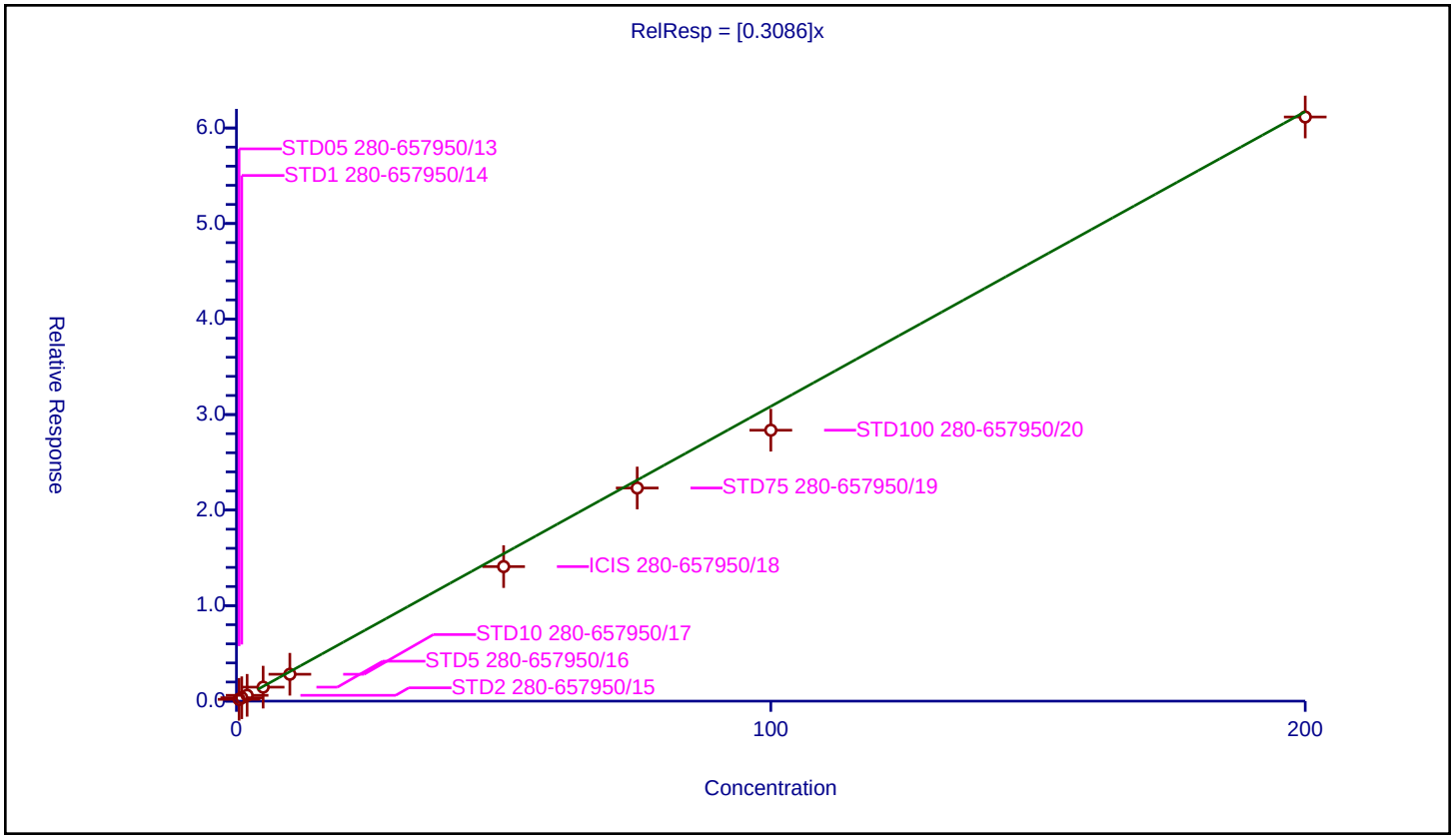
Curve Coefficients

Intercept:	0
Slope:	0.3086

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.187145	50.0	1689069.0	0.374289	Y
2	STD1 280-657950/14	1.0	0.35623	50.0	1673497.0	0.35623	Y
3	STD2 280-657950/15	2.0	0.607807	50.0	1696756.0	0.303903	Y
4	STD5 280-657950/16	5.0	1.464299	50.0	1698799.0	0.29286	Y
5	STD10 280-657950/17	10.0	2.814674	50.0	1675434.0	0.281467	Y
6	ICIS 280-657950/18	50.0	14.085976	50.0	1623913.0	0.28172	Y
7	STD75 280-657950/19	75.0	22.312519	50.0	1507871.0	0.2975	Y
8	STD100 280-657950/20	100.0	28.362047	50.0	1401341.0	0.28362	Y
9	STD200 280-657950/21	200.0	61.151448	50.0	1377023.0	0.305757	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

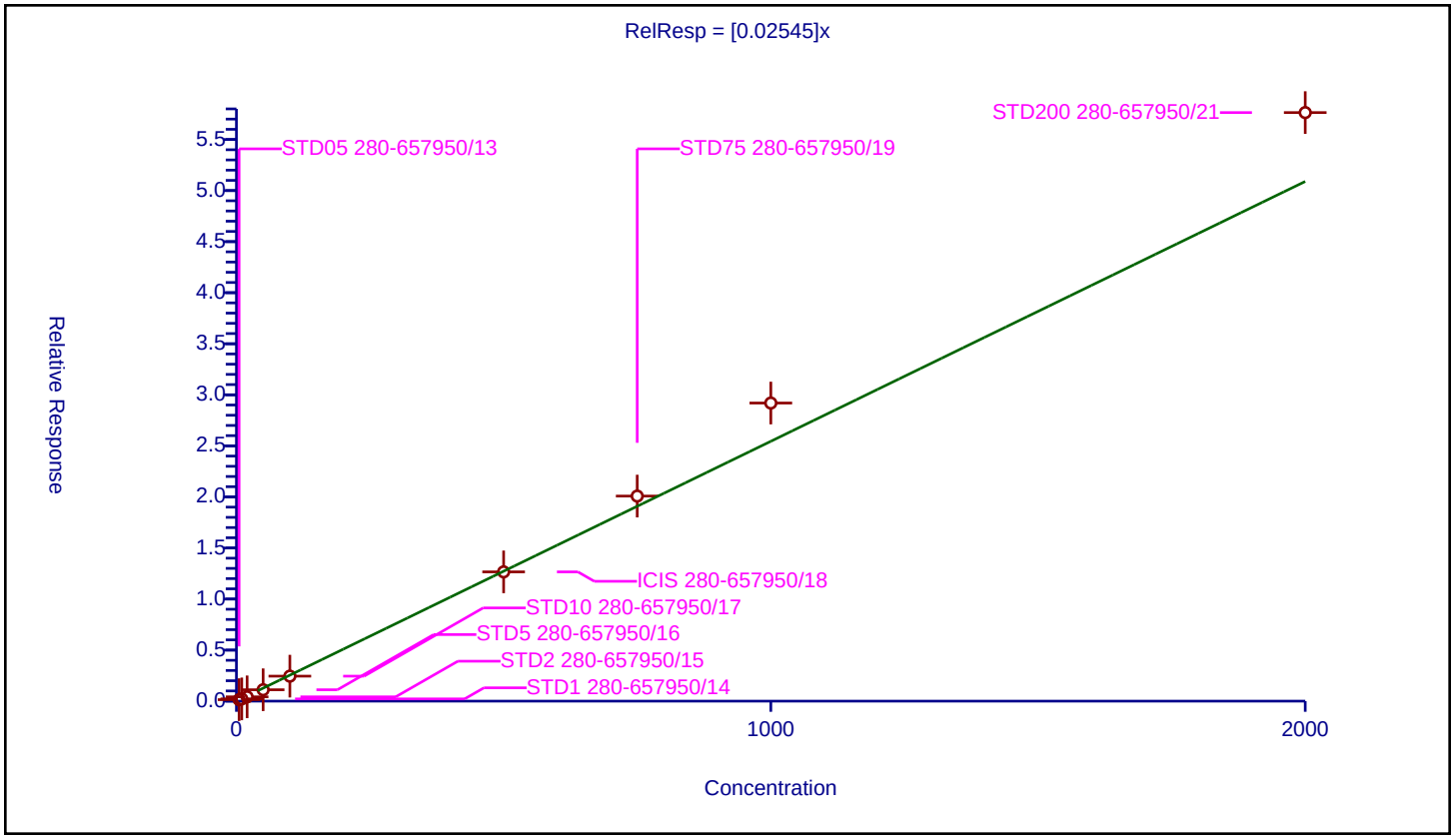
Curve Coefficients

Intercept:	0
Slope:	0.02545

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	5.0	0.144725	50.0	1689069.0	0.028945	Y
2	STD1 280-657950/14	10.0	0.221034	50.0	1673497.0	0.022103	Y
3	STD2 280-657950/15	20.0	0.421982	50.0	1696756.0	0.021099	Y
4	STD5 280-657950/16	50.0	1.114111	50.0	1698799.0	0.022282	Y
5	STD10 280-657950/17	100.0	2.44856	50.0	1675434.0	0.024486	Y
6	ICIS 280-657950/18	500.0	12.658468	50.0	1623913.0	0.025317	Y
7	STD75 280-657950/19	750.0	20.081857	50.0	1507871.0	0.026776	Y
8	STD100 280-657950/20	1000.0	29.192359	50.0	1401341.0	0.029192	Y
9	STD200 280-657950/21	2000.0	57.636292	50.0	1377023.0	0.028818	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

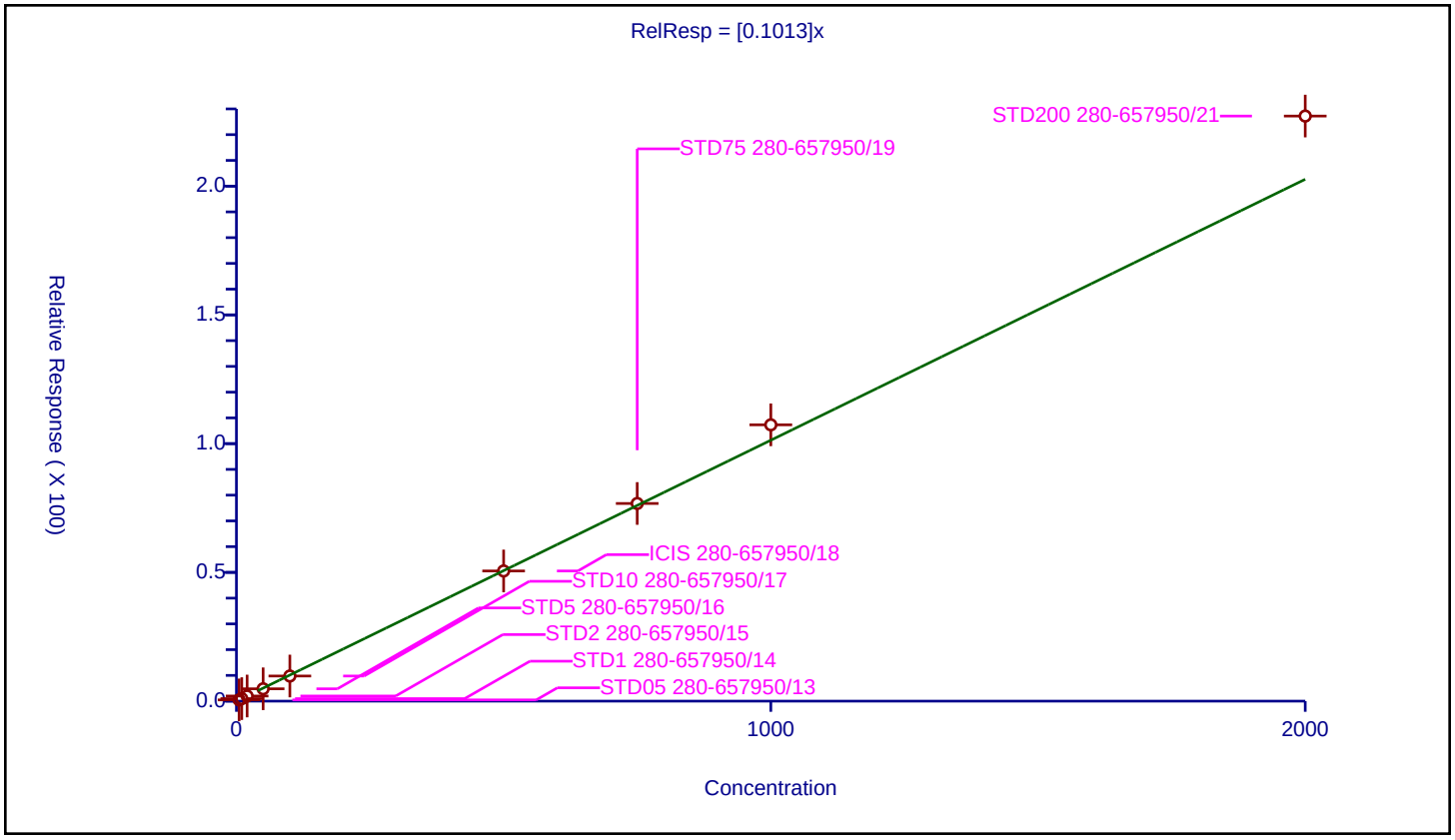
Curve Coefficients

Intercept:	0
Slope:	0.1013

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	5.0	0.484971	50.0	1689069.0	0.096994	Y
2	STD1 280-657950/14	10.0	0.973411	50.0	1673497.0	0.097341	Y
3	STD2 280-657950/15	20.0	1.995691	50.0	1696756.0	0.099785	Y
4	STD5 280-657950/16	50.0	4.794446	50.0	1698799.0	0.095889	Y
5	STD10 280-657950/17	100.0	9.759412	50.0	1675434.0	0.097594	Y
6	ICIS 280-657950/18	500.0	50.557665	50.0	1623913.0	0.101115	Y
7	STD75 280-657950/19	750.0	76.760578	50.0	1507871.0	0.102347	Y
8	STD100 280-657950/20	1000.0	107.305752	50.0	1401341.0	0.107306	Y
9	STD200 280-657950/21	2000.0	227.215994	50.0	1377023.0	0.113608	Y



7/5/2024
11:14:22 AM

Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

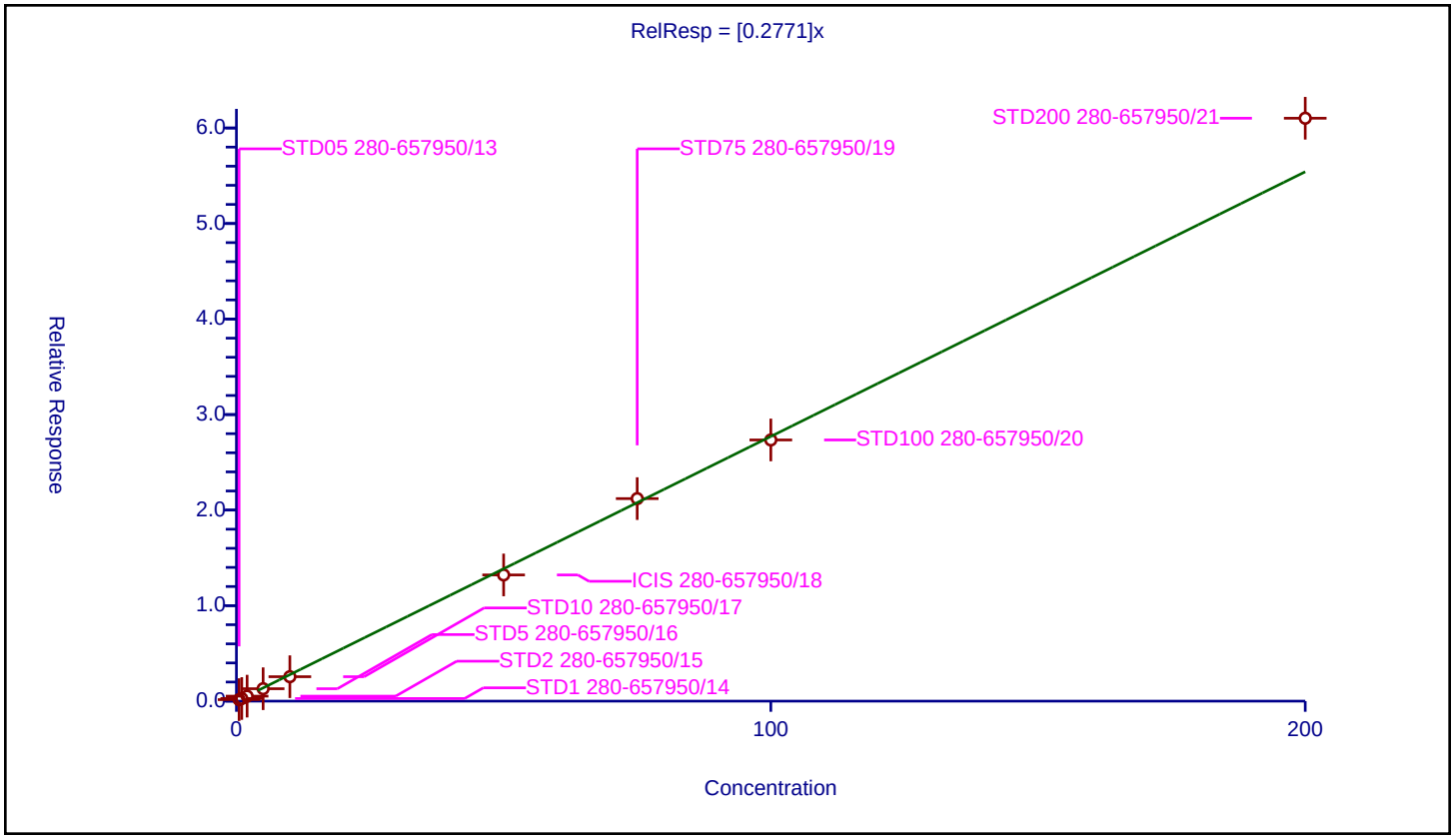
Curve Coefficients

Intercept:	0
Slope:	0.2771

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.158223	50.0	1689069.0	0.316447	Y
2	STD1 280-657950/14	1.0	0.274485	50.0	1673497.0	0.274485	Y
3	STD2 280-657950/15	2.0	0.522202	50.0	1696756.0	0.261101	Y
4	STD5 280-657950/16	5.0	1.302008	50.0	1698799.0	0.260402	Y
5	STD10 280-657950/17	10.0	2.558024	50.0	1675434.0	0.255802	Y
6	ICIS 280-657950/18	50.0	13.212746	50.0	1623913.0	0.264255	Y
7	STD75 280-657950/19	75.0	21.202245	50.0	1507871.0	0.282697	Y
8	STD100 280-657950/20	100.0	27.342025	50.0	1401341.0	0.27342	Y
9	STD200 280-657950/21	200.0	61.022401	50.0	1377023.0	0.305112	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

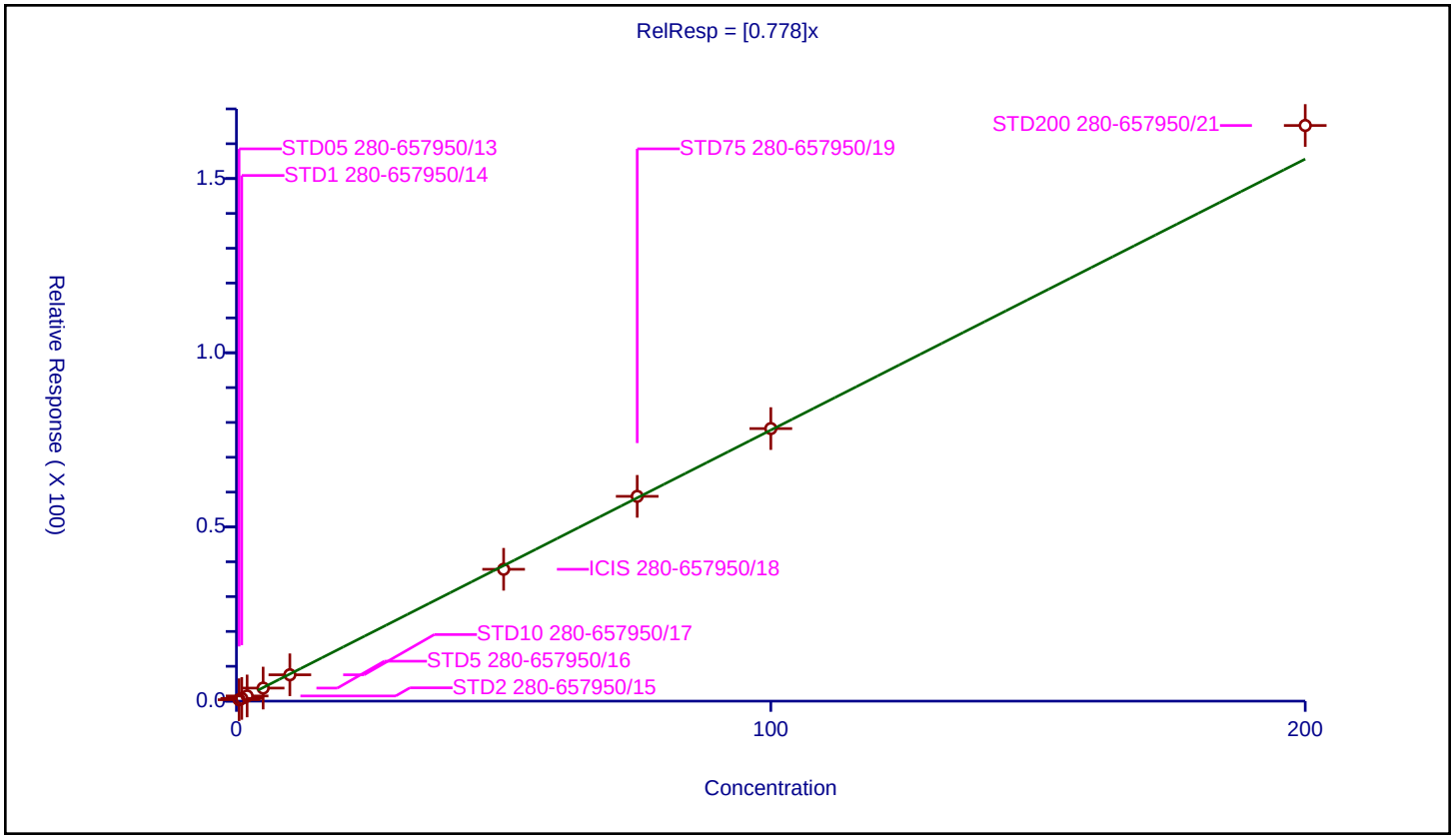
Curve Coefficients

Intercept:	0
Slope:	0.778

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.411055	50.0	1689069.0	0.82211	Y
2	STD1 280-657950/14	1.0	0.779386	50.0	1673497.0	0.779386	Y
3	STD2 280-657950/15	2.0	1.488075	50.0	1696756.0	0.744037	Y
4	STD5 280-657950/16	5.0	3.752592	50.0	1698799.0	0.750518	Y
5	STD10 280-657950/17	10.0	7.566666	50.0	1675434.0	0.756667	Y
6	ICIS 280-657950/18	50.0	37.848949	50.0	1623913.0	0.756979	Y
7	STD75 280-657950/19	75.0	58.787721	50.0	1507871.0	0.783836	Y
8	STD100 280-657950/20	100.0	78.238238	50.0	1401341.0	0.782382	Y
9	STD200 280-657950/21	200.0	165.237364	50.0	1377023.0	0.826187	Y



7/5/2024
11:14:22 AM

Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

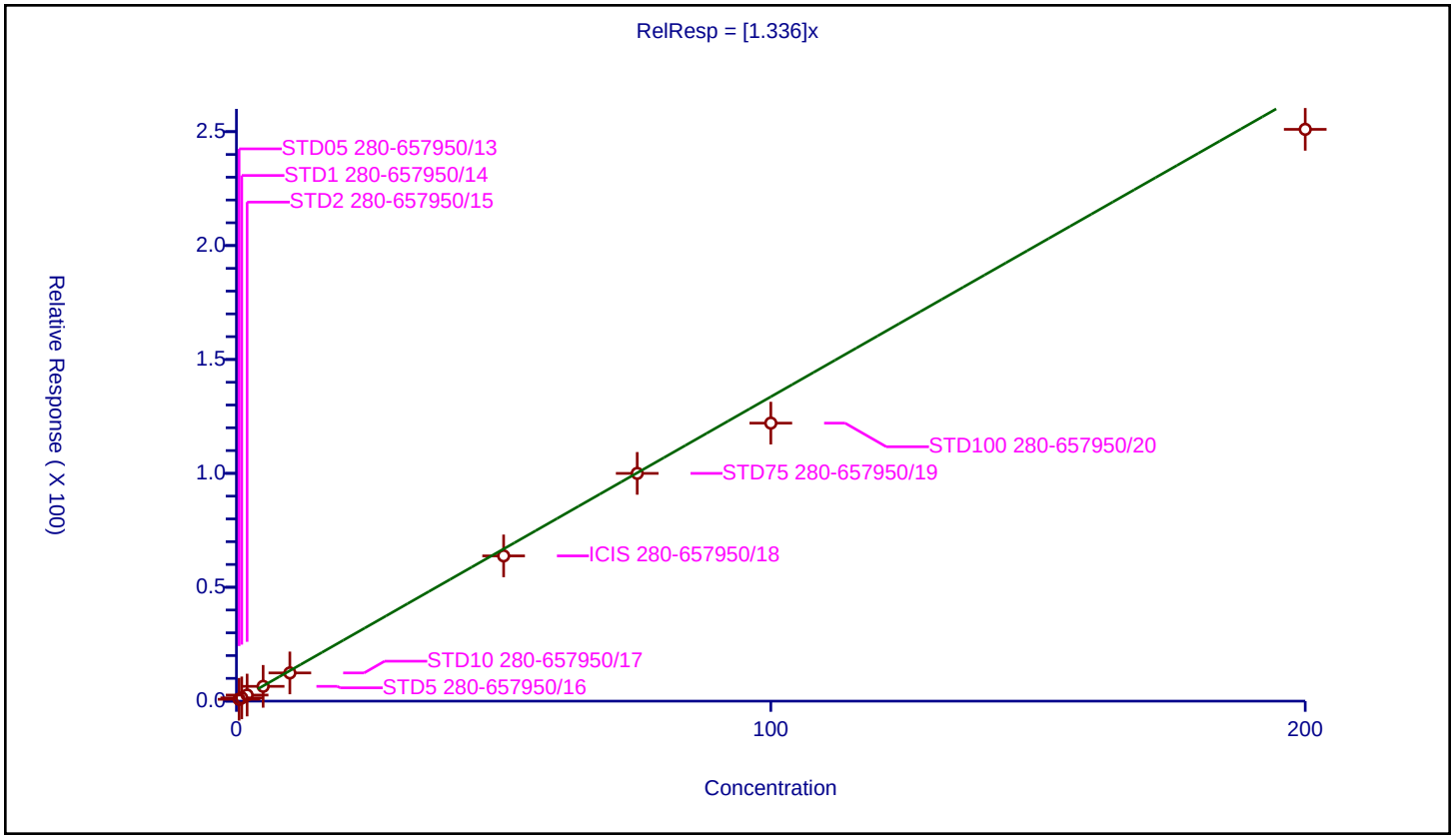
Curve Coefficients

Intercept:	0
Slope:	1.336

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.816419	50.0	400897.0	1.632838	Y
2	STD1 280-657950/14	1.0	1.43157	50.0	404521.0	1.43157	Y
3	STD2 280-657950/15	2.0	2.677043	50.0	405933.0	1.338521	Y
4	STD5 280-657950/16	5.0	6.499285	50.0	406437.0	1.299857	Y
5	STD10 280-657950/17	10.0	12.39208	50.0	398327.0	1.239208	Y
6	ICIS 280-657950/18	50.0	63.768492	50.0	398958.0	1.27537	Y
7	STD75 280-657950/19	75.0	99.992588	50.0	371029.0	1.333235	Y
8	STD100 280-657950/20	100.0	122.055788	50.0	356530.0	1.220558	Y
9	STD200 280-657950/21	200.0	251.021778	50.0	372390.0	1.255109	Y



7/5/2024
11:14:22 AM

Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

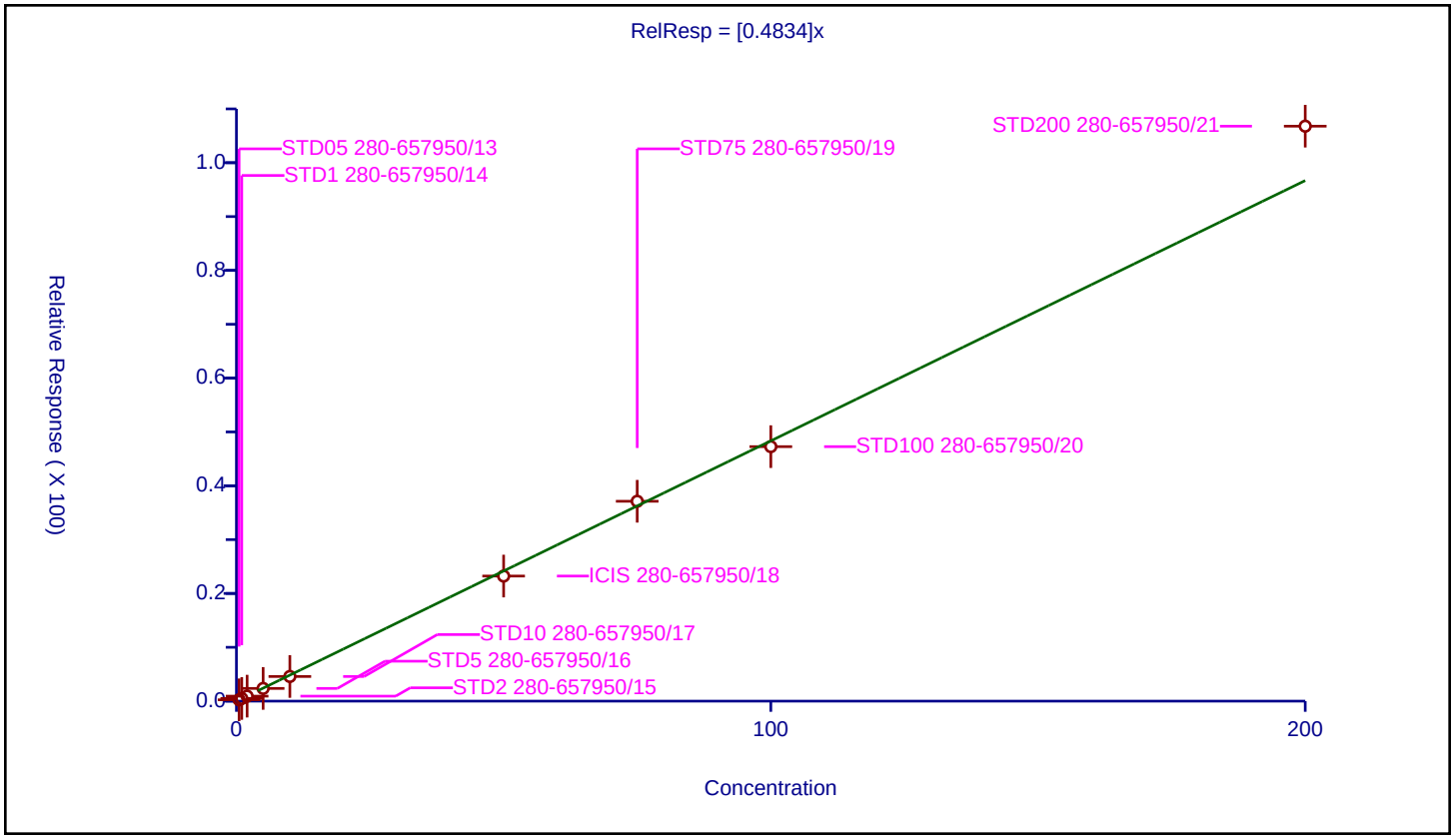
Curve Coefficients

Intercept:	0
Slope:	0.4834

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.246911	50.0	1689069.0	0.493822	Y
2	STD1 280-657950/14	1.0	0.498059	50.0	1673497.0	0.498059	Y
3	STD2 280-657950/15	2.0	0.925884	50.0	1696756.0	0.462942	Y
4	STD5 280-657950/16	5.0	2.36005	50.0	1698799.0	0.47201	Y
5	STD10 280-657950/17	10.0	4.580037	50.0	1675434.0	0.458004	Y
6	ICIS 280-657950/18	50.0	23.231325	50.0	1623913.0	0.464626	Y
7	STD75 280-657950/19	75.0	37.121843	50.0	1507871.0	0.494958	Y
8	STD100 280-657950/20	100.0	47.267189	50.0	1401341.0	0.472672	Y
9	STD200 280-657950/21	200.0	106.788812	50.0	1377023.0	0.533944	Y



7/5/2024
11:14:22 AM

Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

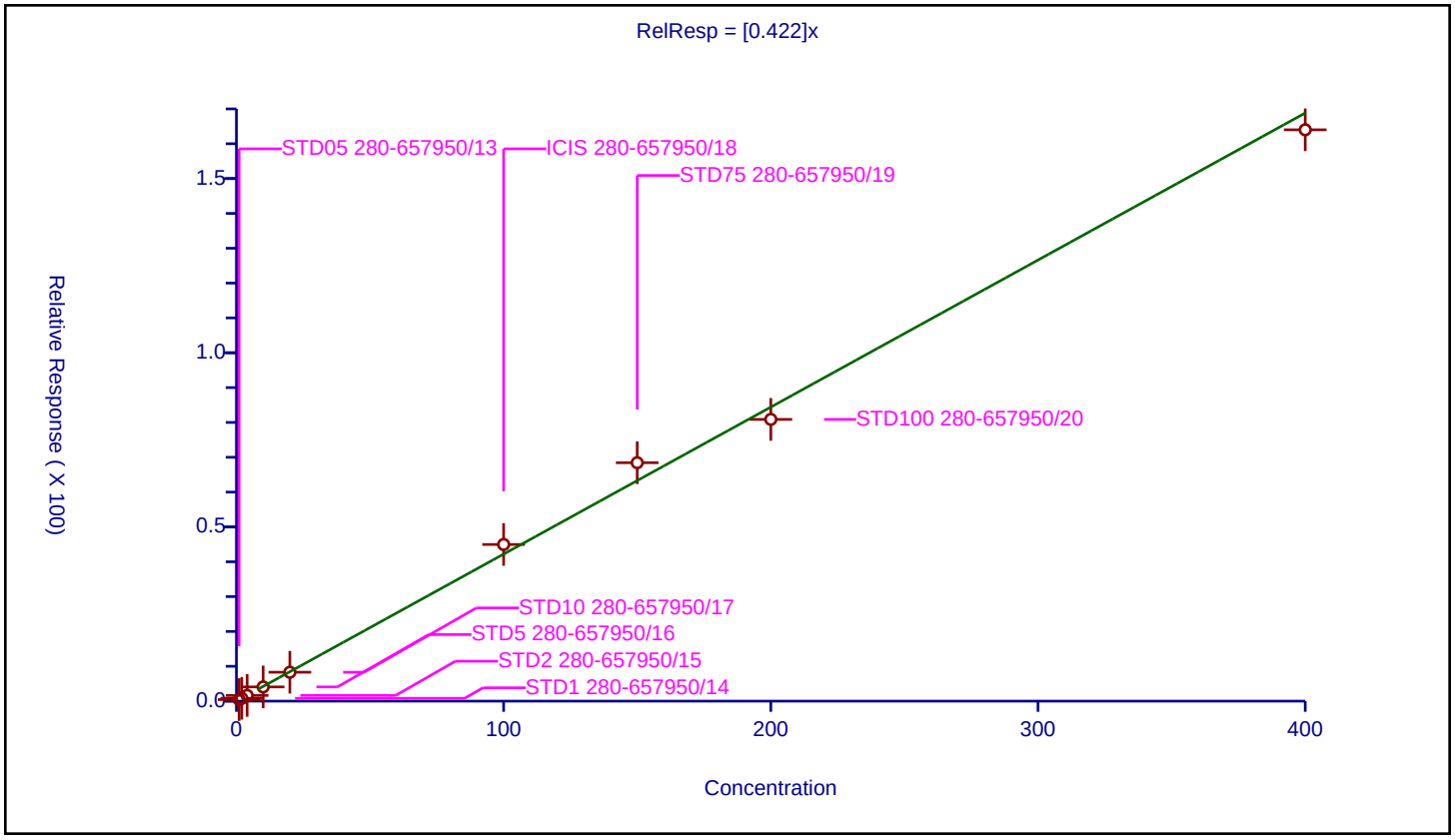
Curve Coefficients

Intercept:	0
Slope:	0.422

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	1.0	0.440065	50.0	1689069.0	0.440065	Y
2	STD1 280-657950/14	2.0	0.810638	50.0	1673497.0	0.405319	Y
3	STD2 280-657950/15	4.0	1.641161	50.0	1696756.0	0.41029	Y
4	STD5 280-657950/16	10.0	4.076733	50.0	1698799.0	0.407673	Y
5	STD10 280-657950/17	20.0	8.294896	50.0	1675434.0	0.414745	Y
6	ICIS 280-657950/18	100.0	44.966602	50.0	1623913.0	0.449666	Y
7	STD75 280-657950/19	150.0	68.439276	50.0	1507871.0	0.456262	Y
8	STD100 280-657950/20	200.0	80.872821	50.0	1401341.0	0.404364	Y
9	STD200 280-657950/21	400.0	164.002235	50.0	1377023.0	0.410006	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

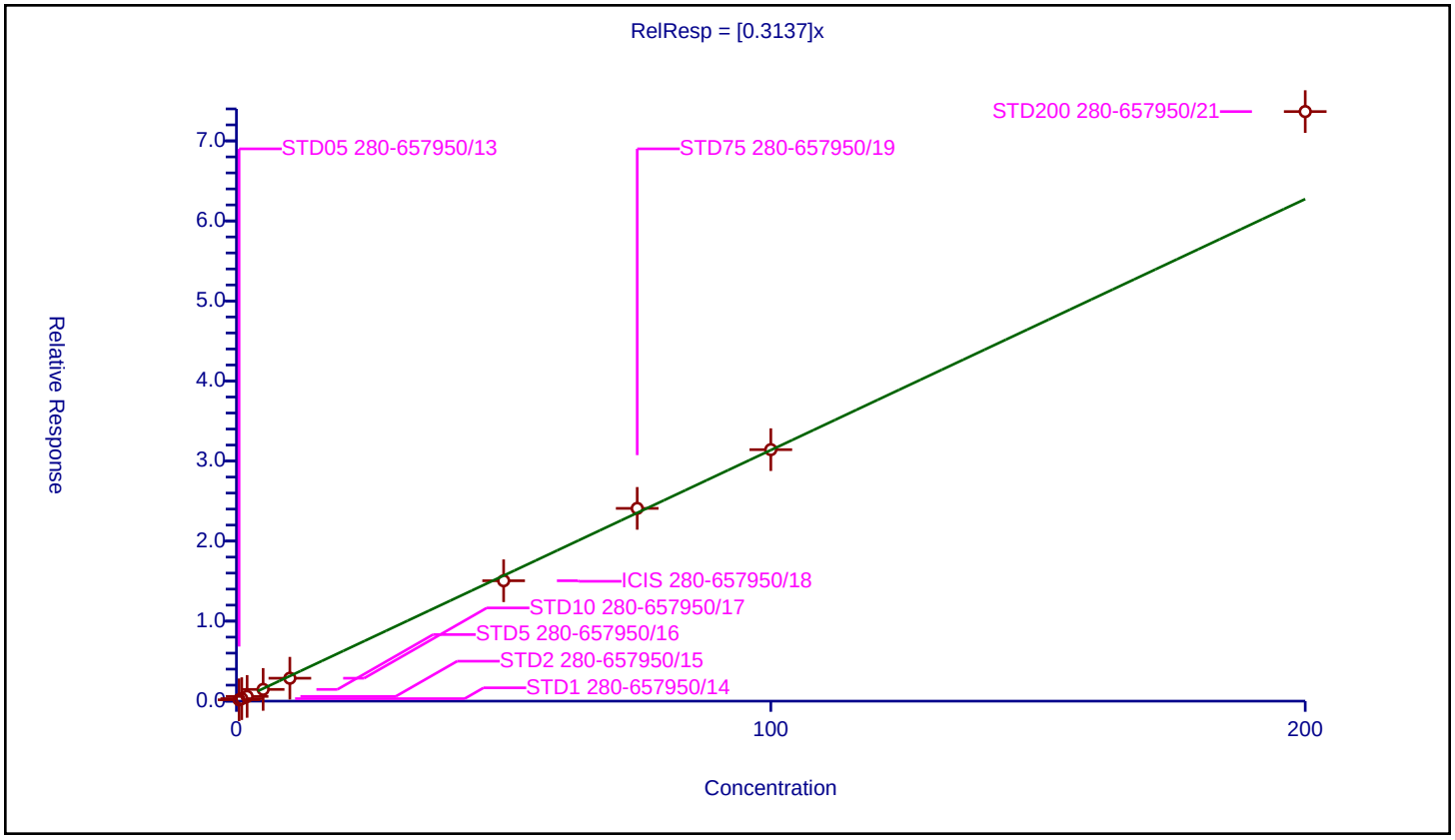
Curve Coefficients

Intercept:	0
Slope:	0.3137

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.166453	50.0	1689069.0	0.332905	Y
2	STD1 280-657950/14	1.0	0.31001	50.0	1673497.0	0.31001	Y
3	STD2 280-657950/15	2.0	0.591629	50.0	1696756.0	0.295814	Y
4	STD5 280-657950/16	5.0	1.467419	50.0	1698799.0	0.293484	Y
5	STD10 280-657950/17	10.0	2.863557	50.0	1675434.0	0.286356	Y
6	ICIS 280-657950/18	50.0	15.04317	50.0	1623913.0	0.300863	Y
7	STD75 280-657950/19	75.0	24.084587	50.0	1507871.0	0.321128	Y
8	STD100 280-657950/20	100.0	31.423579	50.0	1401341.0	0.314236	Y
9	STD200 280-657950/21	200.0	73.665218	50.0	1377023.0	0.368326	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

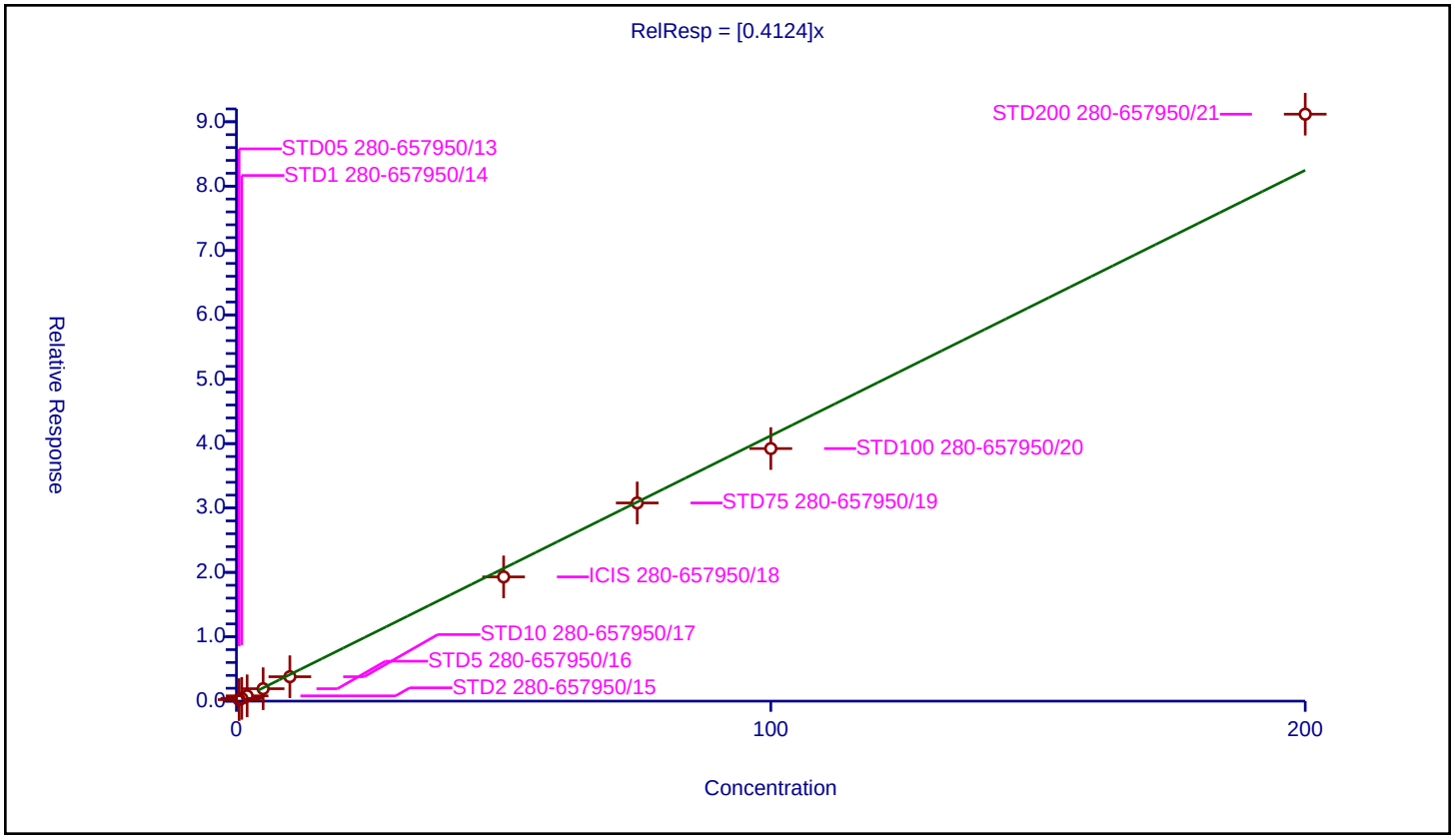
Curve Coefficients

Intercept:	0
Slope:	0.4124

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.231933	50.0	1689069.0	0.463865	Y
2	STD1 280-657950/14	1.0	0.426622	50.0	1673497.0	0.426622	Y
3	STD2 280-657950/15	2.0	0.821656	50.0	1696756.0	0.410828	Y
4	STD5 280-657950/16	5.0	1.930217	50.0	1698799.0	0.386043	Y
5	STD10 280-657950/17	10.0	3.791644	50.0	1675434.0	0.379164	Y
6	ICIS 280-657950/18	50.0	19.297678	50.0	1623913.0	0.385954	Y
7	STD75 280-657950/19	75.0	30.788609	50.0	1507871.0	0.410515	Y
8	STD100 280-657950/20	100.0	39.237202	50.0	1401341.0	0.392372	Y
9	STD200 280-657950/21	200.0	91.181592	50.0	1377023.0	0.455908	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

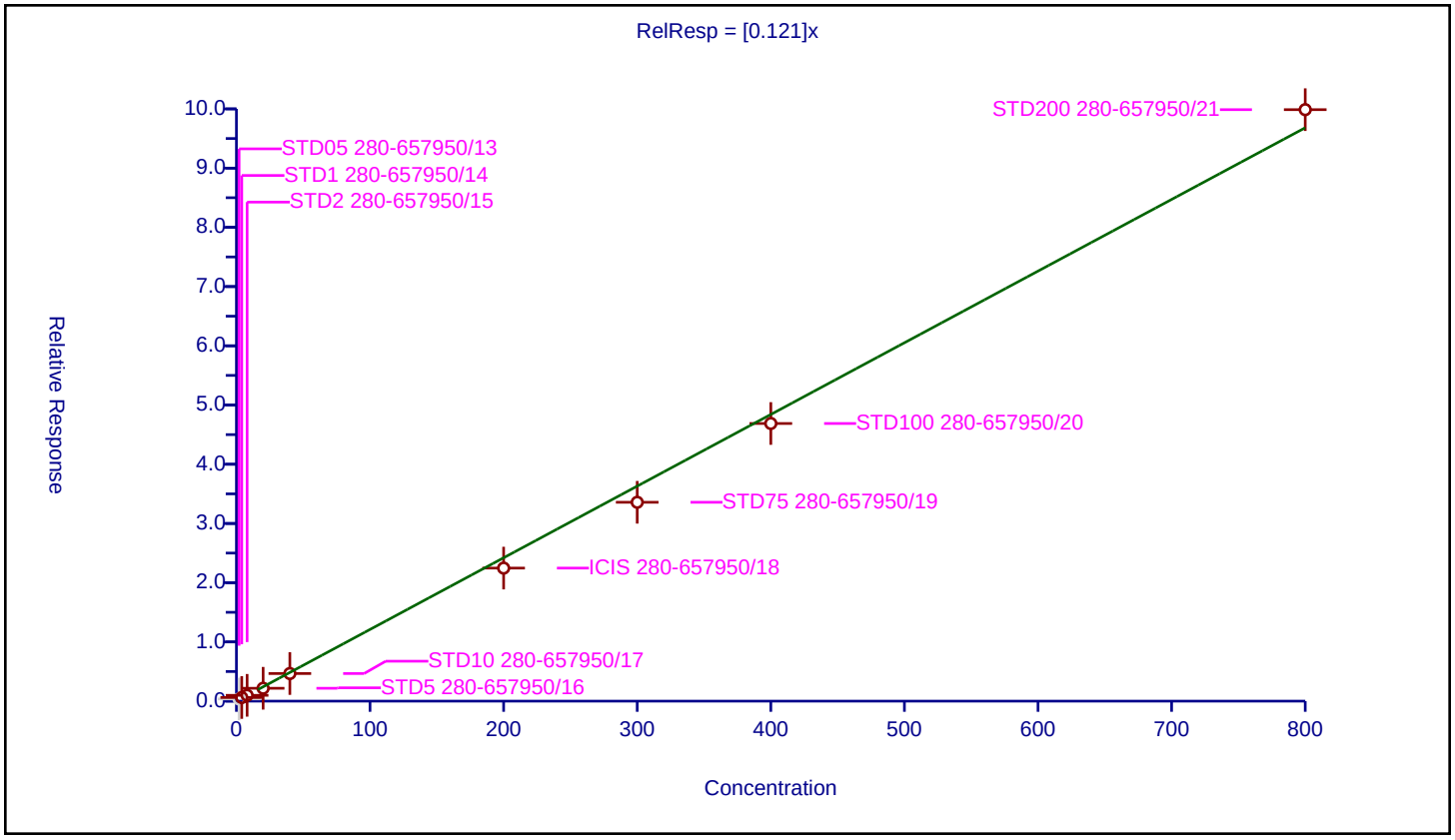
Curve Coefficients

Intercept:	0
Slope:	0.121

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	2.0	0.37127	50.0	1689069.0	0.185635	N
2	STD1 280-657950/14	4.0	0.614432	50.0	1673497.0	0.153608	Y
3	STD2 280-657950/15	8.0	0.984437	50.0	1696756.0	0.123055	Y
4	STD5 280-657950/16	20.0	2.172947	50.0	1698799.0	0.108647	Y
5	STD10 280-657950/17	40.0	4.661598	50.0	1675434.0	0.11654	Y
6	ICIS 280-657950/18	200.0	22.46358	50.0	1623913.0	0.112318	Y
7	STD75 280-657950/19	300.0	33.577773	50.0	1507871.0	0.111926	Y
8	STD100 280-657950/20	400.0	46.880488	50.0	1401341.0	0.117201	Y
9	STD200 280-657950/21	800.0	99.868484	50.0	1377023.0	0.124836	Y



Calibration / sec-Butyl Alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

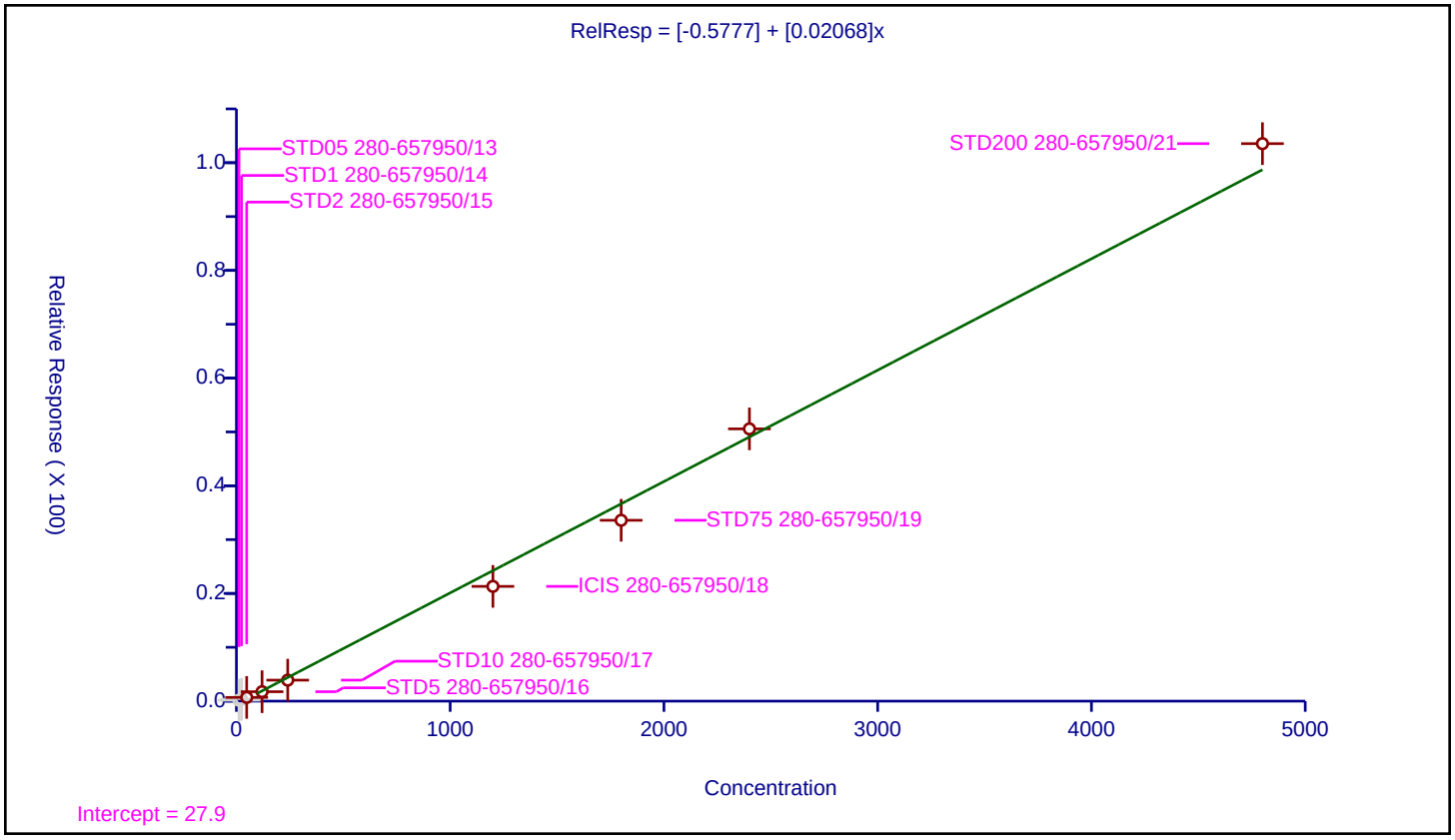
Curve Coefficients

Intercept:	-0.5777
Slope:	0.02068

Error Coefficients

Relative Standard Deviation:	15.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	12.0	0.173528	50.0	1689069.0	0.014461	N
2	STD1 280-657950/14	24.0	0.336003	50.0	1673497.0	0.014	N
3	STD2 280-657950/15	48.0	0.692174	50.0	1696756.0	0.01442	Y
4	STD5 280-657950/16	120.0	1.754063	50.0	1698799.0	0.014617	Y
5	STD10 280-657950/17	240.0	3.902631	50.0	1675434.0	0.016261	Y
6	ICIS 280-657950/18	1200.0	21.315489	50.0	1623913.0	0.017763	Y
7	STD75 280-657950/19	1800.0	33.590141	50.0	1507871.0	0.018661	Y
8	STD100 280-657950/20	2400.0	50.566636	50.0	1401341.0	0.021069	Y
9	STD200 280-657950/21	4800.0	103.544821	50.0	1377023.0	0.021572	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

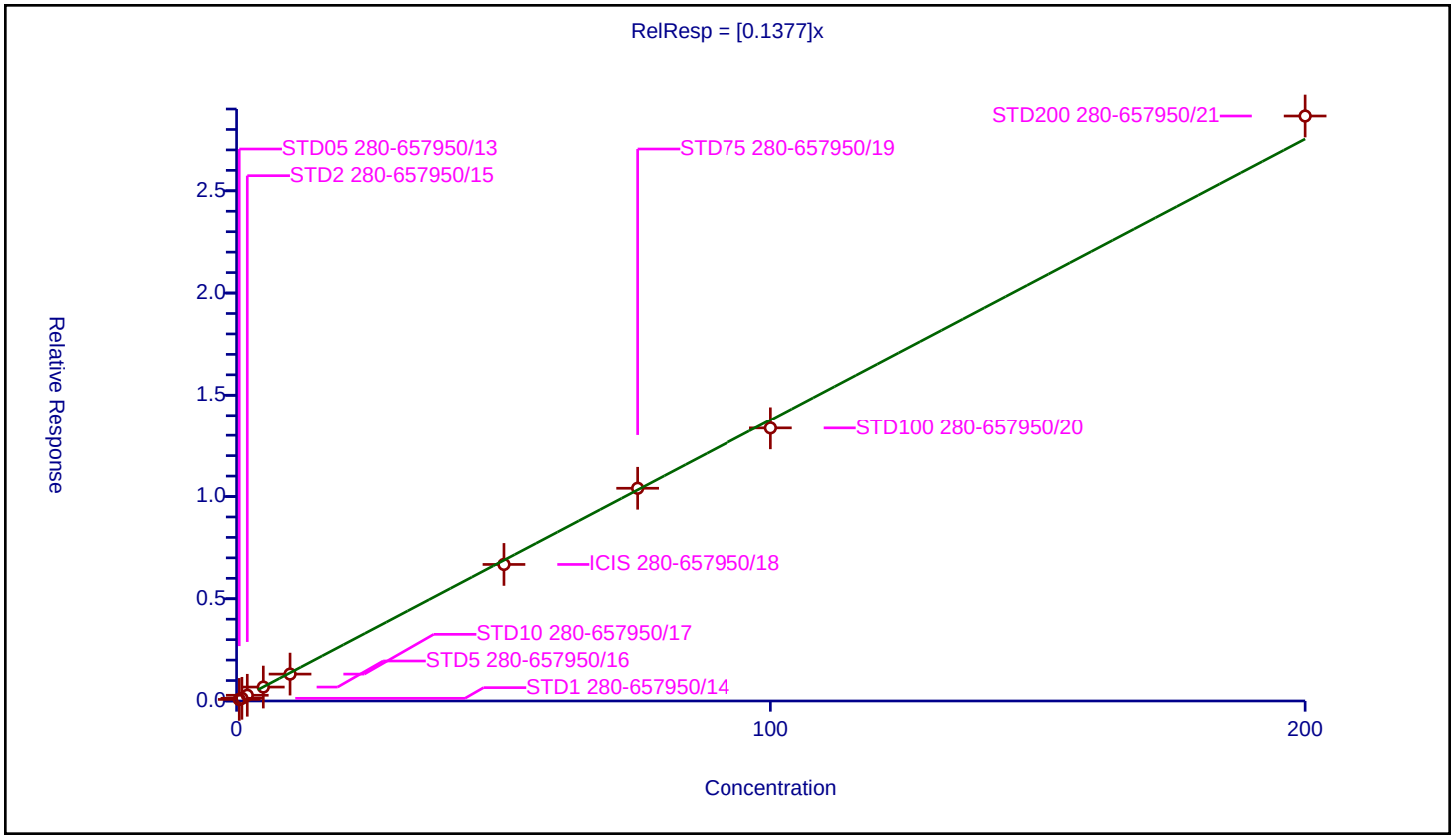
Curve Coefficients

Intercept:	0
Slope:	0.1377

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.076018	50.0	1689069.0	0.152036	Y
2	STD1 280-657950/14	1.0	0.130475	50.0	1673497.0	0.130475	Y
3	STD2 280-657950/15	2.0	0.279357	50.0	1696756.0	0.139678	Y
4	STD5 280-657950/16	5.0	0.680775	50.0	1698799.0	0.136155	Y
5	STD10 280-657950/17	10.0	1.315599	50.0	1675434.0	0.13156	Y
6	ICIS 280-657950/18	50.0	6.678375	50.0	1623913.0	0.133568	Y
7	STD75 280-657950/19	75.0	10.403675	50.0	1507871.0	0.138716	Y
8	STD100 280-657950/20	100.0	13.359132	50.0	1401341.0	0.133591	Y
9	STD200 280-657950/21	200.0	28.658018	50.0	1377023.0	0.14329	Y



7/5/2024
11:14:22 AM

Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

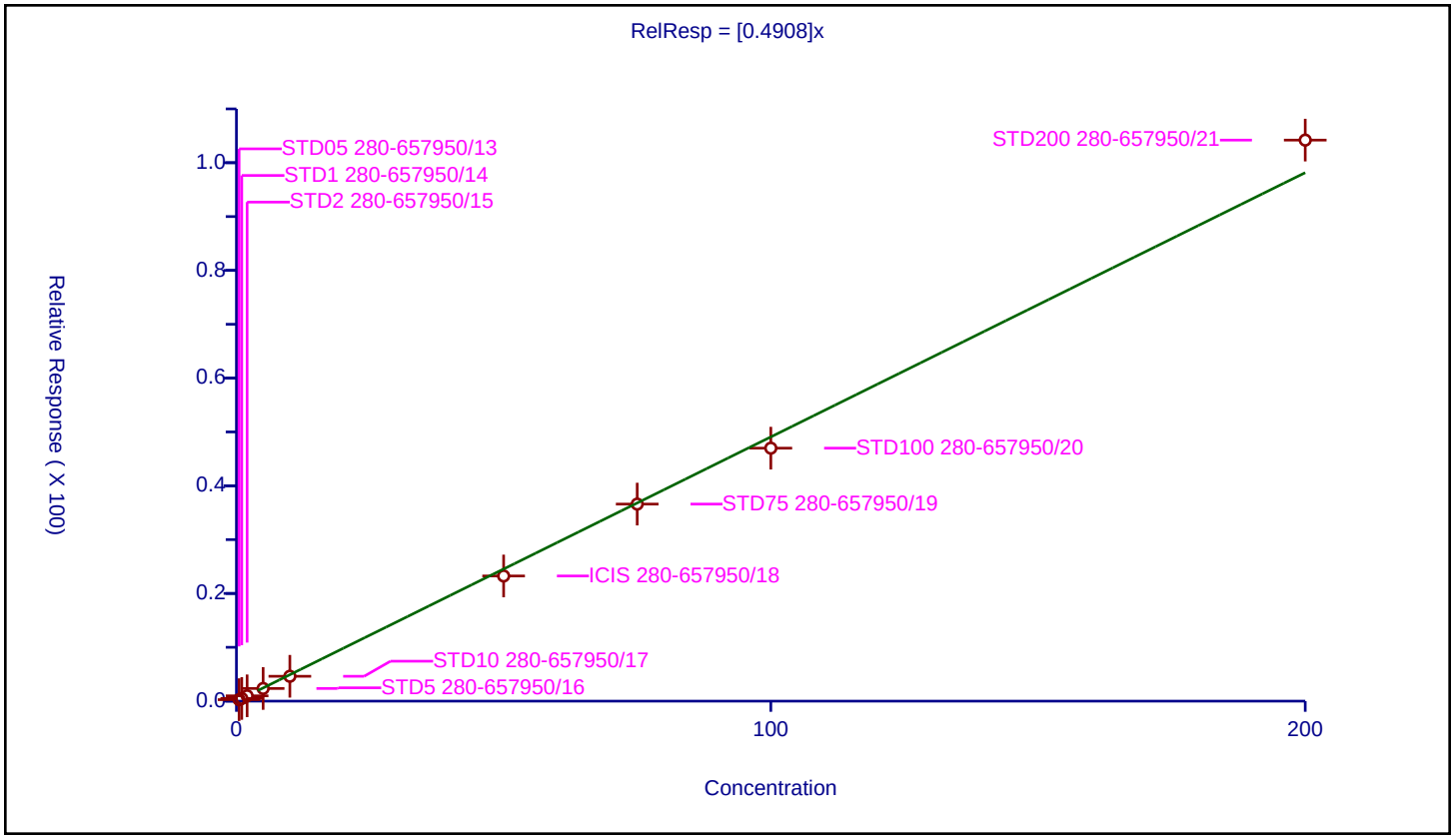
Curve Coefficients

Intercept:	0
Slope:	0.4908

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.274648	50.0	1689069.0	0.549297	Y
2	STD1 280-657950/14	1.0	0.497551	50.0	1673497.0	0.497551	Y
3	STD2 280-657950/15	2.0	0.988091	50.0	1696756.0	0.494046	Y
4	STD5 280-657950/16	5.0	2.352721	50.0	1698799.0	0.470544	Y
5	STD10 280-657950/17	10.0	4.616953	50.0	1675434.0	0.461695	Y
6	ICIS 280-657950/18	50.0	23.24789	50.0	1623913.0	0.464958	Y
7	STD75 280-657950/19	75.0	36.597892	50.0	1507871.0	0.487972	Y
8	STD100 280-657950/20	100.0	46.985923	50.0	1401341.0	0.469859	Y
9	STD200 280-657950/21	200.0	104.201963	50.0	1377023.0	0.52101	Y



7/5/2024
11:14:22 AM

Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

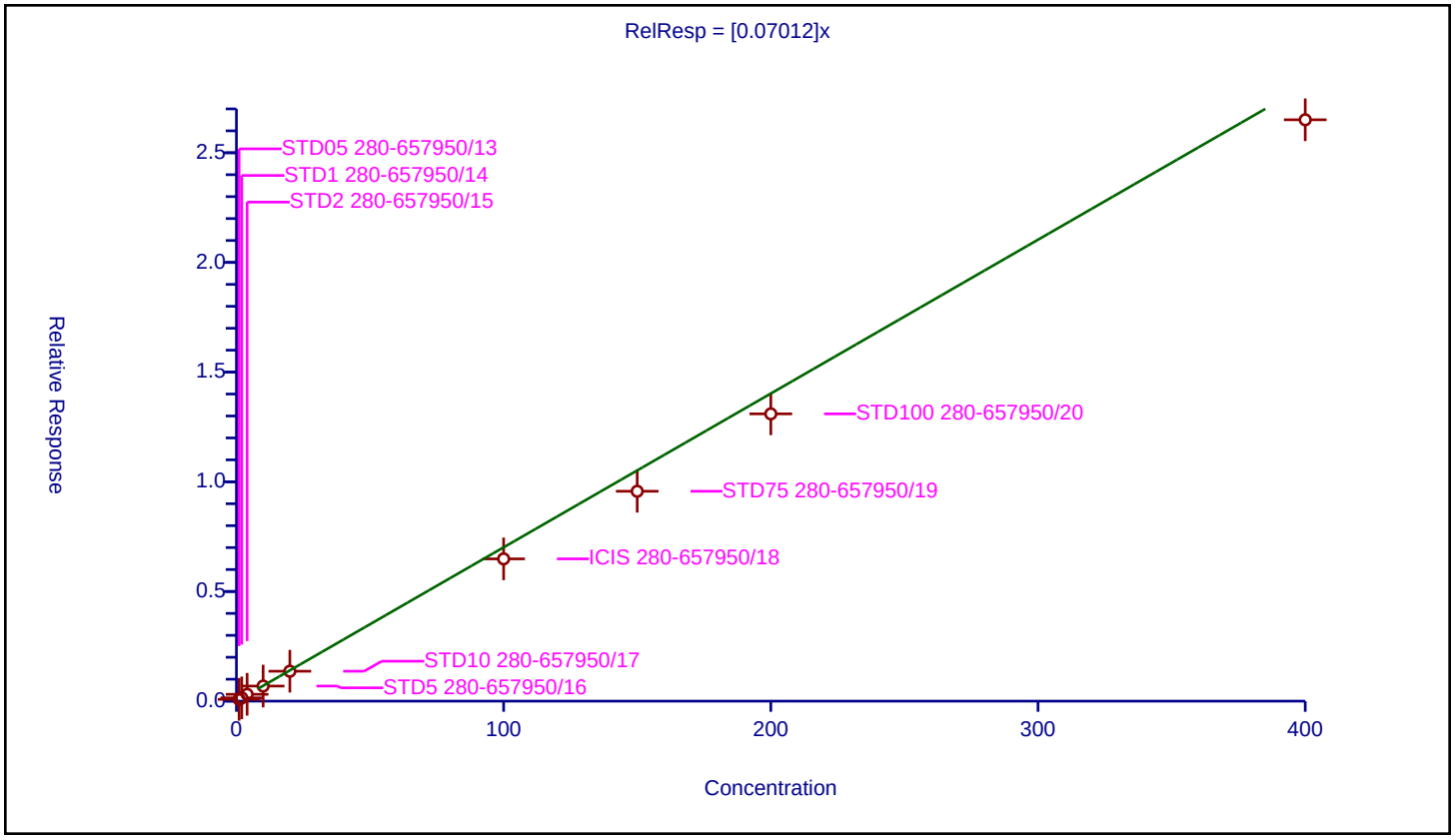
Curve Coefficients

Intercept:	0
Slope:	0.07012

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	1.0	0.080784	50.0	1689069.0	0.080784	Y
2	STD1 280-657950/14	2.0	0.150314	50.0	1673497.0	0.075157	Y
3	STD2 280-657950/15	4.0	0.310946	50.0	1696756.0	0.077737	Y
4	STD5 280-657950/16	10.0	0.688192	50.0	1698799.0	0.068819	Y
5	STD10 280-657950/17	20.0	1.363796	50.0	1675434.0	0.06819	Y
6	ICIS 280-657950/18	100.0	6.486277	50.0	1623913.0	0.064863	Y
7	STD75 280-657950/19	150.0	9.568557	50.0	1507871.0	0.06379	Y
8	STD100 280-657950/20	200.0	13.096598	50.0	1401341.0	0.065483	Y
9	STD200 280-657950/21	400.0	26.50337	50.0	1377023.0	0.066258	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

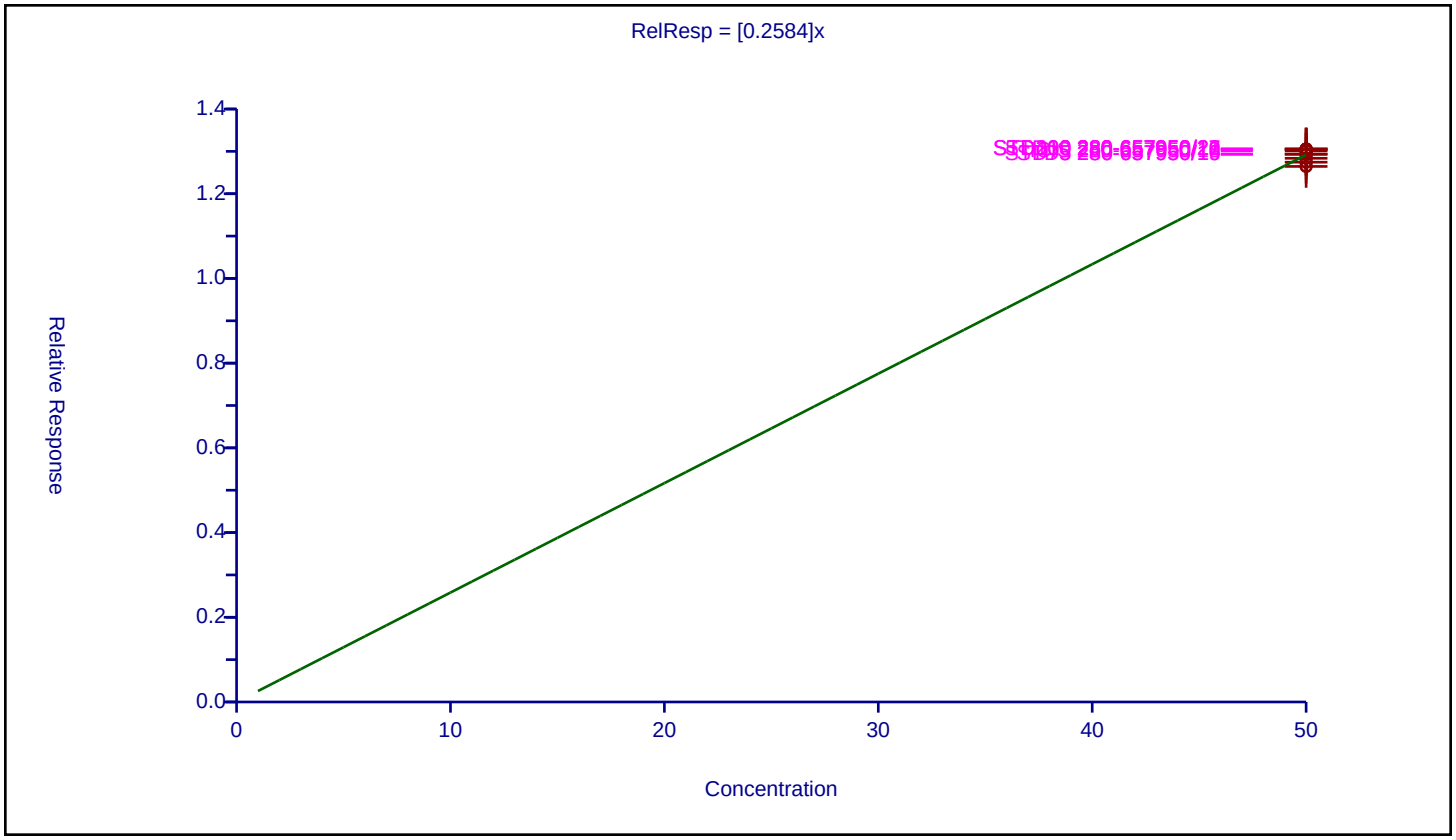
Curve Coefficients

Intercept:	0
Slope:	0.2584

Error Coefficients

Relative Standard Deviation:	1.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	50.0	12.644362	50.0	1689069.0	0.252887	Y
2	STD1 280-657950/14	50.0	12.836623	50.0	1673497.0	0.256732	Y
3	STD2 280-657950/15	50.0	12.744673	50.0	1696756.0	0.254893	Y
4	STD5 280-657950/16	50.0	12.93402	50.0	1698799.0	0.25868	Y
5	STD10 280-657950/17	50.0	13.054259	50.0	1675434.0	0.261085	Y
6	ICIS 280-657950/18	50.0	13.012551	50.0	1623913.0	0.260251	Y
7	STD75 280-657950/19	50.0	12.933368	50.0	1507871.0	0.258667	Y
8	STD100 280-657950/20	50.0	13.053604	50.0	1401341.0	0.261072	Y
9	STD200 280-657950/21	50.0	13.054067	50.0	1377023.0	0.261081	Y



7/5/2024
11:14:22 AM

Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

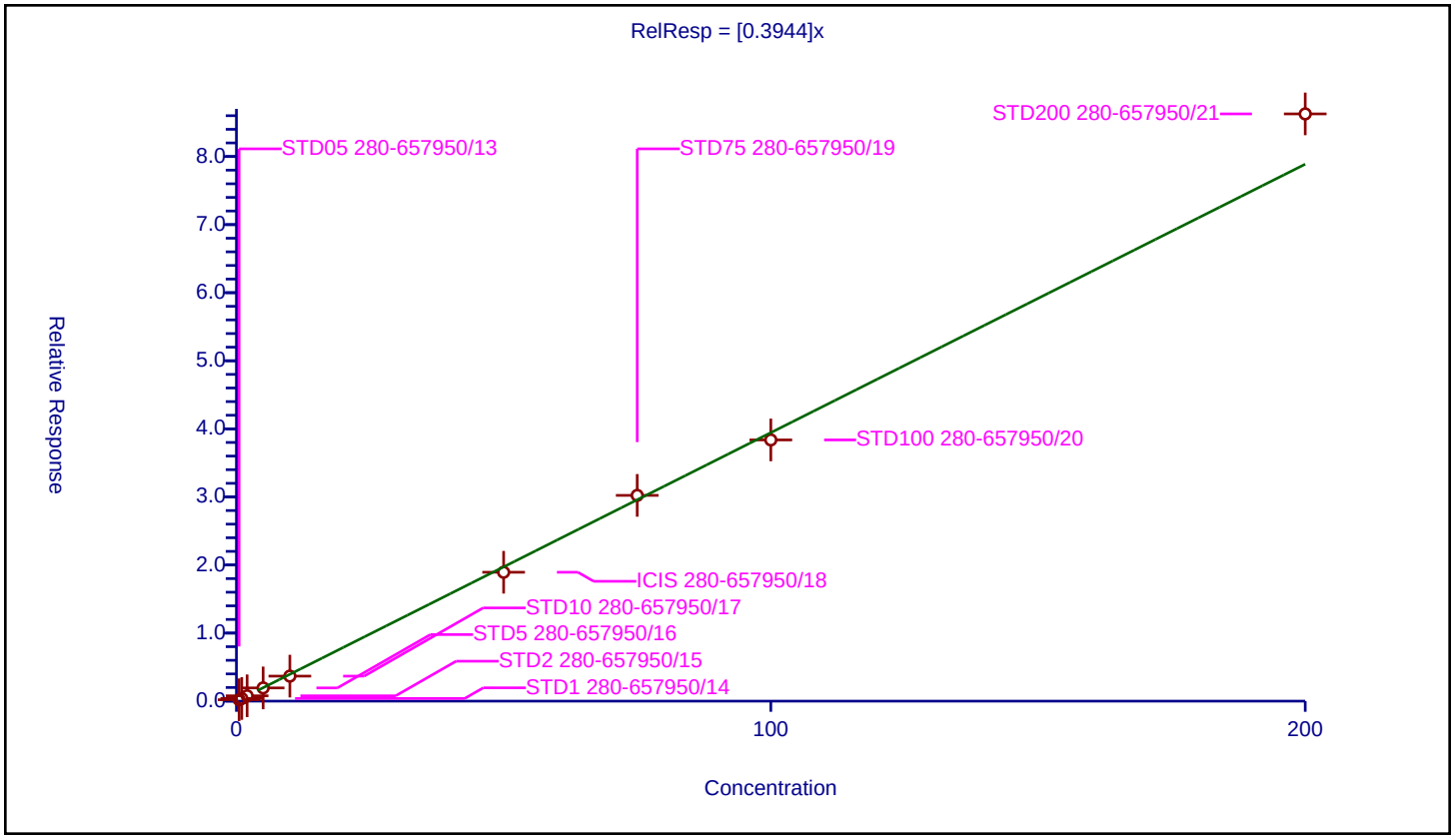
Curve Coefficients

Intercept:	0
Slope:	0.3944

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.206179	50.0	1689069.0	0.412357	Y
2	STD1 280-657950/14	1.0	0.390978	50.0	1673497.0	0.390978	Y
3	STD2 280-657950/15	2.0	0.785853	50.0	1696756.0	0.392926	Y
4	STD5 280-657950/16	5.0	1.944374	50.0	1698799.0	0.388875	Y
5	STD10 280-657950/17	10.0	3.676838	50.0	1675434.0	0.367684	Y
6	ICIS 280-657950/18	50.0	18.933311	50.0	1623913.0	0.378666	Y
7	STD75 280-657950/19	75.0	30.224668	50.0	1507871.0	0.402996	Y
8	STD100 280-657950/20	100.0	38.370033	50.0	1401341.0	0.3837	Y
9	STD200 280-657950/21	200.0	86.263737	50.0	1377023.0	0.431319	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

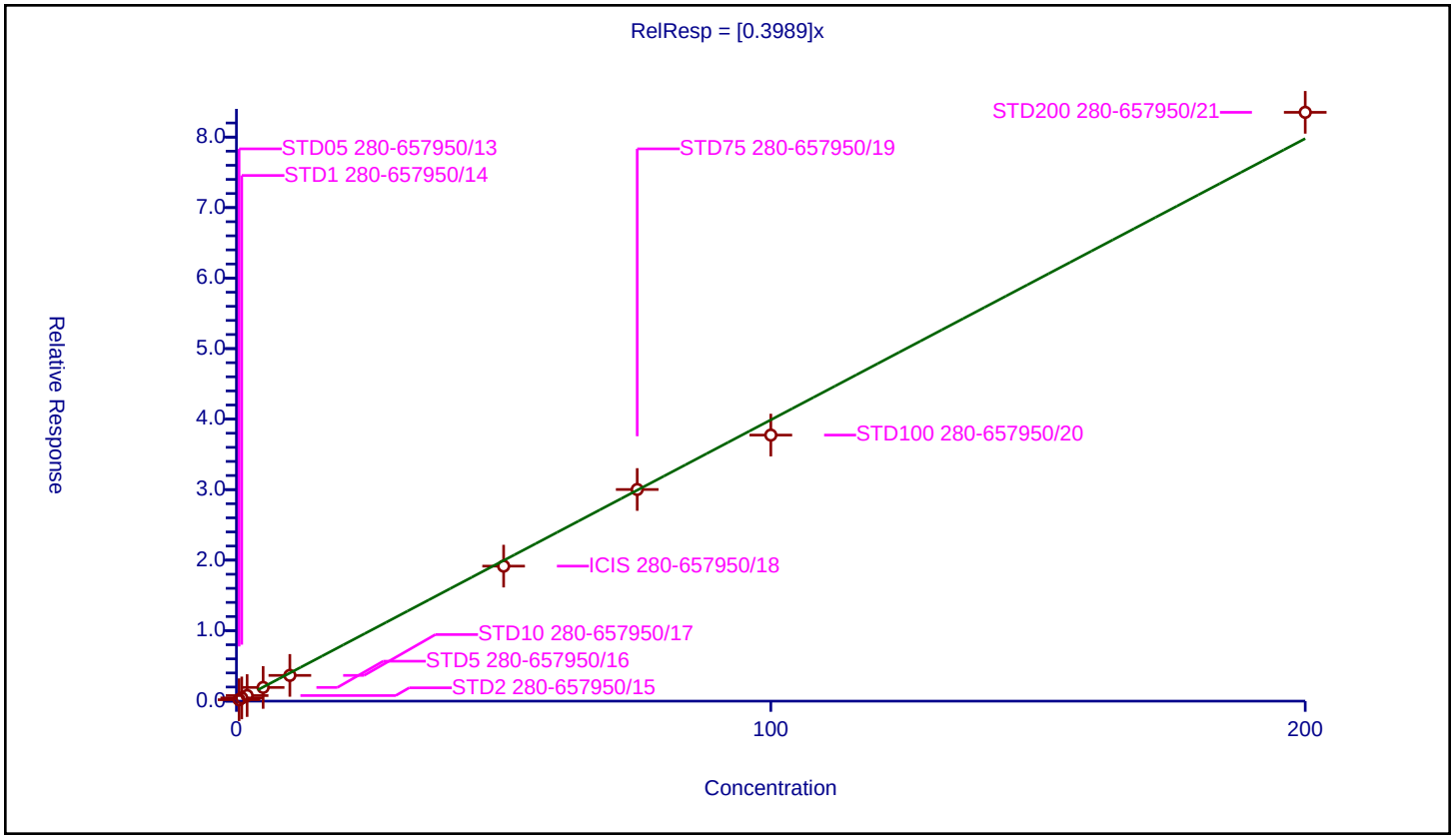
Curve Coefficients

Intercept:	0
Slope:	0.3989

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.203278	50.0	1689069.0	0.406555	Y
2	STD1 280-657950/14	1.0	0.455334	50.0	1673497.0	0.455334	Y
3	STD2 280-657950/15	2.0	0.792689	50.0	1696756.0	0.396345	Y
4	STD5 280-657950/16	5.0	1.94508	50.0	1698799.0	0.389016	Y
5	STD10 280-657950/17	10.0	3.650636	50.0	1675434.0	0.365064	Y
6	ICIS 280-657950/18	50.0	19.148809	50.0	1623913.0	0.382976	Y
7	STD75 280-657950/19	75.0	30.017057	50.0	1507871.0	0.400227	Y
8	STD100 280-657950/20	100.0	37.734891	50.0	1401341.0	0.377349	Y
9	STD200 280-657950/21	200.0	83.512476	50.0	1377023.0	0.417562	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

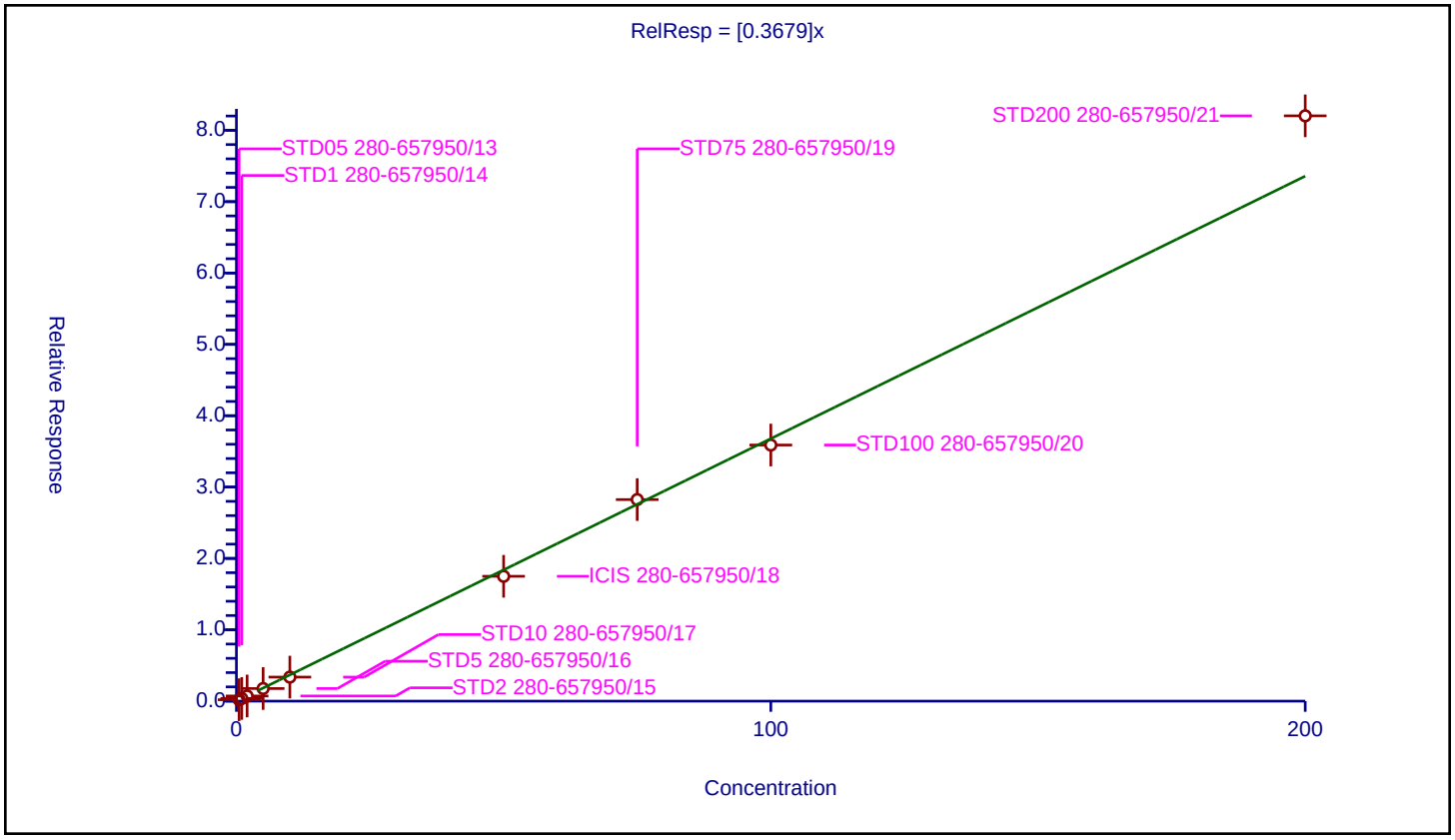
Curve Coefficients

Intercept:	0
Slope:	0.3679

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.195107	50.0	1689069.0	0.390215	Y
2	STD1 280-657950/14	1.0	0.373529	50.0	1673497.0	0.373529	Y
3	STD2 280-657950/15	2.0	0.722968	50.0	1696756.0	0.361484	Y
4	STD5 280-657950/16	5.0	1.76613	50.0	1698799.0	0.353226	Y
5	STD10 280-657950/17	10.0	3.368291	50.0	1675434.0	0.336829	Y
6	ICIS 280-657950/18	50.0	17.495857	50.0	1623913.0	0.349917	Y
7	STD75 280-657950/19	75.0	28.246614	50.0	1507871.0	0.376622	Y
8	STD100 280-657950/20	100.0	35.891514	50.0	1401341.0	0.358915	Y
9	STD200 280-657950/21	200.0	82.025101	50.0	1377023.0	0.410126	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

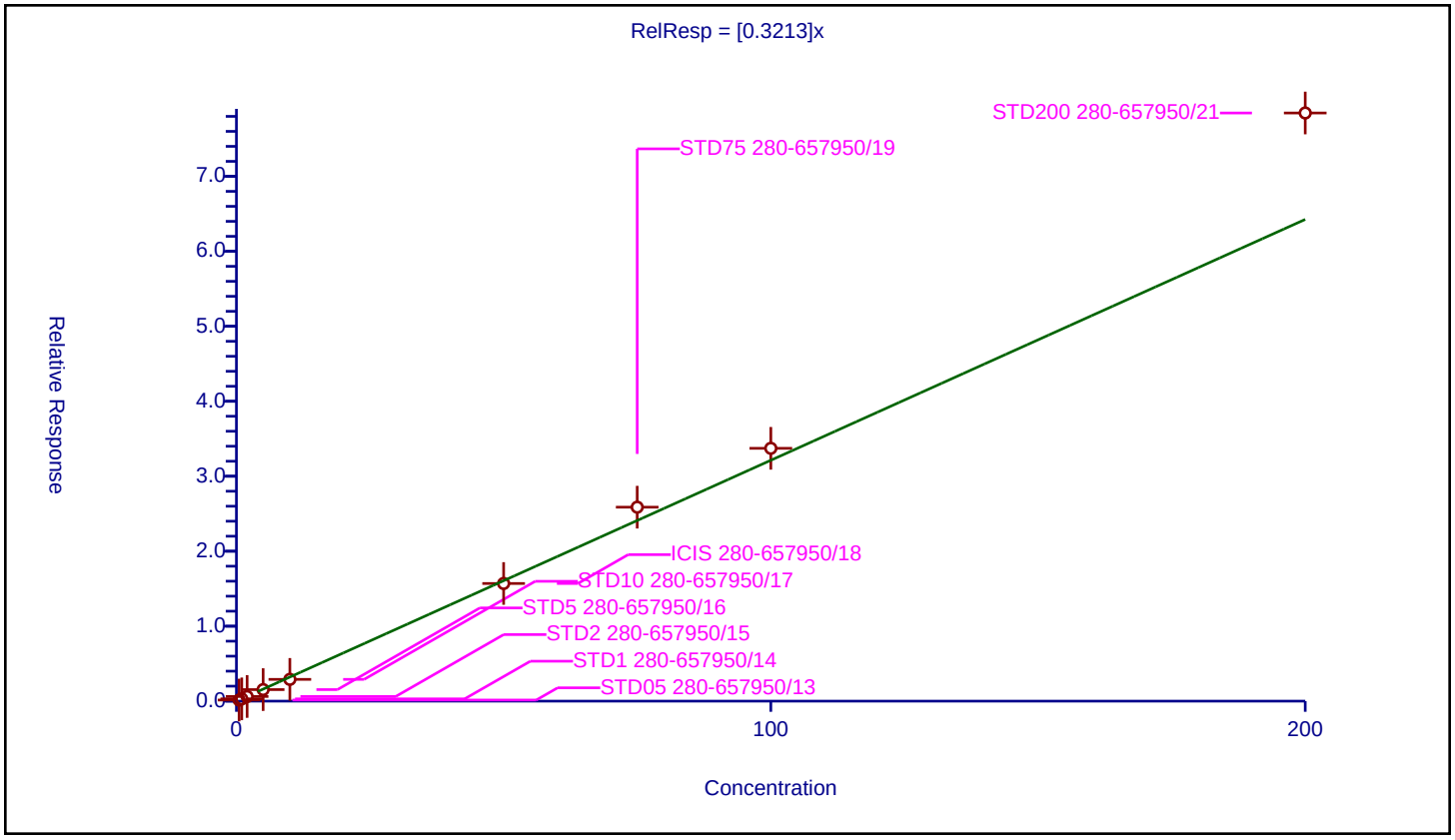
Curve Coefficients

Intercept:	0
Slope:	0.3213

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.146767	50.0	1689069.0	0.293534	Y
2	STD1 280-657950/14	1.0	0.302211	50.0	1673497.0	0.302211	Y
3	STD2 280-657950/15	2.0	0.61815	50.0	1696756.0	0.309075	Y
4	STD5 280-657950/16	5.0	1.539911	50.0	1698799.0	0.307982	Y
5	STD10 280-657950/17	10.0	2.903009	50.0	1675434.0	0.290301	Y
6	ICIS 280-657950/18	50.0	15.694929	50.0	1623913.0	0.313899	Y
7	STD75 280-657950/19	75.0	25.872538	50.0	1507871.0	0.344967	Y
8	STD100 280-657950/20	100.0	33.725267	50.0	1401341.0	0.337253	Y
9	STD200 280-657950/21	200.0	78.4537	50.0	1377023.0	0.392269	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

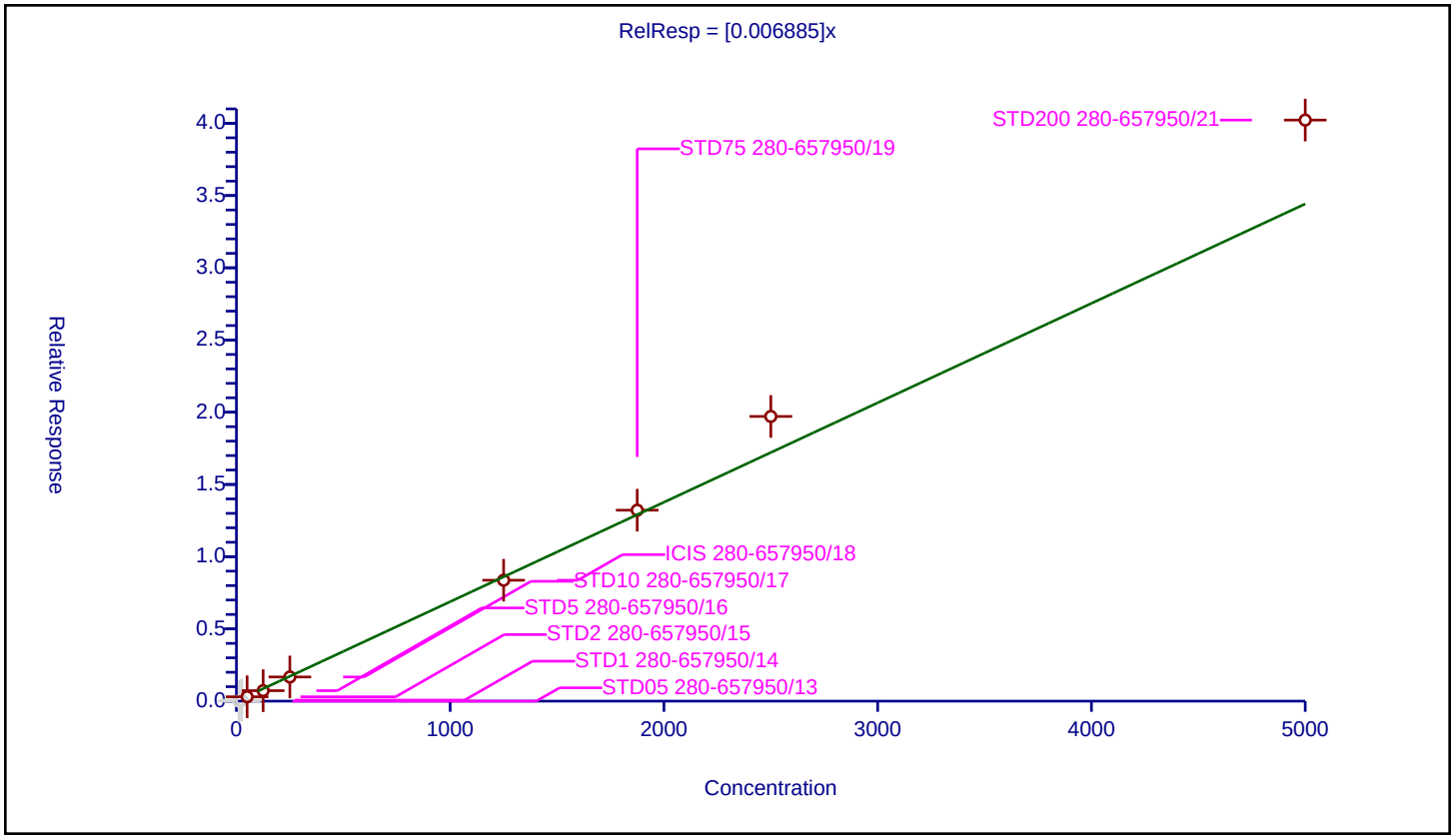
Curve Coefficients

Intercept:	0
Slope:	0.006885

Error Coefficients

Relative Standard Deviation:	12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	12.5	0.0	50.0	1689069.0	0.0	N
2	STD1 280-657950/14	25.0	0.07323	50.0	1673497.0	0.002929	N
3	STD2 280-657950/15	50.0	0.300898	50.0	1696756.0	0.006018	Y
4	STD5 280-657950/16	125.0	0.726072	50.0	1698799.0	0.005809	Y
5	STD10 280-657950/17	250.0	1.672522	50.0	1675434.0	0.00669	Y
6	ICIS 280-657950/18	1250.0	8.370399	50.0	1623913.0	0.006696	Y
7	STD75 280-657950/19	1875.0	13.218405	50.0	1507871.0	0.00705	Y
8	STD100 280-657950/20	2500.0	19.70905	50.0	1401341.0	0.007884	Y
9	STD200 280-657950/21	5000.0	40.226017	50.0	1377023.0	0.008045	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

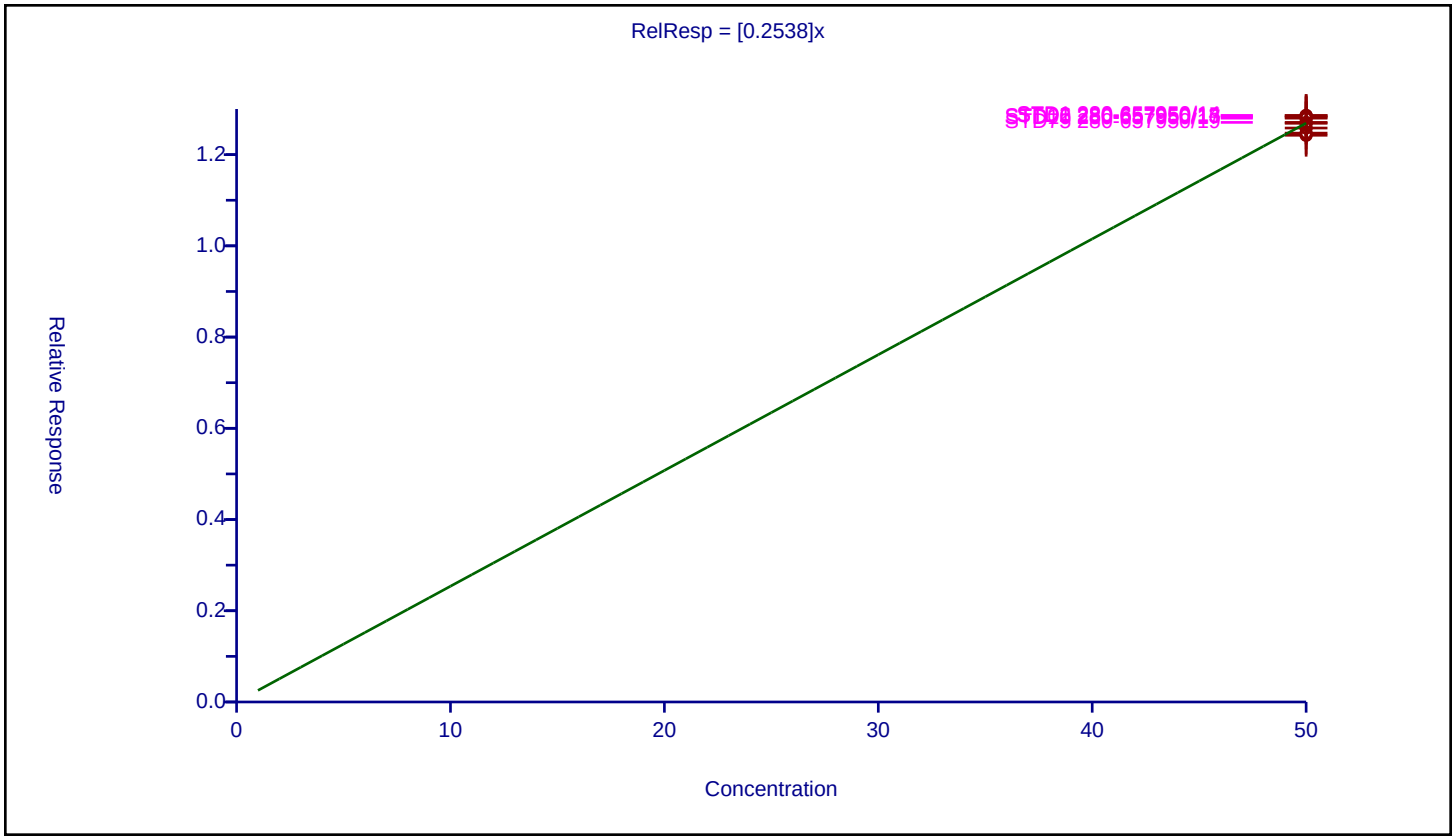
Curve Coefficients

Intercept:	0
Slope:	0.2538

Error Coefficients

Relative Standard Deviation:	1.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	50.0	12.821087	50.0	1689069.0	0.256422	Y
2	STD1 280-657950/14	50.0	12.857358	50.0	1673497.0	0.257147	Y
3	STD2 280-657950/15	50.0	12.854205	50.0	1696756.0	0.257084	Y
4	STD5 280-657950/16	50.0	12.424366	50.0	1698799.0	0.248487	Y
5	STD10 280-657950/17	50.0	12.79934	50.0	1675434.0	0.255987	Y
6	ICIS 280-657950/18	50.0	12.687164	50.0	1623913.0	0.253743	Y
7	STD75 280-657950/19	50.0	12.706259	50.0	1507871.0	0.254125	Y
8	STD100 280-657950/20	50.0	12.583197	50.0	1401341.0	0.251664	Y
9	STD200 280-657950/21	50.0	12.471614	50.0	1377023.0	0.249432	Y



7/5/2024
11:14:22 AM

Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

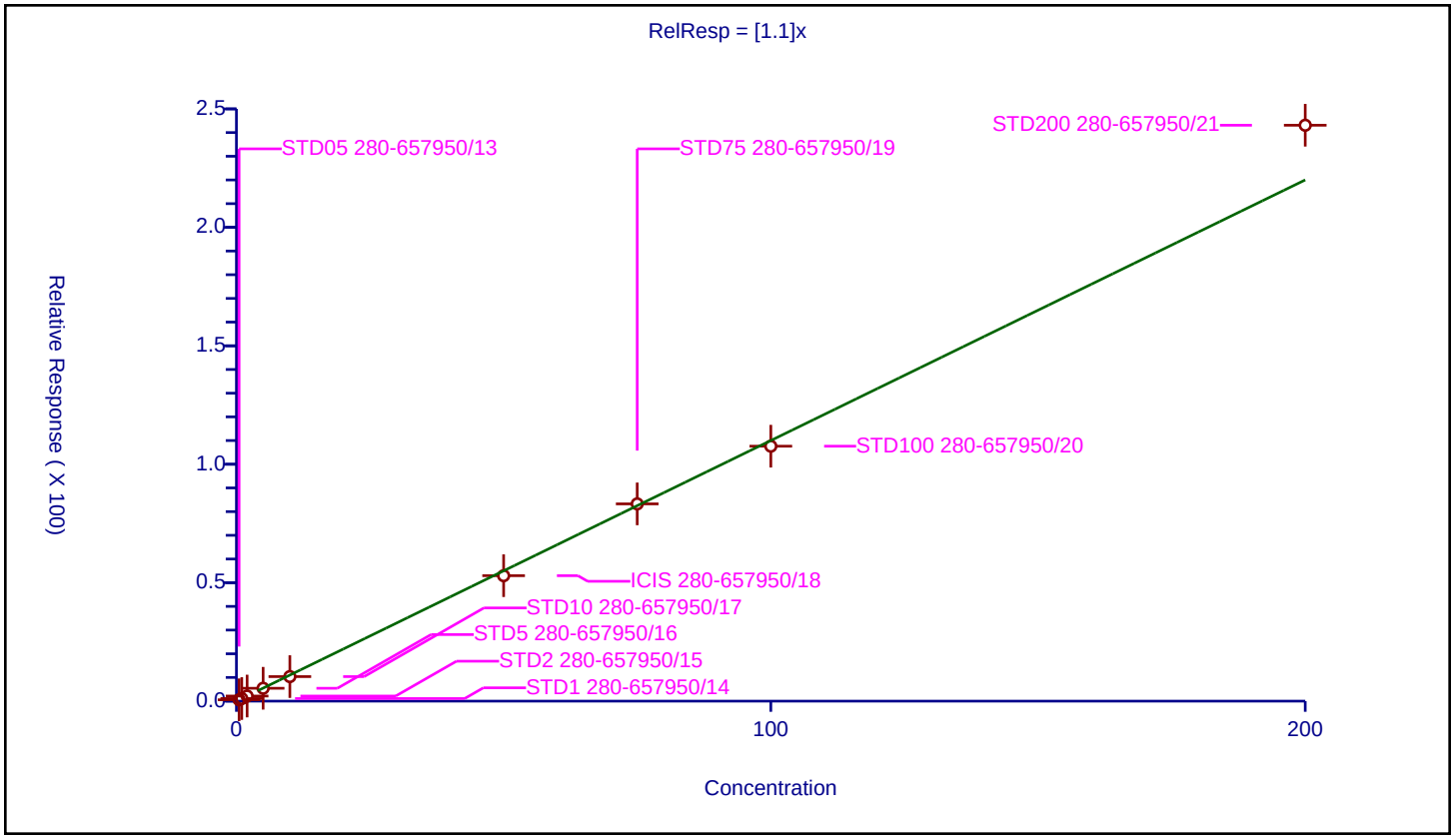
Curve Coefficients

Intercept:	0
Slope:	1.1

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.570048	50.0	1689069.0	1.140096	Y
2	STD1 280-657950/14	1.0	1.096596	50.0	1673497.0	1.096596	Y
3	STD2 280-657950/15	2.0	2.15744	50.0	1696756.0	1.07872	Y
4	STD5 280-657950/16	5.0	5.439549	50.0	1698799.0	1.08791	Y
5	STD10 280-657950/17	10.0	10.363494	50.0	1675434.0	1.036349	Y
6	ICIS 280-657950/18	50.0	52.953391	50.0	1623913.0	1.059068	Y
7	STD75 280-657950/19	75.0	83.265445	50.0	1507871.0	1.110206	Y
8	STD100 280-657950/20	100.0	107.619594	50.0	1401341.0	1.076196	Y
9	STD200 280-657950/21	200.0	243.093761	50.0	1377023.0	1.215469	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

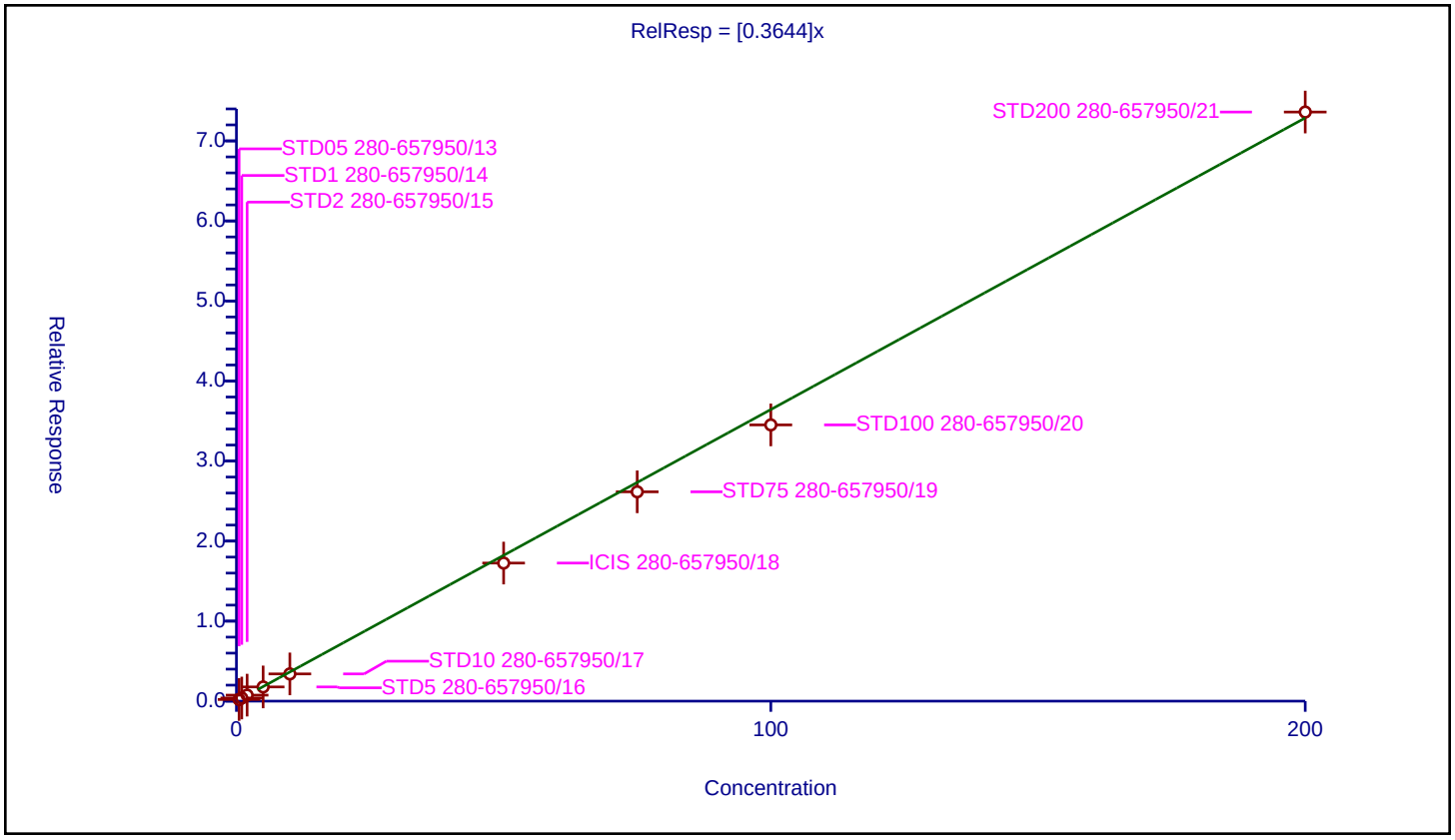
Curve Coefficients

Intercept:	0
Slope:	0.3644

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.205794	50.0	1689069.0	0.411588	Y
2	STD1 280-657950/14	1.0	0.391187	50.0	1673497.0	0.391187	Y
3	STD2 280-657950/15	2.0	0.74887	50.0	1696756.0	0.374435	Y
4	STD5 280-657950/16	5.0	1.774724	50.0	1698799.0	0.354945	Y
5	STD10 280-657950/17	10.0	3.401387	50.0	1675434.0	0.340139	Y
6	ICIS 280-657950/18	50.0	17.252187	50.0	1623913.0	0.345044	Y
7	STD75 280-657950/19	75.0	26.155586	50.0	1507871.0	0.348741	Y
8	STD100 280-657950/20	100.0	34.515261	50.0	1401341.0	0.345153	Y
9	STD200 280-657950/21	200.0	73.606868	50.0	1377023.0	0.368034	Y



7/5/2024
11:14:22 AM

Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

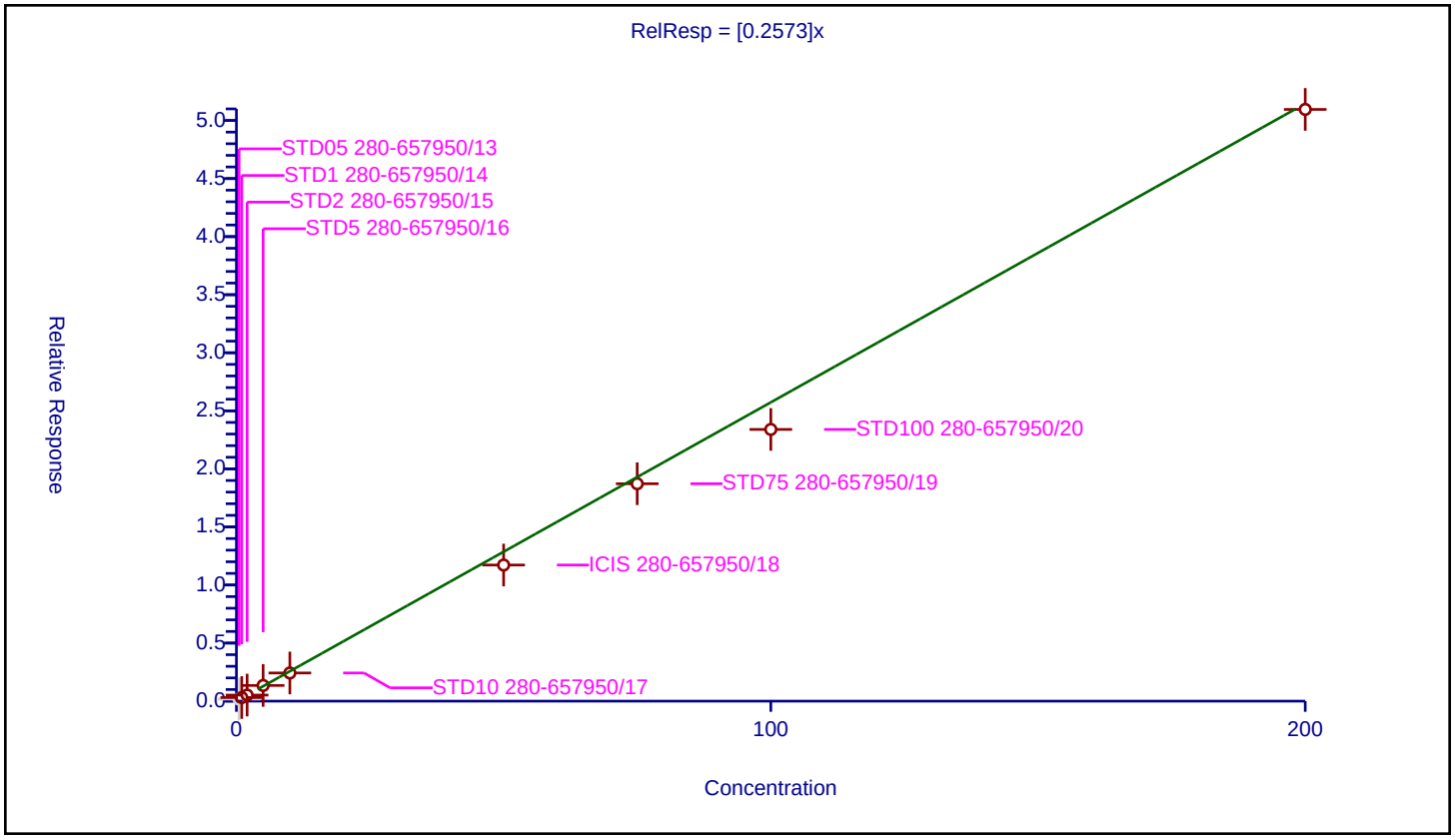
Curve Coefficients

Intercept:	0
Slope:	0.2573

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.176665	50.0	1689069.0	0.353331	N
2	STD1 280-657950/14	1.0	0.311832	50.0	1673497.0	0.311832	Y
3	STD2 280-657950/15	2.0	0.522792	50.0	1696756.0	0.261396	Y
4	STD5 280-657950/16	5.0	1.348982	50.0	1698799.0	0.269796	Y
5	STD10 280-657950/17	10.0	2.42558	50.0	1675434.0	0.242558	Y
6	ICIS 280-657950/18	50.0	11.721841	50.0	1623913.0	0.234437	Y
7	STD75 280-657950/19	75.0	18.720036	50.0	1507871.0	0.2496	Y
8	STD100 280-657950/20	100.0	23.396304	50.0	1401341.0	0.233963	Y
9	STD200 280-657950/21	200.0	50.95376	50.0	1377023.0	0.254769	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

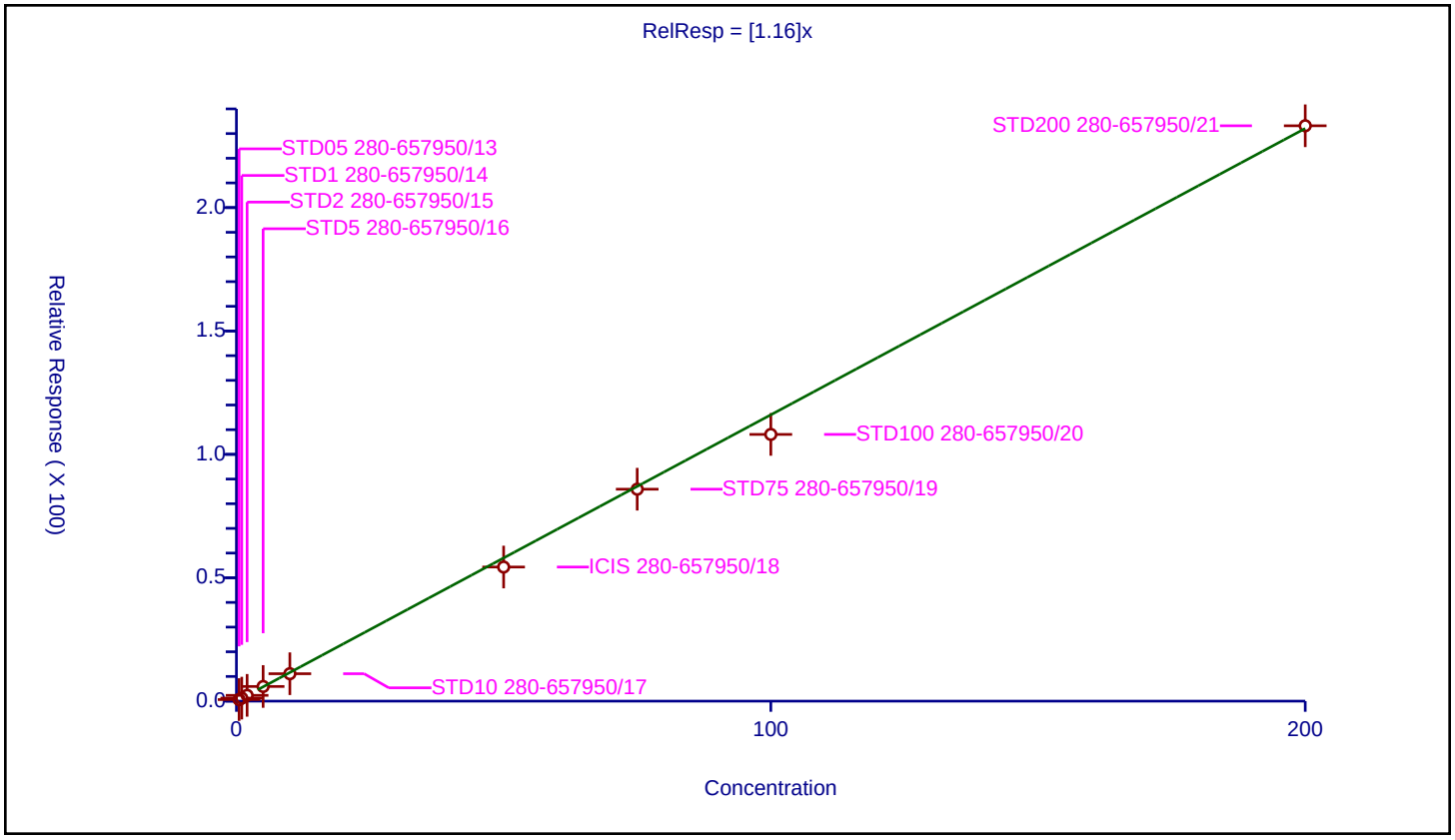
Curve Coefficients

Intercept:	0
Slope:	1.16

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.632706	50.0	400897.0	1.265412	Y
2	STD1 280-657950/14	1.0	1.225647	50.0	404521.0	1.225647	Y
3	STD2 280-657950/15	2.0	2.348663	50.0	405933.0	1.174332	Y
4	STD5 280-657950/16	5.0	5.93819	50.0	406437.0	1.187638	Y
5	STD10 280-657950/17	10.0	11.114737	50.0	398327.0	1.111474	Y
6	ICIS 280-657950/18	50.0	54.345821	50.0	398958.0	1.086916	Y
7	STD75 280-657950/19	75.0	85.882775	50.0	371029.0	1.145104	Y
8	STD100 280-657950/20	100.0	108.088099	50.0	356530.0	1.080881	Y
9	STD200 280-657950/21	200.0	233.154891	50.0	372390.0	1.165774	Y



Calibration / 2-Pentanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

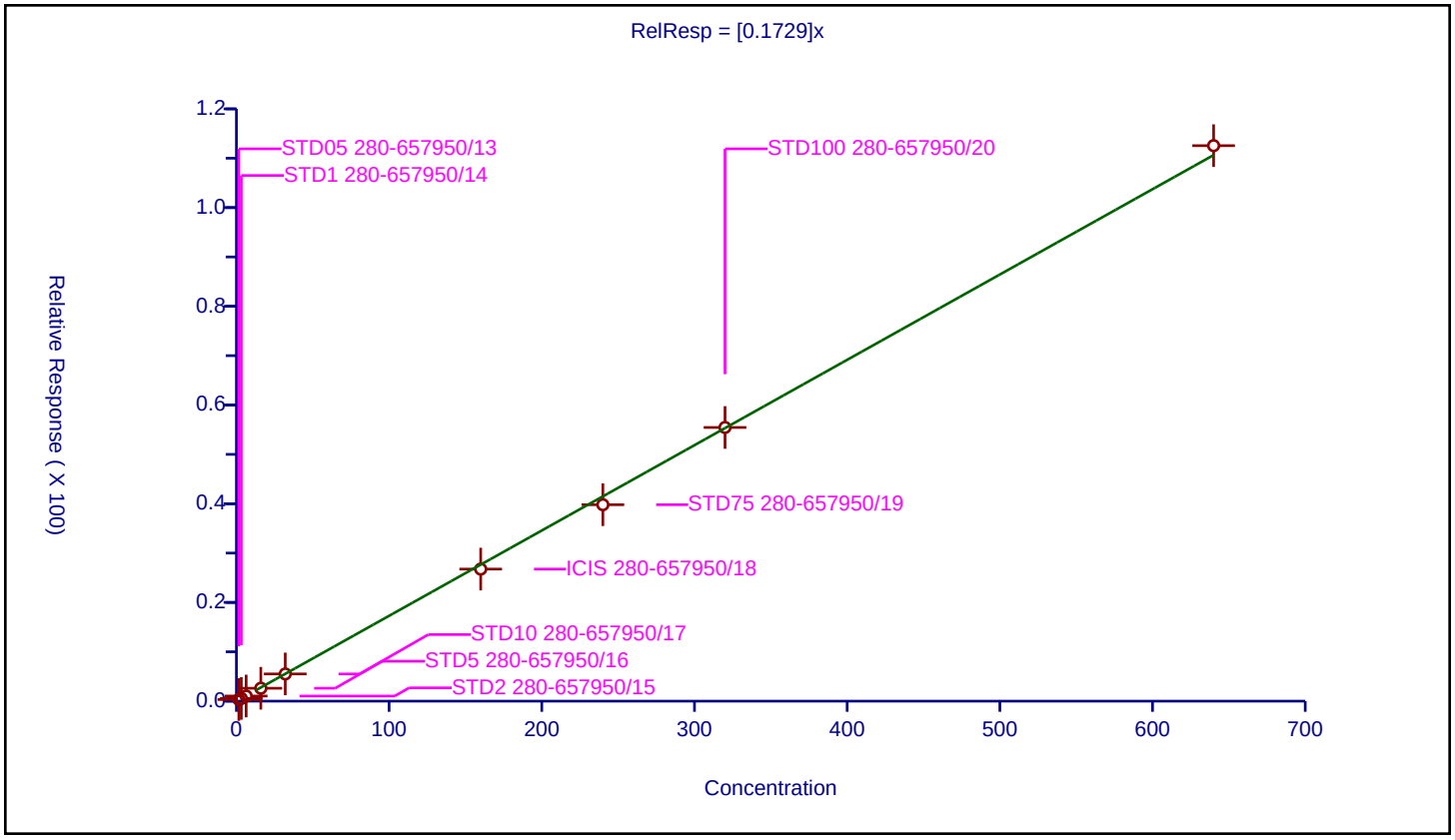
Curve Coefficients

Intercept:	0
Slope:	0.1729

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	1.6	0.324883	50.0	1689069.0	0.203052	Y
2	STD1 280-657950/14	3.2	0.553631	50.0	1673497.0	0.17301	Y
3	STD2 280-657950/15	6.4	1.037038	50.0	1696756.0	0.162037	Y
4	STD5 280-657950/16	16.0	2.612346	50.0	1698799.0	0.163272	Y
5	STD10 280-657950/17	32.0	5.513079	50.0	1675434.0	0.172284	Y
6	ICIS 280-657950/18	160.0	26.758207	50.0	1623913.0	0.167239	Y
7	STD75 280-657950/19	240.0	39.798332	50.0	1507871.0	0.165826	Y
8	STD100 280-657950/20	320.0	55.452955	50.0	1401341.0	0.17329	Y
9	STD200 280-657950/21	640.0	112.548156	50.0	1377023.0	0.175856	Y



7/5/2024
11:14:22 AM

Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

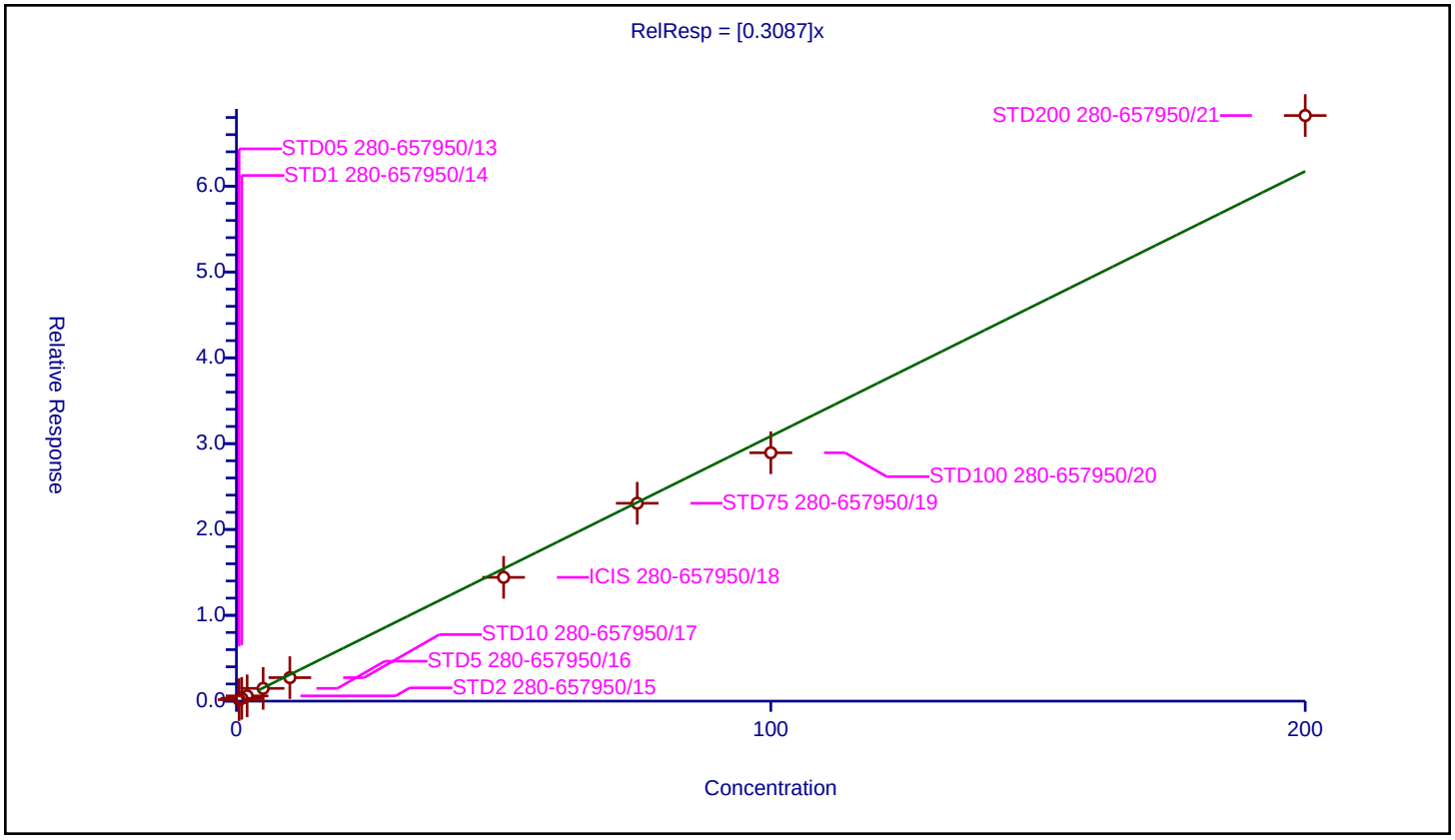
Curve Coefficients

Intercept:	0
Slope:	0.3087

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.17258	50.0	1689069.0	0.345161	Y
2	STD1 280-657950/14	1.0	0.328384	50.0	1673497.0	0.328384	Y
3	STD2 280-657950/15	2.0	0.613642	50.0	1696756.0	0.306821	Y
4	STD5 280-657950/16	5.0	1.487404	50.0	1698799.0	0.297481	Y
5	STD10 280-657950/17	10.0	2.738037	50.0	1675434.0	0.273804	Y
6	ICIS 280-657950/18	50.0	14.422417	50.0	1623913.0	0.288448	Y
7	STD75 280-657950/19	75.0	23.053199	50.0	1507871.0	0.307376	Y
8	STD100 280-657950/20	100.0	28.937532	50.0	1401341.0	0.289375	Y
9	STD200 280-657950/21	200.0	68.226239	50.0	1377023.0	0.341131	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

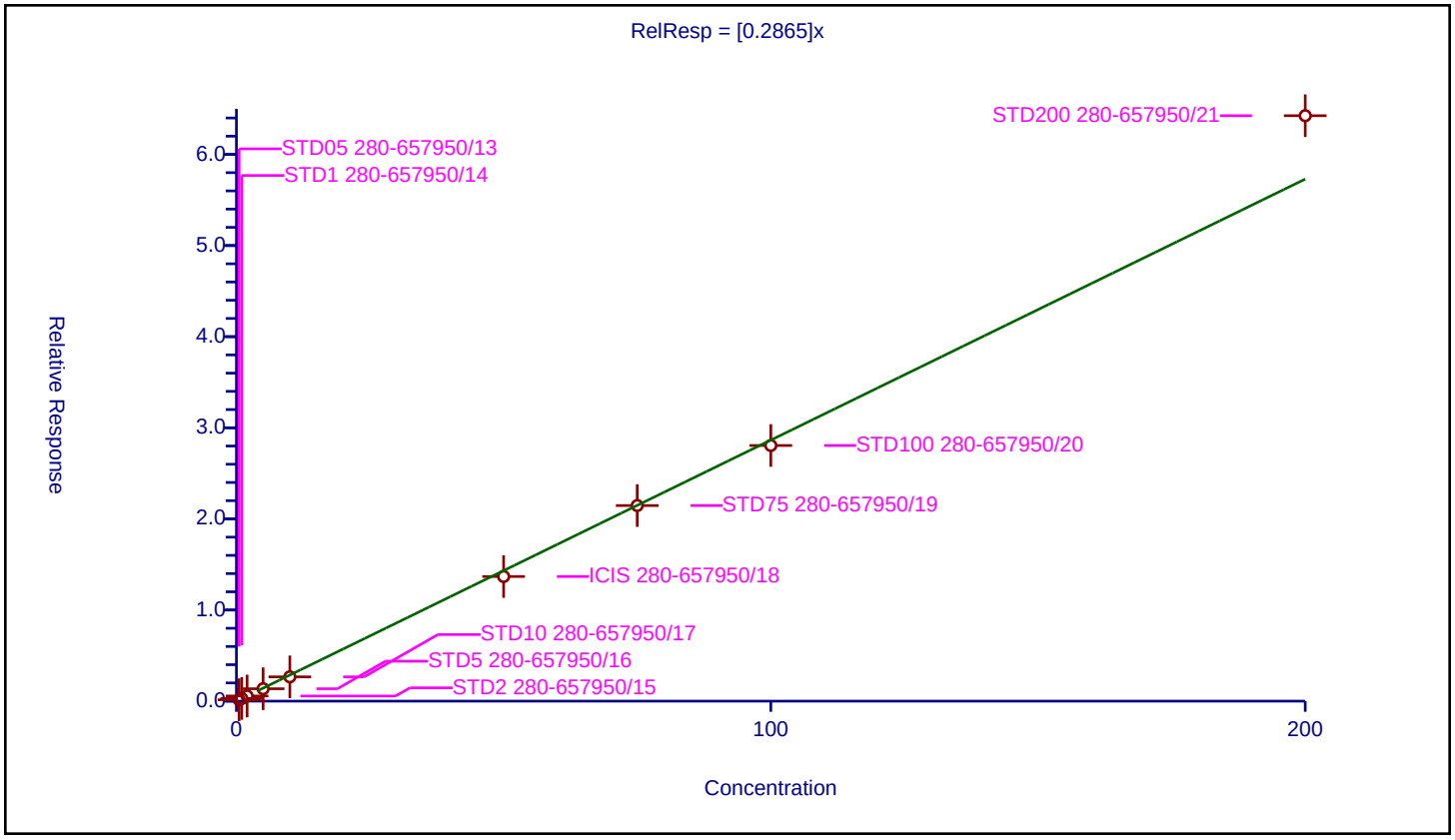
Curve Coefficients

Intercept:	0
Slope:	0.2865

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.149935	50.0	1689069.0	0.299869	Y
2	STD1 280-657950/14	1.0	0.294384	50.0	1673497.0	0.294384	Y
3	STD2 280-657950/15	2.0	0.567023	50.0	1696756.0	0.283512	Y
4	STD5 280-657950/16	5.0	1.360255	50.0	1698799.0	0.272051	Y
5	STD10 280-657950/17	10.0	2.668055	50.0	1675434.0	0.266805	Y
6	ICIS 280-657950/18	50.0	13.677734	50.0	1623913.0	0.273555	Y
7	STD75 280-657950/19	75.0	21.465298	50.0	1507871.0	0.286204	Y
8	STD100 280-657950/20	100.0	28.056911	50.0	1401341.0	0.280569	Y
9	STD200 280-657950/21	200.0	64.250379	50.0	1377023.0	0.321252	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

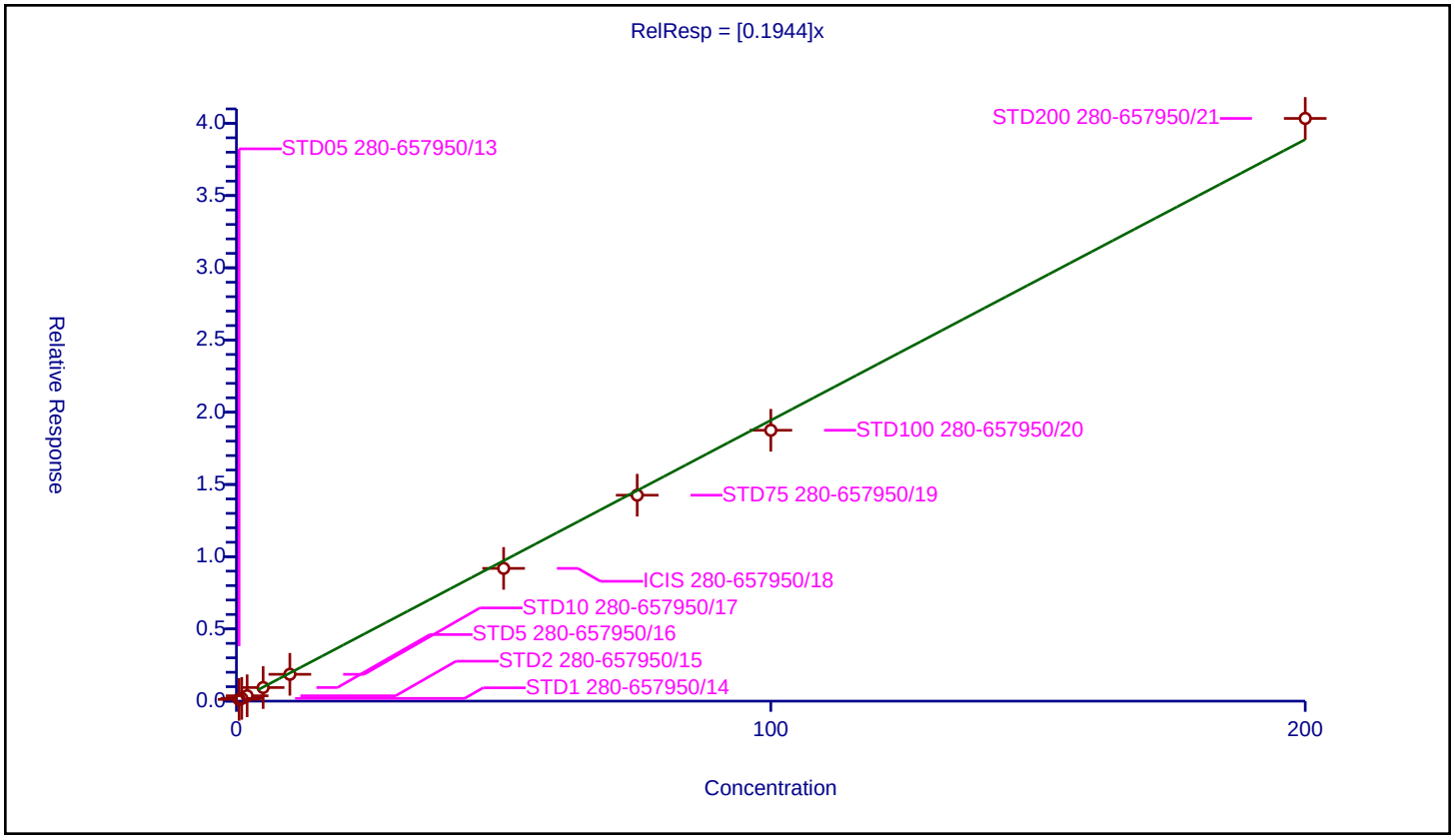
Curve Coefficients

Intercept:	0
Slope:	0.1944

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.118645	50.0	1689069.0	0.23729	Y
2	STD1 280-657950/14	1.0	0.190021	50.0	1673497.0	0.190021	Y
3	STD2 280-657950/15	2.0	0.370707	50.0	1696756.0	0.185354	Y
4	STD5 280-657950/16	5.0	0.94037	50.0	1698799.0	0.188074	Y
5	STD10 280-657950/17	10.0	1.857937	50.0	1675434.0	0.185794	Y
6	ICIS 280-657950/18	50.0	9.190086	50.0	1623913.0	0.183802	Y
7	STD75 280-657950/19	75.0	14.256392	50.0	1507871.0	0.190085	Y
8	STD100 280-657950/20	100.0	18.751967	50.0	1401341.0	0.18752	Y
9	STD200 280-657950/21	200.0	40.340466	50.0	1377023.0	0.201702	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

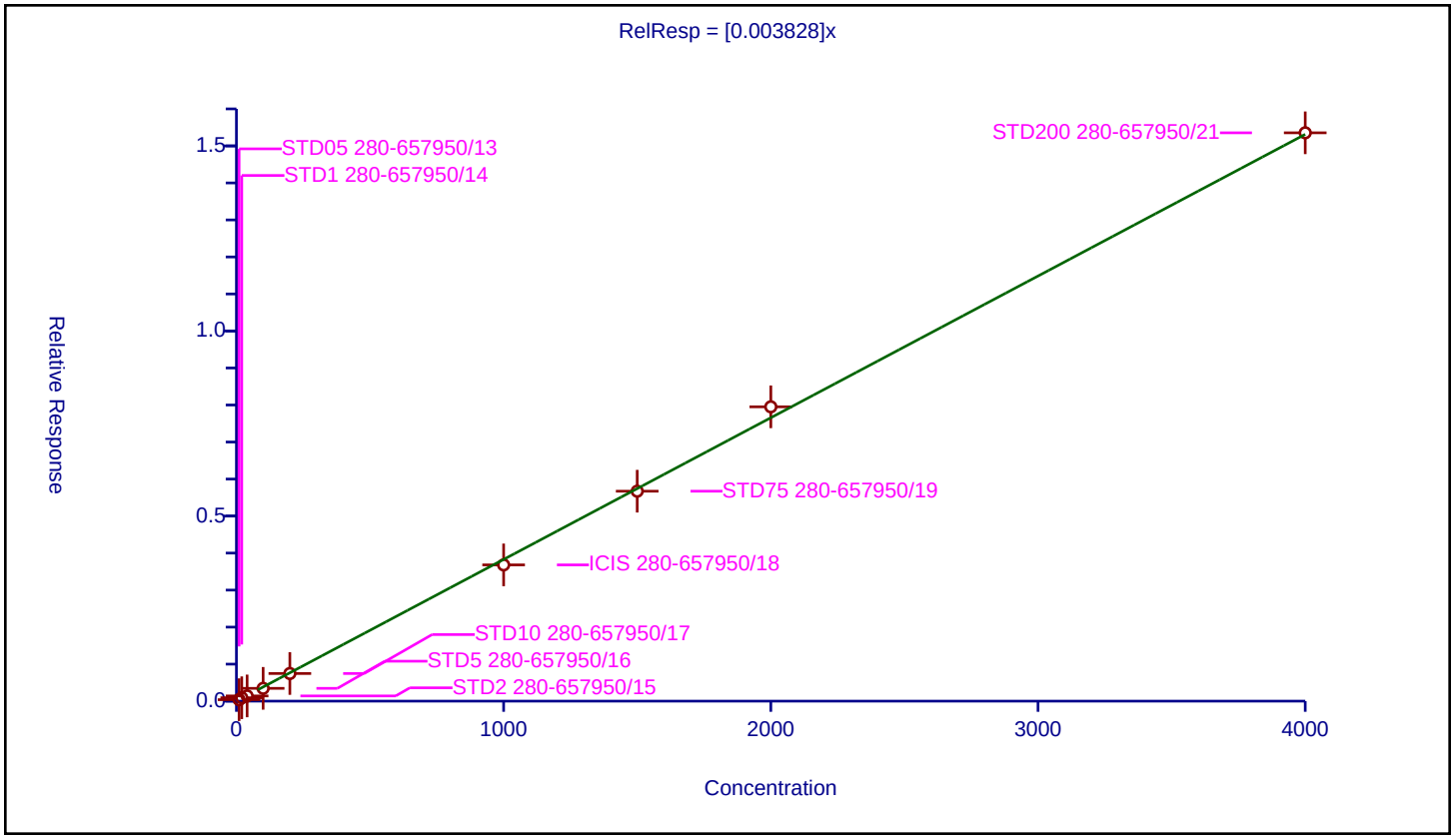
Curve Coefficients

Intercept:	0
Slope:	0.003828

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	10.0	0.039016	50.0	1689069.0	0.003902	Y
2	STD1 280-657950/14	20.0	0.091395	50.0	1673497.0	0.00457	Y
3	STD2 280-657950/15	40.0	0.140739	50.0	1696756.0	0.003518	Y
4	STD5 280-657950/16	100.0	0.345627	50.0	1698799.0	0.003456	Y
5	STD10 280-657950/17	200.0	0.746314	50.0	1675434.0	0.003732	Y
6	ICIS 280-657950/18	1000.0	3.680893	50.0	1623913.0	0.003681	Y
7	STD75 280-657950/19	1500.0	5.671805	50.0	1507871.0	0.003781	Y
8	STD100 280-657950/20	2000.0	7.951526	50.0	1401341.0	0.003976	Y
9	STD200 280-657950/21	4000.0	15.353629	50.0	1377023.0	0.003838	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

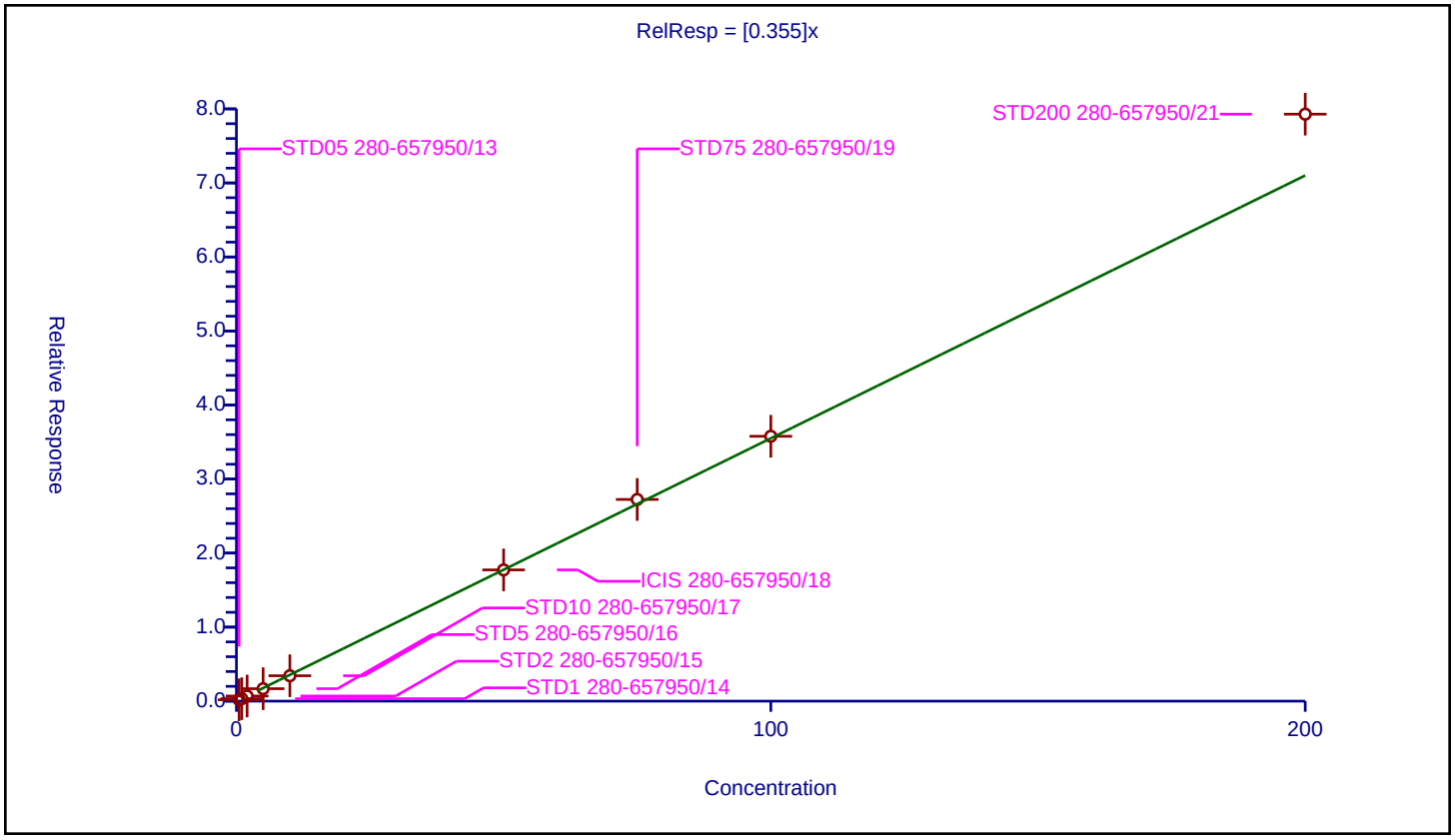
Curve Coefficients

Intercept:	0
Slope:	0.355

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.182615	50.0	1689069.0	0.365231	Y
2	STD1 280-657950/14	1.0	0.332149	50.0	1673497.0	0.332149	Y
3	STD2 280-657950/15	2.0	0.692999	50.0	1696756.0	0.346499	Y
4	STD5 280-657950/16	5.0	1.681629	50.0	1698799.0	0.336326	Y
5	STD10 280-657950/17	10.0	3.430454	50.0	1675434.0	0.343045	Y
6	ICIS 280-657950/18	50.0	17.727551	50.0	1623913.0	0.354551	Y
7	STD75 280-657950/19	75.0	27.244506	50.0	1507871.0	0.36326	Y
8	STD100 280-657950/20	100.0	35.778907	50.0	1401341.0	0.357789	Y
9	STD200 280-657950/21	200.0	79.288872	50.0	1377023.0	0.396444	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

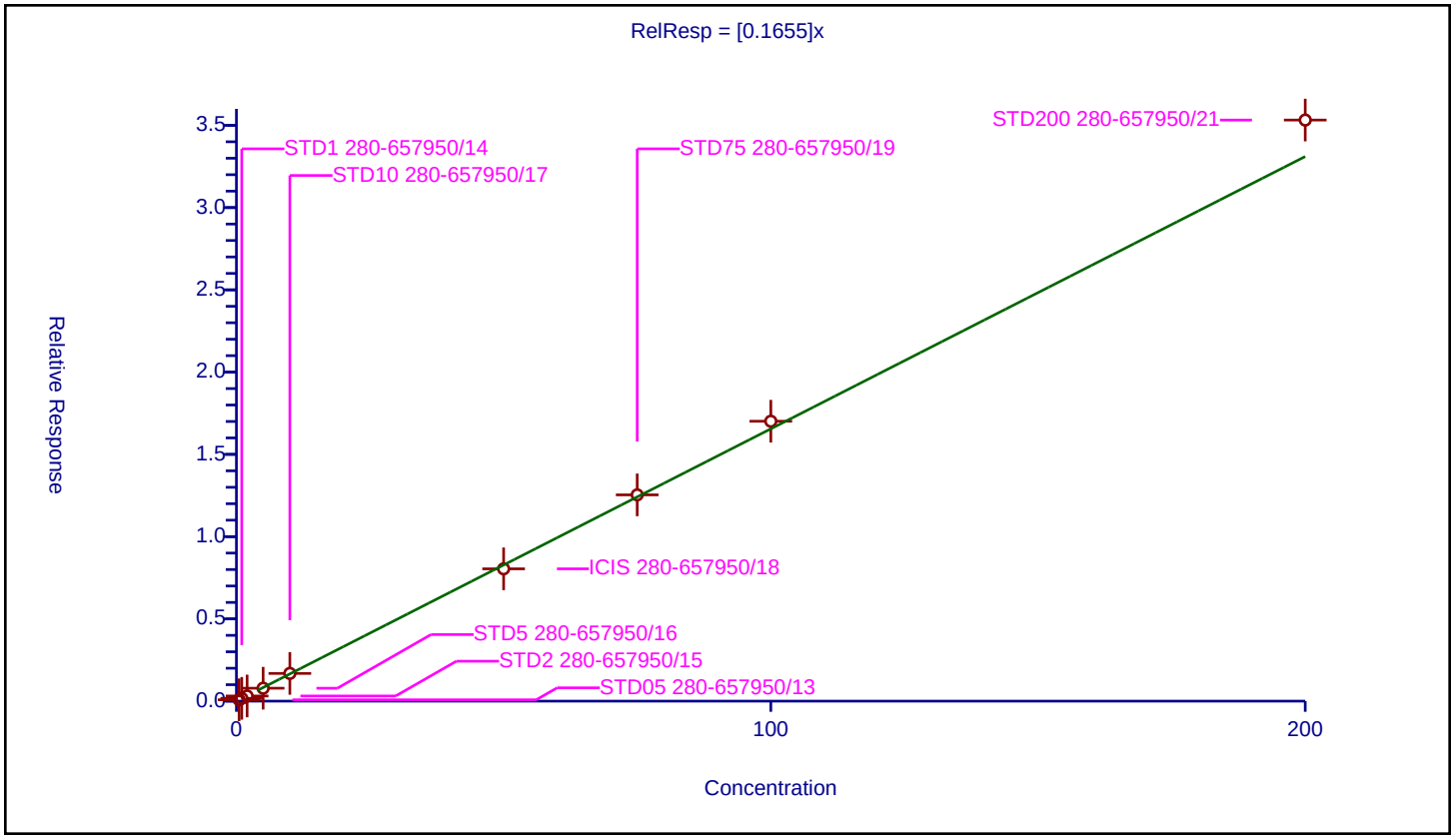
Curve Coefficients

Intercept:	0
Slope:	0.1655

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.081228	50.0	1689069.0	0.162456	Y
2	STD1 280-657950/14	1.0	0.170033	50.0	1673497.0	0.170033	Y
3	STD2 280-657950/15	2.0	0.313628	50.0	1696756.0	0.156814	Y
4	STD5 280-657950/16	5.0	0.785908	50.0	1698799.0	0.157182	Y
5	STD10 280-657950/17	10.0	1.685265	50.0	1675434.0	0.168526	Y
6	ICIS 280-657950/18	50.0	8.041441	50.0	1623913.0	0.160829	Y
7	STD75 280-657950/19	75.0	12.538606	50.0	1507871.0	0.167181	Y
8	STD100 280-657950/20	100.0	17.014239	50.0	1401341.0	0.170142	Y
9	STD200 280-657950/21	200.0	35.321632	50.0	1377023.0	0.176608	Y



7/5/2024
11:14:22 AM

Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

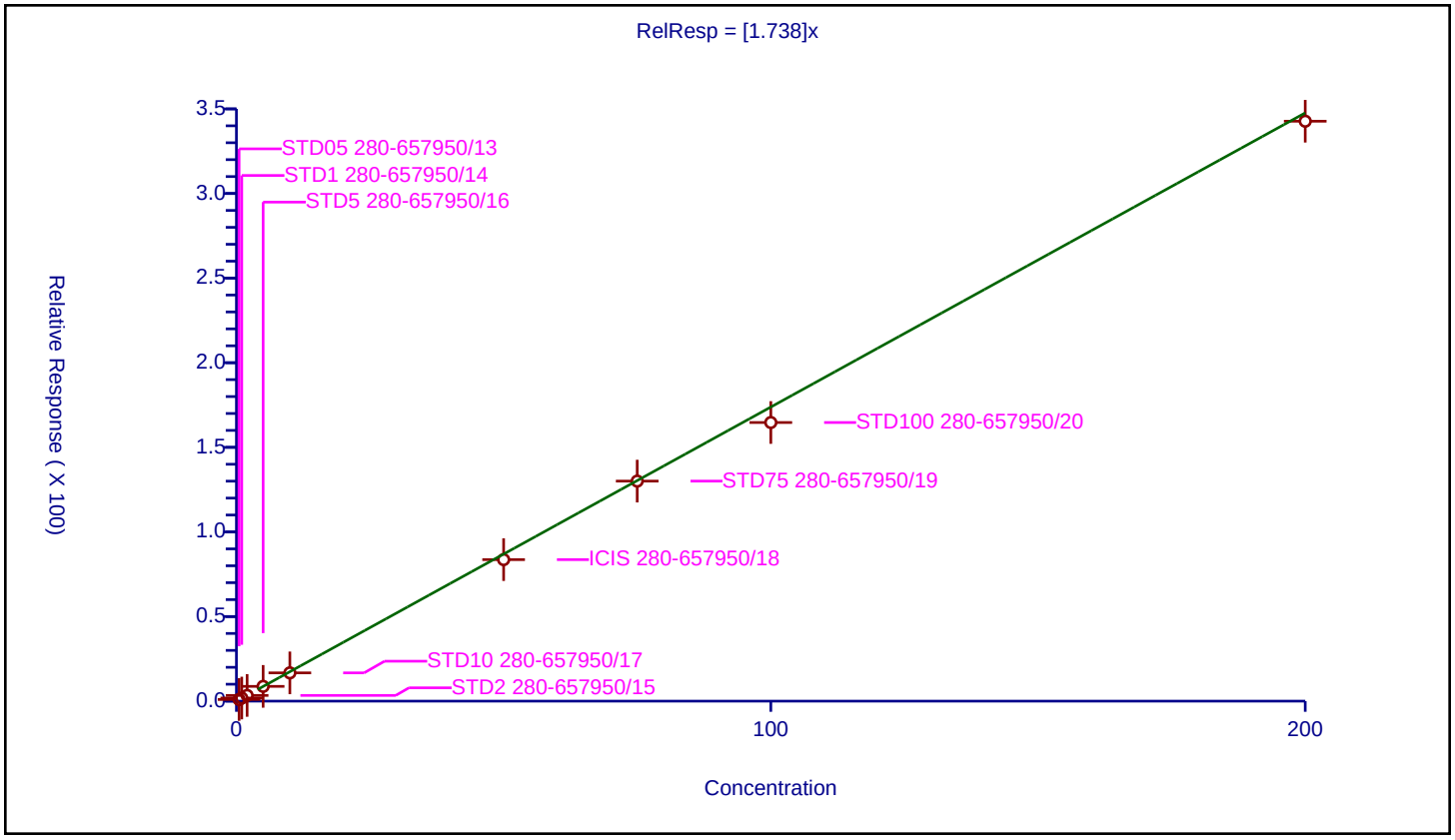
Curve Coefficients

Intercept:	0
Slope:	1.738

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.968578	50.0	400897.0	1.937156	Y
2	STD1 280-657950/14	1.0	1.832661	50.0	404521.0	1.832661	Y
3	STD2 280-657950/15	2.0	3.378267	50.0	405933.0	1.689133	Y
4	STD5 280-657950/16	5.0	8.733334	50.0	406437.0	1.746667	Y
5	STD10 280-657950/17	10.0	16.702232	50.0	398327.0	1.670223	Y
6	ICIS 280-657950/18	50.0	83.641636	50.0	398958.0	1.672833	Y
7	STD75 280-657950/19	75.0	130.040374	50.0	371029.0	1.733872	Y
8	STD100 280-657950/20	100.0	164.657673	50.0	356530.0	1.646577	Y
9	STD200 280-657950/21	200.0	342.71691	50.0	372390.0	1.713585	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

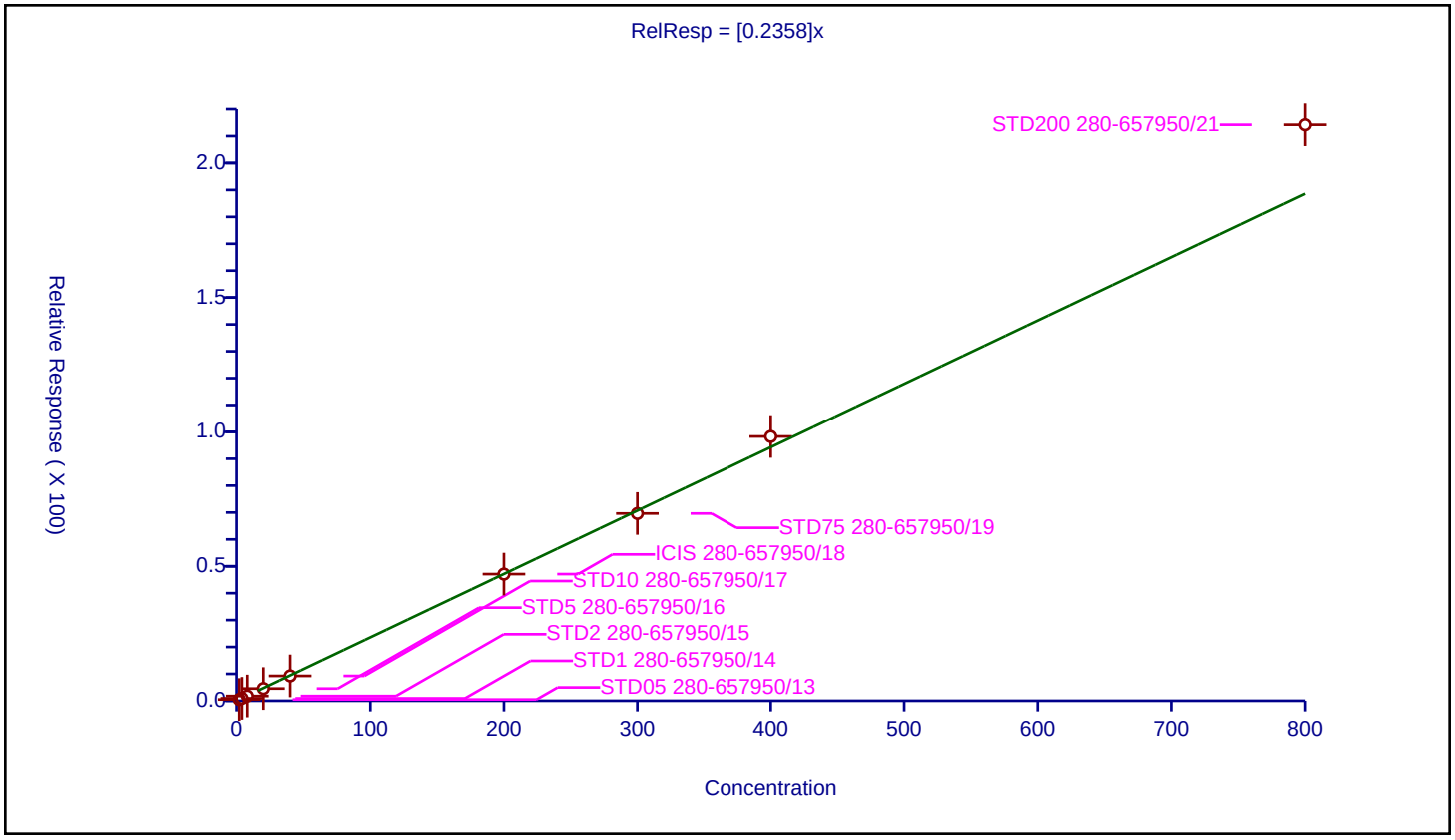
Curve Coefficients

Intercept:	0
Slope:	0.2358

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	2.0	0.469341	50.0	1689069.0	0.234671	Y
2	STD1 280-657950/14	4.0	0.905499	50.0	1673497.0	0.226375	Y
3	STD2 280-657950/15	8.0	1.771822	50.0	1696756.0	0.221478	Y
4	STD5 280-657950/16	20.0	4.538324	50.0	1698799.0	0.226916	Y
5	STD10 280-657950/17	40.0	9.246201	50.0	1675434.0	0.231155	Y
6	ICIS 280-657950/18	200.0	47.099845	50.0	1623913.0	0.235499	Y
7	STD75 280-657950/19	300.0	69.646972	50.0	1507871.0	0.232157	Y
8	STD100 280-657950/20	400.0	98.300521	50.0	1401341.0	0.245751	Y
9	STD200 280-657950/21	800.0	214.199363	50.0	1377023.0	0.267749	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

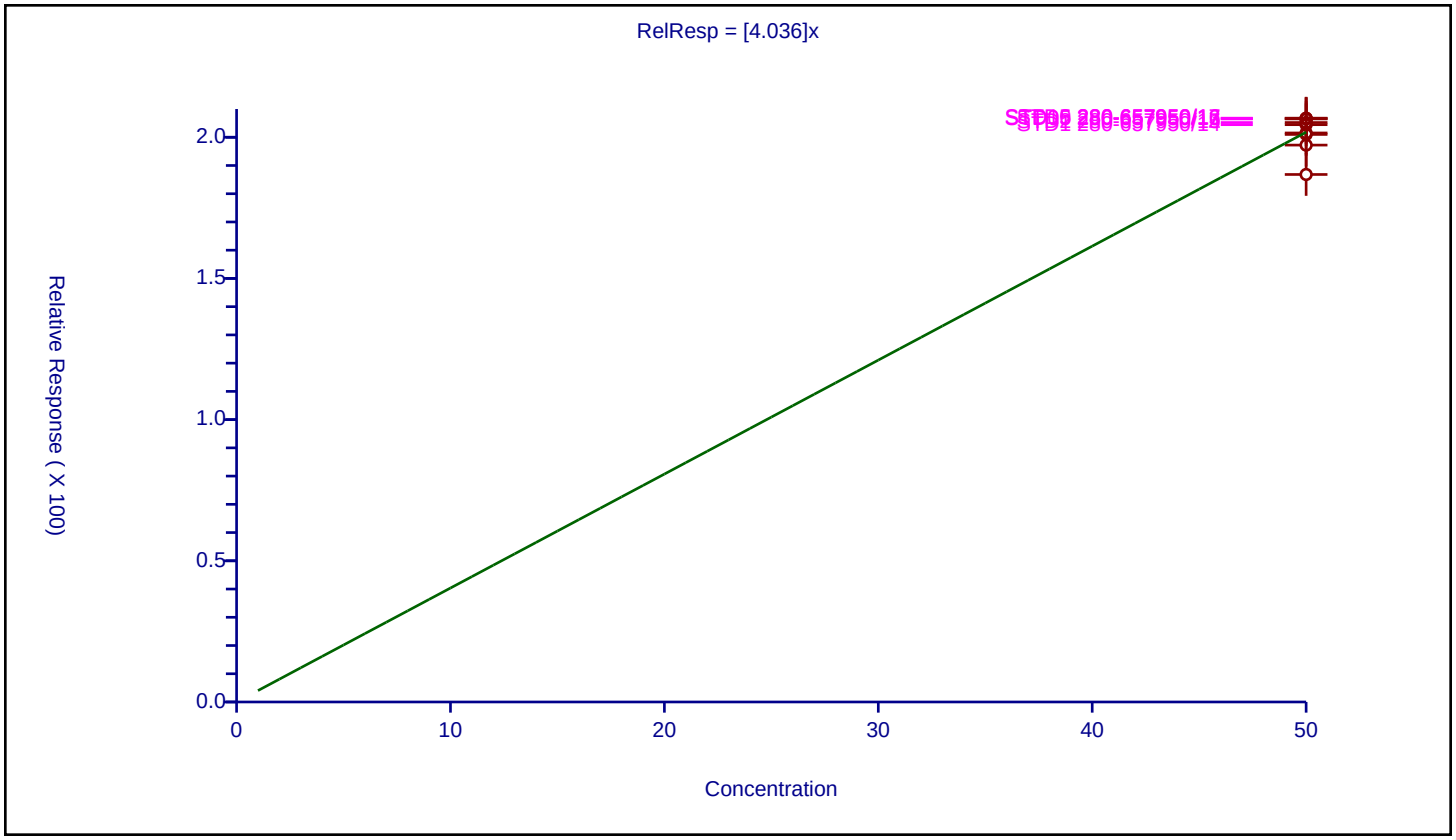
Curve Coefficients

Intercept:	0
Slope:	4.036

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	50.0	206.498178	50.0	400897.0	4.129964	Y
2	STD1 280-657950/14	50.0	204.449089	50.0	404521.0	4.088982	Y
3	STD2 280-657950/15	50.0	205.213915	50.0	405933.0	4.104278	Y
4	STD5 280-657950/16	50.0	206.758735	50.0	406437.0	4.135175	Y
5	STD10 280-657950/17	50.0	206.627344	50.0	398327.0	4.132547	Y
6	ICIS 280-657950/18	50.0	201.517077	50.0	398958.0	4.030342	Y
7	STD75 280-657950/19	50.0	200.988063	50.0	371029.0	4.019761	Y
8	STD100 280-657950/20	50.0	197.225339	50.0	356530.0	3.944507	Y
9	STD200 280-657950/21	50.0	186.811676	50.0	372390.0	3.736234	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

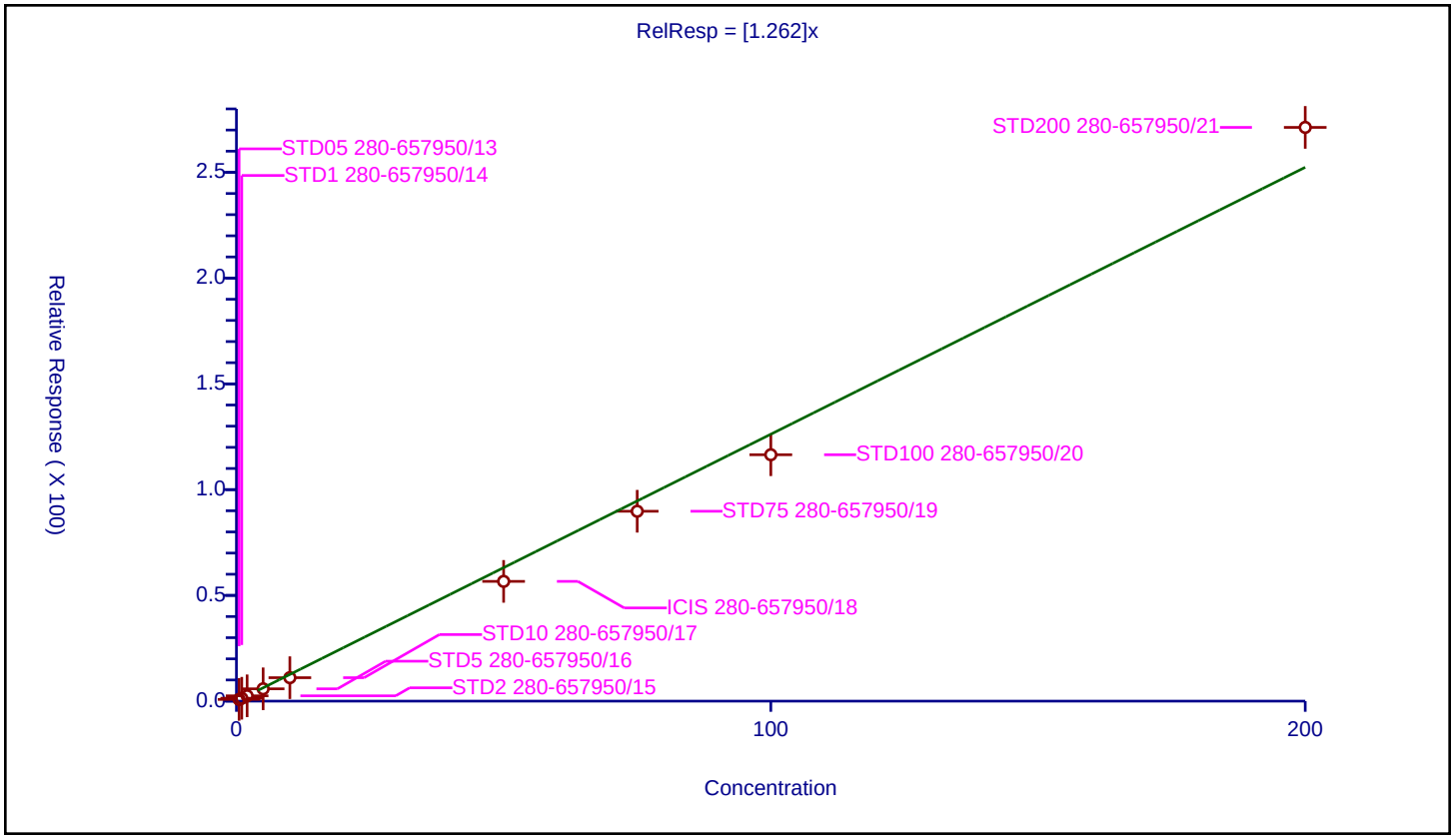
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.806598	50.0	1689069.0	1.613196	Y
2	STD1 280-657950/14	1.0	1.363313	50.0	1673497.0	1.363313	Y
3	STD2 280-657950/15	2.0	2.516331	50.0	1696756.0	1.258166	Y
4	STD5 280-657950/16	5.0	5.819052	50.0	1698799.0	1.16381	Y
5	STD10 280-657950/17	10.0	11.085695	50.0	1675434.0	1.108569	Y
6	ICIS 280-657950/18	50.0	56.614301	50.0	1623913.0	1.132286	Y
7	STD75 280-657950/19	75.0	89.774026	50.0	1507871.0	1.196987	Y
8	STD100 280-657950/20	100.0	116.488385	50.0	1401341.0	1.164884	Y
9	STD200 280-657950/21	200.0	271.243363	50.0	1377023.0	1.356217	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

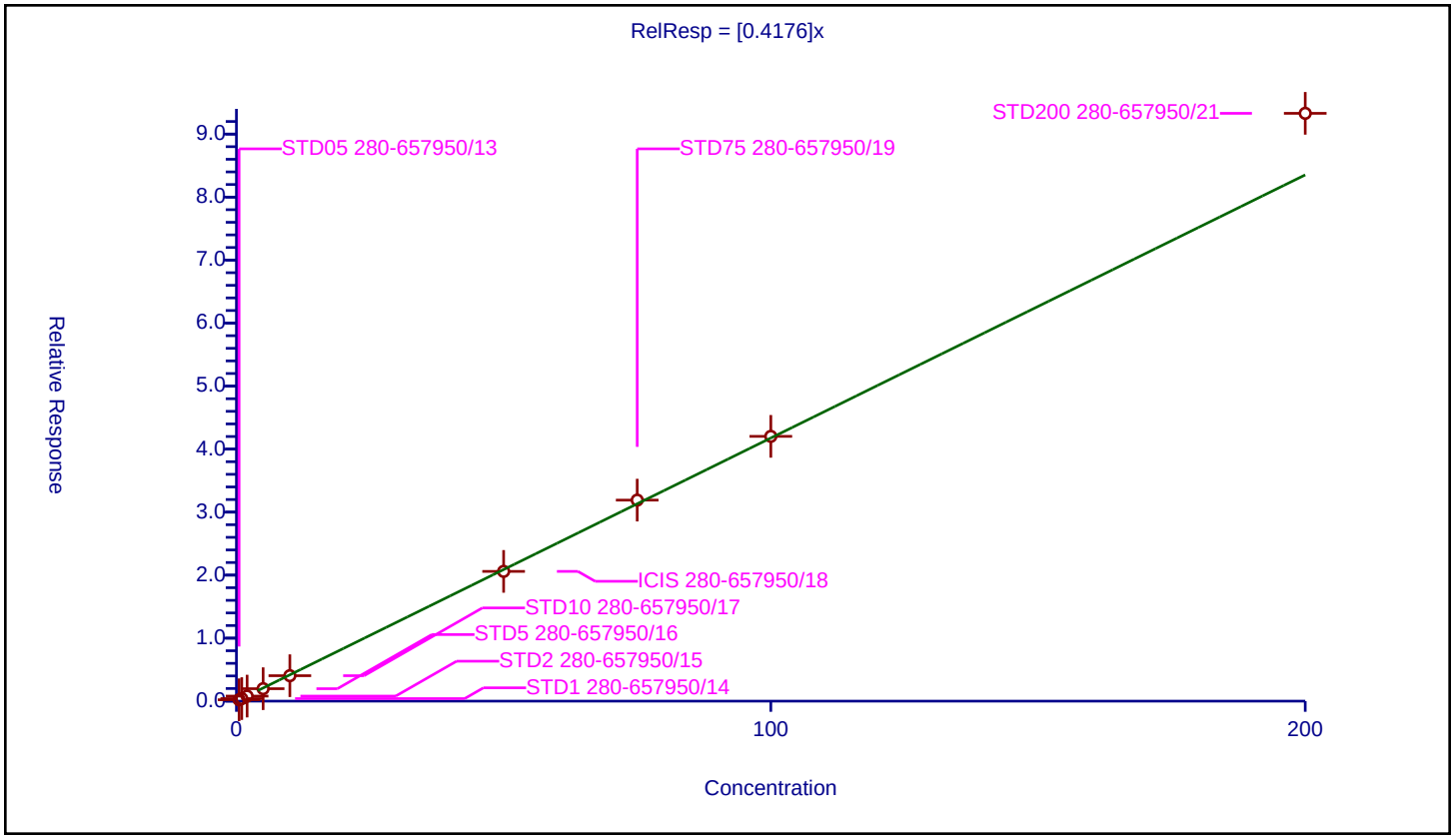
Curve Coefficients

Intercept:	0
Slope:	0.4176

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.215592	50.0	1689069.0	0.431184	Y
2	STD1 280-657950/14	1.0	0.403885	50.0	1673497.0	0.403885	Y
3	STD2 280-657950/15	2.0	0.801146	50.0	1696756.0	0.400573	Y
4	STD5 280-657950/16	5.0	1.975778	50.0	1698799.0	0.395156	Y
5	STD10 280-657950/17	10.0	4.037969	50.0	1675434.0	0.403797	Y
6	ICIS 280-657950/18	50.0	20.591528	50.0	1623913.0	0.411831	Y
7	STD75 280-657950/19	75.0	31.907305	50.0	1507871.0	0.425431	Y
8	STD100 280-657950/20	100.0	42.02703	50.0	1401341.0	0.42027	Y
9	STD200 280-657950/21	200.0	93.29354	50.0	1377023.0	0.466468	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

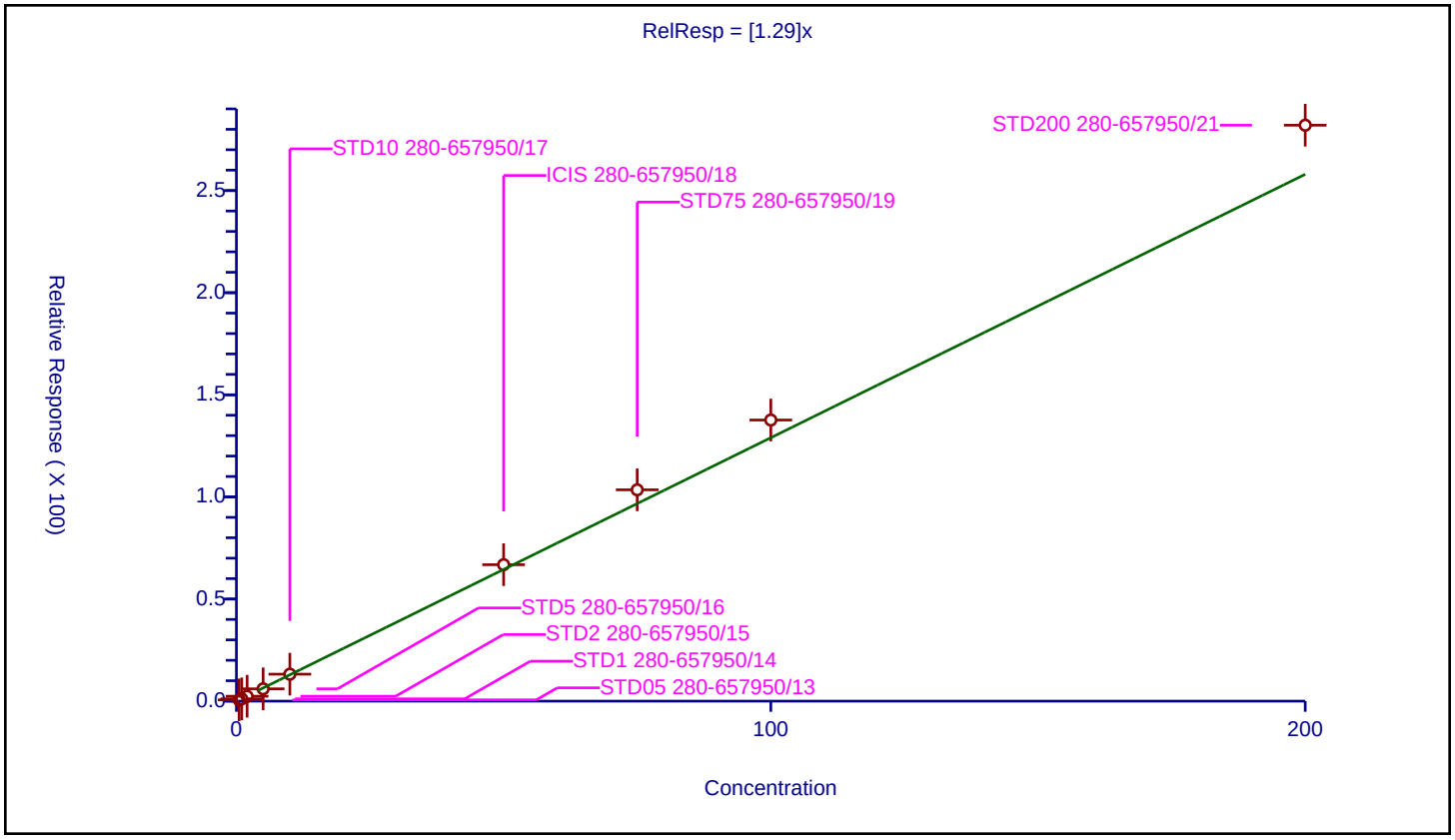
Curve Coefficients

Intercept:	0
Slope:	1.29

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.624849	50.0	400897.0	1.249698	Y
2	STD1 280-657950/14	1.0	1.127259	50.0	404521.0	1.127259	Y
3	STD2 280-657950/15	2.0	2.404461	50.0	405933.0	1.20223	Y
4	STD5 280-657950/16	5.0	6.031316	50.0	406437.0	1.206263	Y
5	STD10 280-657950/17	10.0	13.207741	50.0	398327.0	1.320774	Y
6	ICIS 280-657950/18	50.0	66.810416	50.0	398958.0	1.336208	Y
7	STD75 280-657950/19	75.0	103.474931	50.0	371029.0	1.379666	Y
8	STD100 280-657950/20	100.0	137.648445	50.0	356530.0	1.376484	Y
9	STD200 280-657950/21	200.0	282.009318	50.0	372390.0	1.410047	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

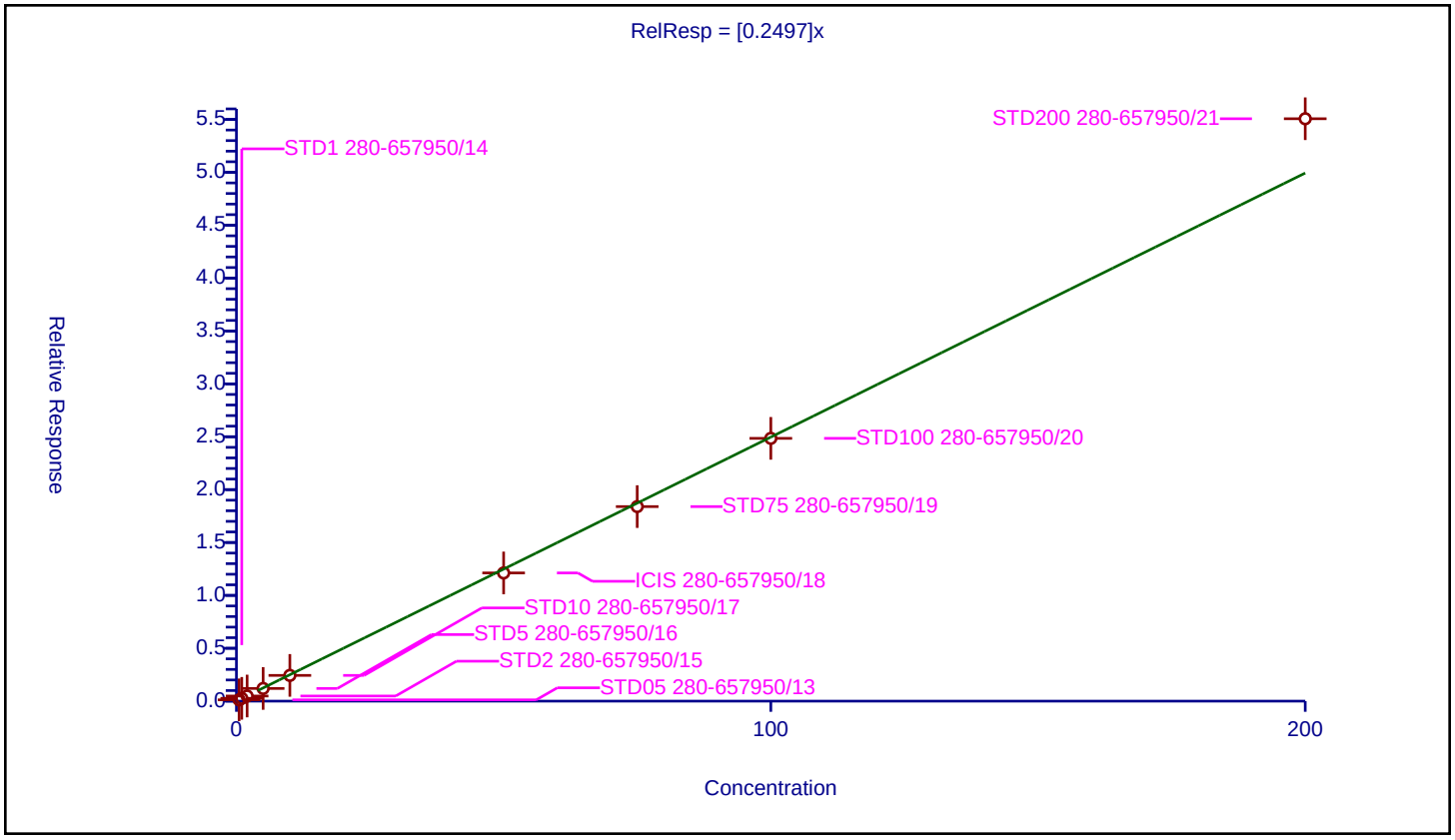
Curve Coefficients

Intercept:	0
Slope:	0.2497

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.121872	50.0	1689069.0	0.243744	Y
2	STD1 280-657950/14	1.0	0.266299	50.0	1673497.0	0.266299	Y
3	STD2 280-657950/15	2.0	0.48466	50.0	1696756.0	0.24233	Y
4	STD5 280-657950/16	5.0	1.198935	50.0	1698799.0	0.239787	Y
5	STD10 280-657950/17	10.0	2.43325	50.0	1675434.0	0.243325	Y
6	ICIS 280-657950/18	50.0	12.121924	50.0	1623913.0	0.242438	Y
7	STD75 280-657950/19	75.0	18.39597	50.0	1507871.0	0.24528	Y
8	STD100 280-657950/20	100.0	24.846415	50.0	1401341.0	0.248464	Y
9	STD200 280-657950/21	200.0	55.067054	50.0	1377023.0	0.275335	Y



7/5/2024
11:14:22 AM

Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

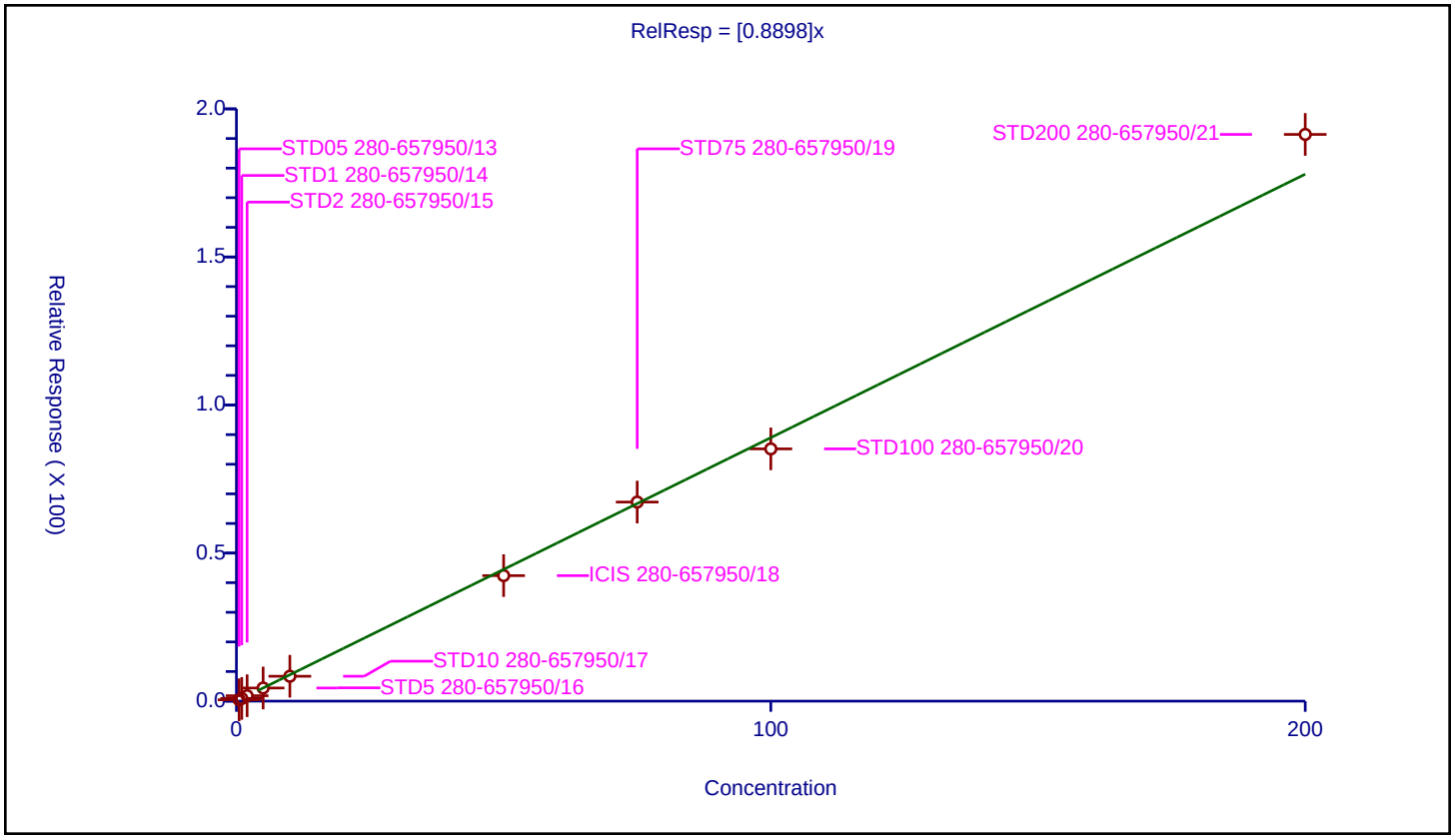
Curve Coefficients

Intercept:	0
Slope:	0.8898

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.45024	50.0	400897.0	0.900481	Y
2	STD1 280-657950/14	1.0	0.912437	50.0	404521.0	0.912437	Y
3	STD2 280-657950/15	2.0	1.826287	50.0	405933.0	0.913143	Y
4	STD5 280-657950/16	5.0	4.443001	50.0	406437.0	0.8886	Y
5	STD10 280-657950/17	10.0	8.403272	50.0	398327.0	0.840327	Y
6	ICIS 280-657950/18	50.0	42.388297	50.0	398958.0	0.847766	Y
7	STD75 280-657950/19	75.0	67.226551	50.0	371029.0	0.896354	Y
8	STD100 280-657950/20	100.0	85.192971	50.0	356530.0	0.85193	Y
9	STD200 280-657950/21	200.0	191.375305	50.0	372390.0	0.956877	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

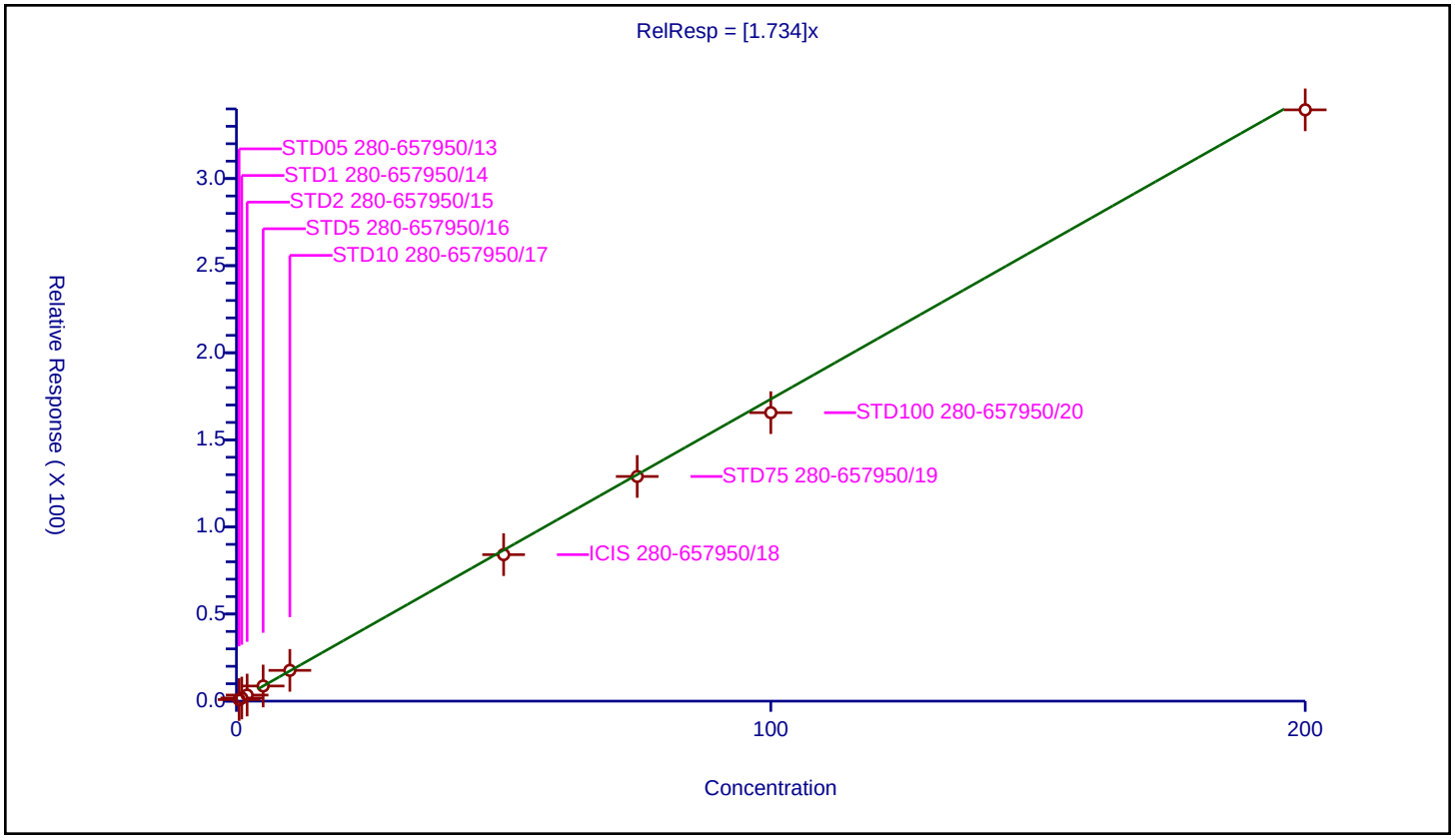
Curve Coefficients

Intercept:	0
Slope:	1.734

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.899732	50.0	400897.0	1.799465	Y
2	STD1 280-657950/14	1.0	1.802379	50.0	404521.0	1.802379	Y
3	STD2 280-657950/15	2.0	3.487152	50.0	405933.0	1.743576	Y
4	STD5 280-657950/16	5.0	8.689047	50.0	406437.0	1.737809	Y
5	STD10 280-657950/17	10.0	17.67367	50.0	398327.0	1.767367	Y
6	ICIS 280-657950/18	50.0	84.097825	50.0	398958.0	1.681956	Y
7	STD75 280-657950/19	75.0	128.985605	50.0	371029.0	1.719808	Y
8	STD100 280-657950/20	100.0	165.619162	50.0	356530.0	1.656192	Y
9	STD200 280-657950/21	200.0	339.467897	50.0	372390.0	1.697339	Y



7/5/2024
11:14:22 AM

Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

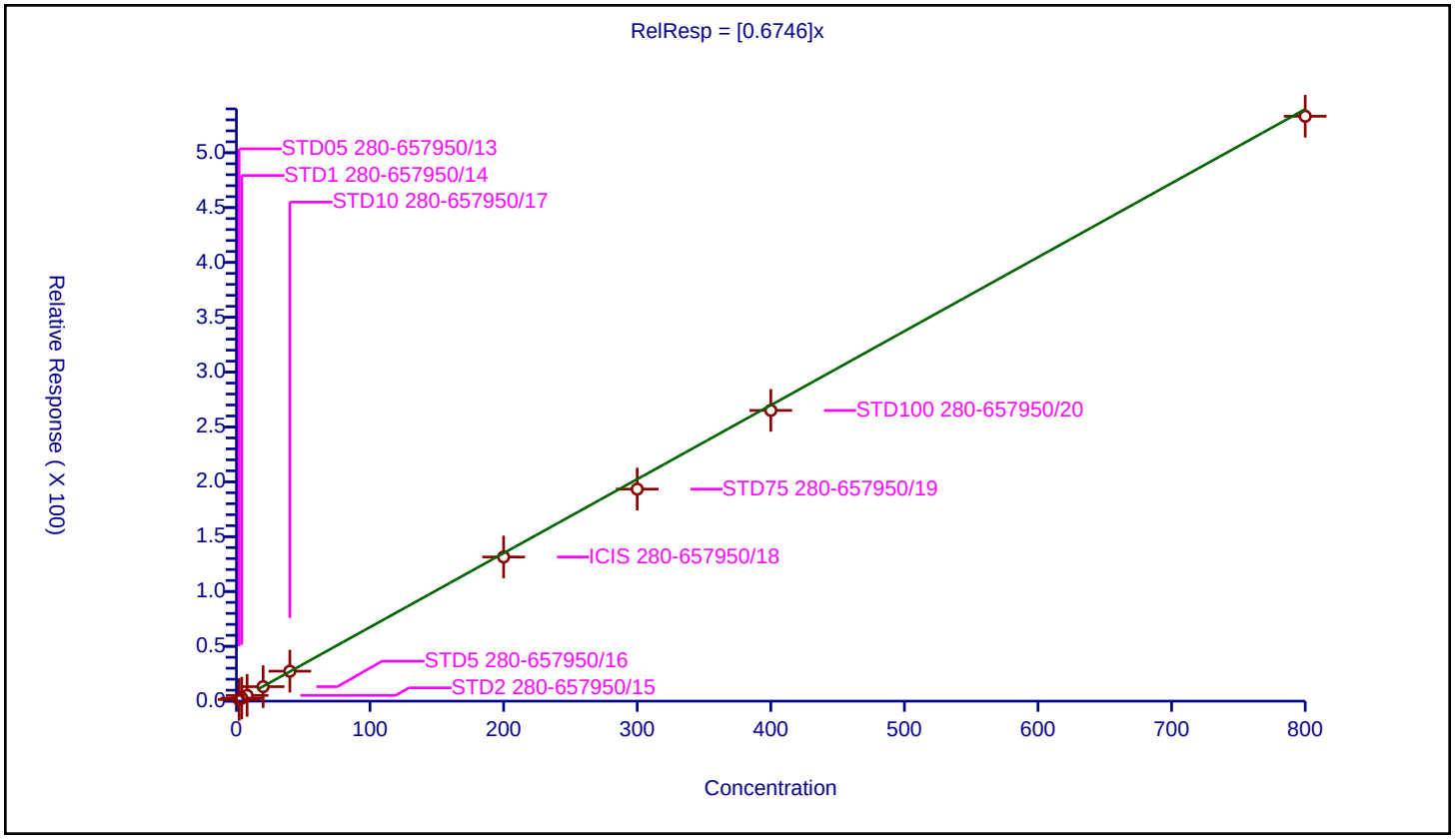
Curve Coefficients

Intercept:	0
Slope:	0.6746

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	2.0	1.517347	50.0	400897.0	0.758674	Y
2	STD1 280-657950/14	4.0	2.749301	50.0	404521.0	0.687325	Y
3	STD2 280-657950/15	8.0	5.219581	50.0	405933.0	0.652448	Y
4	STD5 280-657950/16	20.0	13.195157	50.0	406437.0	0.659758	Y
5	STD10 280-657950/17	40.0	27.305078	50.0	398327.0	0.682627	Y
6	ICIS 280-657950/18	200.0	131.429749	50.0	398958.0	0.657149	Y
7	STD75 280-657950/19	300.0	193.316021	50.0	371029.0	0.644387	Y
8	STD100 280-657950/20	400.0	265.077553	50.0	356530.0	0.662694	Y
9	STD200 280-657950/21	800.0	533.27533	50.0	372390.0	0.666594	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

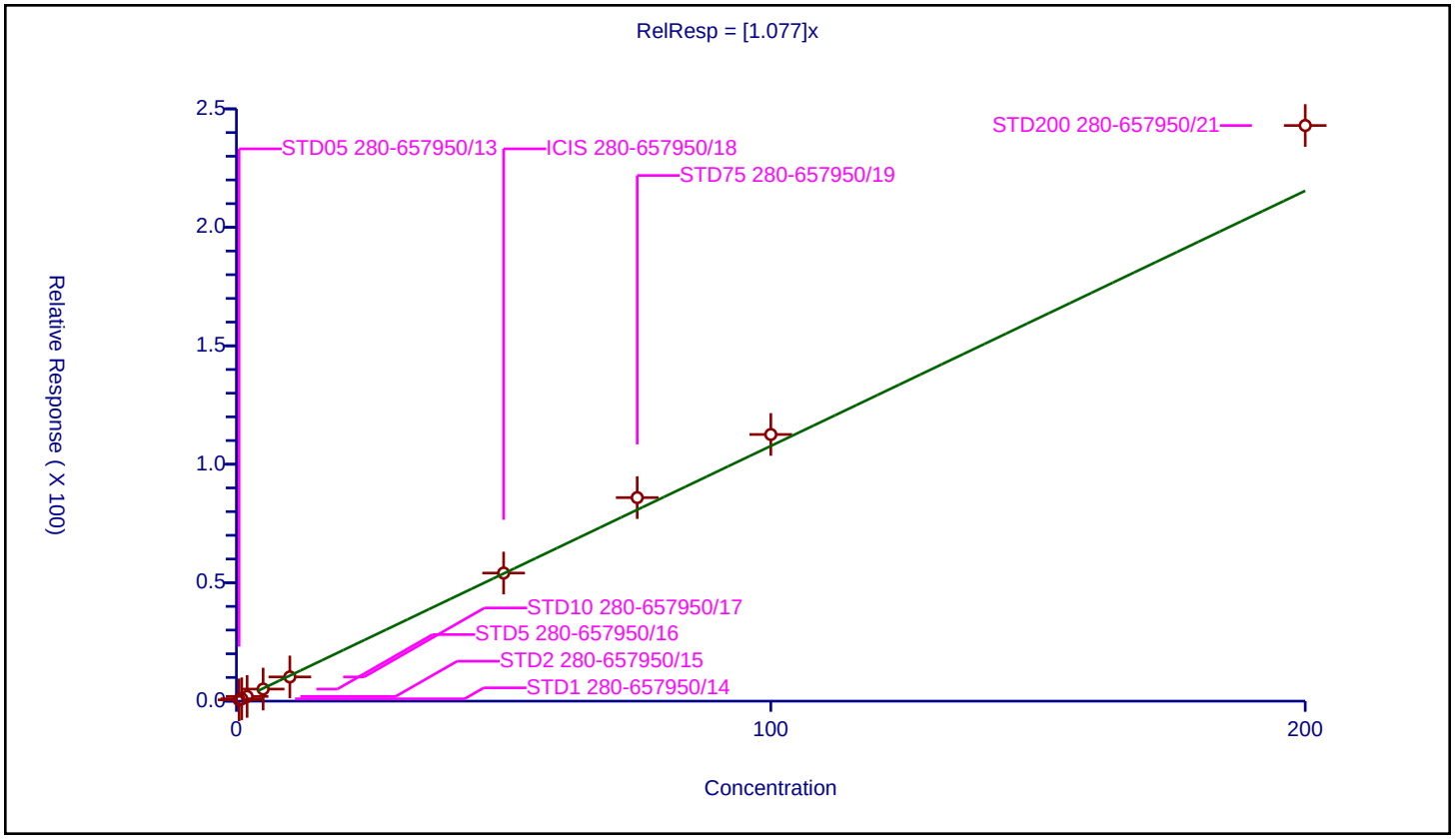
Curve Coefficients

Intercept:	0
Slope:	1.077

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.548021	50.0	400897.0	1.096042	Y
2	STD1 280-657950/14	1.0	0.992903	50.0	404521.0	0.992903	Y
3	STD2 280-657950/15	2.0	1.990969	50.0	405933.0	0.995484	Y
4	STD5 280-657950/16	5.0	5.096485	50.0	406437.0	1.019297	Y
5	STD10 280-657950/17	10.0	10.229284	50.0	398327.0	1.022928	Y
6	ICIS 280-657950/18	50.0	54.073612	50.0	398958.0	1.081472	Y
7	STD75 280-657950/19	75.0	85.909188	50.0	371029.0	1.145456	Y
8	STD100 280-657950/20	100.0	112.563599	50.0	356530.0	1.125636	Y
9	STD200 280-657950/21	200.0	242.979538	50.0	372390.0	1.214898	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

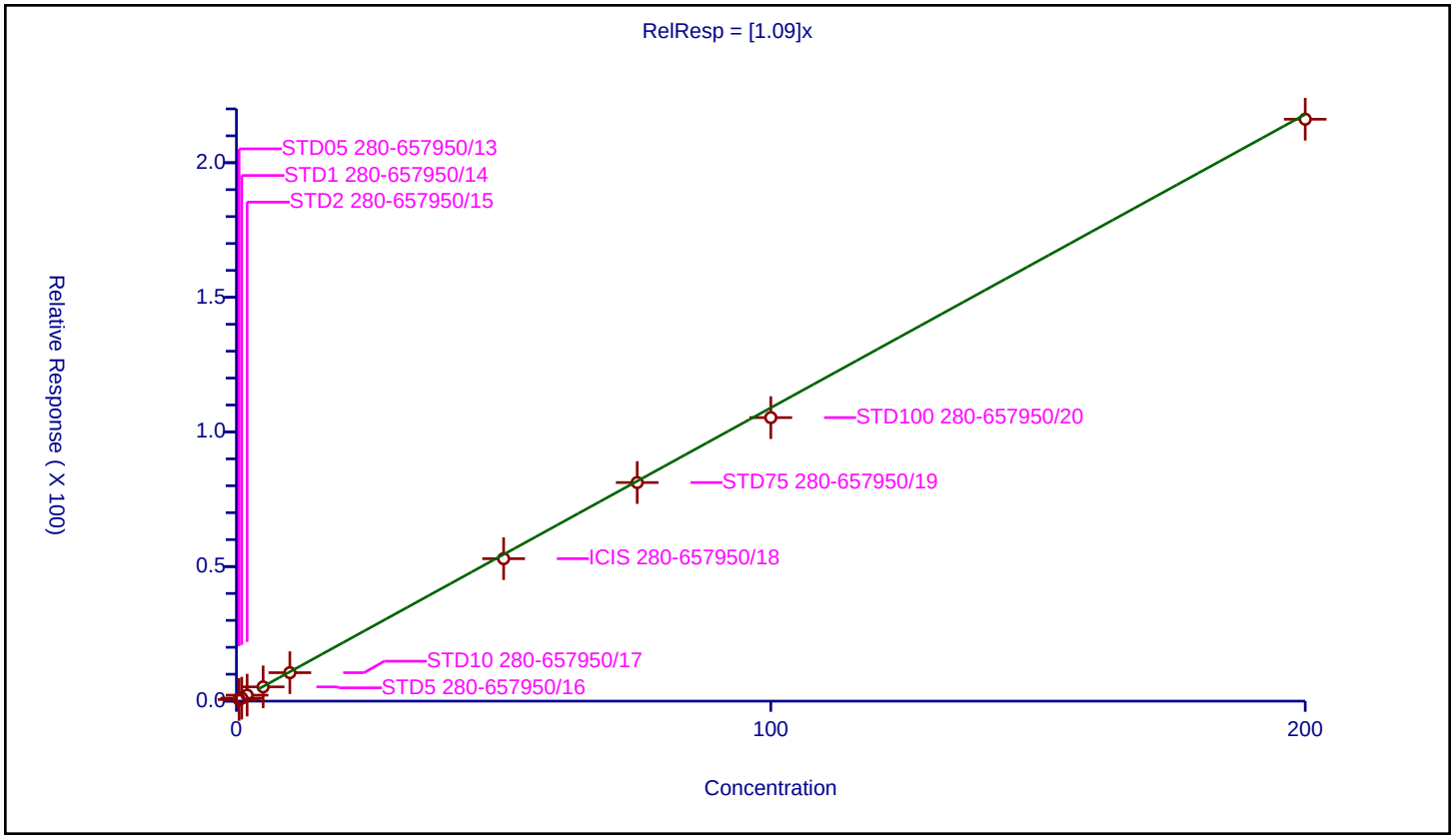
Curve Coefficients

Intercept:	0
Slope:	1.09

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.595664	50.0	400897.0	1.191328	Y
2	STD1 280-657950/14	1.0	1.112056	50.0	404521.0	1.112056	Y
3	STD2 280-657950/15	2.0	2.22549	50.0	405933.0	1.112745	Y
4	STD5 280-657950/16	5.0	5.297746	50.0	406437.0	1.059549	Y
5	STD10 280-657950/17	10.0	10.569206	50.0	398327.0	1.056921	Y
6	ICIS 280-657950/18	50.0	52.918478	50.0	398958.0	1.05837	Y
7	STD75 280-657950/19	75.0	81.200122	50.0	371029.0	1.082668	Y
8	STD100 280-657950/20	100.0	105.321993	50.0	356530.0	1.05322	Y
9	STD200 280-657950/21	200.0	216.164773	50.0	372390.0	1.080824	Y



7/5/2024
11:14:22 AM

Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

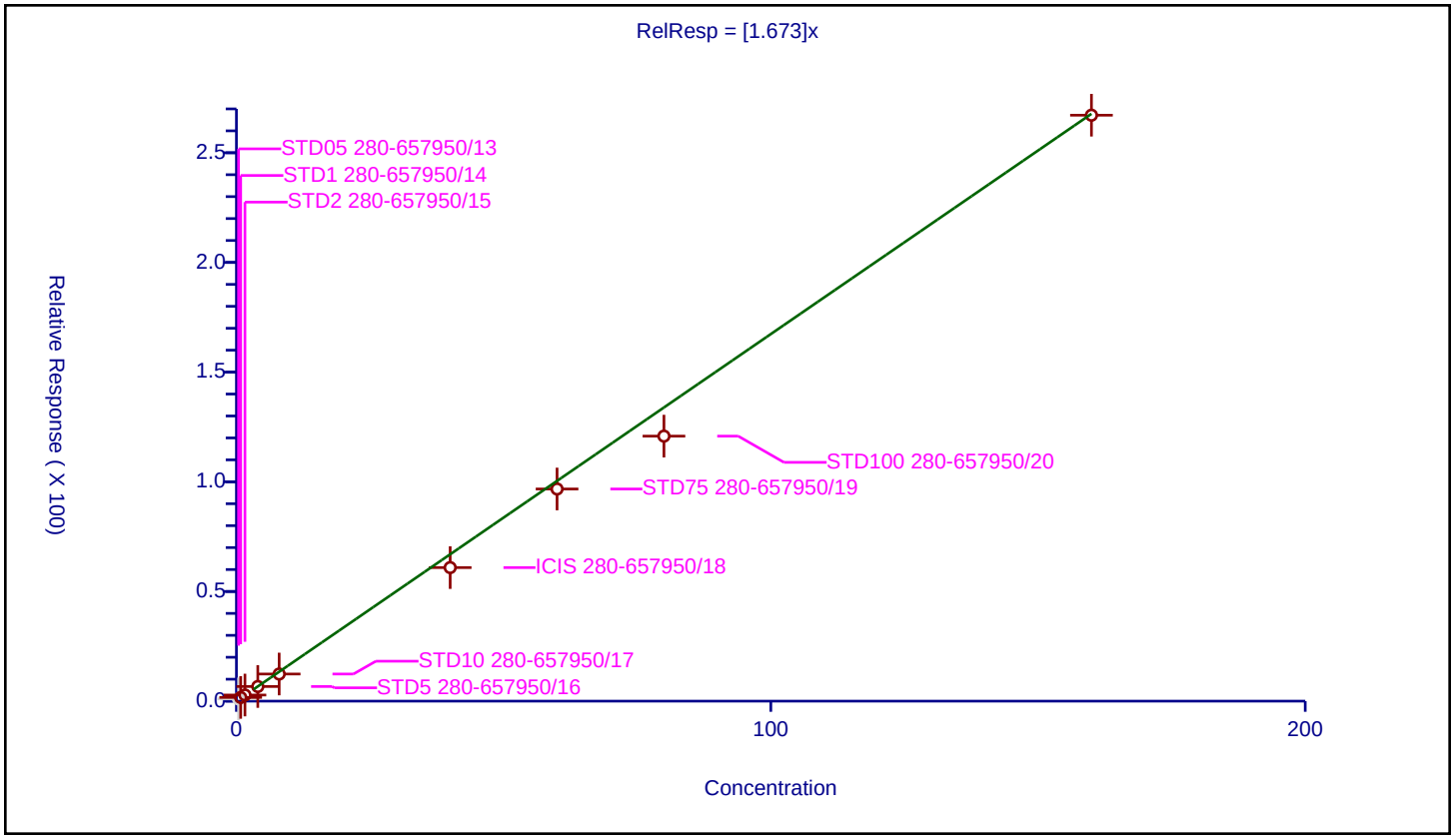
Curve Coefficients

Intercept:	0
Slope:	1.673

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.4	1.016096	50.0	400897.0	2.540241	N
2	STD1 280-657950/14	0.8	1.694844	50.0	404521.0	2.118555	Y
3	STD2 280-657950/15	1.6	2.788638	50.0	405933.0	1.742898	Y
4	STD5 280-657950/16	4.0	6.668069	50.0	406437.0	1.667017	Y
5	STD10 280-657950/17	8.0	12.361075	50.0	398327.0	1.545134	Y
6	ICIS 280-657950/18	40.0	60.882098	50.0	398958.0	1.522052	Y
7	STD75 280-657950/19	60.0	96.718316	50.0	371029.0	1.611972	Y
8	STD100 280-657950/20	80.0	120.819146	50.0	356530.0	1.510239	Y
9	STD200 280-657950/21	160.0	267.123714	50.0	372390.0	1.669523	Y



7/5/2024
11:14:22 AM

Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

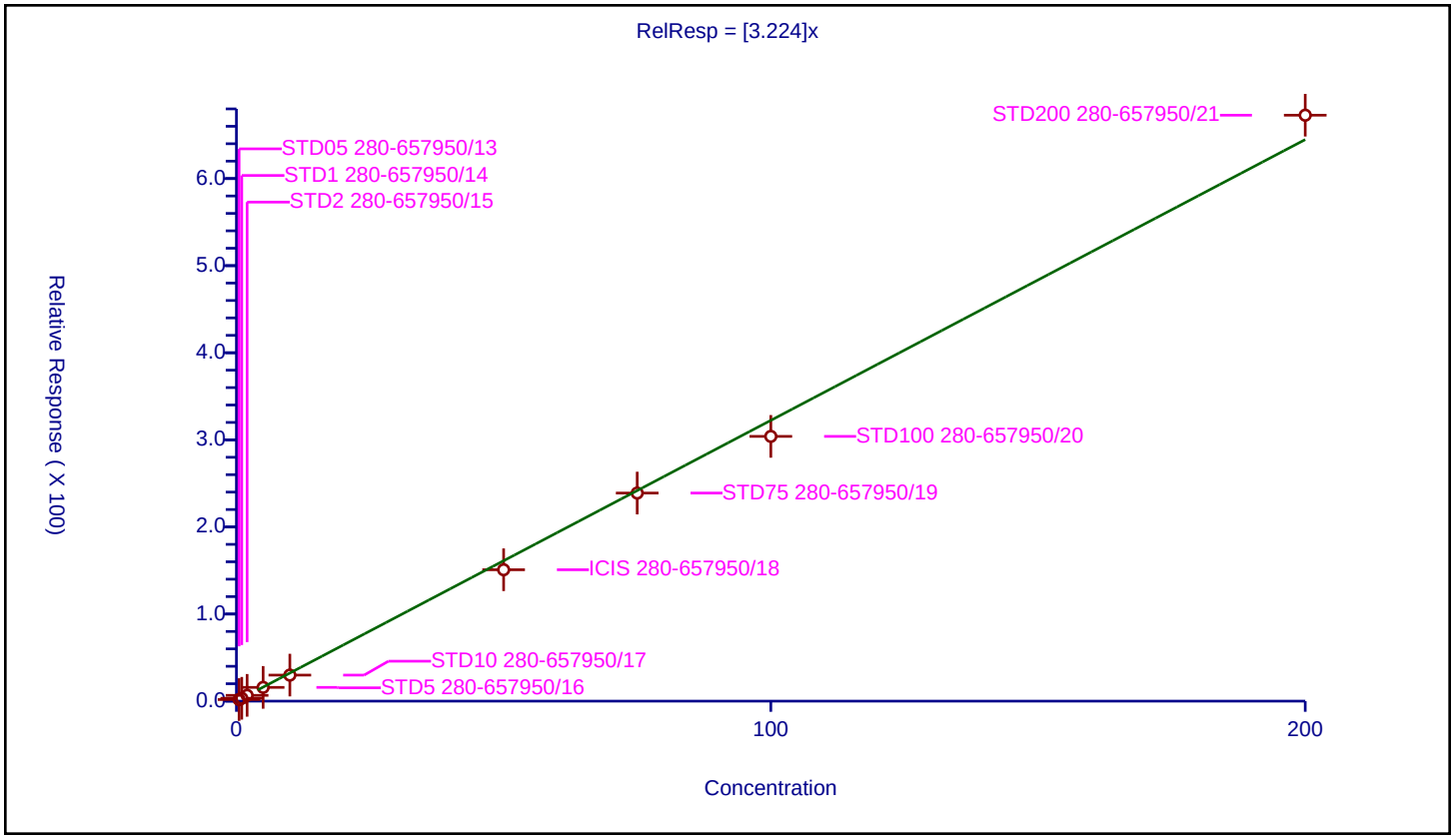
Curve Coefficients

Intercept:	0
Slope:	3.224

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.828275	50.0	400897.0	3.65655	Y
2	STD1 280-657950/14	1.0	3.284626	50.0	404521.0	3.284626	Y
3	STD2 280-657950/15	2.0	6.638903	50.0	405933.0	3.319452	Y
4	STD5 280-657950/16	5.0	15.781659	50.0	406437.0	3.156332	Y
5	STD10 280-657950/17	10.0	29.907337	50.0	398327.0	2.990734	Y
6	ICIS 280-657950/18	50.0	150.858862	50.0	398958.0	3.017177	Y
7	STD75 280-657950/19	75.0	238.90208	50.0	371029.0	3.185361	Y
8	STD100 280-657950/20	100.0	303.984517	50.0	356530.0	3.039845	Y
9	STD200 280-657950/21	200.0	672.740138	50.0	372390.0	3.363701	Y



7/5/2024
11:14:22 AM

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

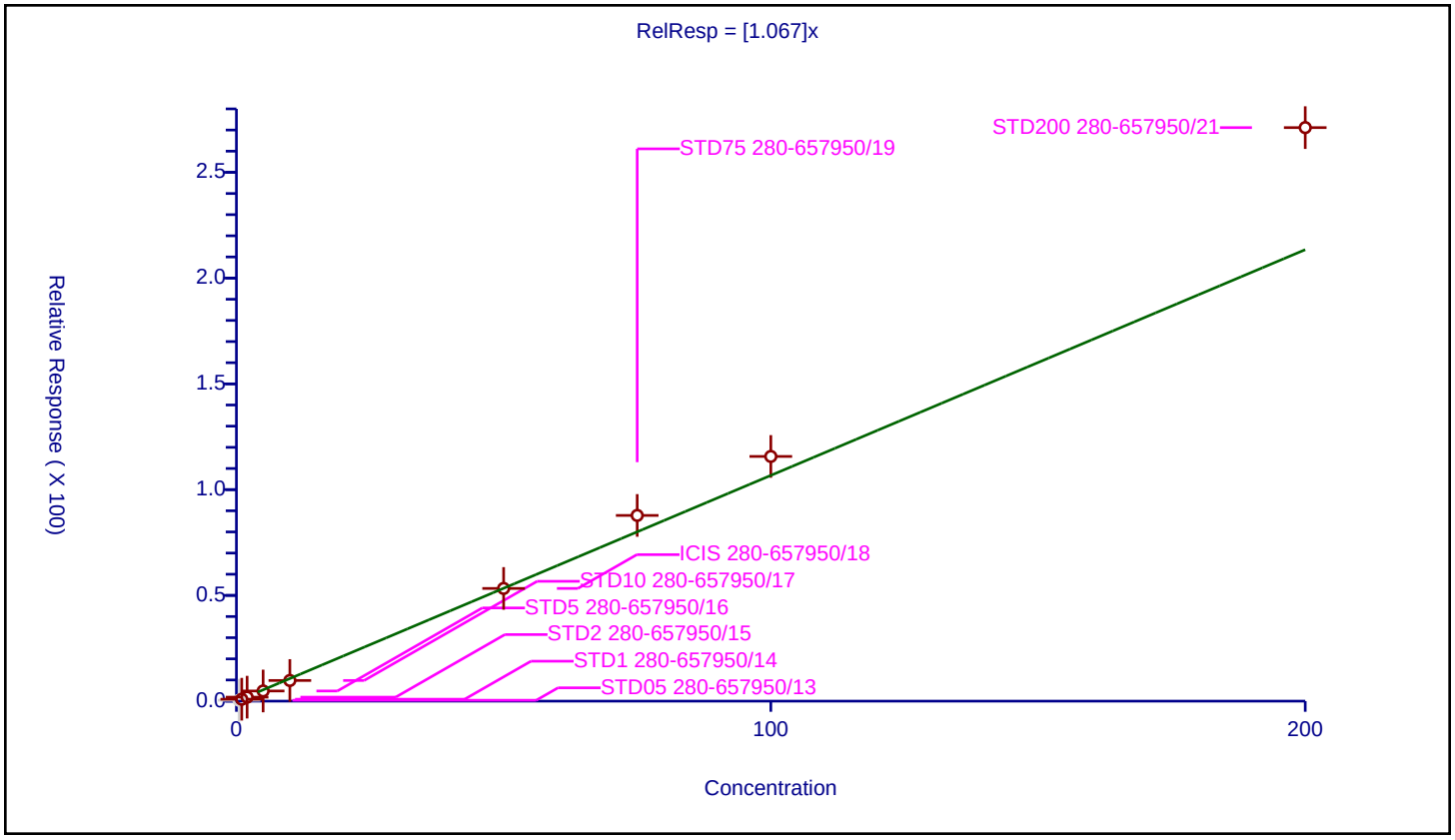
Curve Coefficients

Intercept:	0
Slope:	1.067

Error Coefficients

Relative Standard Deviation:	14.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.418187	50.0	400897.0	0.836374	N
2	STD1 280-657950/14	1.0	0.912561	50.0	404521.0	0.912561	Y
3	STD2 280-657950/15	2.0	1.878142	50.0	405933.0	0.939071	Y
4	STD5 280-657950/16	5.0	4.802466	50.0	406437.0	0.960493	Y
5	STD10 280-657950/17	10.0	9.764465	50.0	398327.0	0.976446	Y
6	ICIS 280-657950/18	50.0	53.278666	50.0	398958.0	1.065573	Y
7	STD75 280-657950/19	75.0	87.802166	50.0	371029.0	1.170696	Y
8	STD100 280-657950/20	100.0	115.686899	50.0	356530.0	1.156869	Y
9	STD200 280-657950/21	200.0	271.145036	50.0	372390.0	1.355725	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

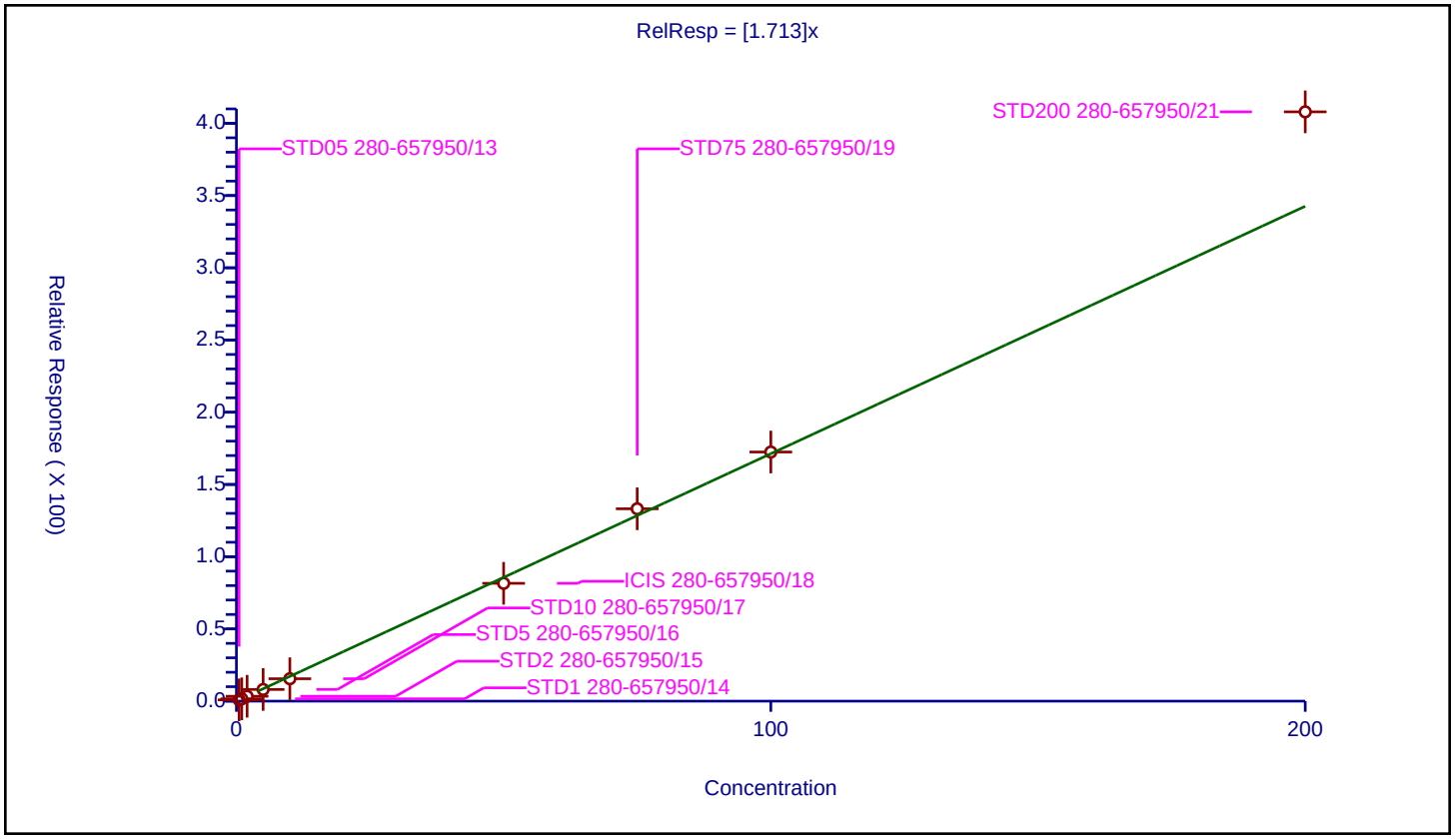
Curve Coefficients

Intercept:	0
Slope:	1.713

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.88302	50.0	400897.0	1.76604	Y
2	STD1 280-657950/14	1.0	1.620188	50.0	404521.0	1.620188	Y
3	STD2 280-657950/15	2.0	3.382085	50.0	405933.0	1.691043	Y
4	STD5 280-657950/16	5.0	8.080957	50.0	406437.0	1.616191	Y
5	STD10 280-657950/17	10.0	15.522925	50.0	398327.0	1.552292	Y
6	ICIS 280-657950/18	50.0	81.552319	50.0	398958.0	1.631046	Y
7	STD75 280-657950/19	75.0	133.169914	50.0	371029.0	1.775599	Y
8	STD100 280-657950/20	100.0	172.45309	50.0	356530.0	1.724531	Y
9	STD200 280-657950/21	200.0	407.94785	50.0	372390.0	2.039739	Y



7/5/2024
11:14:22 AM

Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

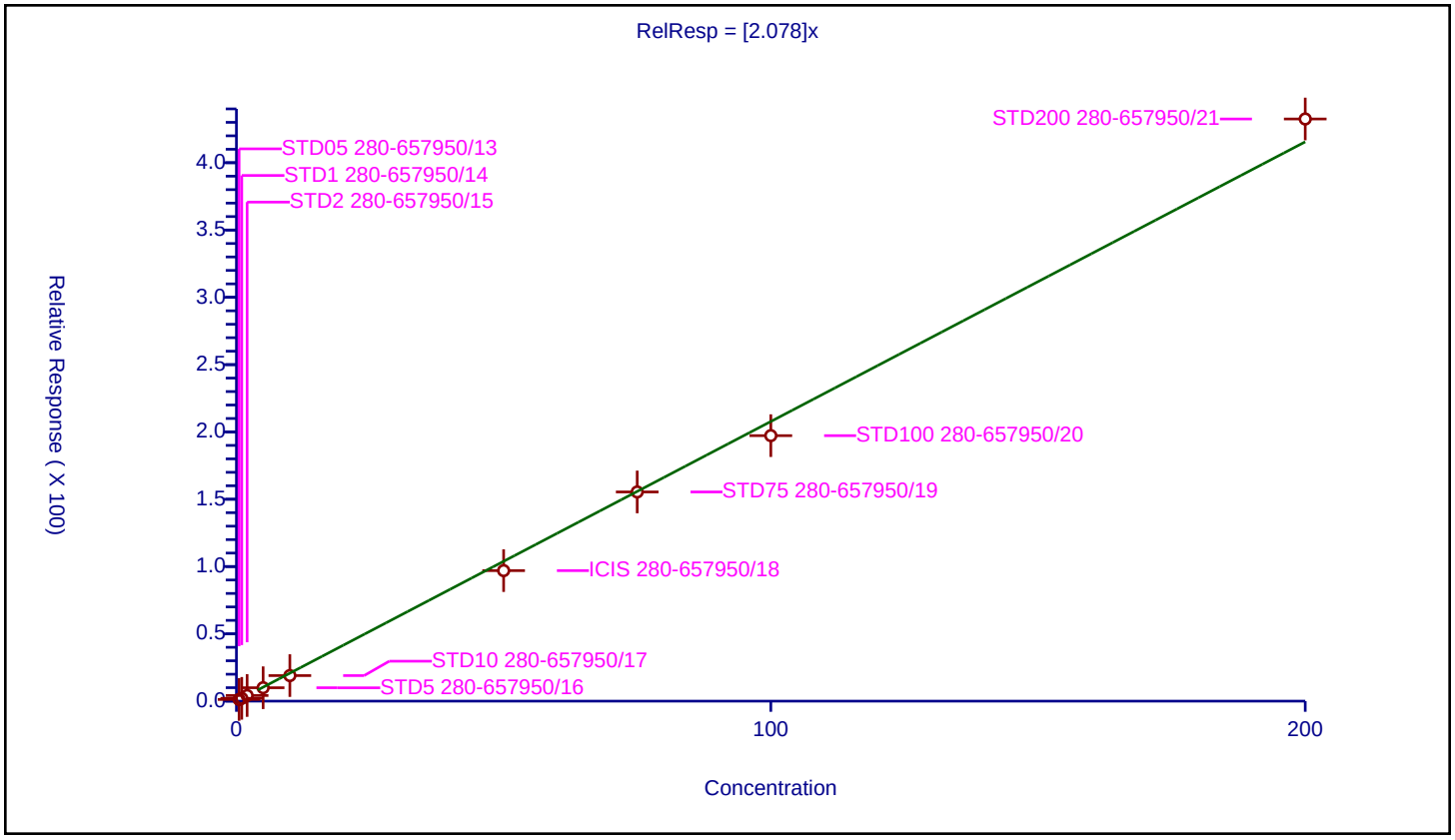
Curve Coefficients

Intercept:	0
Slope:	2.078

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.237849	50.0	400897.0	2.475698	Y
2	STD1 280-657950/14	1.0	2.094082	50.0	404521.0	2.094082	Y
3	STD2 280-657950/15	2.0	4.183572	50.0	405933.0	2.091786	Y
4	STD5 280-657950/16	5.0	9.957263	50.0	406437.0	1.991453	Y
5	STD10 280-657950/17	10.0	18.992561	50.0	398327.0	1.899256	Y
6	ICIS 280-657950/18	50.0	96.960081	50.0	398958.0	1.939202	Y
7	STD75 280-657950/19	75.0	155.416692	50.0	371029.0	2.072223	Y
8	STD100 280-657950/20	100.0	197.251984	50.0	356530.0	1.97252	Y
9	STD200 280-657950/21	200.0	432.507989	50.0	372390.0	2.16254	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

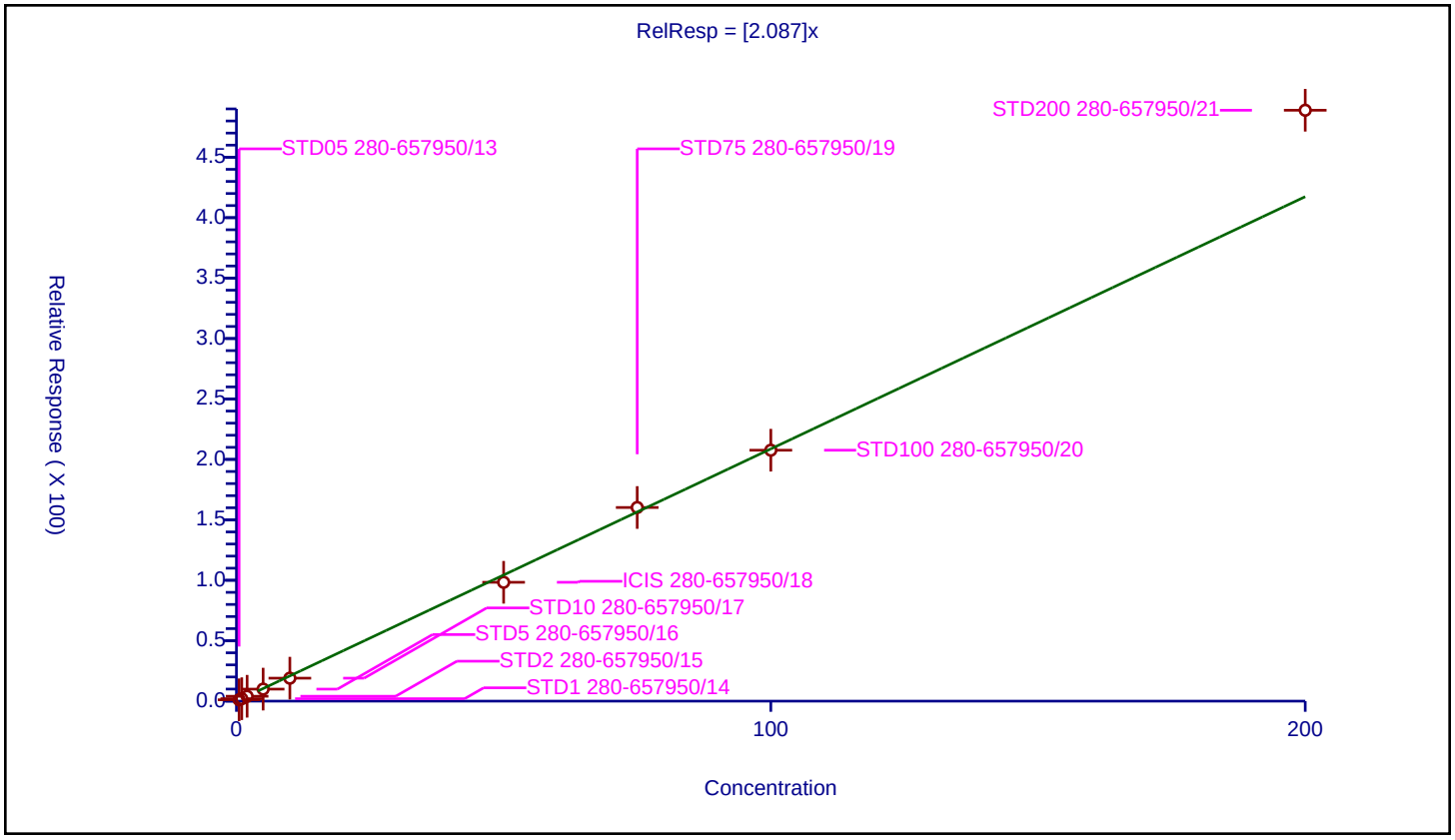
Curve Coefficients

Intercept:	0
Slope:	2.087

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.11949	50.0	400897.0	2.238979	Y
2	STD1 280-657950/14	1.0	2.010155	50.0	404521.0	2.010155	Y
3	STD2 280-657950/15	2.0	4.036011	50.0	405933.0	2.018005	Y
4	STD5 280-657950/16	5.0	9.952588	50.0	406437.0	1.990518	Y
5	STD10 280-657950/17	10.0	19.001976	50.0	398327.0	1.900198	Y
6	ICIS 280-657950/18	50.0	98.3398	50.0	398958.0	1.966796	Y
7	STD75 280-657950/19	75.0	160.216587	50.0	371029.0	2.136221	Y
8	STD100 280-657950/20	100.0	207.618013	50.0	356530.0	2.07618	Y
9	STD200 280-657950/21	200.0	488.866645	50.0	372390.0	2.444333	Y



7/5/2024
11:14:22 AM

Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

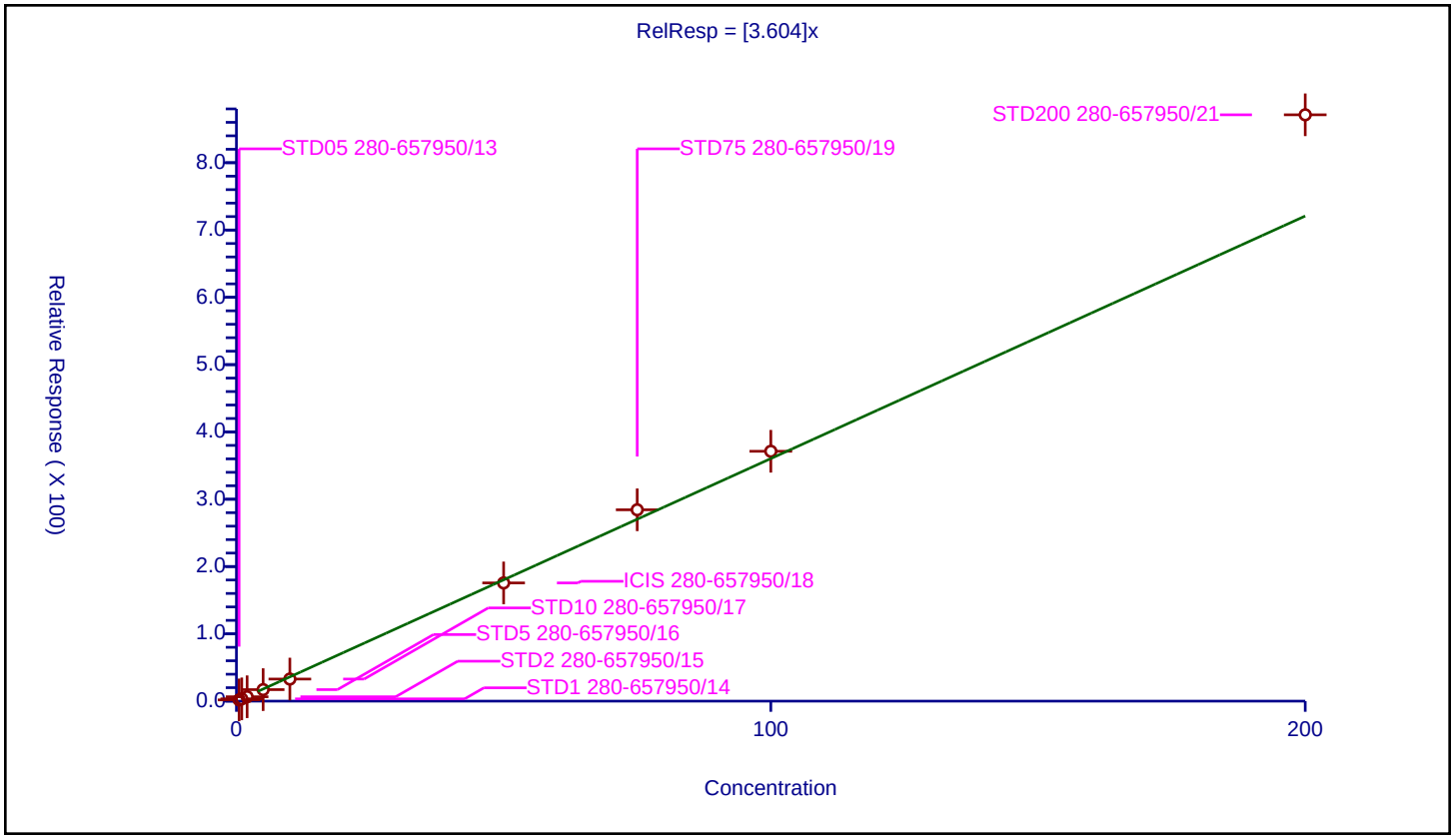
Curve Coefficients

Intercept:	0
Slope:	3.604

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.848729	50.0	400897.0	3.697458	Y
2	STD1 280-657950/14	1.0	3.400318	50.0	404521.0	3.400318	Y
3	STD2 280-657950/15	2.0	6.528417	50.0	405933.0	3.264209	Y
4	STD5 280-657950/16	5.0	17.096377	50.0	406437.0	3.419275	Y
5	STD10 280-657950/17	10.0	32.828179	50.0	398327.0	3.282818	Y
6	ICIS 280-657950/18	50.0	175.658967	50.0	398958.0	3.513179	Y
7	STD75 280-657950/19	75.0	284.308504	50.0	371029.0	3.79078	Y
8	STD100 280-657950/20	100.0	371.271282	50.0	356530.0	3.712713	Y
9	STD200 280-657950/21	200.0	871.208276	50.0	372390.0	4.356041	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

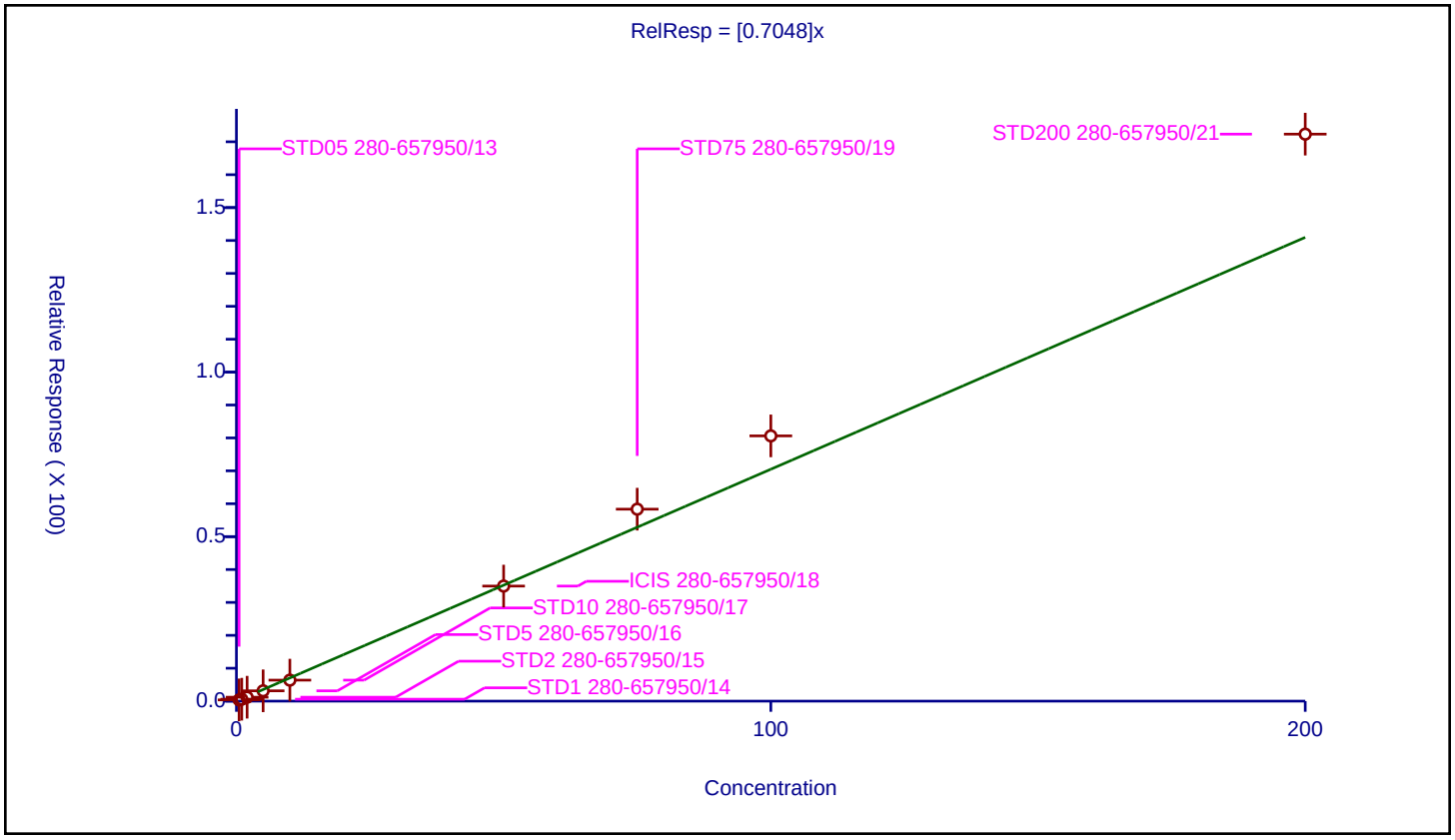
Curve Coefficients

Intercept:	0
Slope:	0.7048

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.376406	50.0	400897.0	0.752812	Y
2	STD1 280-657950/14	1.0	0.582912	50.0	404521.0	0.582912	Y
3	STD2 280-657950/15	2.0	1.193177	50.0	405933.0	0.596589	Y
4	STD5 280-657950/16	5.0	3.136279	50.0	406437.0	0.627256	Y
5	STD10 280-657950/17	10.0	6.381691	50.0	398327.0	0.638169	Y
6	ICIS 280-657950/18	50.0	34.972854	50.0	398958.0	0.699457	Y
7	STD75 280-657950/19	75.0	58.347191	50.0	371029.0	0.777963	Y
8	STD100 280-657950/20	100.0	80.616358	50.0	356530.0	0.806164	Y
9	STD200 280-657950/21	200.0	172.325653	50.0	372390.0	0.861628	Y



7/5/2024
11:14:22 AM

Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

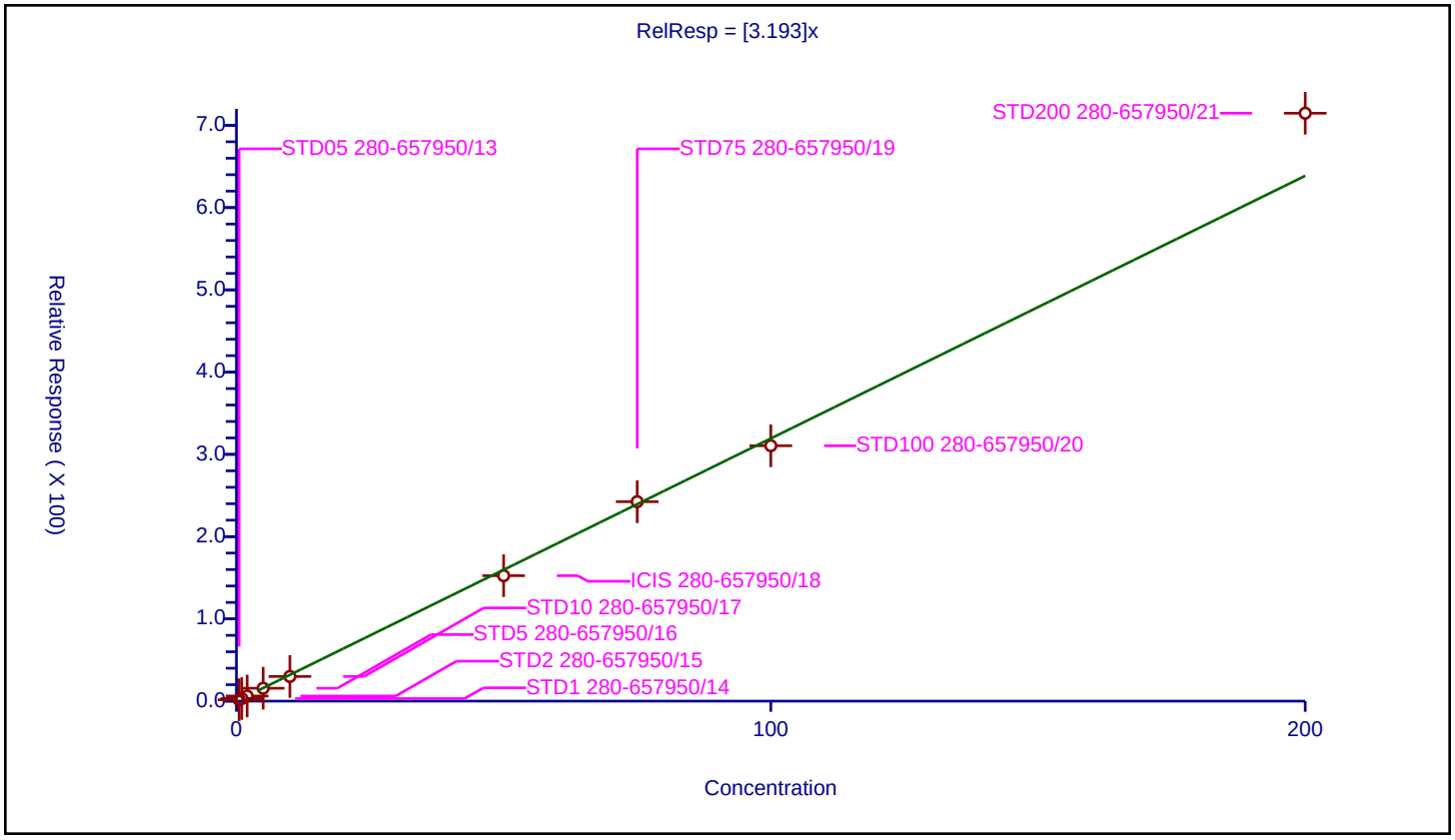
Curve Coefficients

Intercept:	0
Slope:	3.193

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.679041	50.0	669817.0	3.358081	Y
2	STD1 280-657950/14	1.0	3.155692	50.0	695917.0	3.155692	Y
3	STD2 280-657950/15	2.0	6.243767	50.0	675890.0	3.121884	Y
4	STD5 280-657950/16	5.0	15.702243	50.0	679836.0	3.140449	Y
5	STD10 280-657950/17	10.0	30.014193	50.0	650309.0	3.001419	Y
6	ICIS 280-657950/18	50.0	152.51135	50.0	668067.0	3.050227	Y
7	STD75 280-657950/19	75.0	242.480711	50.0	629122.0	3.233076	Y
8	STD100 280-657950/20	100.0	310.514632	50.0	604548.0	3.105146	Y
9	STD200 280-657950/21	200.0	714.76994	50.0	621729.0	3.57385	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

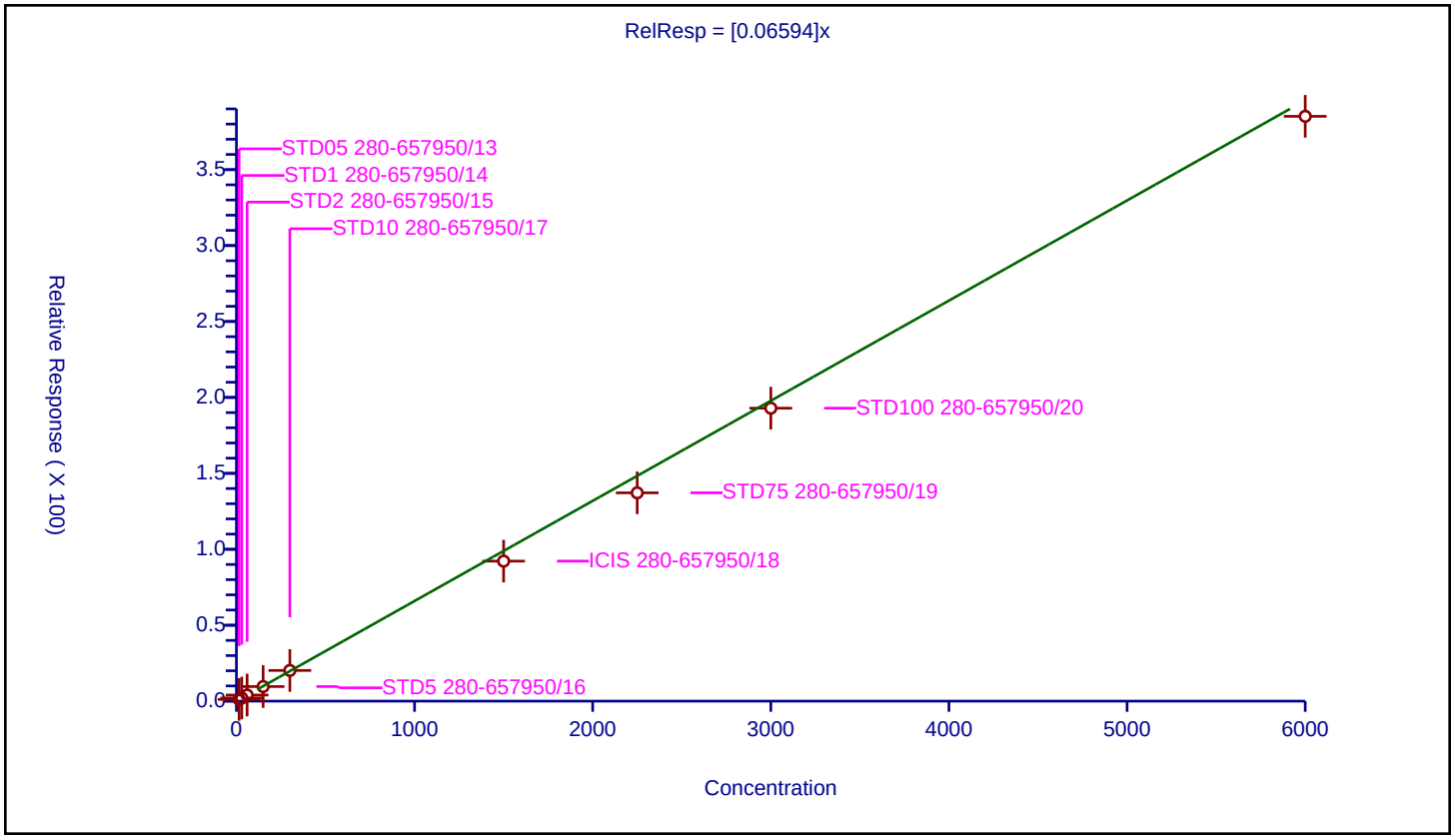
Curve Coefficients

Intercept:	0
Slope:	0.06594

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	15.0	1.129467	50.0	400897.0	0.075298	Y
2	STD1 280-657950/14	30.0	2.072328	50.0	404521.0	0.069078	Y
3	STD2 280-657950/15	60.0	4.006573	50.0	405933.0	0.066776	Y
4	STD5 280-657950/16	150.0	9.603456	50.0	406437.0	0.064023	Y
5	STD10 280-657950/17	300.0	20.201744	50.0	398327.0	0.067339	Y
6	ICIS 280-657950/18	1500.0	92.196046	50.0	398958.0	0.061464	Y
7	STD75 280-657950/19	2250.0	137.176474	50.0	371029.0	0.060967	Y
8	STD100 280-657950/20	3000.0	192.914341	50.0	356530.0	0.064305	Y
9	STD200 280-657950/21	6000.0	385.113993	50.0	372390.0	0.064186	Y



7/5/2024
11:14:22 AM

Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

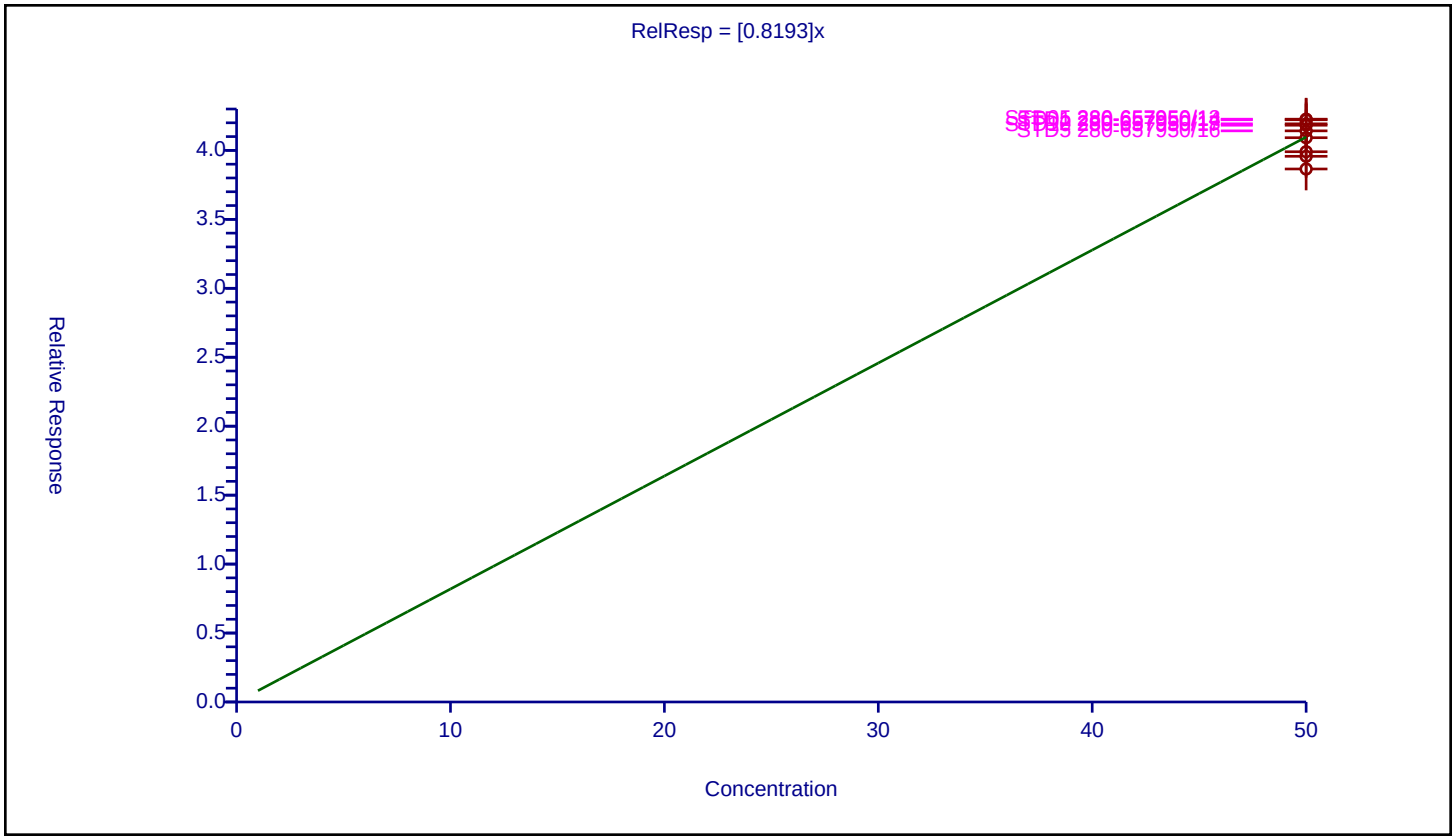
Curve Coefficients

Intercept:	0
Slope:	0.8193

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	50.0	42.263111	50.0	669817.0	0.845262	Y
2	STD1 280-657950/14	50.0	42.221127	50.0	695917.0	0.844423	Y
3	STD2 280-657950/15	50.0	41.925979	50.0	675890.0	0.83852	Y
4	STD5 280-657950/16	50.0	41.416092	50.0	679836.0	0.828322	Y
5	STD10 280-657950/17	50.0	41.824502	50.0	650309.0	0.83649	Y
6	ICIS 280-657950/18	50.0	40.919324	50.0	668067.0	0.818386	Y
7	STD75 280-657950/19	50.0	39.570465	50.0	629122.0	0.791409	Y
8	STD100 280-657950/20	50.0	39.90287	50.0	604548.0	0.798057	Y
9	STD200 280-657950/21	50.0	38.6502	50.0	621729.0	0.773004	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

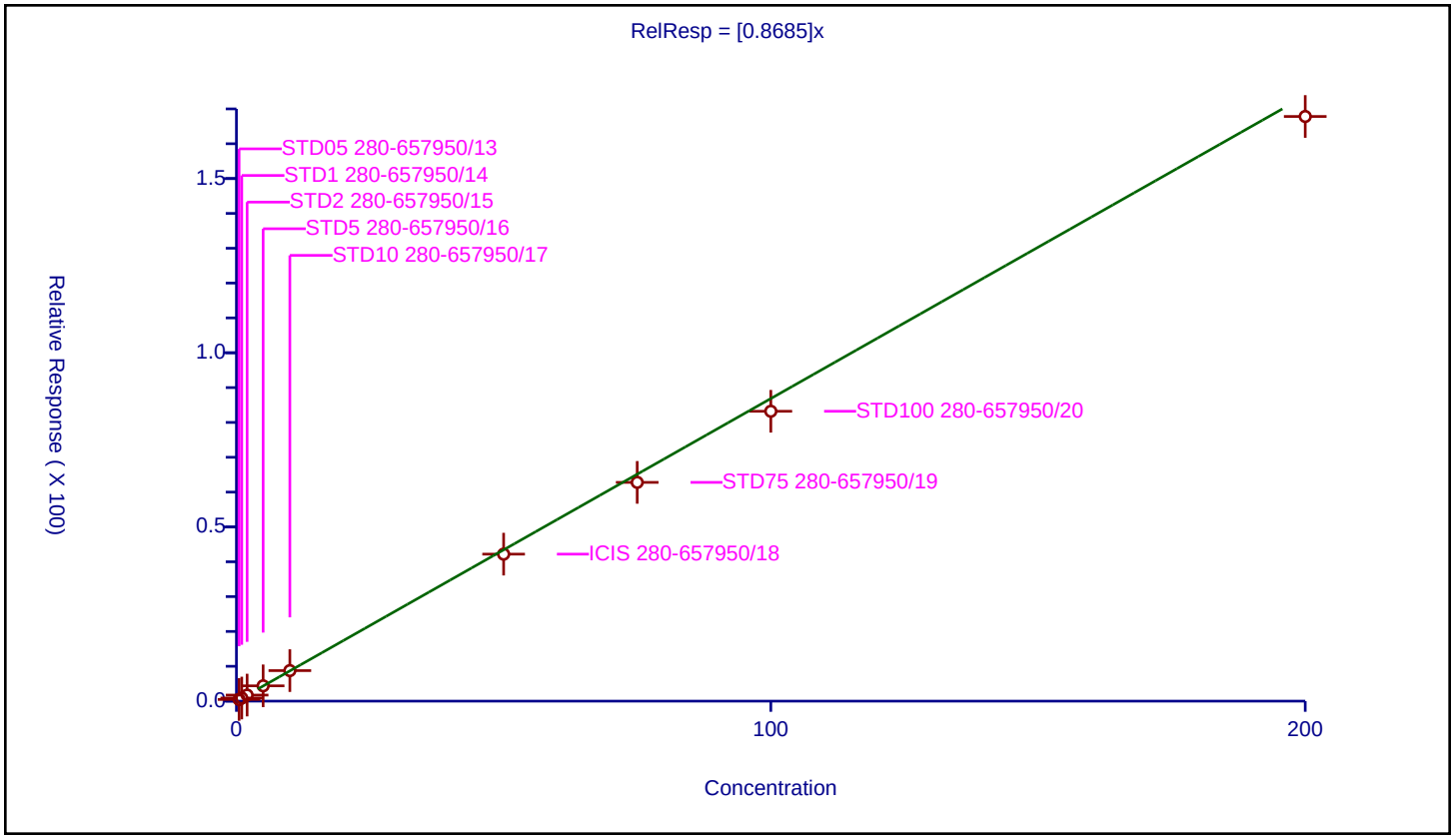
Curve Coefficients

Intercept:	0
Slope:	0.8685

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.475503	50.0	669817.0	0.951006	Y
2	STD1 280-657950/14	1.0	0.888037	50.0	695917.0	0.888037	Y
3	STD2 280-657950/15	2.0	1.740446	50.0	675890.0	0.870223	Y
4	STD5 280-657950/16	5.0	4.394074	50.0	679836.0	0.878815	Y
5	STD10 280-657950/17	10.0	8.765218	50.0	650309.0	0.876522	Y
6	ICIS 280-657950/18	50.0	42.194421	50.0	668067.0	0.843888	Y
7	STD75 280-657950/19	75.0	62.790365	50.0	629122.0	0.837205	Y
8	STD100 280-657950/20	100.0	83.208447	50.0	604548.0	0.832084	Y
9	STD200 280-657950/21	200.0	167.817972	50.0	621729.0	0.83909	Y



7/5/2024
11:14:22 AM

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

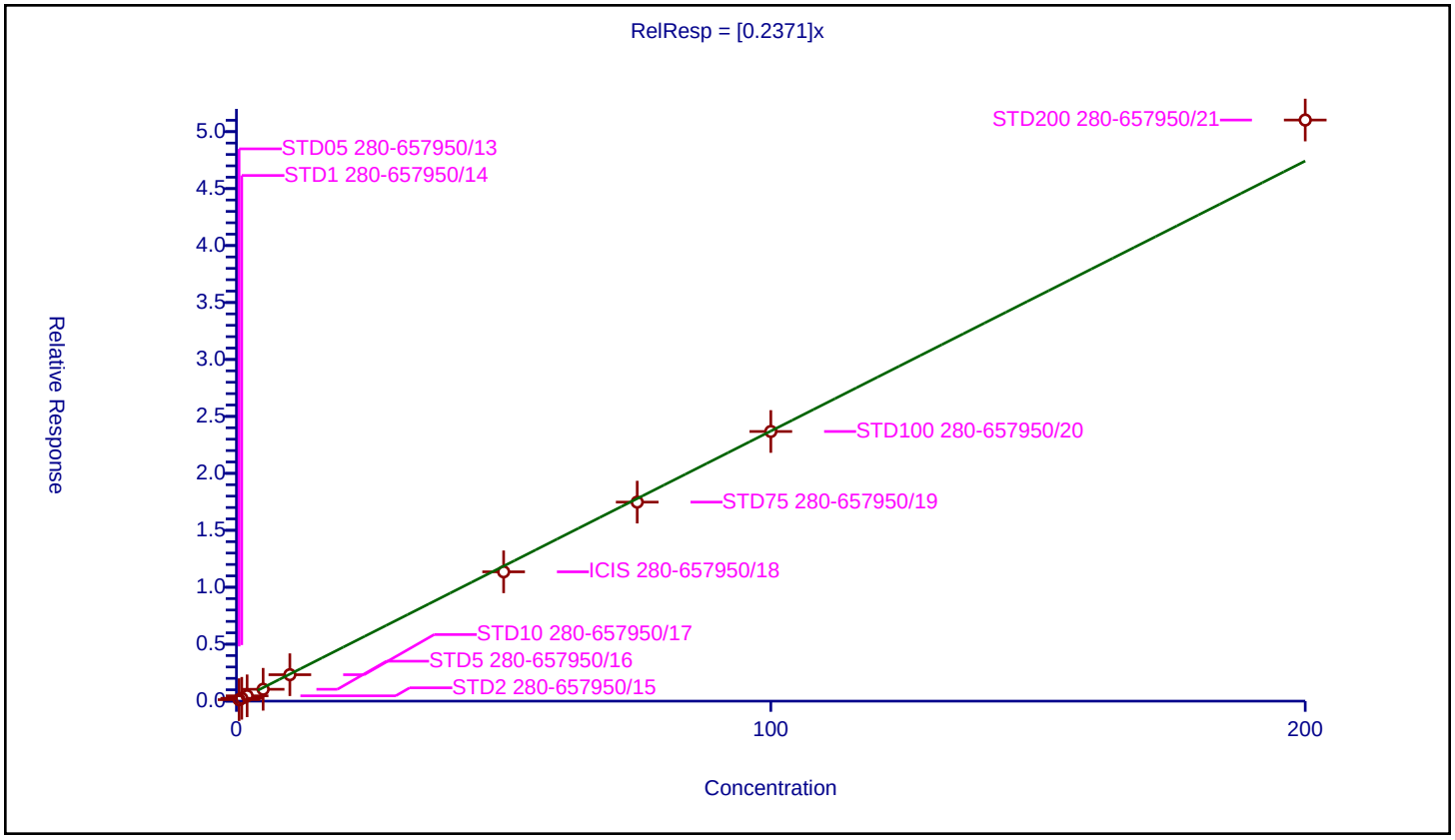
Curve Coefficients

Intercept:	0
Slope:	0.2371

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.129364	50.0	669817.0	0.258727	Y
2	STD1 280-657950/14	1.0	0.249168	50.0	695917.0	0.249168	Y
3	STD2 280-657950/15	2.0	0.467532	50.0	675890.0	0.233766	Y
4	STD5 280-657950/16	5.0	1.041501	50.0	679836.0	0.2083	Y
5	STD10 280-657950/17	10.0	2.321973	50.0	650309.0	0.232197	Y
6	ICIS 280-657950/18	50.0	11.355298	50.0	668067.0	0.227106	Y
7	STD75 280-657950/19	75.0	17.47483	50.0	629122.0	0.232998	Y
8	STD100 280-657950/20	100.0	23.675209	50.0	604548.0	0.236752	Y
9	STD200 280-657950/21	200.0	51.022793	50.0	621729.0	0.255114	Y



7/5/2024
11:14:22 AM

Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

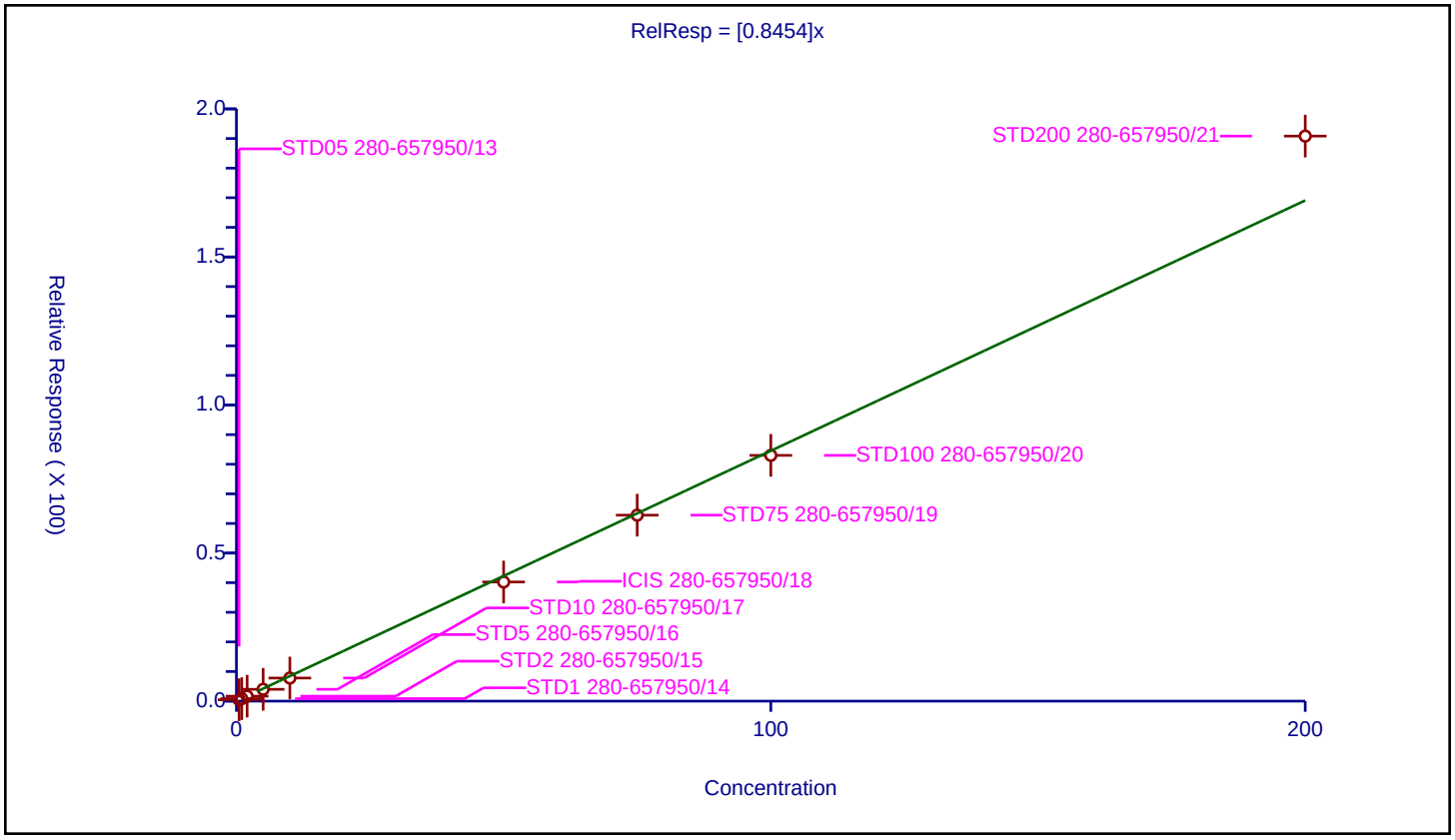
Curve Coefficients

Intercept:	0
Slope:	0.8454

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.461544	50.0	669817.0	0.923088	Y
2	STD1 280-657950/14	1.0	0.84112	50.0	695917.0	0.84112	Y
3	STD2 280-657950/15	2.0	1.6769	50.0	675890.0	0.83845	Y
4	STD5 280-657950/16	5.0	4.000891	50.0	679836.0	0.800178	Y
5	STD10 280-657950/17	10.0	7.800907	50.0	650309.0	0.780091	Y
6	ICIS 280-657950/18	50.0	40.236234	50.0	668067.0	0.804725	Y
7	STD75 280-657950/19	75.0	62.801651	50.0	629122.0	0.837355	Y
8	STD100 280-657950/20	100.0	82.995312	50.0	604548.0	0.829953	Y
9	STD200 280-657950/21	200.0	190.817623	50.0	621729.0	0.954088	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

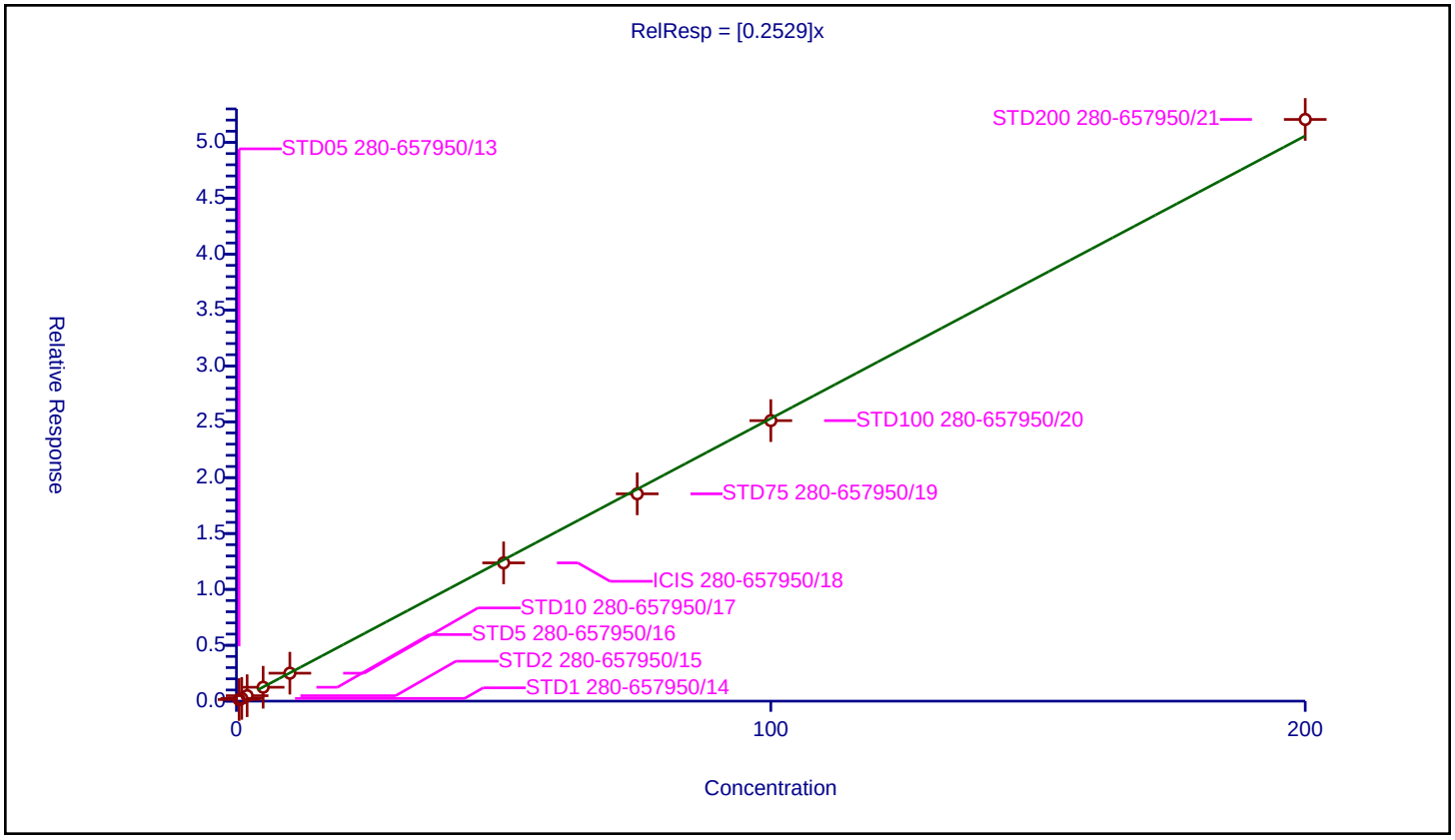
Curve Coefficients

Intercept:	0
Slope:	0.2529

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.141904	50.0	669817.0	0.283809	Y
2	STD1 280-657950/14	1.0	0.24421	50.0	695917.0	0.24421	Y
3	STD2 280-657950/15	2.0	0.486322	50.0	675890.0	0.243161	Y
4	STD5 280-657950/16	5.0	1.243682	50.0	679836.0	0.248736	Y
5	STD10 280-657950/17	10.0	2.50258	50.0	650309.0	0.250258	Y
6	ICIS 280-657950/18	50.0	12.374956	50.0	668067.0	0.247499	Y
7	STD75 280-657950/19	75.0	18.551648	50.0	629122.0	0.247355	Y
8	STD100 280-657950/20	100.0	25.102721	50.0	604548.0	0.251027	Y
9	STD200 280-657950/21	200.0	52.05588	50.0	621729.0	0.260279	Y



7/5/2024
11:14:22 AM

Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

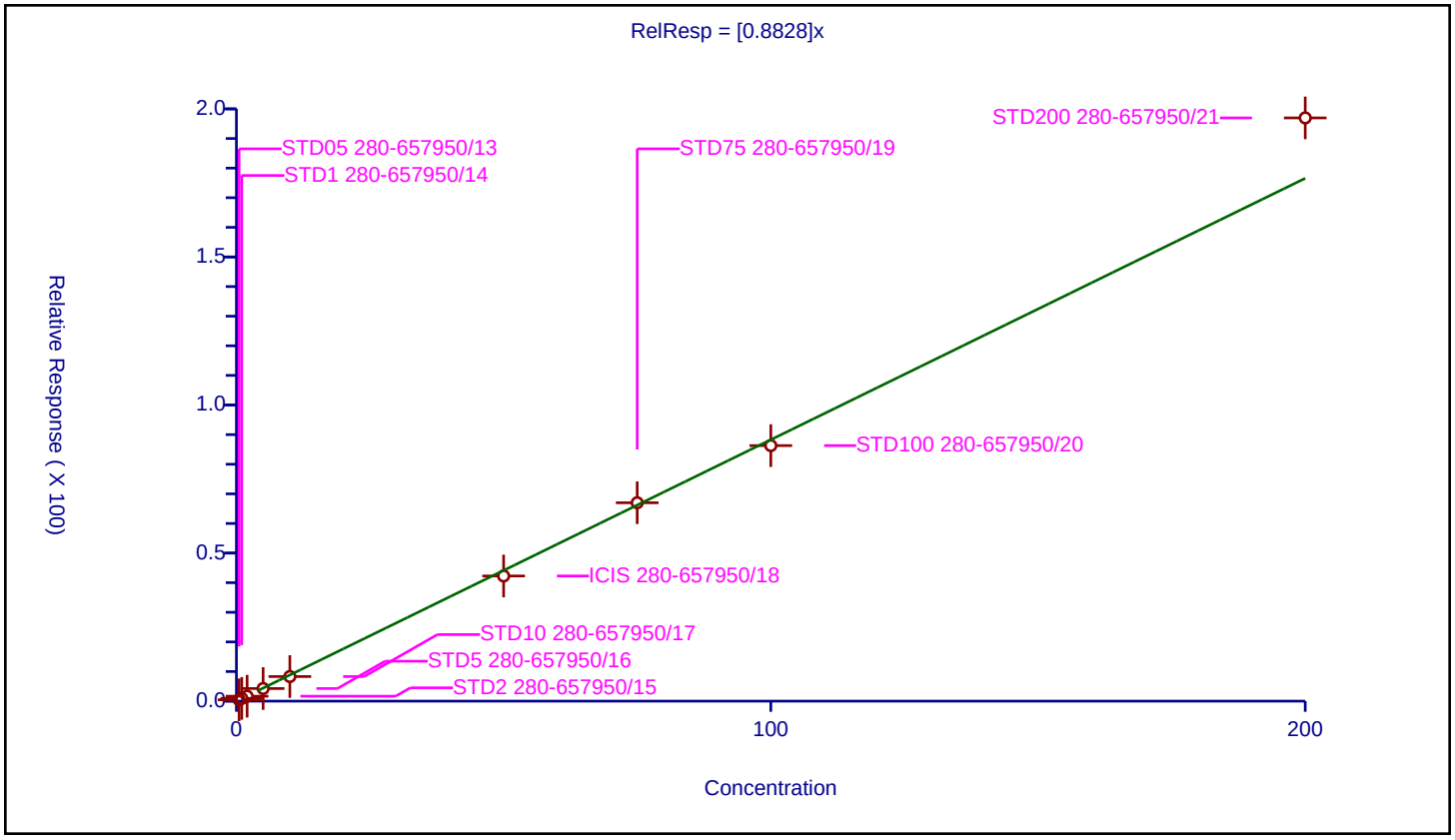
Curve Coefficients

Intercept:	0
Slope:	0.8828

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.456468	50.0	669817.0	0.912936	Y
2	STD1 280-657950/14	1.0	0.92978	50.0	695917.0	0.92978	Y
3	STD2 280-657950/15	2.0	1.667209	50.0	675890.0	0.833605	Y
4	STD5 280-657950/16	5.0	4.261616	50.0	679836.0	0.852323	Y
5	STD10 280-657950/17	10.0	8.302053	50.0	650309.0	0.830205	Y
6	ICIS 280-657950/18	50.0	42.265072	50.0	668067.0	0.845301	Y
7	STD75 280-657950/19	75.0	66.992173	50.0	629122.0	0.893229	Y
8	STD100 280-657950/20	100.0	86.292238	50.0	604548.0	0.862922	Y
9	STD200 280-657950/21	200.0	196.951968	50.0	621729.0	0.98476	Y



7/5/2024
11:14:22 AM

Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

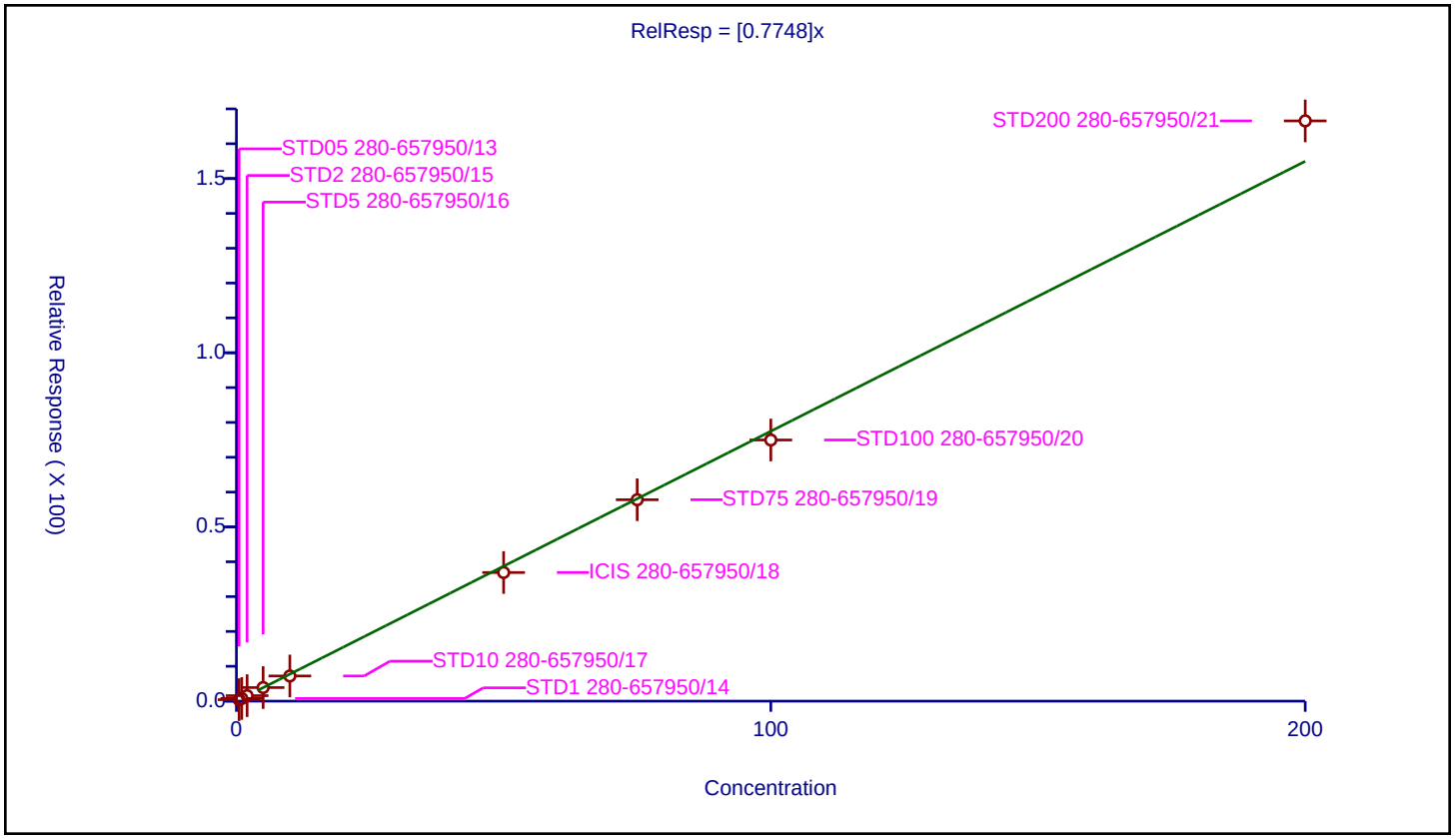
Curve Coefficients

Intercept:	0
Slope:	0.7748

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.416681	50.0	669817.0	0.833362	Y
2	STD1 280-657950/14	1.0	0.761872	50.0	695917.0	0.761872	Y
3	STD2 280-657950/15	2.0	1.570004	50.0	675890.0	0.785002	Y
4	STD5 280-657950/16	5.0	3.89594	50.0	679836.0	0.779188	Y
5	STD10 280-657950/17	10.0	7.221875	50.0	650309.0	0.722187	Y
6	ICIS 280-657950/18	50.0	36.919575	50.0	668067.0	0.738392	Y
7	STD75 280-657950/19	75.0	57.807945	50.0	629122.0	0.770773	Y
8	STD100 280-657950/20	100.0	74.955008	50.0	604548.0	0.74955	Y
9	STD200 280-657950/21	200.0	166.555525	50.0	621729.0	0.832778	Y



7/5/2024
11:14:22 AM

Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

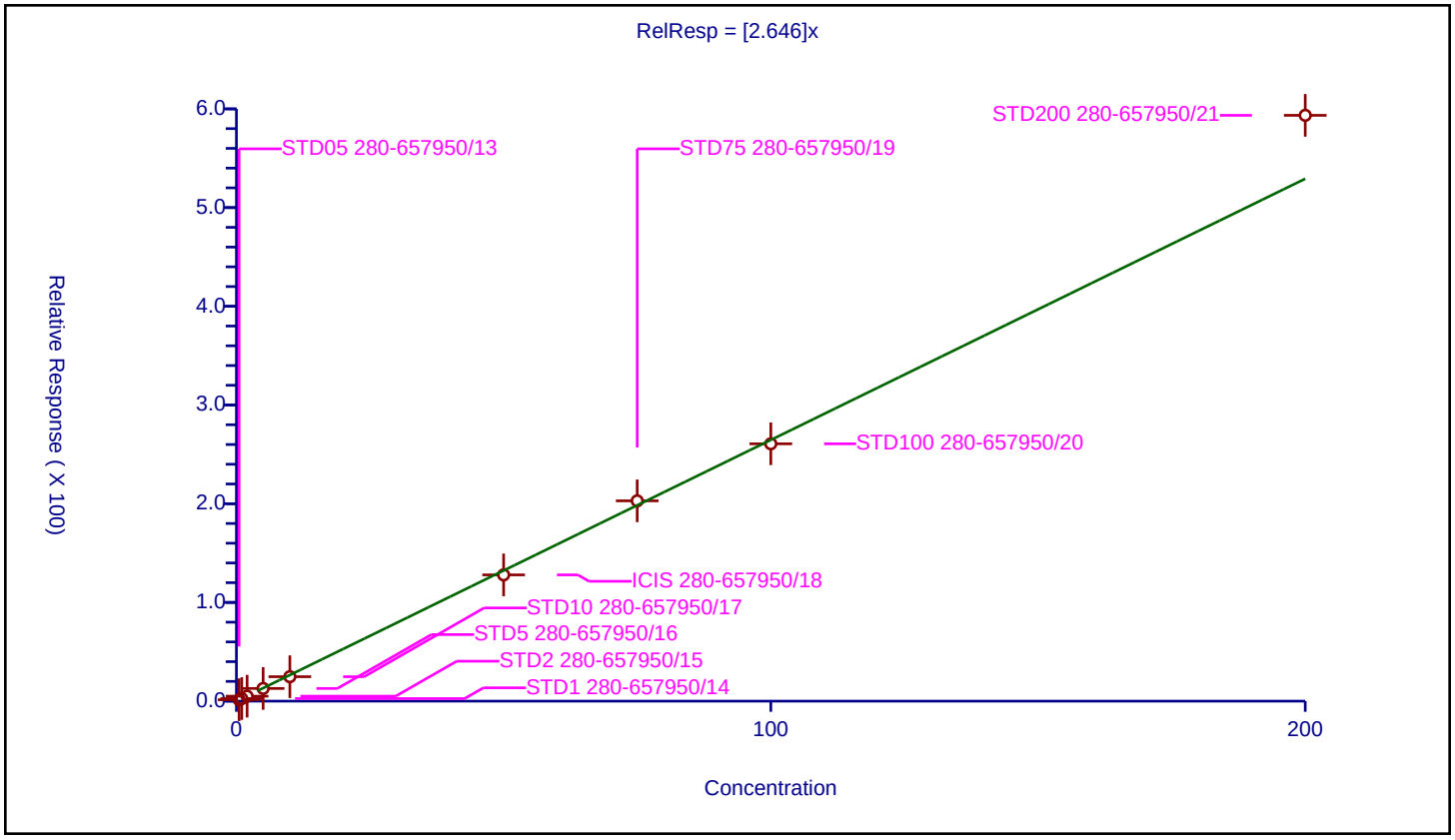
Curve Coefficients

Intercept:	0
Slope:	2.646

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.40404	50.0	669817.0	2.80808	Y
2	STD1 280-657950/14	1.0	2.611806	50.0	695917.0	2.611806	Y
3	STD2 280-657950/15	2.0	5.021675	50.0	675890.0	2.510838	Y
4	STD5 280-657950/16	5.0	12.847069	50.0	679836.0	2.569414	Y
5	STD10 280-657950/17	10.0	24.755001	50.0	650309.0	2.4755	Y
6	ICIS 280-657950/18	50.0	127.912994	50.0	668067.0	2.55826	Y
7	STD75 280-657950/19	75.0	202.927731	50.0	629122.0	2.705703	Y
8	STD100 280-657950/20	100.0	260.714286	50.0	604548.0	2.607143	Y
9	STD200 280-657950/21	200.0	593.474327	50.0	621729.0	2.967372	Y



7/5/2024
11:14:22 AM

Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

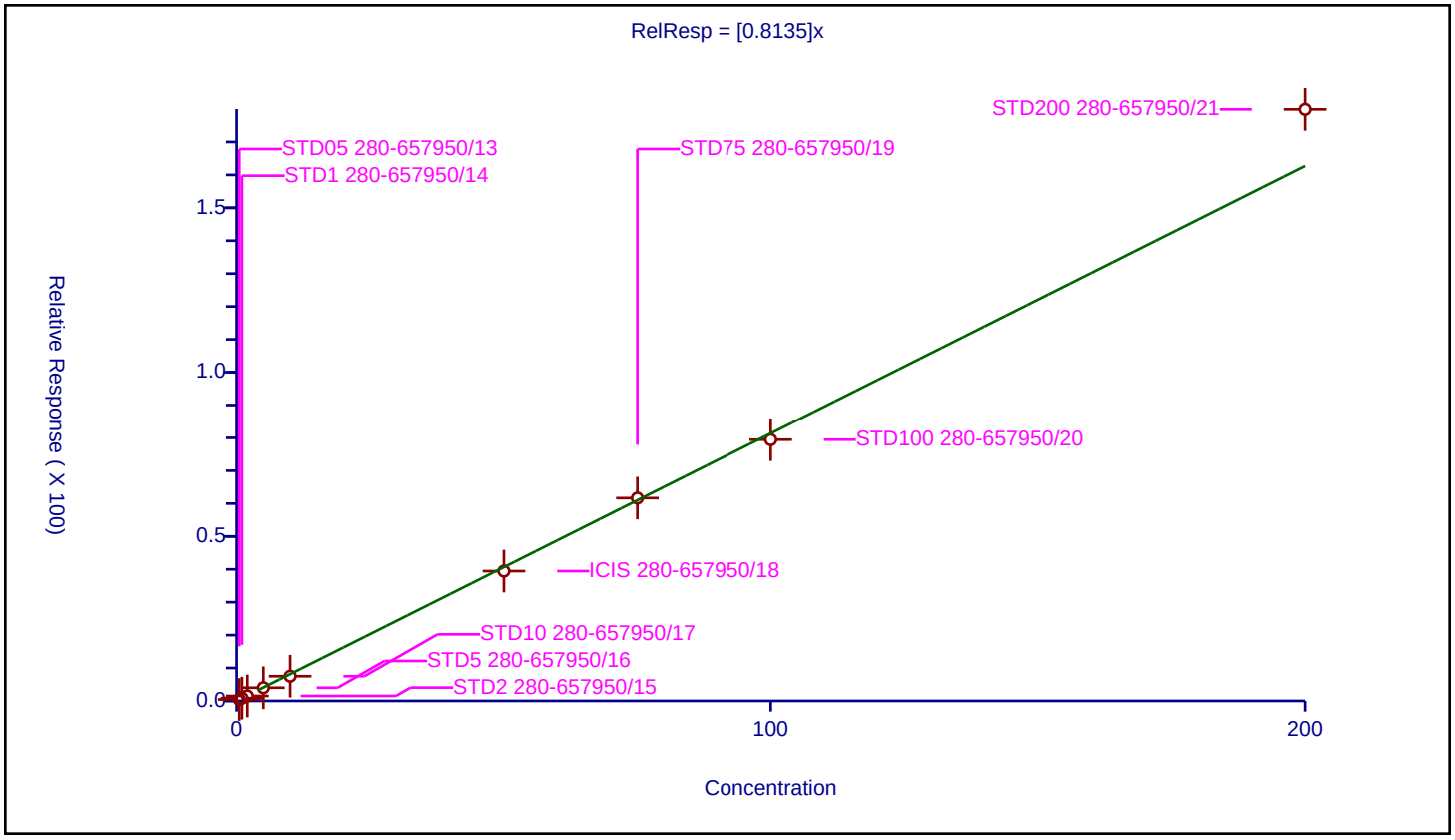
Curve Coefficients

Intercept:	0
Slope:	0.8135

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.431013	50.0	669817.0	0.862026	Y
2	STD1 280-657950/14	1.0	0.84773	50.0	695917.0	0.84773	Y
3	STD2 280-657950/15	2.0	1.512746	50.0	675890.0	0.756373	Y
4	STD5 280-657950/16	5.0	3.998979	50.0	679836.0	0.799796	Y
5	STD10 280-657950/17	10.0	7.505816	50.0	650309.0	0.750582	Y
6	ICIS 280-657950/18	50.0	39.461611	50.0	668067.0	0.789232	Y
7	STD75 280-657950/19	75.0	61.667848	50.0	629122.0	0.822238	Y
8	STD100 280-657950/20	100.0	79.442906	50.0	604548.0	0.794429	Y
9	STD200 280-657950/21	200.0	179.907484	50.0	621729.0	0.899537	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

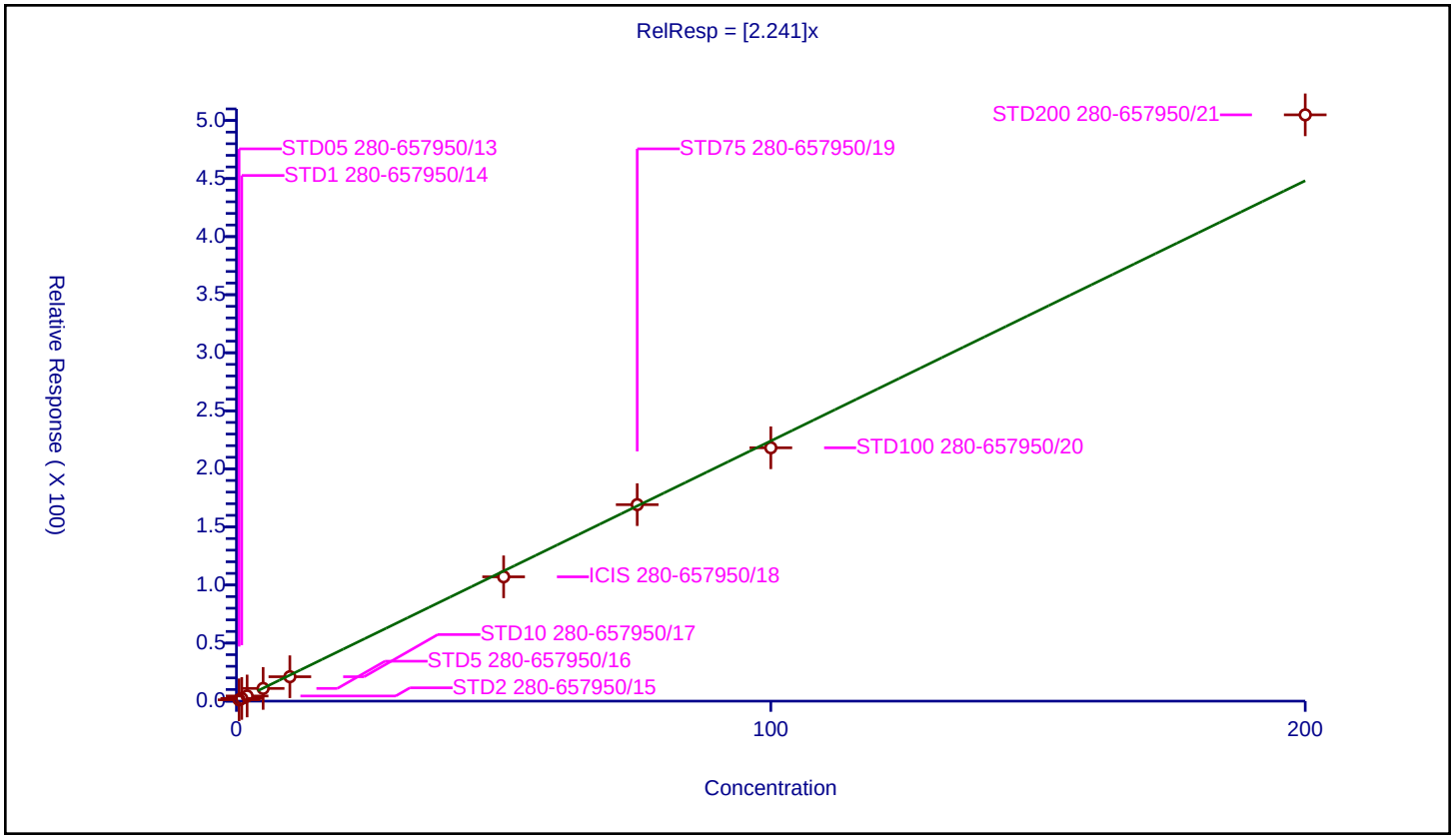
Curve Coefficients

Intercept:	0
Slope:	2.241

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.129413	50.0	669817.0	2.258826	Y
2	STD1 280-657950/14	1.0	2.293808	50.0	695917.0	2.293808	Y
3	STD2 280-657950/15	2.0	4.444288	50.0	675890.0	2.222144	Y
4	STD5 280-657950/16	5.0	10.940065	50.0	679836.0	2.188013	Y
5	STD10 280-657950/17	10.0	21.008782	50.0	650309.0	2.100878	Y
6	ICIS 280-657950/18	50.0	107.053784	50.0	668067.0	2.141076	Y
7	STD75 280-657950/19	75.0	169.19882	50.0	629122.0	2.255984	Y
8	STD100 280-657950/20	100.0	218.177796	50.0	604548.0	2.181778	Y
9	STD200 280-657950/21	200.0	504.886293	50.0	621729.0	2.524431	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

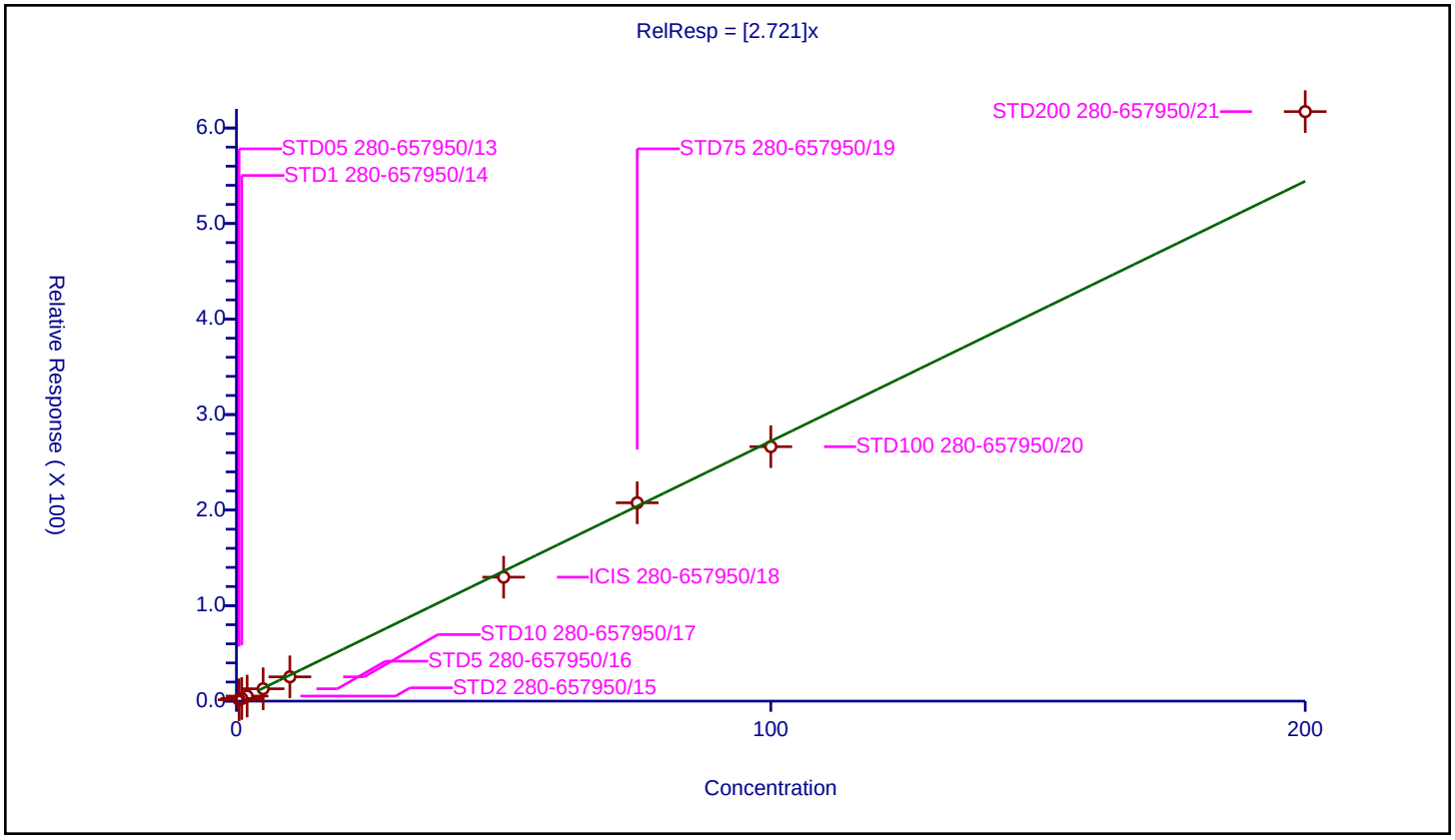
Curve Coefficients

Intercept:	0
Slope:	2.721

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.431286	50.0	669817.0	2.862573	Y
2	STD1 280-657950/14	1.0	2.726834	50.0	695917.0	2.726834	Y
3	STD2 280-657950/15	2.0	5.312181	50.0	675890.0	2.65609	Y
4	STD5 280-657950/16	5.0	12.951212	50.0	679836.0	2.590242	Y
5	STD10 280-657950/17	10.0	25.436293	50.0	650309.0	2.543629	Y
6	ICIS 280-657950/18	50.0	129.781669	50.0	668067.0	2.595633	Y
7	STD75 280-657950/19	75.0	207.639377	50.0	629122.0	2.768525	Y
8	STD100 280-657950/20	100.0	266.408623	50.0	604548.0	2.664086	Y
9	STD200 280-657950/21	200.0	617.15828	50.0	621729.0	3.085791	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

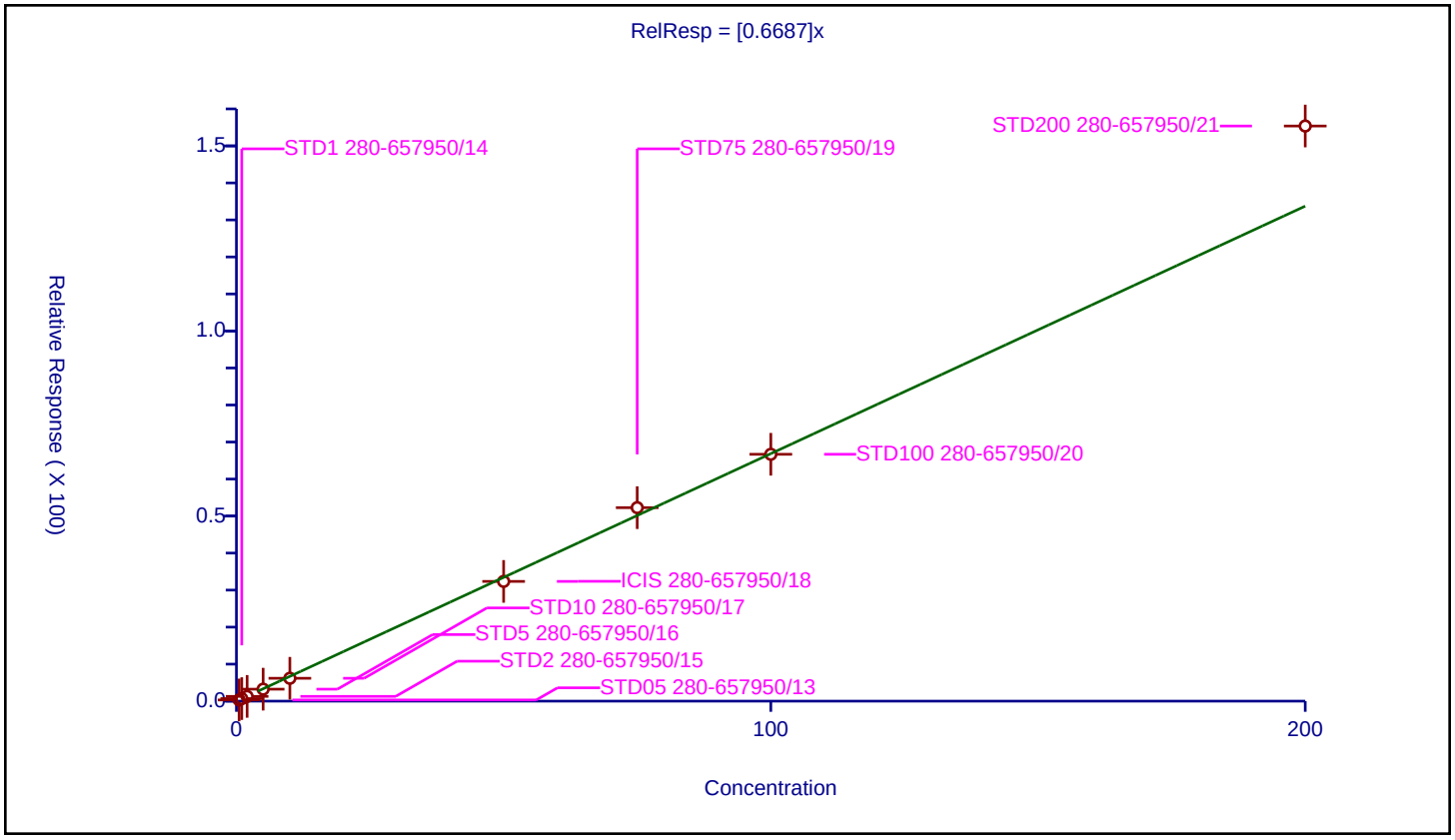
Curve Coefficients

Intercept:	0
Slope:	0.6687

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.319341	50.0	669817.0	0.638682	Y
2	STD1 280-657950/14	1.0	0.687223	50.0	695917.0	0.687223	Y
3	STD2 280-657950/15	2.0	1.281496	50.0	675890.0	0.640748	Y
4	STD5 280-657950/16	5.0	3.230779	50.0	679836.0	0.646156	Y
5	STD10 280-657950/17	10.0	6.17468	50.0	650309.0	0.617468	Y
6	ICIS 280-657950/18	50.0	32.348477	50.0	668067.0	0.64697	Y
7	STD75 280-657950/19	75.0	52.273009	50.0	629122.0	0.696973	Y
8	STD100 280-657950/20	100.0	66.687343	50.0	604548.0	0.666873	Y
9	STD200 280-657950/21	200.0	155.372196	50.0	621729.0	0.776861	Y



7/5/2024
11:14:22 AM

Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

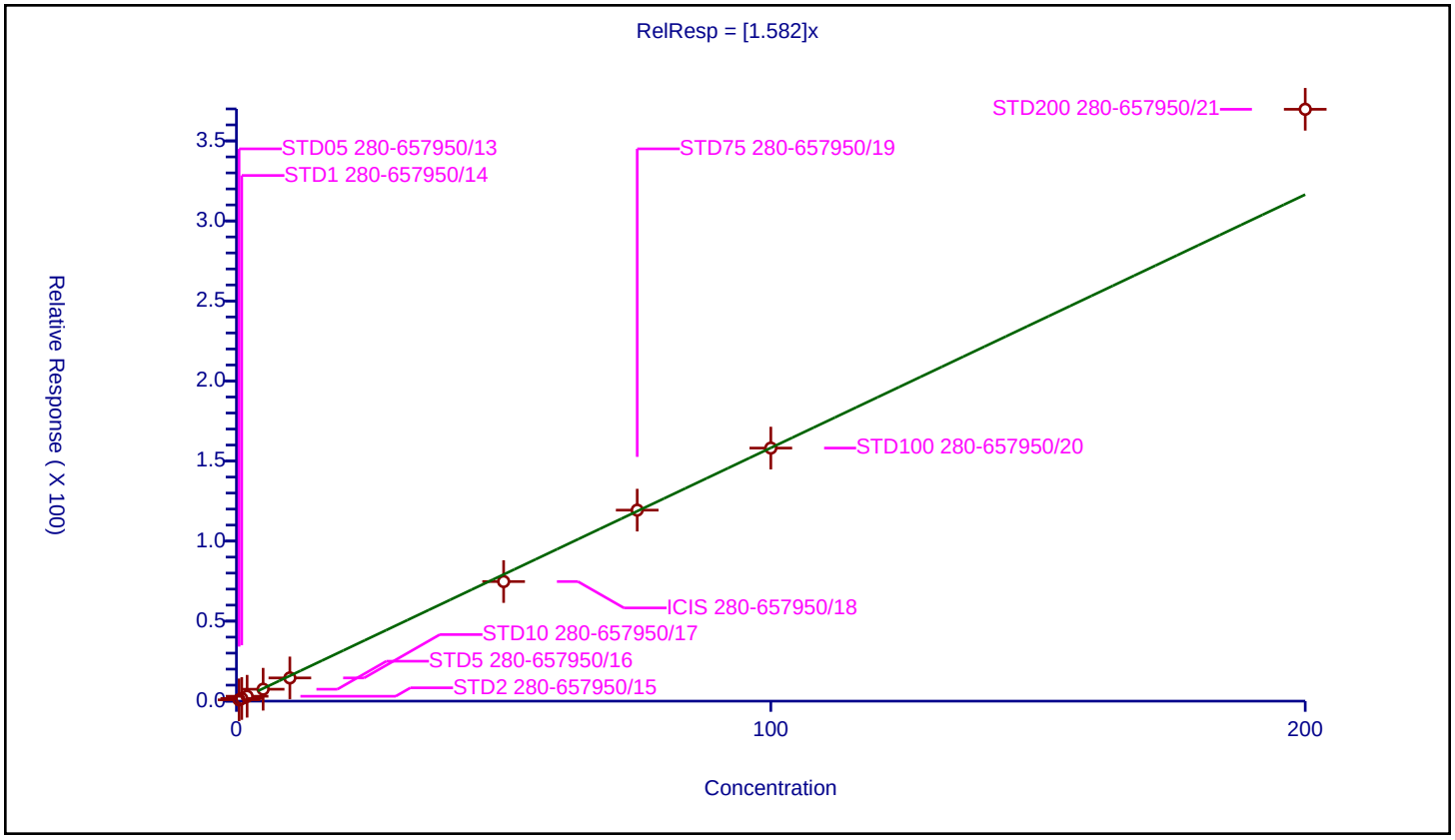
Curve Coefficients

Intercept:	0
Slope:	1.582

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.814849	50.0	669817.0	1.629699	Y
2	STD1 280-657950/14	1.0	1.632307	50.0	695917.0	1.632307	Y
3	STD2 280-657950/15	2.0	3.050053	50.0	675890.0	1.525026	Y
4	STD5 280-657950/16	5.0	7.444957	50.0	679836.0	1.488991	Y
5	STD10 280-657950/17	10.0	14.497416	50.0	650309.0	1.449742	Y
6	ICIS 280-657950/18	50.0	74.726113	50.0	668067.0	1.494522	Y
7	STD75 280-657950/19	75.0	119.328604	50.0	629122.0	1.591048	Y
8	STD100 280-657950/20	100.0	158.092161	50.0	604548.0	1.580922	Y
9	STD200 280-657950/21	200.0	369.754829	50.0	621729.0	1.848774	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

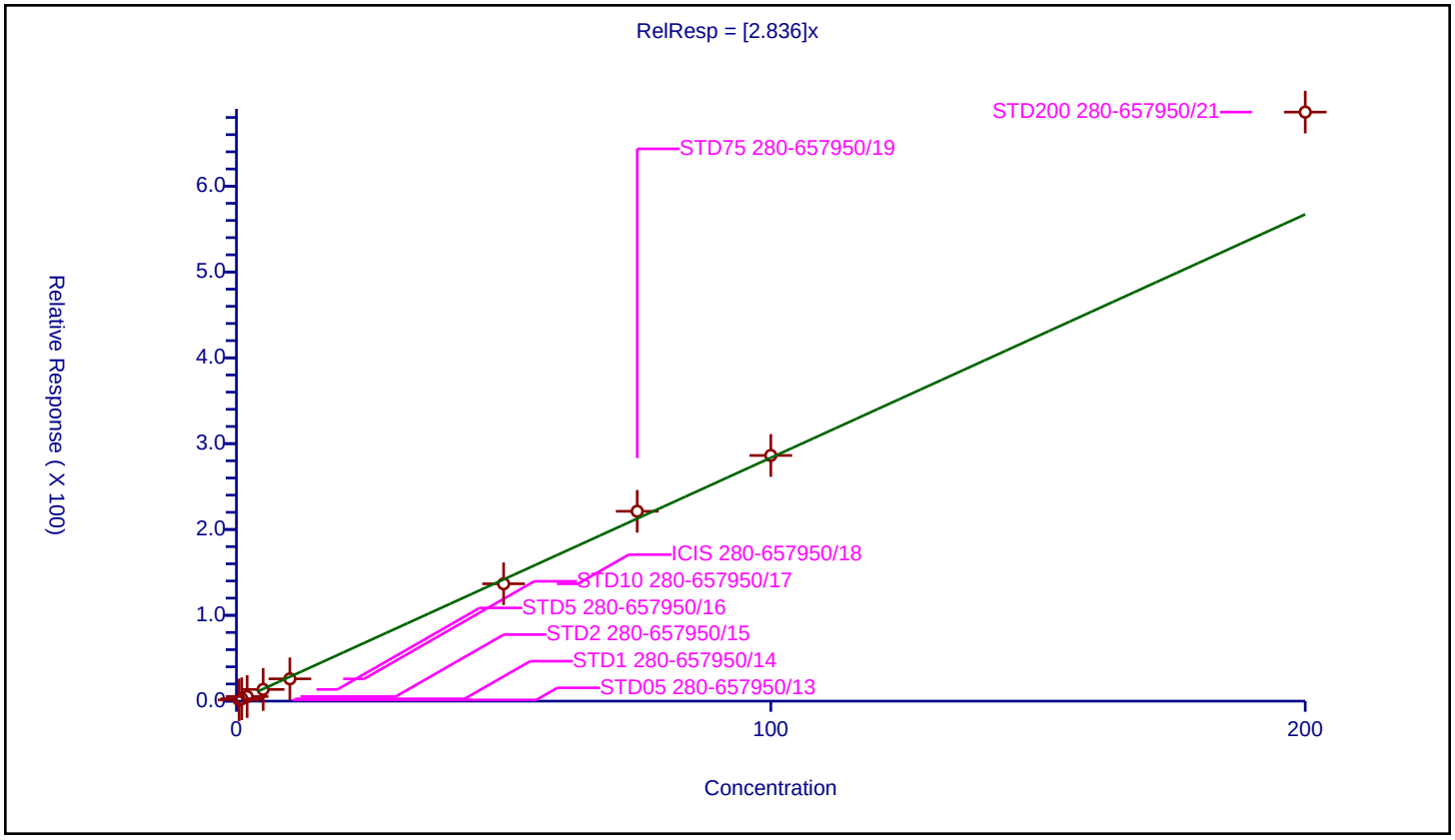
Curve Coefficients

Intercept:	0
Slope:	2.836

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.401502	50.0	669817.0	2.803004	Y
2	STD1 280-657950/14	1.0	2.745011	50.0	695917.0	2.745011	Y
3	STD2 280-657950/15	2.0	5.338813	50.0	675890.0	2.669406	Y
4	STD5 280-657950/16	5.0	13.646453	50.0	679836.0	2.729291	Y
5	STD10 280-657950/17	10.0	25.970731	50.0	650309.0	2.597073	Y
6	ICIS 280-657950/18	50.0	136.723263	50.0	668067.0	2.734465	Y
7	STD75 280-657950/19	75.0	221.19422	50.0	629122.0	2.949256	Y
8	STD100 280-657950/20	100.0	286.23178	50.0	604548.0	2.862318	Y
9	STD200 280-657950/21	200.0	686.289686	50.0	621729.0	3.431448	Y



7/5/2024
11:14:22 AM

Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

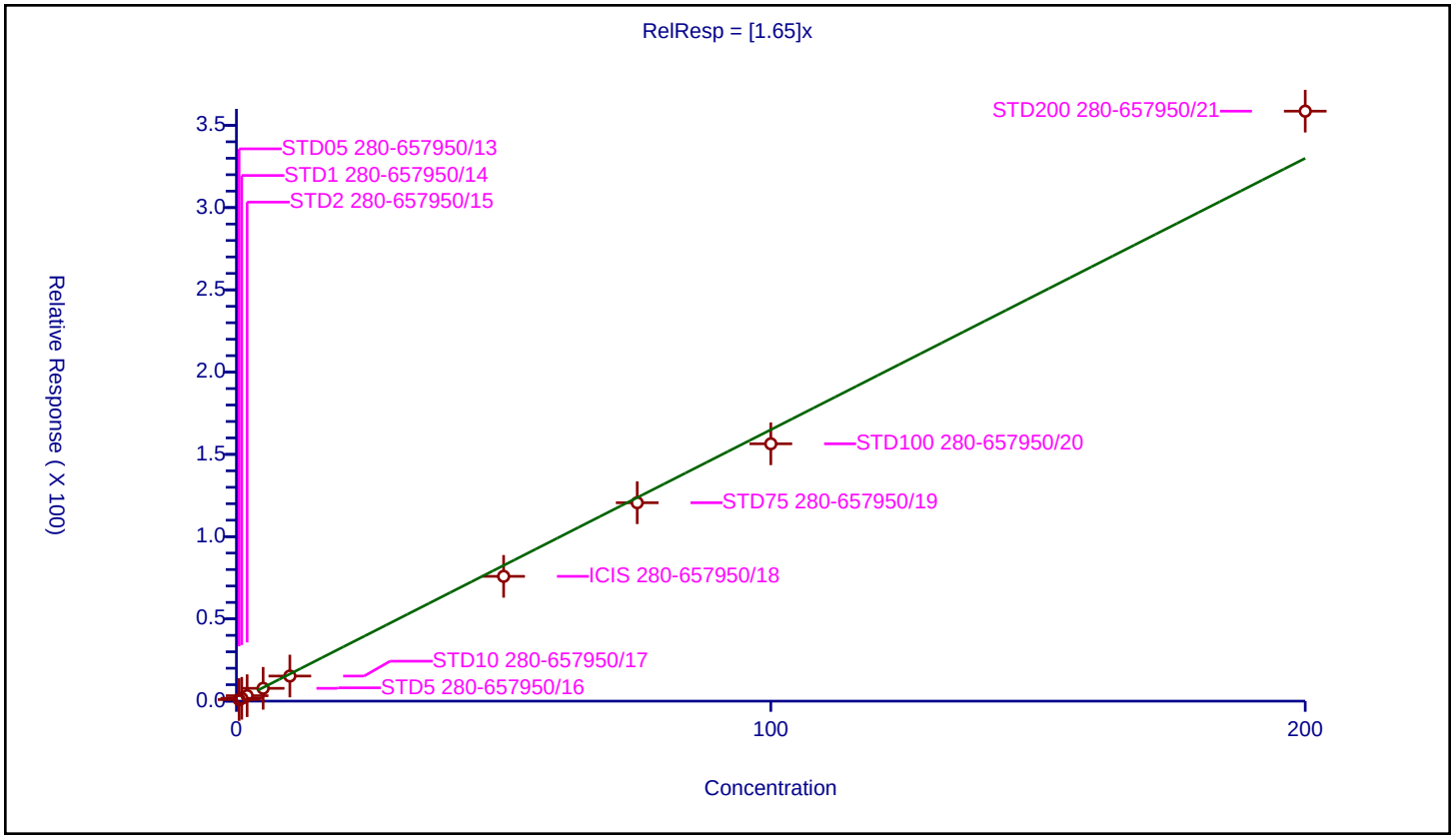
Curve Coefficients

Intercept:	0
Slope:	1.65

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.953619	50.0	669817.0	1.907237	Y
2	STD1 280-657950/14	1.0	1.720823	50.0	695917.0	1.720823	Y
3	STD2 280-657950/15	2.0	3.304384	50.0	675890.0	1.652192	Y
4	STD5 280-657950/16	5.0	7.800852	50.0	679836.0	1.56017	Y
5	STD10 280-657950/17	10.0	15.257285	50.0	650309.0	1.525729	Y
6	ICIS 280-657950/18	50.0	75.857886	50.0	668067.0	1.517158	Y
7	STD75 280-657950/19	75.0	120.603555	50.0	629122.0	1.608047	Y
8	STD100 280-657950/20	100.0	156.429928	50.0	604548.0	1.564299	Y
9	STD200 280-657950/21	200.0	358.624658	50.0	621729.0	1.793123	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

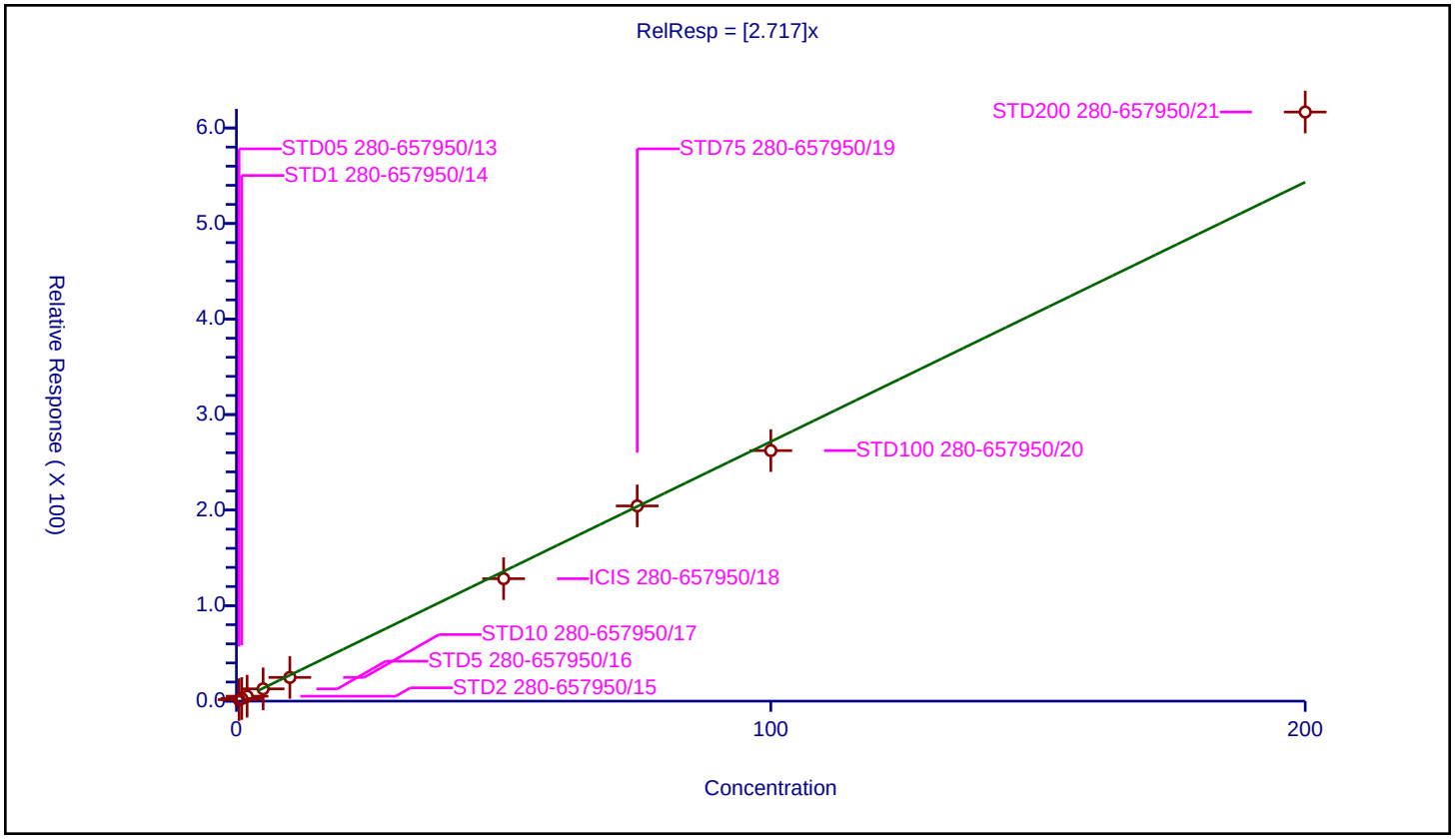
Curve Coefficients

Intercept:	0
Slope:	2.717

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.539674	50.0	669817.0	3.079349	Y
2	STD1 280-657950/14	1.0	2.737539	50.0	695917.0	2.737539	Y
3	STD2 280-657950/15	2.0	5.162526	50.0	675890.0	2.581263	Y
4	STD5 280-657950/16	5.0	12.872443	50.0	679836.0	2.574489	Y
5	STD10 280-657950/17	10.0	24.828274	50.0	650309.0	2.482827	Y
6	ICIS 280-657950/18	50.0	128.178835	50.0	668067.0	2.563577	Y
7	STD75 280-657950/19	75.0	204.353448	50.0	629122.0	2.724713	Y
8	STD100 280-657950/20	100.0	262.268836	50.0	604548.0	2.622688	Y
9	STD200 280-657950/21	200.0	616.709692	50.0	621729.0	3.083548	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

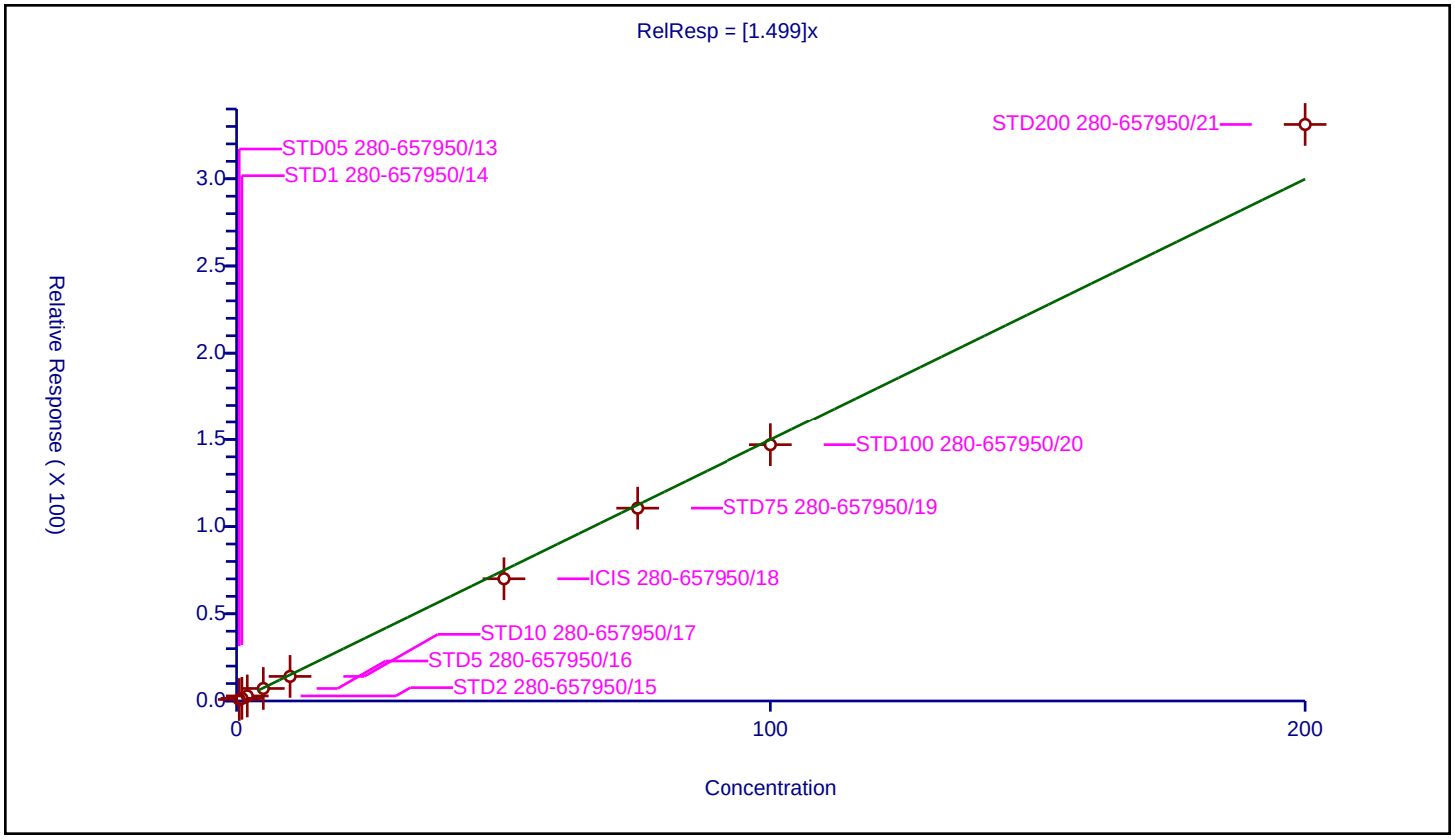
Curve Coefficients

Intercept:	0
Slope:	1.499

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.842245	50.0	669817.0	1.68449	Y
2	STD1 280-657950/14	1.0	1.511459	50.0	695917.0	1.511459	Y
3	STD2 280-657950/15	2.0	2.900102	50.0	675890.0	1.450051	Y
4	STD5 280-657950/16	5.0	7.177099	50.0	679836.0	1.43542	Y
5	STD10 280-657950/17	10.0	14.091916	50.0	650309.0	1.409192	Y
6	ICIS 280-657950/18	50.0	70.087132	50.0	668067.0	1.401743	Y
7	STD75 280-657950/19	75.0	110.577996	50.0	629122.0	1.474373	Y
8	STD100 280-657950/20	100.0	146.971456	50.0	604548.0	1.469715	Y
9	STD200 280-657950/21	200.0	331.145322	50.0	621729.0	1.655727	Y



7/5/2024
11:14:22 AM

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

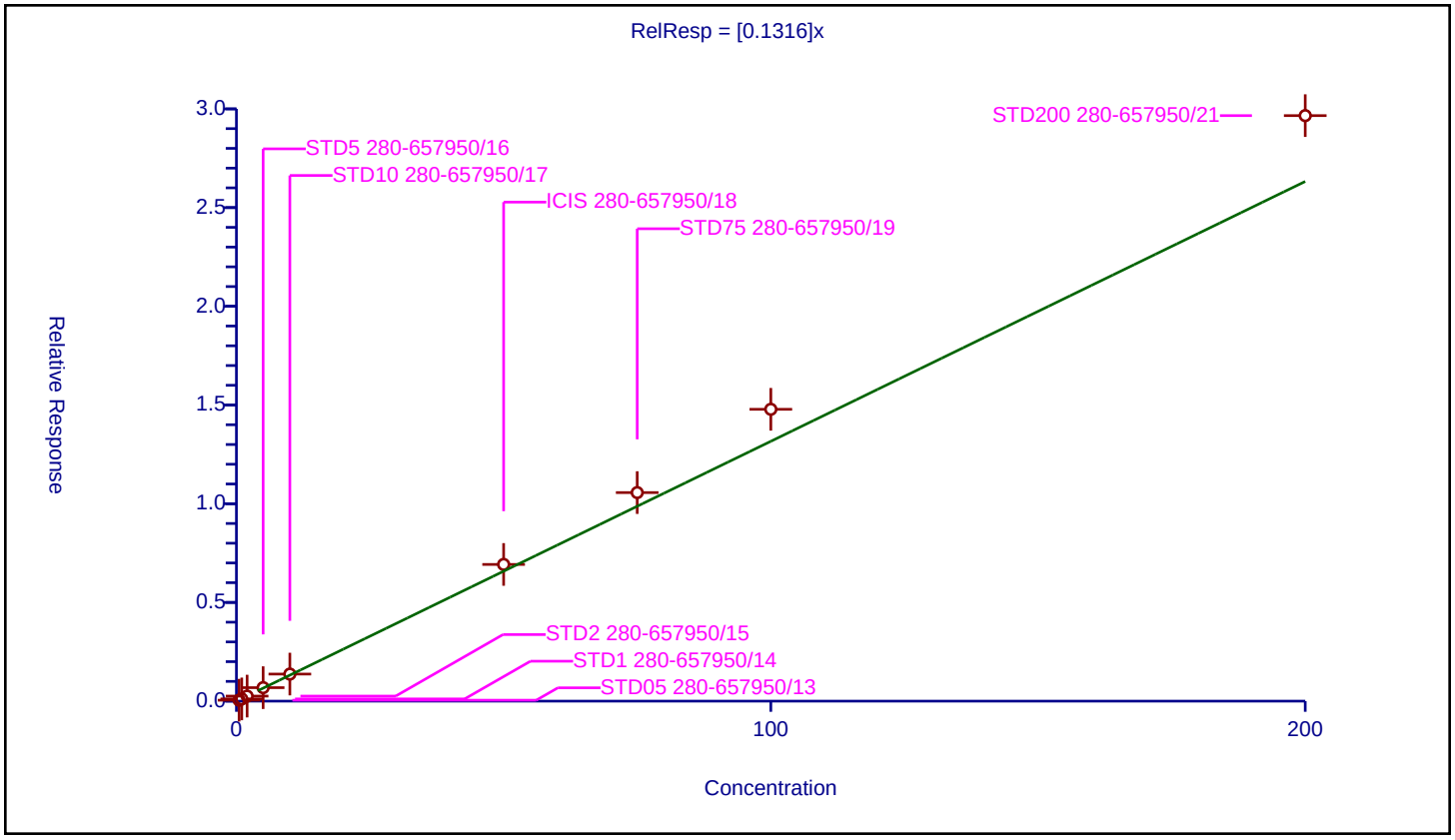
Curve Coefficients

Intercept:	0
Slope:	0.1316

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.047625	50.0	669817.0	0.09525	Y
2	STD1 280-657950/14	1.0	0.112298	50.0	695917.0	0.112298	Y
3	STD2 280-657950/15	2.0	0.255515	50.0	675890.0	0.127757	Y
4	STD5 280-657950/16	5.0	0.683694	50.0	679836.0	0.136739	Y
5	STD10 280-657950/17	10.0	1.370733	50.0	650309.0	0.137073	Y
6	ICIS 280-657950/18	50.0	6.92438	50.0	668067.0	0.138488	Y
7	STD75 280-657950/19	75.0	10.56377	50.0	629122.0	0.14085	Y
8	STD100 280-657950/20	100.0	14.782532	50.0	604548.0	0.147825	Y
9	STD200 280-657950/21	200.0	29.65834	50.0	621729.0	0.148292	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

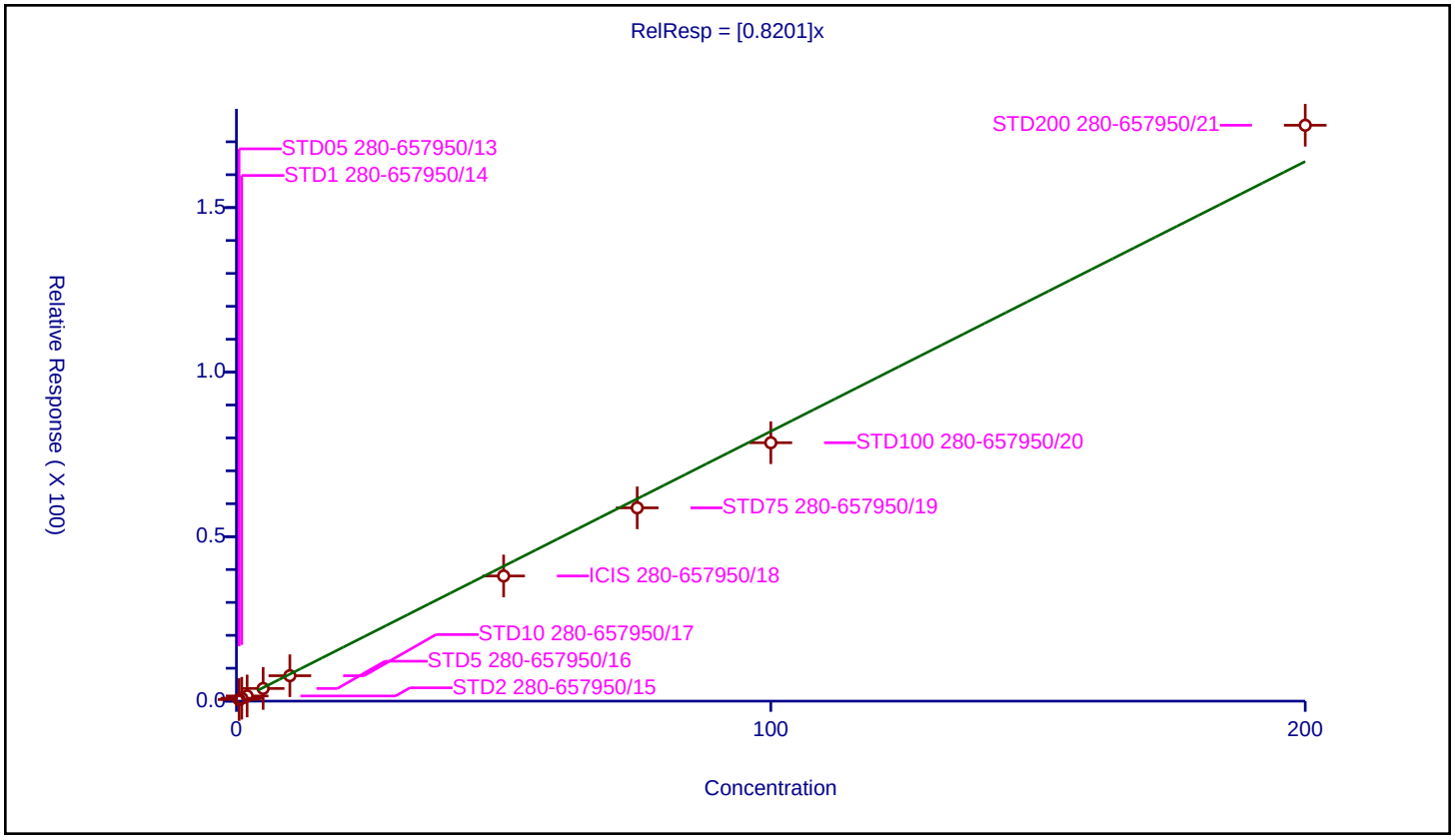
Curve Coefficients

Intercept:	0
Slope:	0.8201

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.481997	50.0	669817.0	0.963995	Y
2	STD1 280-657950/14	1.0	0.881211	50.0	695917.0	0.881211	Y
3	STD2 280-657950/15	2.0	1.576514	50.0	675890.0	0.788257	Y
4	STD5 280-657950/16	5.0	3.849826	50.0	679836.0	0.769965	Y
5	STD10 280-657950/17	10.0	7.724328	50.0	650309.0	0.772433	Y
6	ICIS 280-657950/18	50.0	38.045436	50.0	668067.0	0.760909	Y
7	STD75 280-657950/19	75.0	58.748224	50.0	629122.0	0.78331	Y
8	STD100 280-657950/20	100.0	78.540827	50.0	604548.0	0.785408	Y
9	STD200 280-657950/21	200.0	175.028107	50.0	621729.0	0.875141	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

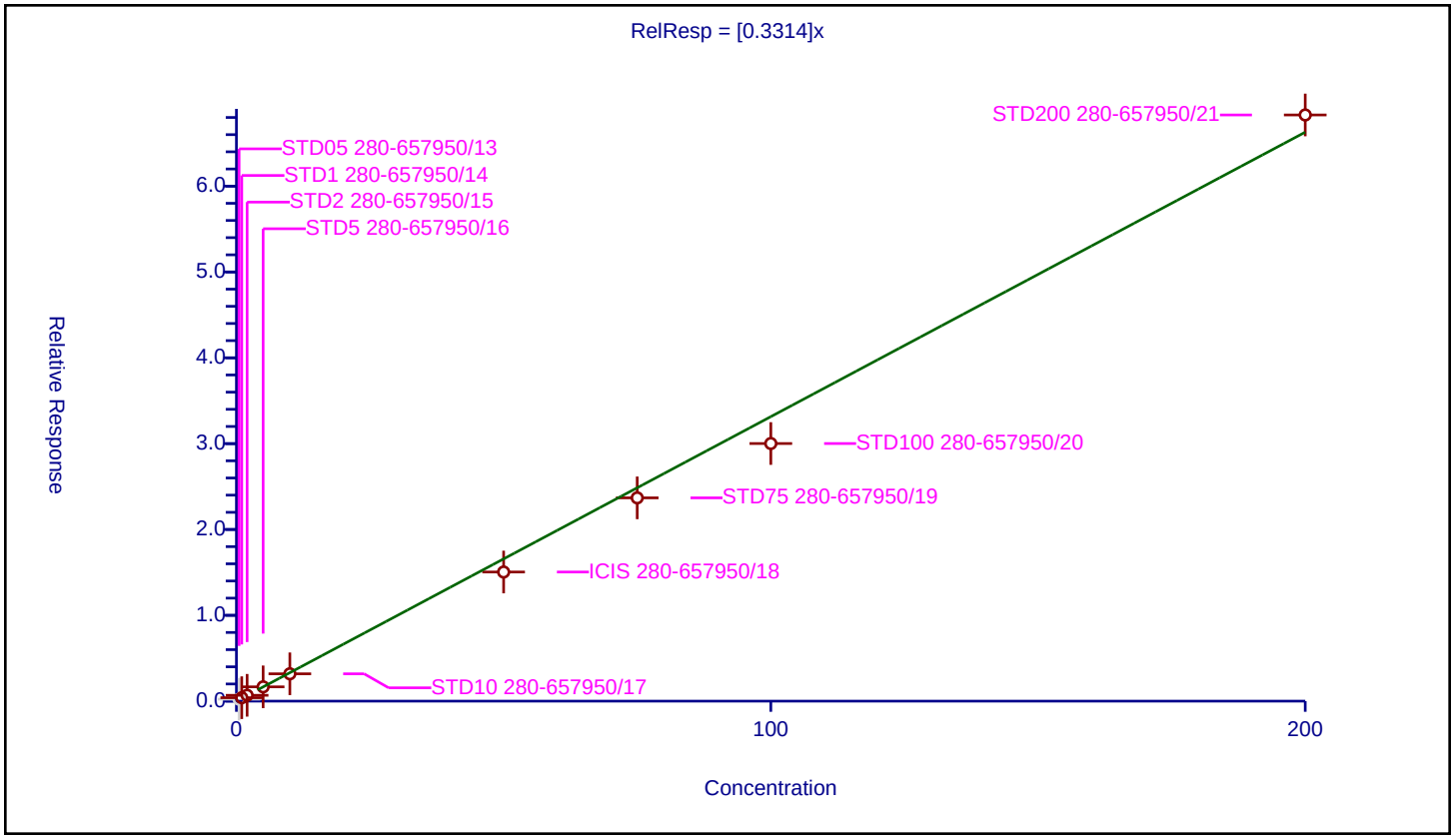
Curve Coefficients

Intercept:	0
Slope:	0.3314

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.229839	50.0	669817.0	0.459678	N
2	STD1 280-657950/14	1.0	0.401844	50.0	695917.0	0.401844	Y
3	STD2 280-657950/15	2.0	0.679622	50.0	675890.0	0.339811	Y
4	STD5 280-657950/16	5.0	1.66496	50.0	679836.0	0.332992	Y
5	STD10 280-657950/17	10.0	3.185178	50.0	650309.0	0.318518	Y
6	ICIS 280-657950/18	50.0	15.044749	50.0	668067.0	0.300895	Y
7	STD75 280-657950/19	75.0	23.684675	50.0	629122.0	0.315796	Y
8	STD100 280-657950/20	100.0	30.015317	50.0	604548.0	0.300153	Y
9	STD200 280-657950/21	200.0	68.29334	50.0	621729.0	0.341467	Y



7/5/2024
11:14:22 AM

Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

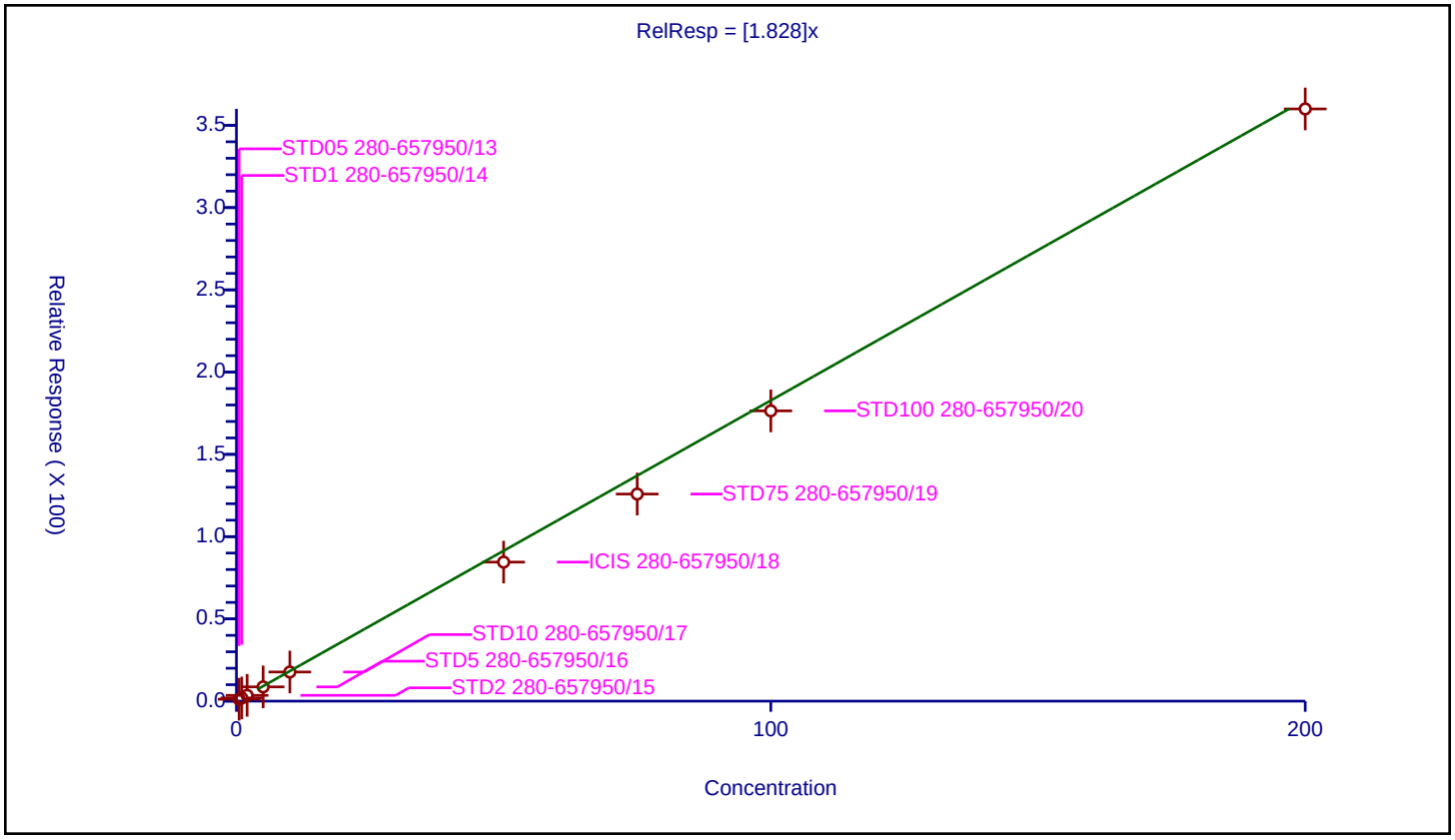
Curve Coefficients

Intercept:	0
Slope:	1.828

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	1.157704	50.0	669817.0	2.315409	Y
2	STD1 280-657950/14	1.0	1.937013	50.0	695917.0	1.937013	Y
3	STD2 280-657950/15	2.0	3.519582	50.0	675890.0	1.759791	Y
4	STD5 280-657950/16	5.0	8.666208	50.0	679836.0	1.733242	Y
5	STD10 280-657950/17	10.0	17.714271	50.0	650309.0	1.771427	Y
6	ICIS 280-657950/18	50.0	84.515326	50.0	668067.0	1.690307	Y
7	STD75 280-657950/19	75.0	125.878129	50.0	629122.0	1.678375	Y
8	STD100 280-657950/20	100.0	176.436032	50.0	604548.0	1.76436	Y
9	STD200 280-657950/21	200.0	359.969697	50.0	621729.0	1.799848	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

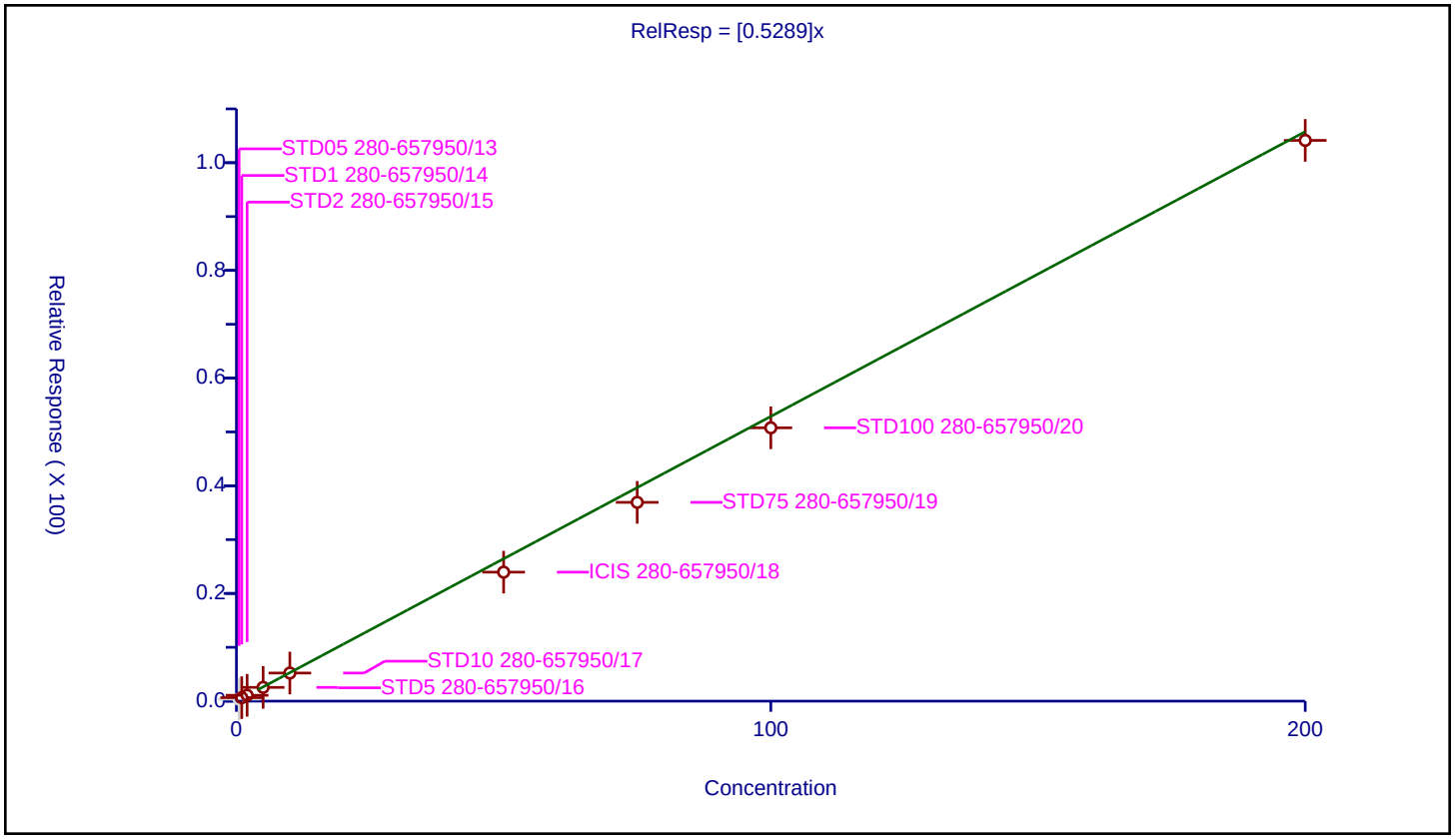
Curve Coefficients

Intercept:	0
Slope:	0.5289

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-657950/13	0.5	0.371445	50.0	669817.0	0.742889	N
2	STD1 280-657950/14	1.0	0.65367	50.0	695917.0	0.65367	Y
3	STD2 280-657950/15	2.0	1.087899	50.0	675890.0	0.543949	Y
4	STD5 280-657950/16	5.0	2.555469	50.0	679836.0	0.511094	Y
5	STD10 280-657950/17	10.0	5.223132	50.0	650309.0	0.522313	Y
6	ICIS 280-657950/18	50.0	23.957852	50.0	668067.0	0.479157	Y
7	STD75 280-657950/19	75.0	36.920661	50.0	629122.0	0.492275	Y
8	STD100 280-657950/20	100.0	50.766854	50.0	604548.0	0.507669	Y
9	STD200 280-657950/21	200.0	104.147305	50.0	621729.0	0.520737	Y



7/5/2024
11:14:22 AM

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 658360

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/25/2024 18:27 Calibration End Date: 06/25/2024 21:11 Calibration ID: 94935

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-658360/13	P86662.D
Level 2	IC 280-658360/14	P86663.D
Level 3	IC 280-658360/15	P86664.D
Level 4	IC 280-658360/16	P86665.D
Level 5	IC 280-658360/17	P86666.D
Level 6	IC 280-658360/18	P86667.D
Level 7	IC 280-658360/19	P86668.D
Level 8	IC 280-658360/20	P86669.D
Level 9	IC 280-658360/21	P86670.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2122 0.2442	0.2601 0.2453	0.2485 0.2319	0.2815 0.2204	0.2550	Lin1	0.0314	0.2309							0.9970		0.9900
Chloromethane	+++++ 0.5248	0.6508 0.5096	0.5548 0.4904	0.5883 +++++	0.5528	Lin1	0.1871	0.5038			0.1000				0.9990		0.9900
Vinyl chloride	0.7839 0.6586	0.7556 0.6459	0.6699 0.6233	0.7236 0.6238	0.6951	Lin1	0.1274	0.6322							0.9990		0.9900
Bromomethane	0.7595 0.5909	0.6521 0.6056	0.5446 0.6287	0.5388 +++++	0.5510	Lin2	0.0846	0.5683							0.9920		0.9900
Chloroethane	0.3452 0.2414	0.2236 0.2522	0.2795 0.2588	0.2654 +++++	0.2486	Lin1	0.0251	0.2523							0.9990		0.9900
Dichlorofluoromethane	0.6199 0.5158	0.6070 0.5115	0.5194 0.5156	0.5645 0.5285	0.5308	Ave		0.5459				7.6		15.0			
Trichlorofluoromethane	0.4130 0.3850	0.4299 0.3961	0.3644 0.3829	0.4322 0.3819	0.3892	Ave		0.3972				5.8		15.0			
2-Chloroethyl vinyl ether	0.1331 0.1534	0.1870 0.1566	0.1459 0.1633	0.1467 0.1696	0.1517	Ave		0.1564				9.9		15.0			
Dibromofluoromethane (Surr)	0.2614 0.2639	0.2692 0.2607	0.2666 0.2680	0.2635 0.2662	0.2692	Ave		0.2654				1.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2442 0.2463	0.2491 0.2461	0.2456 0.2570	0.2437 0.2480	0.2528	Ave		0.2481				1.7		15.0			
Toluene-d8 (Surr)	4.1560 4.0988	4.0184 4.1261	3.9784 4.0620	3.9748 4.0634	4.0276	Ave		4.0562				1.6		15.0			
4-Bromofluorobenzene (Surr)	0.7702 0.7752	0.7661 0.7662	0.7725 0.7726	0.7652 0.7623	0.7609	Ave		0.7679				0.6		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 658360

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/25/2024 18:27 | Calibration End Date: 06/25/2024 21:11 | Calibration ID: 94935

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-658360/13	P86662.D
Level 2	IC 280-658360/14	P86663.D
Level 3	IC 280-658360/15	P86664.D
Level 4	IC 280-658360/16	P86665.D
Level 5	IC 280-658360/17	P86666.D
Level 6	IC 280-658360/18	P86667.D
Level 7	IC 280-658360/19	P86668.D
Level 8	IC 280-658360/20	P86669.D
Level 9	IC 280-658360/21	P86670.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	2136 241876	5099 373251	10054 472668	28184 856209	50728	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Lin1	+++++ 519817	12759 775503	22446 999619	58887 +++++	109969	+++++ 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Vinyl chloride	FB	Lin1	7891 652302	14813 982923	27103 1270382	72440 2423303	138270	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin2	7645 585265	12784 921685	22034 1281472	53939 +++++	109613	0.500 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Chloroethane	FB	Lin1	3475 239070	4383 383780	11308 527390	26570 +++++	49453	0.500 50.0	1.00 75.0	2.00 100	5.00 +++++	10.0
Dichlorofluoromethane	FB	Ave	6240 510890	11900 778415	21012 1050978	56512 2052989	105590	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	4157 381317	8428 602758	14743 780423	43263 1483633	77419	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	1340 151947	3666 238279	5903 332808	14683 658653	30181	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	263151 261347	263878 264463	269645 273076	263756 258518	267721	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	245828 243911	244207 249650	248413 261893	243963 240869	251405	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1000425 1001168	981168 1004780	993444 1029607	985169 975944	1001597	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	319842 321297	314522 319887	323716 323462	320535 310285	321113	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 658360

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/25/2024 18:27 | Calibration End Date: 06/25/2024 21:11 | Calibration ID: 94935

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_P\20240625-134884.b\P86662.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Jun-2024 18:27:30 ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 1
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:38 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: V8PV Date: 25-Jun-2024 22:39:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1006582	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.448	-0.005	84	240717	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	415254	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	263151	50.0	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	245828	50.0	49.2	
$ 6 Toluene-d8 (Surr)	98	6.171	6.177	-0.006	93	1000425	50.0	51.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.545	-0.006	94	319842	50.0	50.2	
9 Dichlorodifluoromethane	85	1.632	1.631	0.001	58	2136	0.5000	0.3235	a
10 Chloromethane	50	1.801	1.801	0.000	97	6364	0.5000	0.2560	
11 Vinyl chloride	62	1.883	1.882	0.000	97	7891	0.5000	0.4186	
12 Bromomethane	94	2.155	2.155	0.000	92	7645	0.5000	0.5194	
13 Chloroethane	64	2.232	2.232	0.000	91	3475	0.5000	0.5847	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	96	6240	0.5000	0.5678	
15 Trichlorofluoromethane	101	2.439	2.433	0.006	95	4157	0.5000	0.5199	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	84	1340	0.5000	0.4257	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

Cal Dil Std_00378 Amount Added: 5.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 26-Jun-2024 11:31:38 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86662.D

Injection Date: 25-Jun-2024 18:27:30 Instrument ID: VMS_P Operator ID: BJ

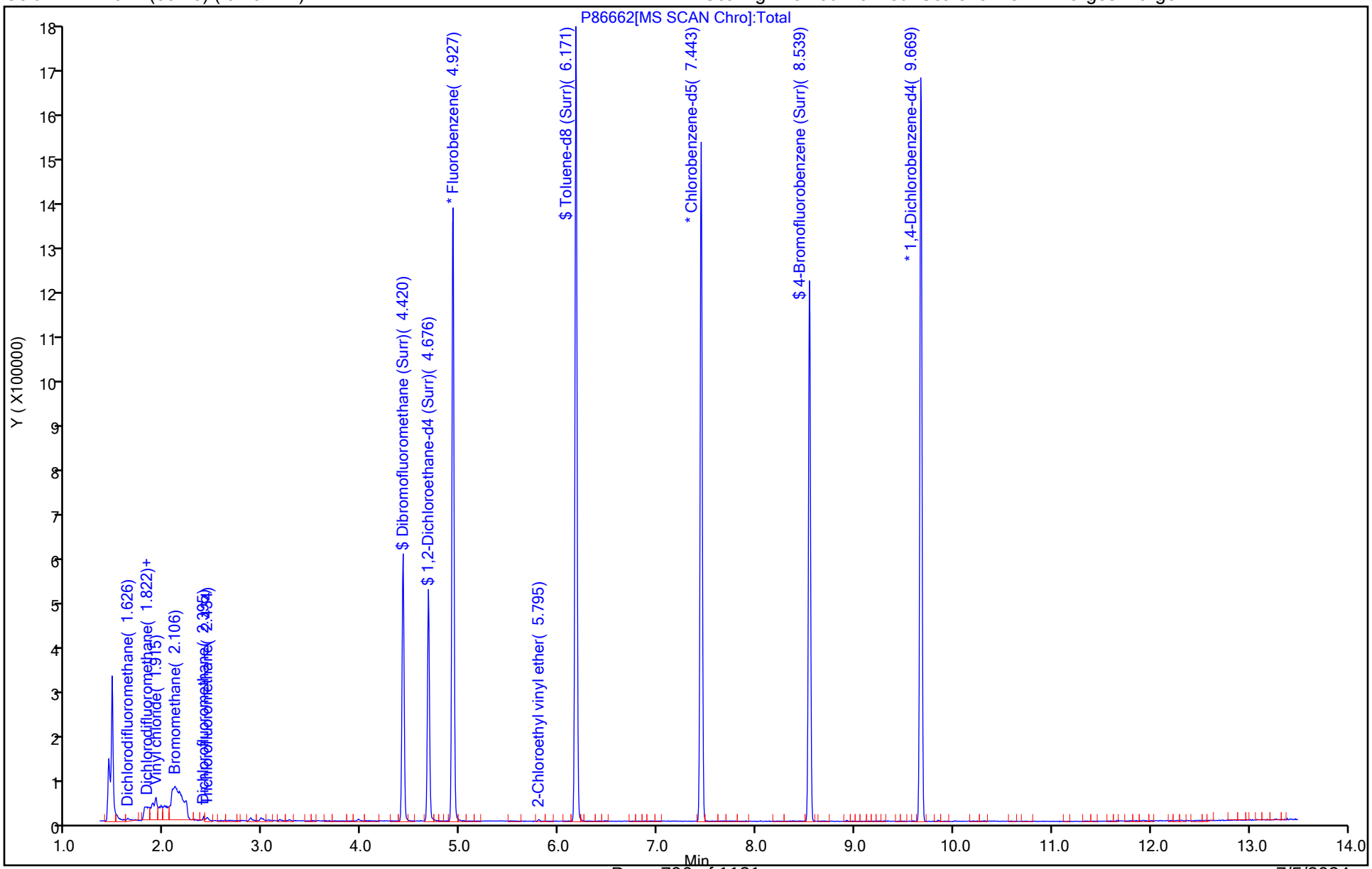
Lims ID: ic Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

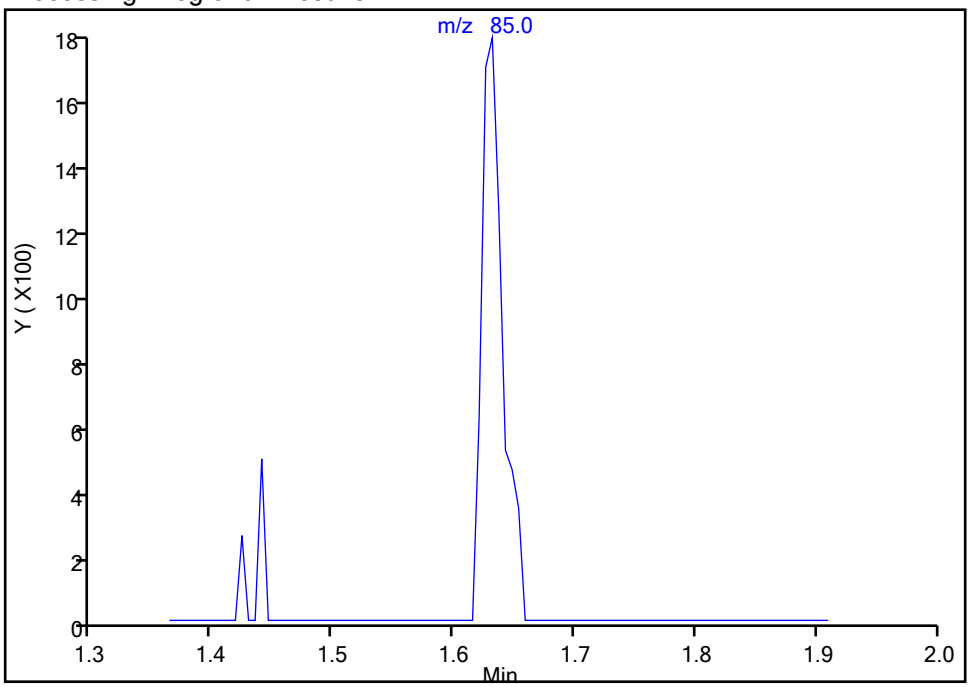
Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86662.D
Injection Date: 25-Jun-2024 18:27:30 Instrument ID: VMS_P
Lims ID: ic
Client ID:
Operator ID: BJ ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

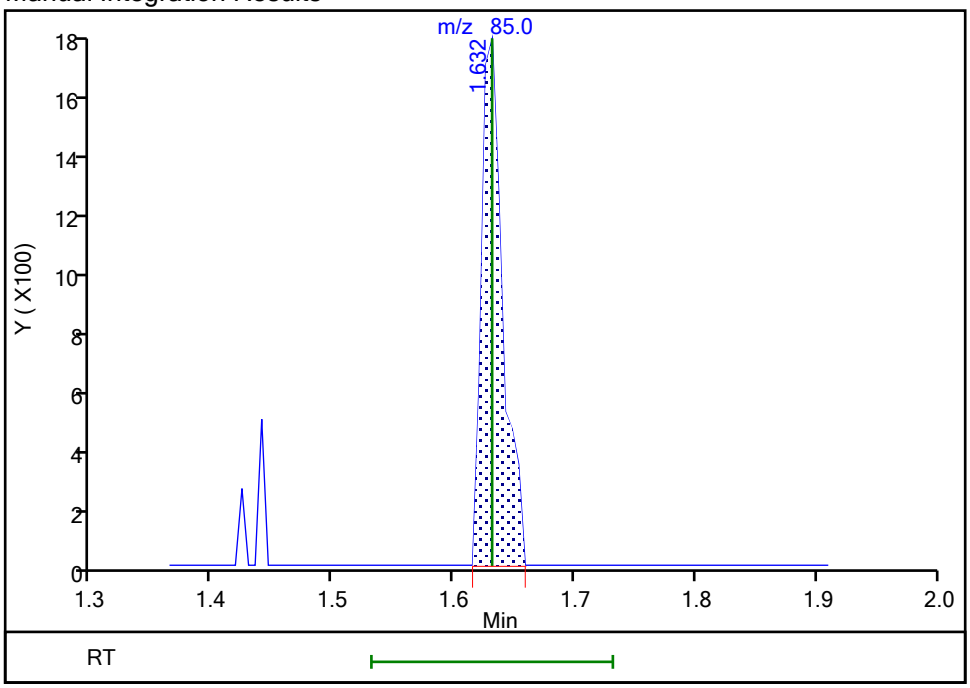
Not Detected
Expected RT: 1.63

Processing Integration Results



Manual Integration Results

RT: 1.63
Area: 2136
Amount: 0.323513
Amount Units: ug/l



Reviewer: V8PV, 25-Jun-2024 22:38:52 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86663.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Jun-2024 18:47:30 ALS Bottle#: 4 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:41 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:24:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	980186	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.448	-0.006	84	244168	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	410558	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	263878	50.0	50.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	244207	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	6.171	6.177	-0.006	93	981168	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.545	-0.006	95	314522	50.0	49.9	
9 Dichlorodifluoromethane	85	1.631	1.631	0.000	66	5099	1.00	0.99	
10 Chloromethane	50	1.800	1.801	-0.001	99	12759	1.00	0.9204	
11 Vinyl chloride	62	1.882	1.882	0.000	98	14813	1.00	0.99	
12 Bromomethane	94	2.155	2.155	0.000	93	12784	1.00	1.00	
13 Chloroethane	64	2.232	2.232	0.000	97	4383	1.00	0.7867	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	96	11900	1.00	1.11	
15 Trichlorofluoromethane	101	2.433	2.433	0.000	94	8428	1.00	1.08	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	88	3666	1.00	1.20	

QC Flag Legend
Processing Flags

Reagents:
Cal Dil Std_00378 Amount Added: 10.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 26-Jun-2024 11:31:42 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86663.D

Injection Date: 25-Jun-2024 18:47:30 Instrument ID: VMS_P Operator ID: BJ

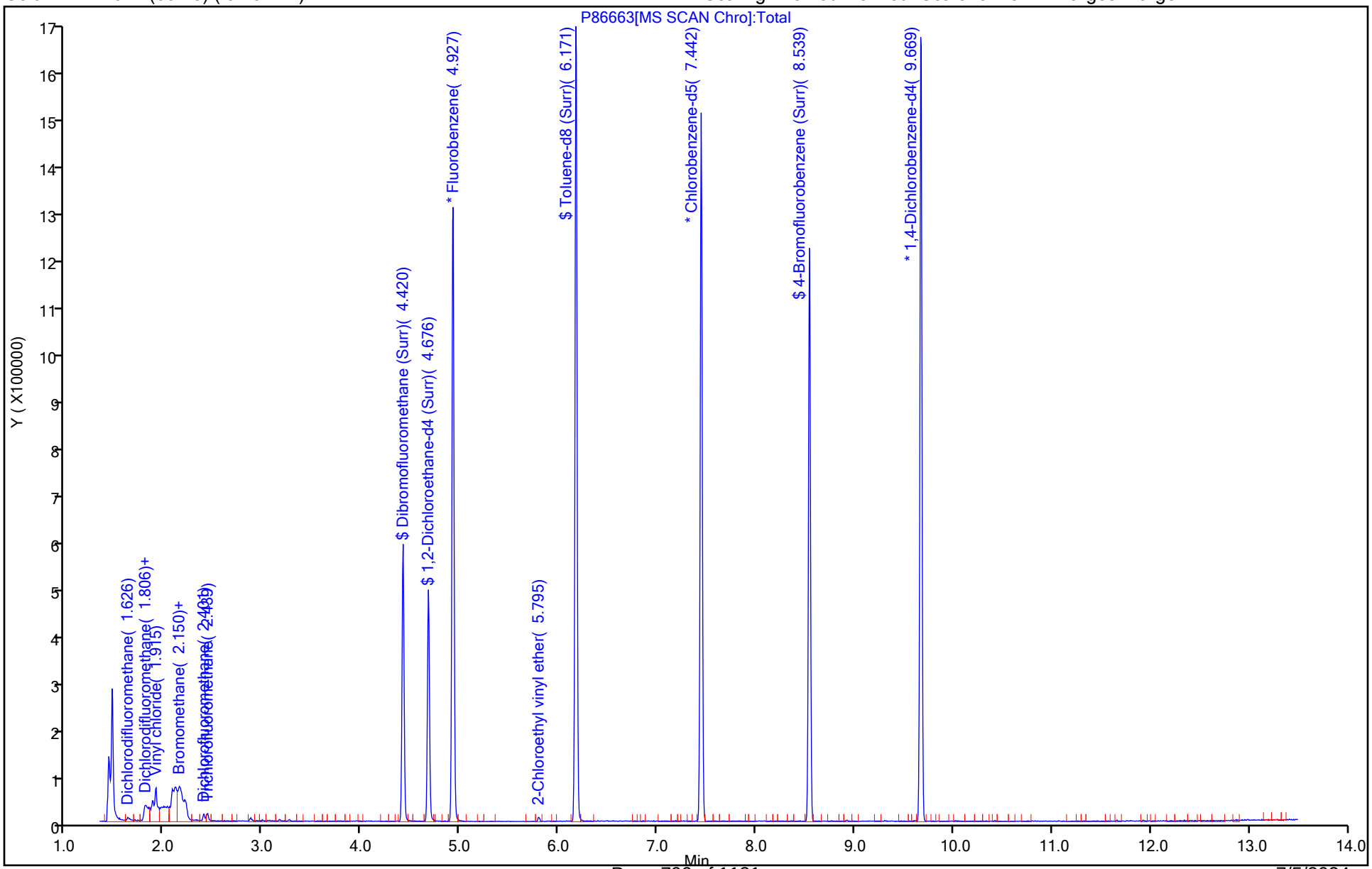
Lims ID: ic Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86664.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Jun-2024 19:07:30 ALS Bottle#: 5 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:44 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: V8PV Date: 25-Jun-2024 22:38:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1011413	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.448	-0.006	84	249711	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	419057	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	269645	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	248413	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	6.171	6.177	-0.006	93	993444	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.545	-0.006	96	323716	50.0	50.3	
9 Dichlorodifluoromethane	85	1.626	1.631	-0.005	81	10054	2.00	2.02	
10 Chloromethane	50	1.801	1.801	0.000	97	22446	2.00	1.83	
11 Vinyl chloride	62	1.882	1.882	0.000	98	27103	2.00	1.92	
12 Bromomethane	94	2.155	2.155	0.000	94	22034	2.00	1.77	
13 Chloroethane	64	2.232	2.232	0.000	99	11308	2.00	2.12	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	21012	2.00	1.90	
15 Trichlorofluoromethane	101	2.433	2.433	0.000	97	14743	2.00	1.84	
68 2-Chloroethyl vinyl ether	63	5.800	5.795	0.005	92	5903	2.00	1.87	

QC Flag Legend
Processing Flags

Reagents:
Cal Dil Std_00378 Amount Added: 20.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

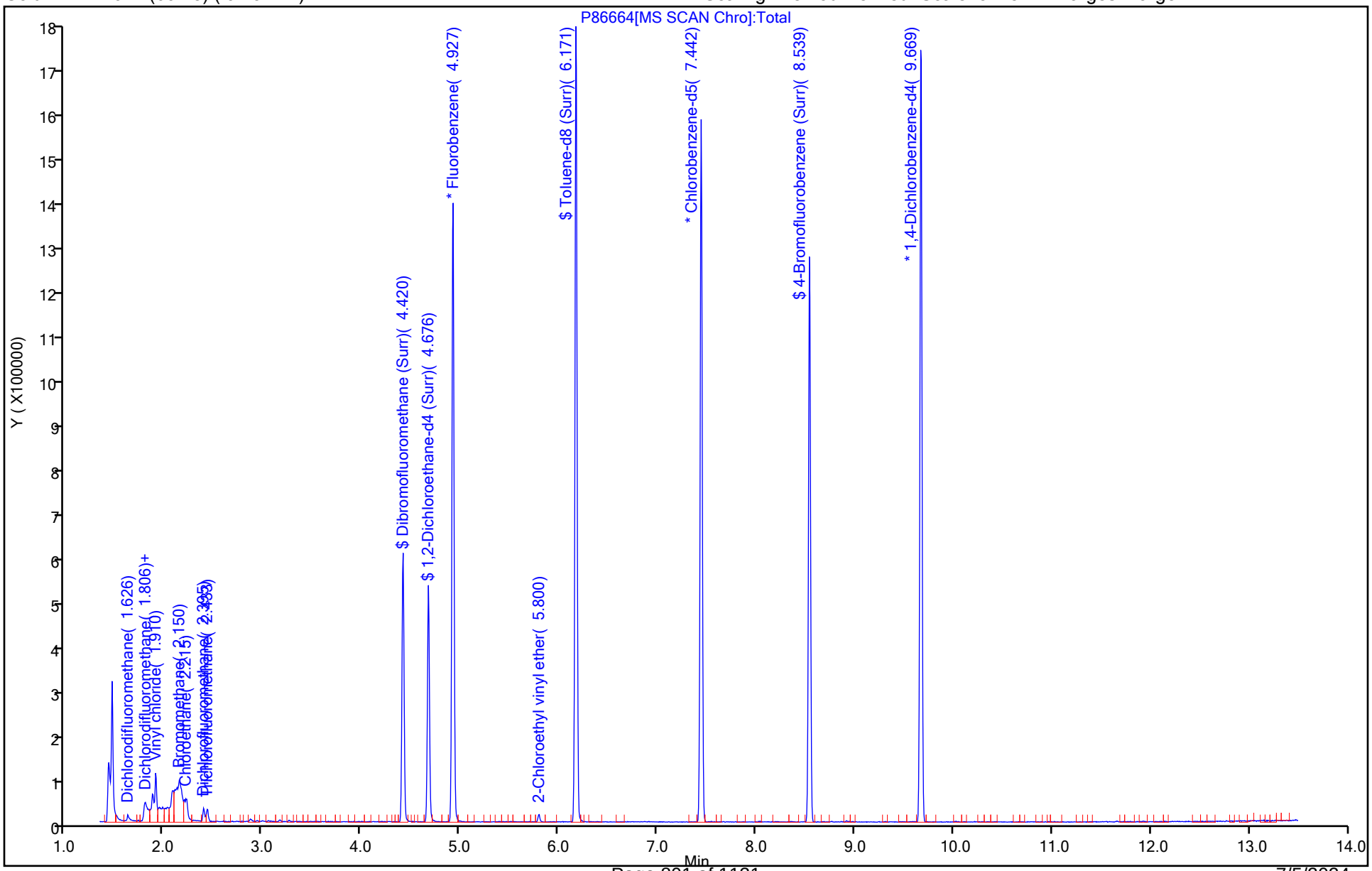
Report Date: 26-Jun-2024 11:31:44 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86664.D

Injection Date:	25-Jun-2024 19:07:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86665.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Jun-2024 19:28:30 ALS Bottle#: 6 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:46 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: V8PV Date: 25-Jun-2024 22:38:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1001043	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.448	-0.005	84	247856	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.674	-0.005	95	418902	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	263756	50.0	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	243963	50.0	49.1	
$ 6 Toluene-d8 (Surr)	98	6.171	6.177	-0.006	93	985169	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.545	-0.006	95	320535	50.0	49.8	
9 Dichlorodifluoromethane	85	1.632	1.631	0.001	84	28184	5.00	5.96	
10 Chloromethane	50	1.801	1.801	0.000	99	58887	5.00	5.47	
11 Vinyl chloride	62	1.883	1.882	0.001	98	72440	5.00	5.52	
12 Bromomethane	94	2.155	2.155	0.000	92	53939	5.00	4.59	
13 Chloroethane	64	2.232	2.232	0.000	99	26570	5.00	5.16	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	97	56512	5.00	5.17	
15 Trichlorofluoromethane	101	2.434	2.433	0.001	98	43263	5.00	5.44	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	88	14683	5.00	4.69	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 1.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

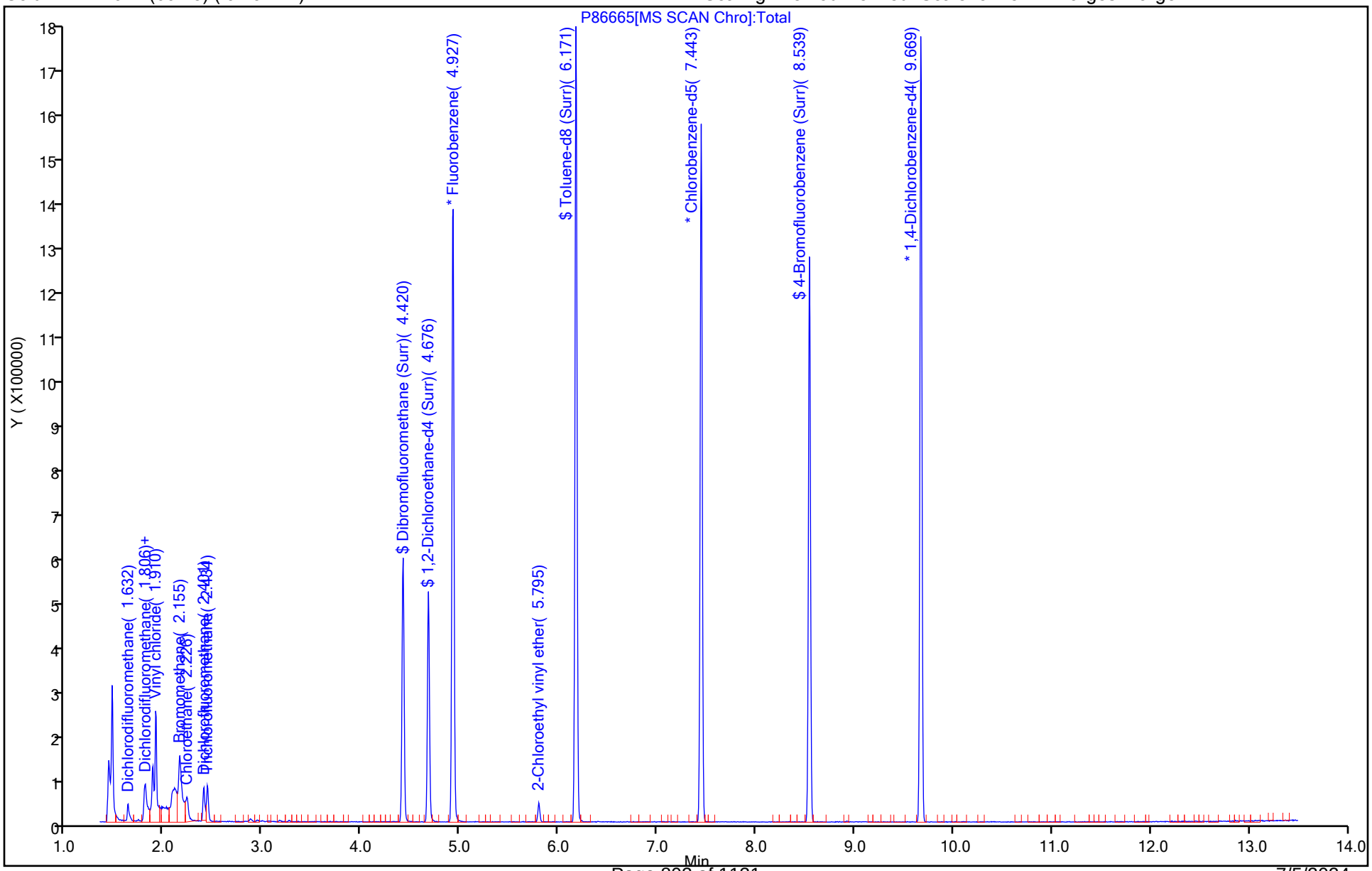
Report Date: 26-Jun-2024 11:31:48 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86665.D

Injection Date:	25-Jun-2024 19:28:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86666.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Jun-2024 19:49:30 ALS Bottle#: 7 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 5
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:50 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:20:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	994676	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	84	248683	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	422035	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	267721	50.0	50.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	251405	50.0	50.9	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1001597	50.0	49.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	94	321113	50.0	49.5	
9 Dichlorodifluoromethane	85	1.631	1.631	0.000	86	50728	10.0	10.9	
10 Chloromethane	50	1.801	1.801	0.000	99	109969	10.0	10.6	
11 Vinyl chloride	62	1.882	1.882	0.000	98	138270	10.0	10.8	
12 Bromomethane	94	2.155	2.155	0.000	93	109613	10.0	9.55	
13 Chloroethane	64	2.232	2.232	0.000	99	49453	10.0	9.76	
14 Dichlorofluoromethane	67	2.401	2.401	0.000	97	105590	10.0	9.72	
15 Trichlorofluoromethane	101	2.433	2.433	0.000	98	77419	10.0	9.80	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	88	30181	10.0	9.70	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 2.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

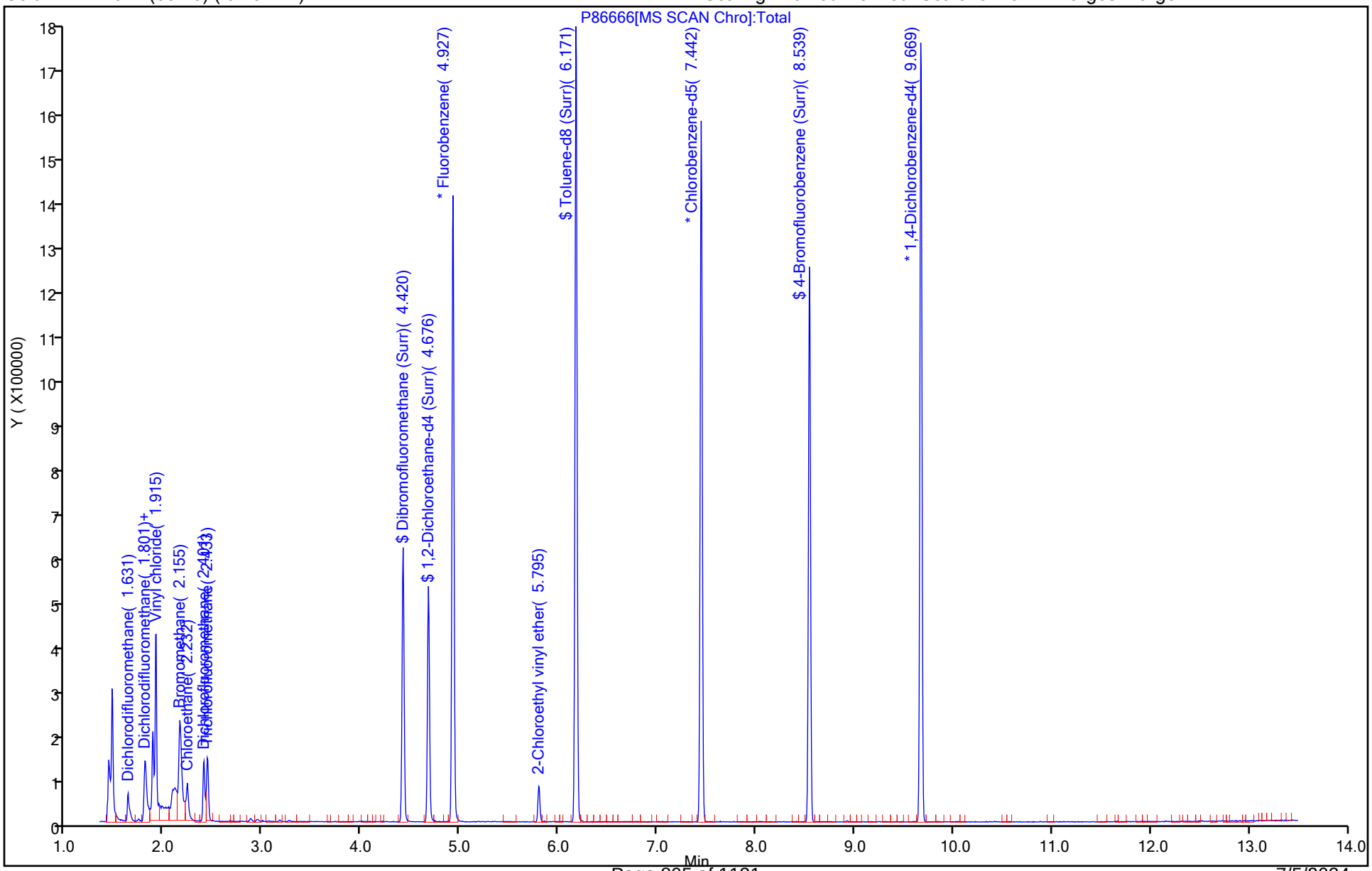
Report Date: 26-Jun-2024 11:31:51 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86666.D

Injection Date:	25-Jun-2024 19:49:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86667.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Jun-2024 20:09:30 ALS Bottle#: 8 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:52 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: V8PV Date: 25-Jun-2024 22:38:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	990472	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	244258	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	414486	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	261347	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	243911	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1001168	50.0	50.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	94	321297	50.0	50.5	
9 Dichlorodifluoromethane	85	1.626	1.631	-0.005	88	241876	50.0	52.7	
10 Chloromethane	50	1.801	1.801	0.000	99	519817	50.0	51.7	
11 Vinyl chloride	62	1.883	1.882	0.001	98	652302	50.0	51.9	
12 Bromomethane	94	2.155	2.155	0.000	92	585265	50.0	51.8	
13 Chloroethane	64	2.232	2.232	0.000	99	239070	50.0	47.7	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	510890	50.0	47.2	
15 Trichlorofluoromethane	101	2.434	2.433	0.001	99	381317	50.0	48.5	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	89	151947	50.0	49.1	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 10.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 26-Jun-2024 11:31:53 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86667.D

Injection Date: 25-Jun-2024 20:09:30 Instrument ID: VMS_P Operator ID: BJ

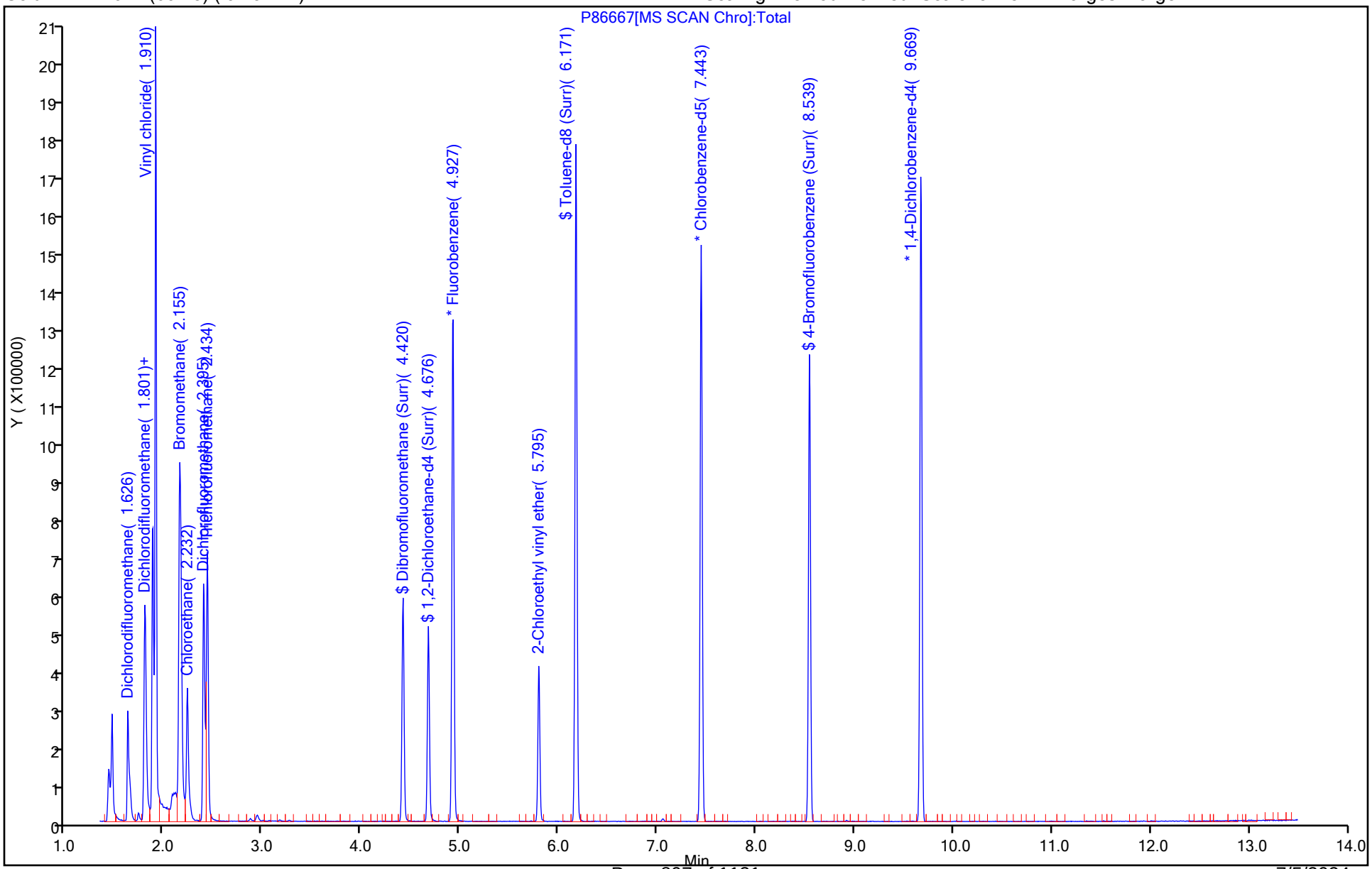
Lims ID: ic Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86668.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Jun-2024 20:30:30 ALS Bottle#: 9 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:55 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:25:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1014600	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	84	243521	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.674	-0.005	95	417487	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	264463	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	249650	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1004780	50.0	50.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	95	319887	50.0	49.9	
9 Dichlorodifluoromethane	85	1.631	1.631	0.000	88	373251	75.0	79.5	
10 Chloromethane	50	1.806	1.801	0.005	99	775503	75.0	75.5	
11 Vinyl chloride	62	1.882	1.882	0.000	98	982923	75.0	76.4	
12 Bromomethane	94	2.155	2.155	0.000	92	921685	75.0	79.8	
13 Chloroethane	64	2.232	2.232	0.000	100	383780	75.0	74.9	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	778415	75.0	70.3	
15 Trichlorofluoromethane	101	2.434	2.433	0.001	99	602758	75.0	74.8	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	89	238279	75.0	75.1	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 15.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

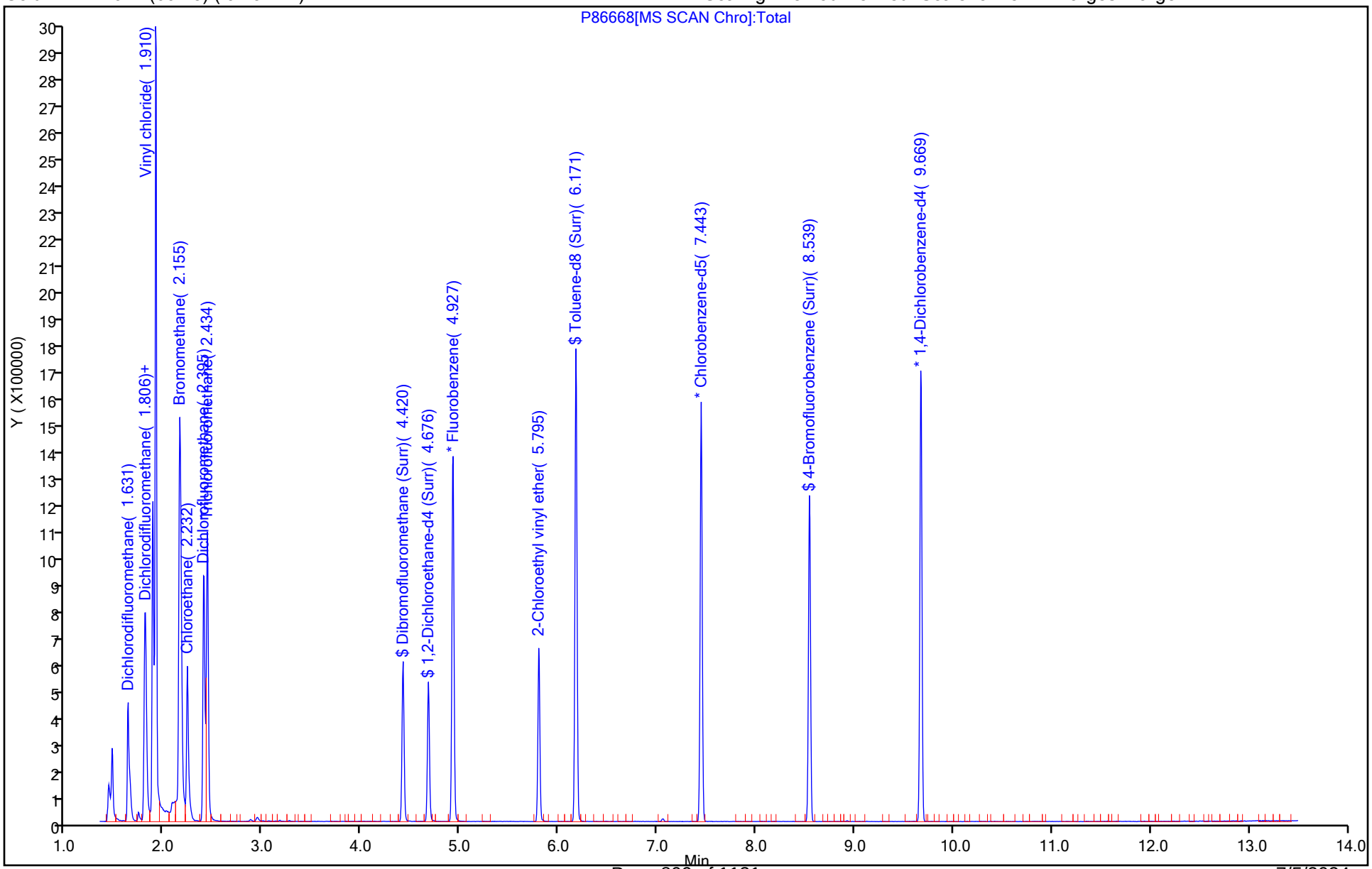
Report Date: 26-Jun-2024 11:31:55 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86668.D

Injection Date:	25-Jun-2024 20:30:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86669.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 25-Jun-2024 20:50:30 ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 8
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:57 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:30:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1019086	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	84	253475	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	418673	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	273076	50.0	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	261893	50.0	51.8	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1029607	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	95	323462	50.0	50.3	
9 Dichlorodifluoromethane	85	1.626	1.631	-0.005	88	472668	100.0	100.3	
10 Chloromethane	50	1.801	1.801	0.000	99	999619	100.0	97.0	
11 Vinyl chloride	62	1.882	1.882	0.000	98	1270382	100.0	98.4	
12 Bromomethane	94	2.155	2.155	0.000	92	1281472	100.0	110.5	
13 Chloroethane	64	2.232	2.232	0.000	99	527390	100.0	102.5	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	1050978	100.0	94.5	
15 Trichlorofluoromethane	101	2.434	2.433	0.001	98	780423	100.0	96.4	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	332808	100.0	104.4	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 20.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

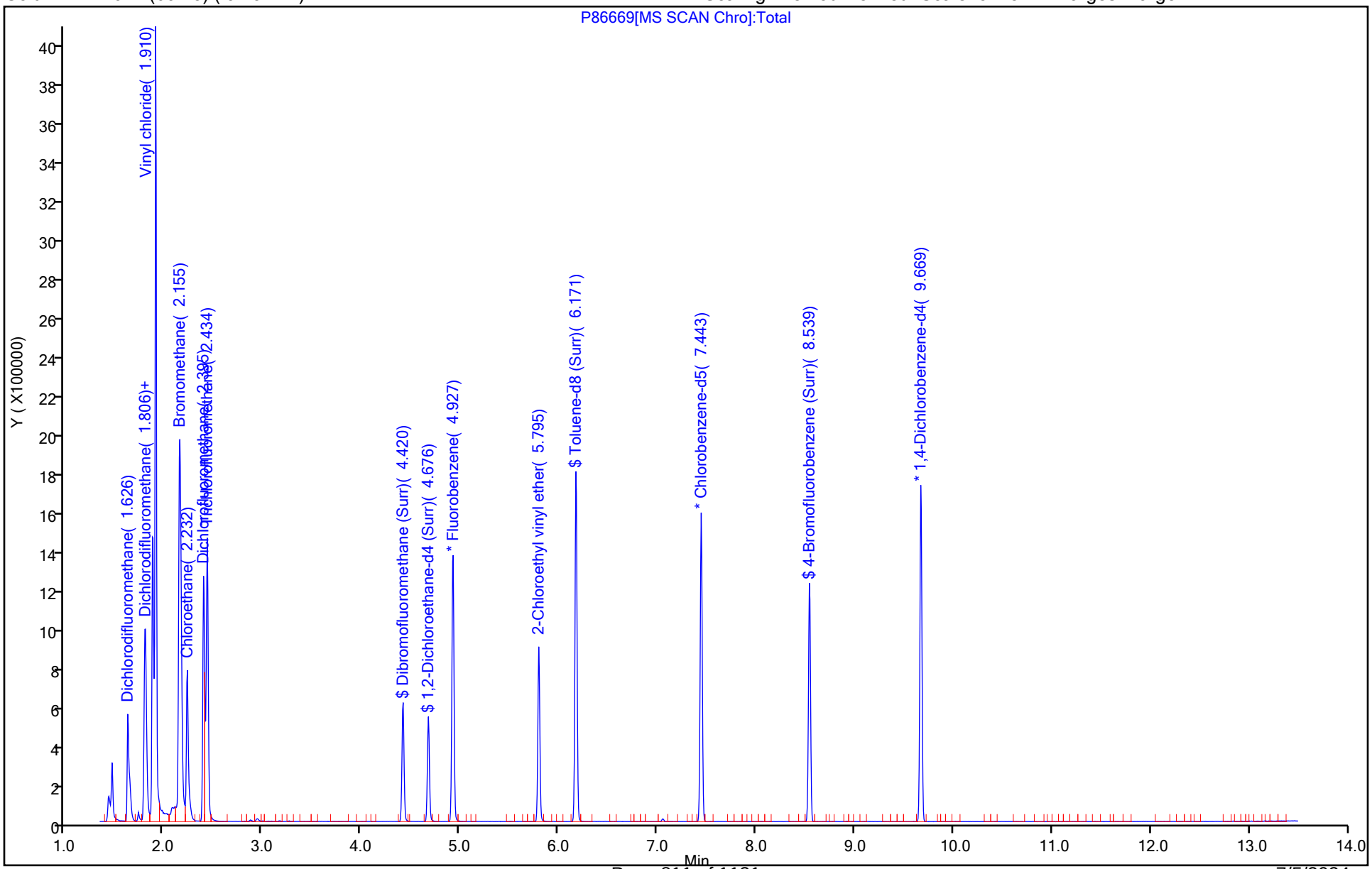
Report Date: 26-Jun-2024 11:31:57 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86669.D

Injection Date:	25-Jun-2024 20:50:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 25-Jun-2024 21:11:30 ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 9
Misc. Info.: GAS
Operator ID: BJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub182

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:31:59 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:30:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	971162	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	84	240177	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	407046	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.419	4.420	-0.001	92	258518	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	240869	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	975944	50.0	50.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	95	310285	50.0	49.6	
9 Dichlorodifluoromethane	85	1.626	1.631	-0.005	88	856209	200.0	190.8	
10 Chloromethane	50	1.806	1.801	0.005	99	1933351	200.0	197.2	
11 Vinyl chloride	62	1.882	1.882	0.000	98	2423303	200.0	197.2	
12 Bromomethane	94	2.155	2.155	0.000	92	2662026	200.0	241.0	
13 Chloroethane	64	2.231	2.232	-0.001	99	1050150	200.0	214.2	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	2052989	200.0	193.6	
15 Trichlorofluoromethane	101	2.433	2.433	0.000	98	1483633	200.0	192.3	
68 2-Chloroethyl vinyl ether	63	5.794	5.795	-0.001	90	658653	200.0	216.9	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas B_00165 Amount Added: 40.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

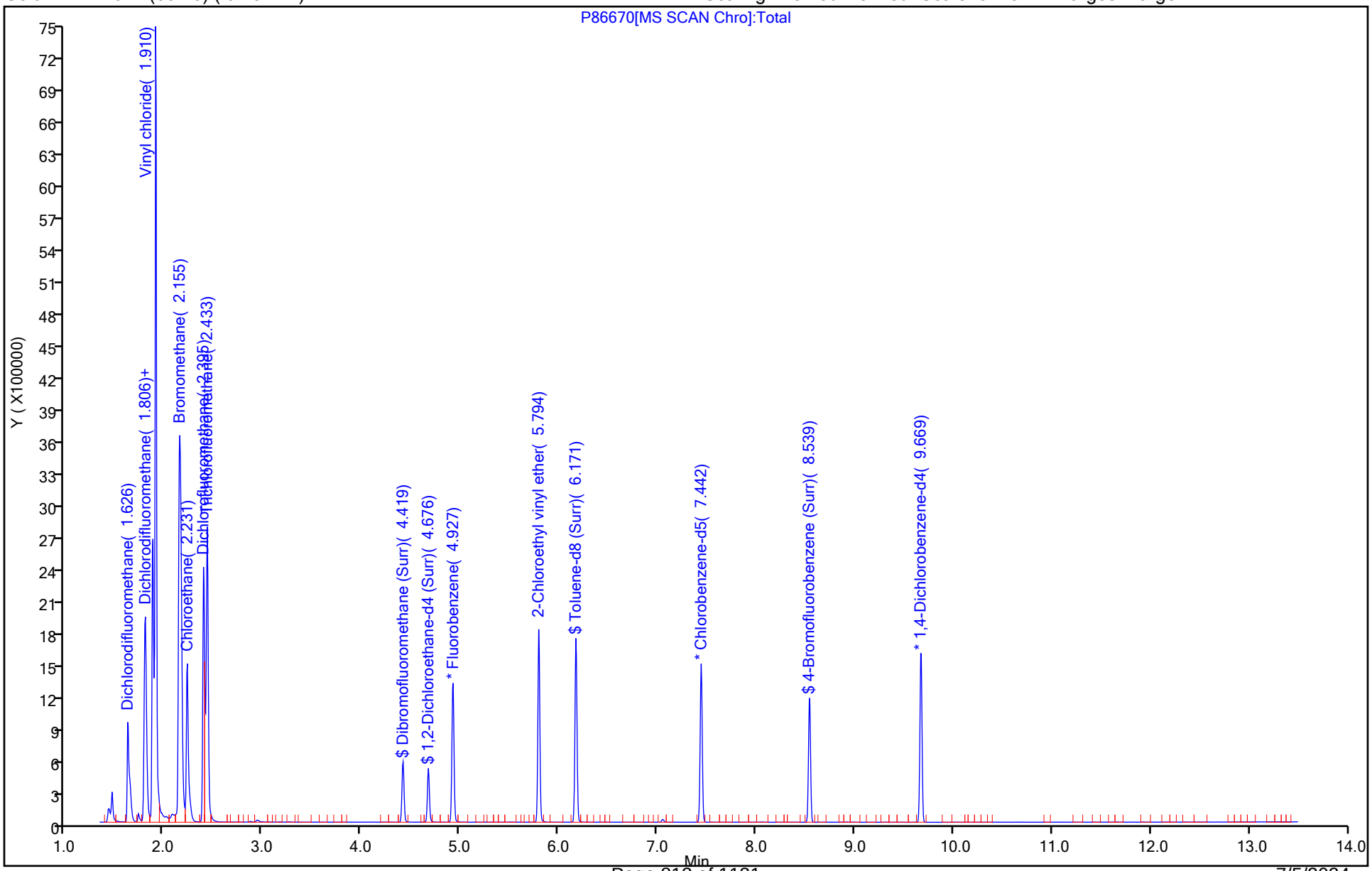
Report Date: 26-Jun-2024 11:32:00 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Injection Date:	25-Jun-2024 21:11:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ic			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Calibration / Dichlorodifluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

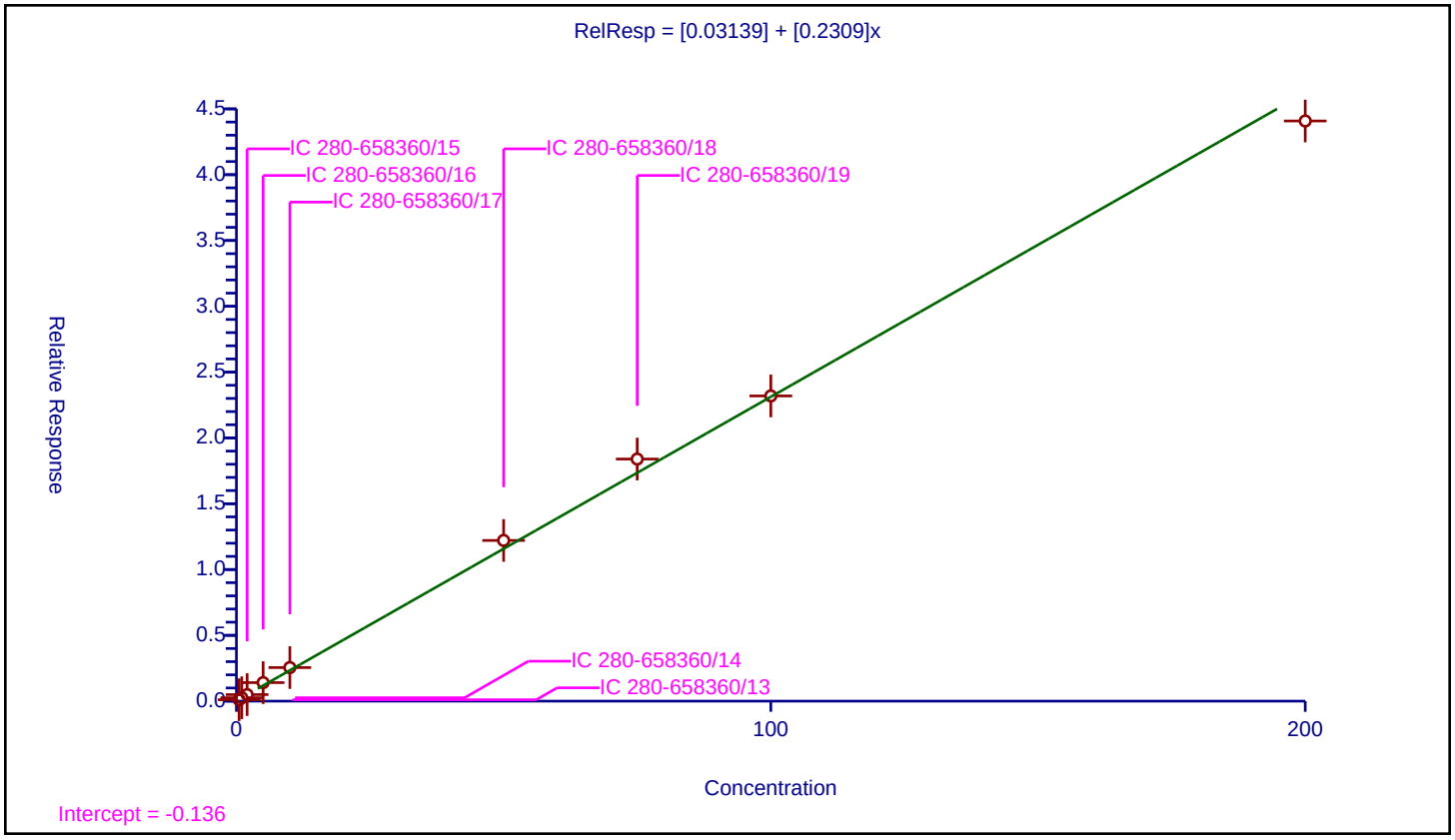
Curve Coefficients

Intercept:	0.03139
Slope:	0.2309

Error Coefficients

Relative Standard Deviation:	16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.106102	50.0	1006582.0	0.212203	Y
2	IC 280-658360/14	1.0	0.260104	50.0	980186.0	0.260104	Y
3	IC 280-658360/15	2.0	0.497027	50.0	1011413.0	0.248514	Y
4	IC 280-658360/16	5.0	1.407732	50.0	1001043.0	0.281546	Y
5	IC 280-658360/17	10.0	2.549976	50.0	994676.0	0.254998	Y
6	IC 280-658360/18	50.0	12.210138	50.0	990472.0	0.244203	Y
7	IC 280-658360/19	75.0	18.393998	50.0	1014600.0	0.245253	Y
8	IC 280-658360/20	100.0	23.190781	50.0	1019086.0	0.231908	Y
9	IC 280-658360/21	200.0	44.081677	50.0	971162.0	0.220408	Y



Calibration / Chloromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

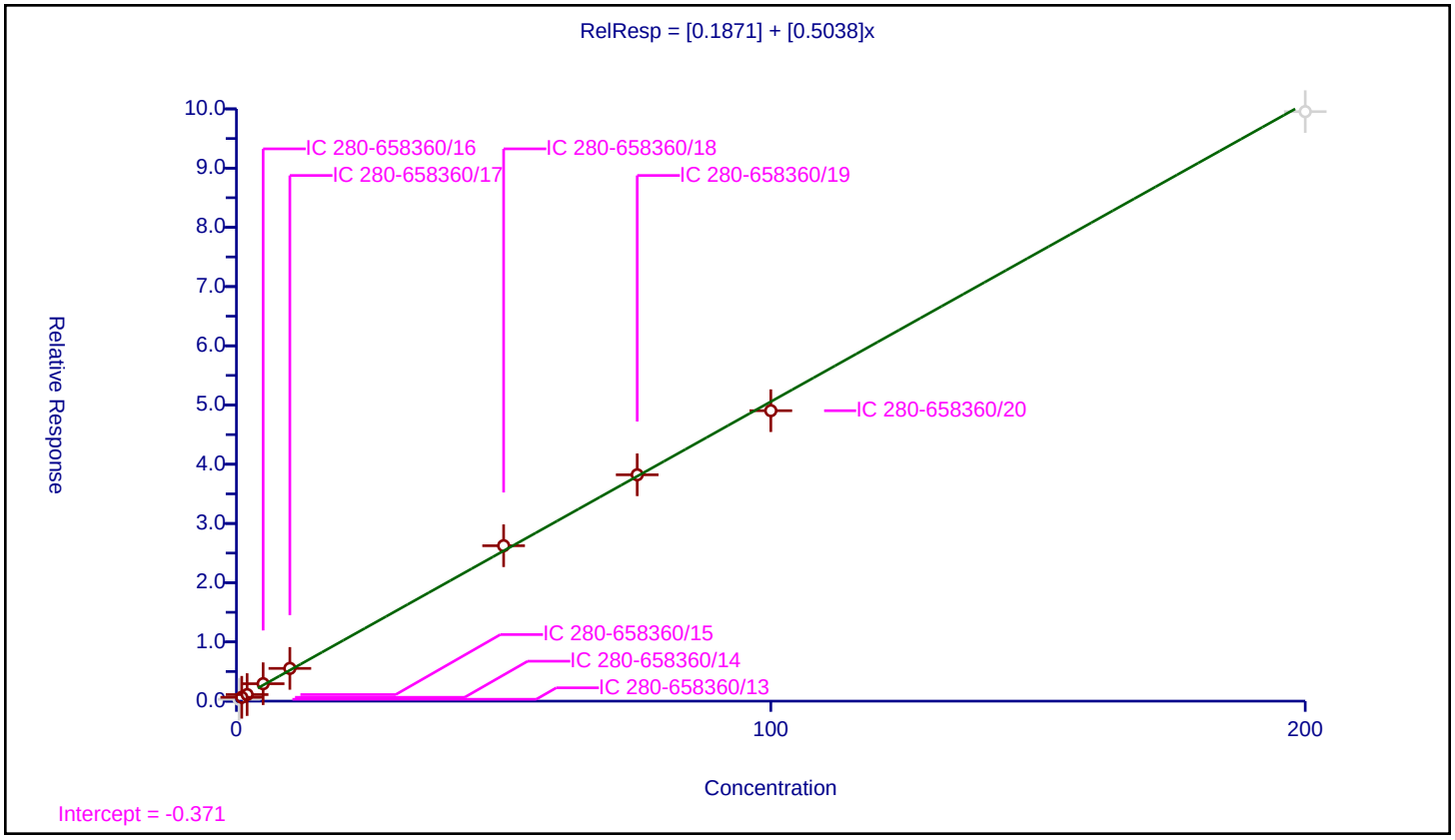
Curve Coefficients

Intercept:	0.1871
Slope:	0.5038

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.316119	50.0	1006582.0	0.632239	N
2	IC 280-658360/14	1.0	0.650846	50.0	980186.0	0.650846	Y
3	IC 280-658360/15	2.0	1.109636	50.0	1011413.0	0.554818	Y
4	IC 280-658360/16	5.0	2.941282	50.0	1001043.0	0.588256	Y
5	IC 280-658360/17	10.0	5.52788	50.0	994676.0	0.552788	Y
6	IC 280-658360/18	50.0	26.240873	50.0	990472.0	0.524817	Y
7	IC 280-658360/19	75.0	38.217179	50.0	1014600.0	0.509562	Y
8	IC 280-658360/20	100.0	49.044879	50.0	1019086.0	0.490449	Y
9	IC 280-658360/21	200.0	99.538028	50.0	971162.0	0.49769	N



Calibration / Vinyl chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

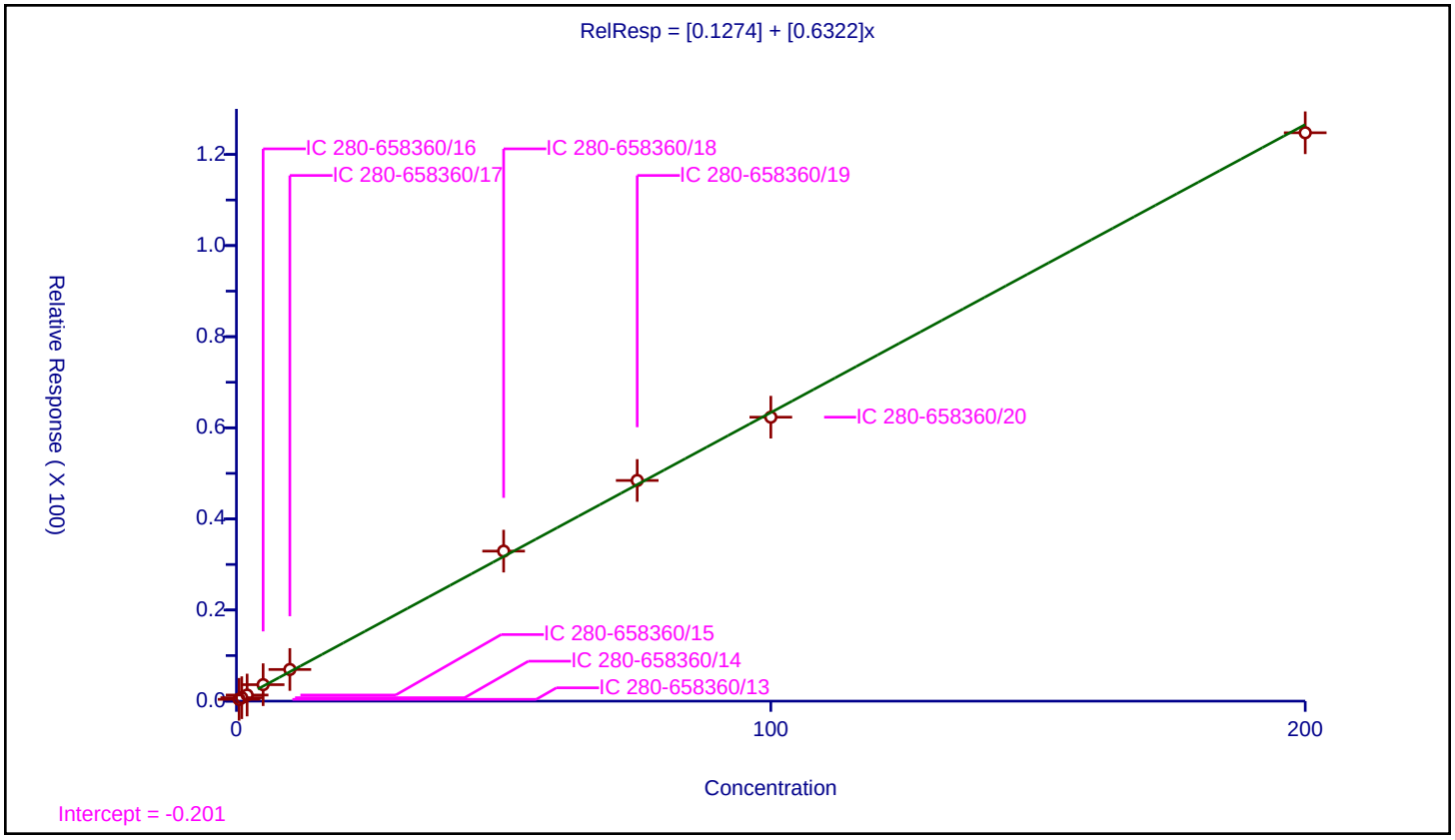
Curve Coefficients

Intercept:	0.1274
Slope:	0.6322

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.39197	50.0	1006582.0	0.78394	Y
2	IC 280-658360/14	1.0	0.755622	50.0	980186.0	0.755622	Y
3	IC 280-658360/15	2.0	1.339858	50.0	1011413.0	0.669929	Y
4	IC 280-658360/16	5.0	3.618226	50.0	1001043.0	0.723645	Y
5	IC 280-658360/17	10.0	6.950504	50.0	994676.0	0.69505	Y
6	IC 280-658360/18	50.0	32.928846	50.0	990472.0	0.658577	Y
7	IC 280-658360/19	75.0	48.438941	50.0	1014600.0	0.645853	Y
8	IC 280-658360/20	100.0	62.32948	50.0	1019086.0	0.623295	Y
9	IC 280-658360/21	200.0	124.763067	50.0	971162.0	0.623815	Y



7/5/2024
11:14:22 AM

Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

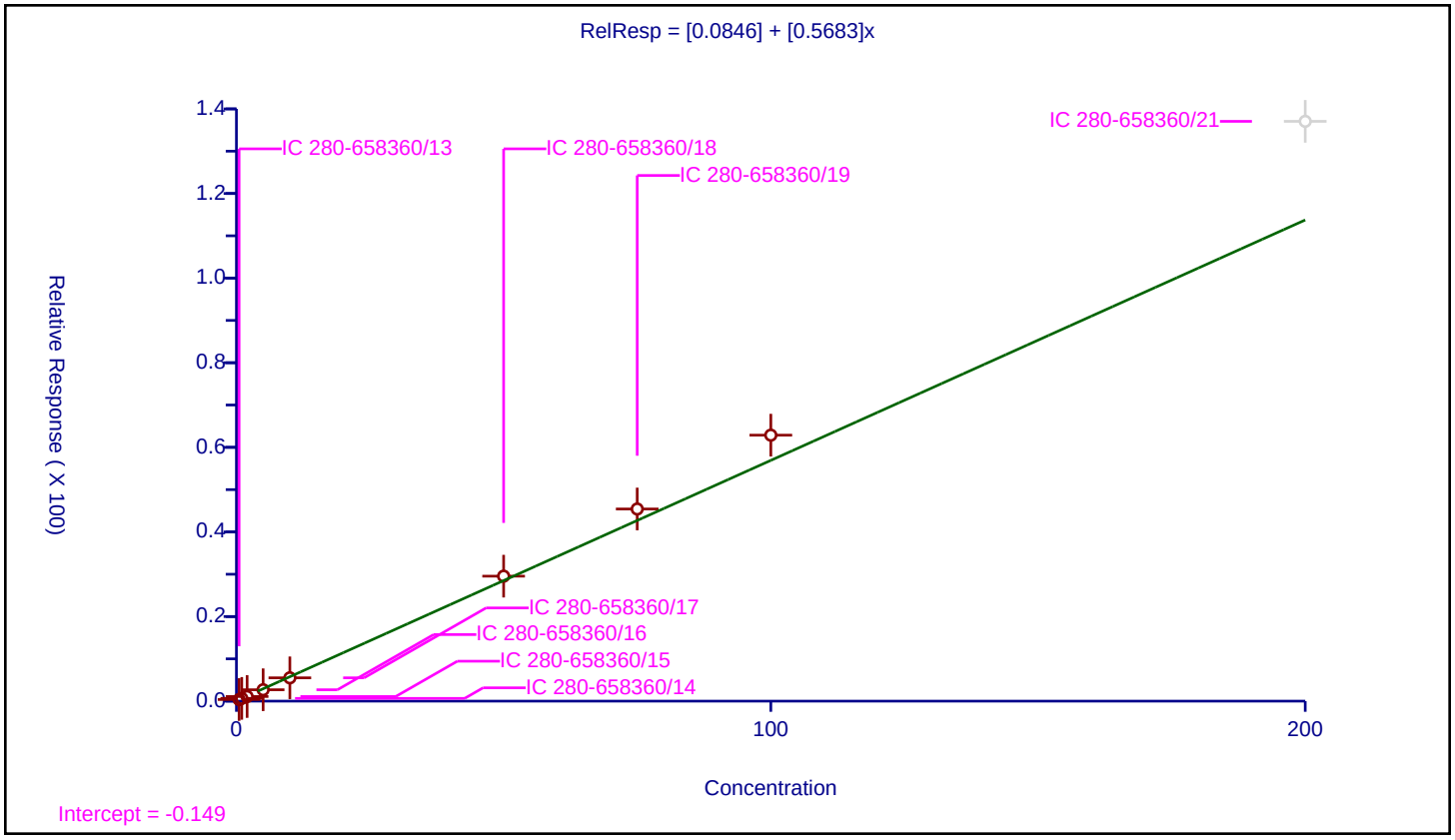
Curve Coefficients

Intercept:	0.0846
Slope:	0.5683

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.37975	50.0	1006582.0	0.759501	Y
2	IC 280-658360/14	1.0	0.652121	50.0	980186.0	0.652121	Y
3	IC 280-658360/15	2.0	1.089268	50.0	1011413.0	0.544634	Y
4	IC 280-658360/16	5.0	2.69414	50.0	1001043.0	0.538828	Y
5	IC 280-658360/17	10.0	5.509985	50.0	994676.0	0.550999	Y
6	IC 280-658360/18	50.0	29.544752	50.0	990472.0	0.590895	Y
7	IC 280-658360/19	75.0	45.421102	50.0	1014600.0	0.605615	Y
8	IC 280-658360/20	100.0	62.873595	50.0	1019086.0	0.628736	Y
9	IC 280-658360/21	200.0	137.053653	50.0	971162.0	0.685268	N



Calibration / Chloroethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

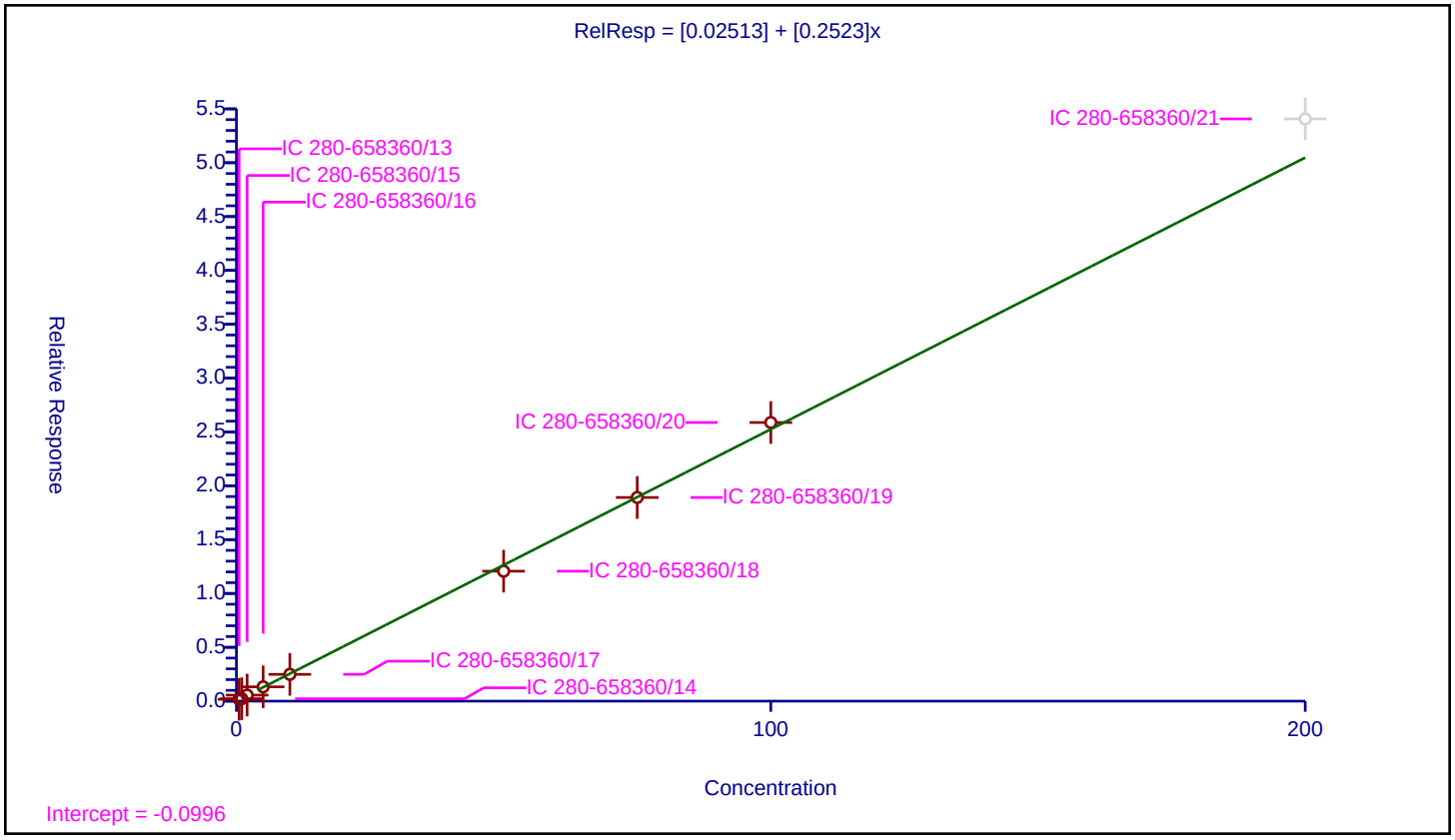
Curve Coefficients

Intercept:	0.02513
Slope:	0.2523

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.172614	50.0	1006582.0	0.345228	Y
2	IC 280-658360/14	1.0	0.22358	50.0	980186.0	0.22358	Y
3	IC 280-658360/15	2.0	0.55902	50.0	1011413.0	0.27951	Y
4	IC 280-658360/16	5.0	1.327116	50.0	1001043.0	0.265423	Y
5	IC 280-658360/17	10.0	2.485885	50.0	994676.0	0.248588	Y
6	IC 280-658360/18	50.0	12.068489	50.0	990472.0	0.24137	Y
7	IC 280-658360/19	75.0	18.912872	50.0	1014600.0	0.252172	Y
8	IC 280-658360/20	100.0	25.875638	50.0	1019086.0	0.258756	Y
9	IC 280-658360/21	200.0	54.066675	50.0	971162.0	0.270333	N



7/5/2024
11:14:22 AM

Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

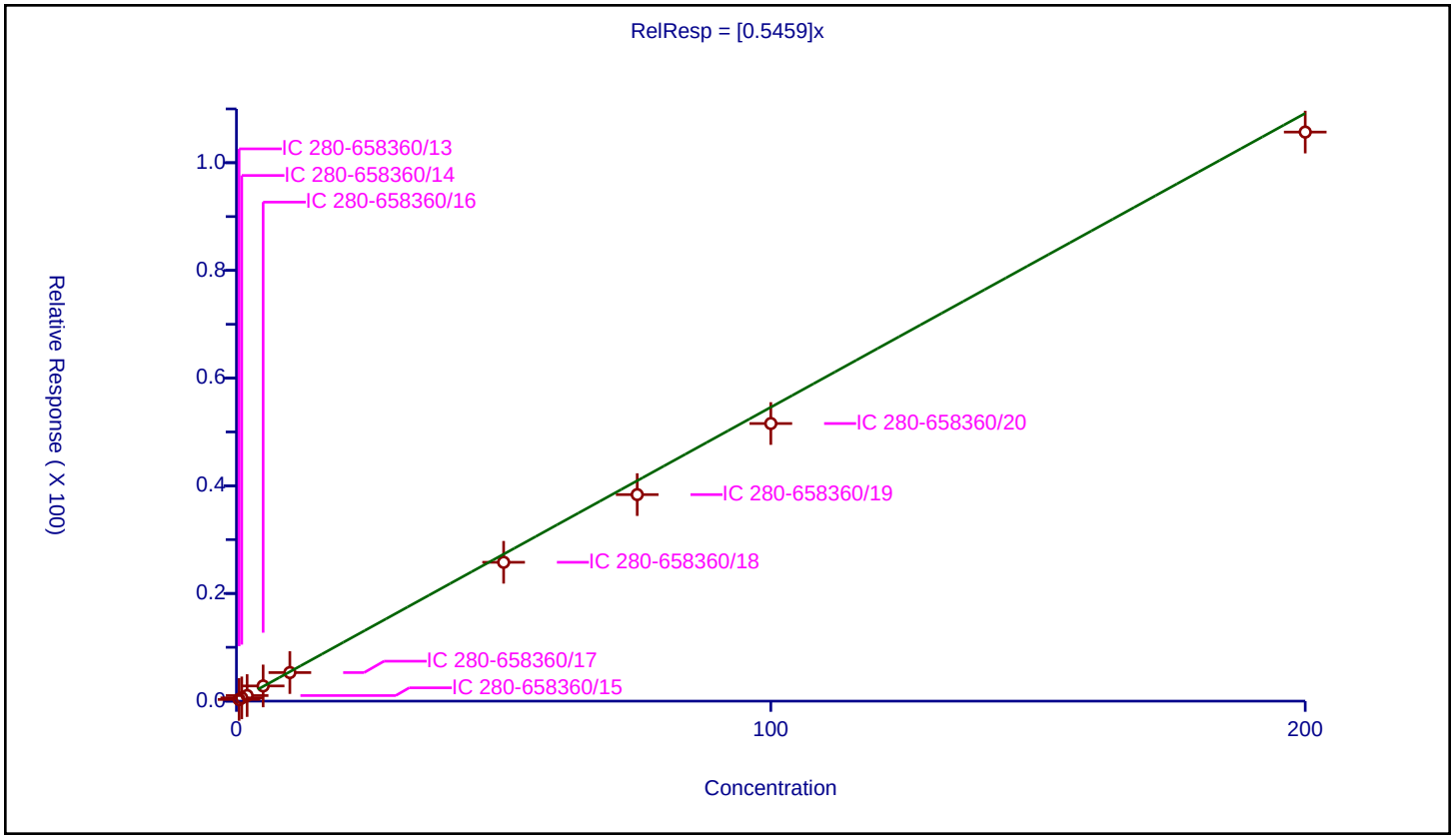
Curve Coefficients

Intercept:	0
Slope:	0.5459

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.30996	50.0	1006582.0	0.61992	Y
2	IC 280-658360/14	1.0	0.607028	50.0	980186.0	0.607028	Y
3	IC 280-658360/15	2.0	1.038745	50.0	1011413.0	0.519372	Y
4	IC 280-658360/16	5.0	2.822656	50.0	1001043.0	0.564531	Y
5	IC 280-658360/17	10.0	5.307759	50.0	994676.0	0.530776	Y
6	IC 280-658360/18	50.0	25.790229	50.0	990472.0	0.515805	Y
7	IC 280-658360/19	75.0	38.360684	50.0	1014600.0	0.511476	Y
8	IC 280-658360/20	100.0	51.564735	50.0	1019086.0	0.515647	Y
9	IC 280-658360/21	200.0	105.697556	50.0	971162.0	0.528488	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

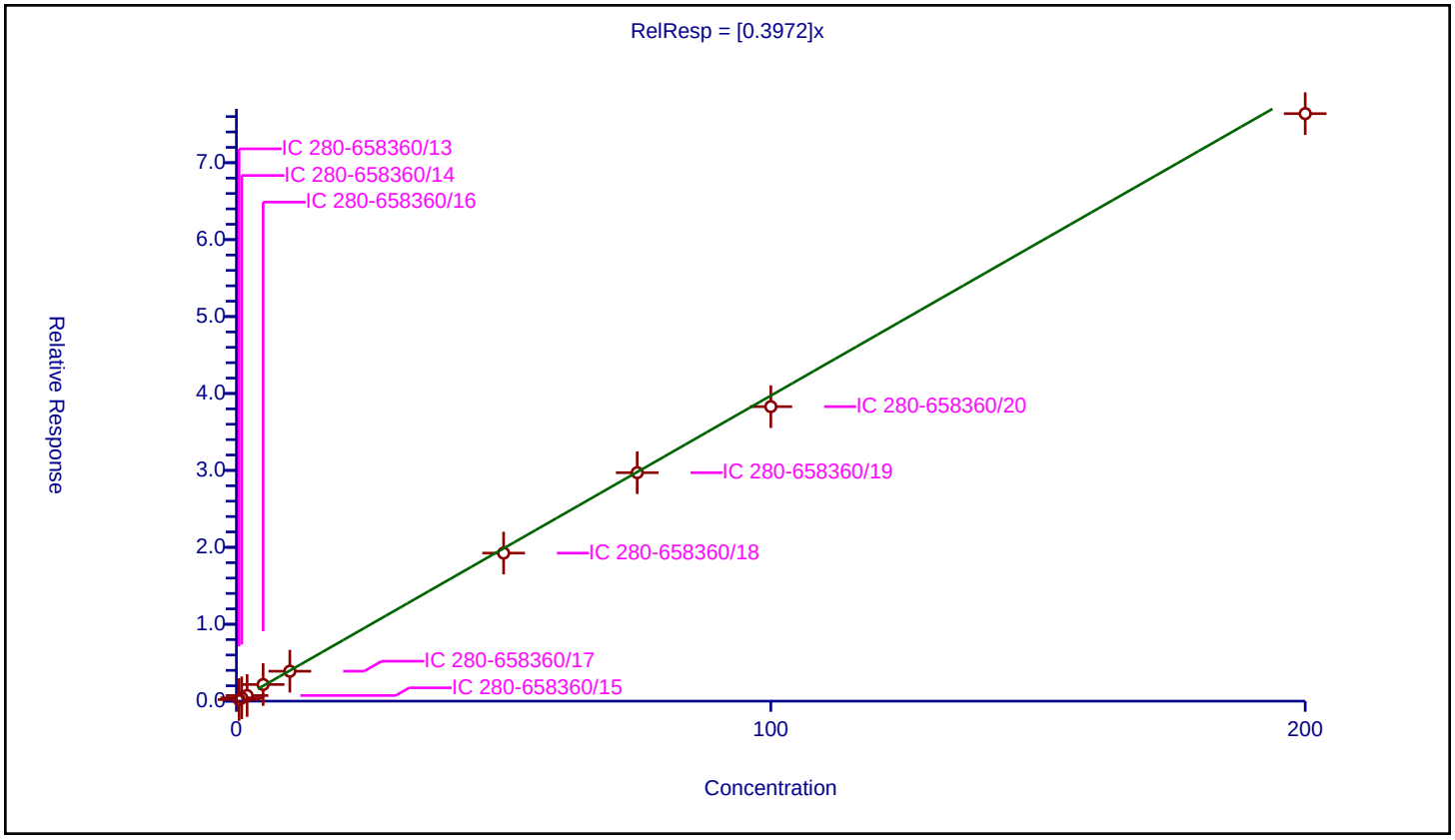
Curve Coefficients

Intercept:	0
Slope:	0.3972

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.206491	50.0	1006582.0	0.412982	Y
2	IC 280-658360/14	1.0	0.429918	50.0	980186.0	0.429918	Y
3	IC 280-658360/15	2.0	0.728832	50.0	1011413.0	0.364416	Y
4	IC 280-658360/16	5.0	2.160896	50.0	1001043.0	0.432179	Y
5	IC 280-658360/17	10.0	3.891669	50.0	994676.0	0.389167	Y
6	IC 280-658360/18	50.0	19.249257	50.0	990472.0	0.384985	Y
7	IC 280-658360/19	75.0	29.704218	50.0	1014600.0	0.396056	Y
8	IC 280-658360/20	100.0	38.290341	50.0	1019086.0	0.382903	Y
9	IC 280-658360/21	200.0	76.384424	50.0	971162.0	0.381922	Y



7/5/2024
11:14:22 AM

Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

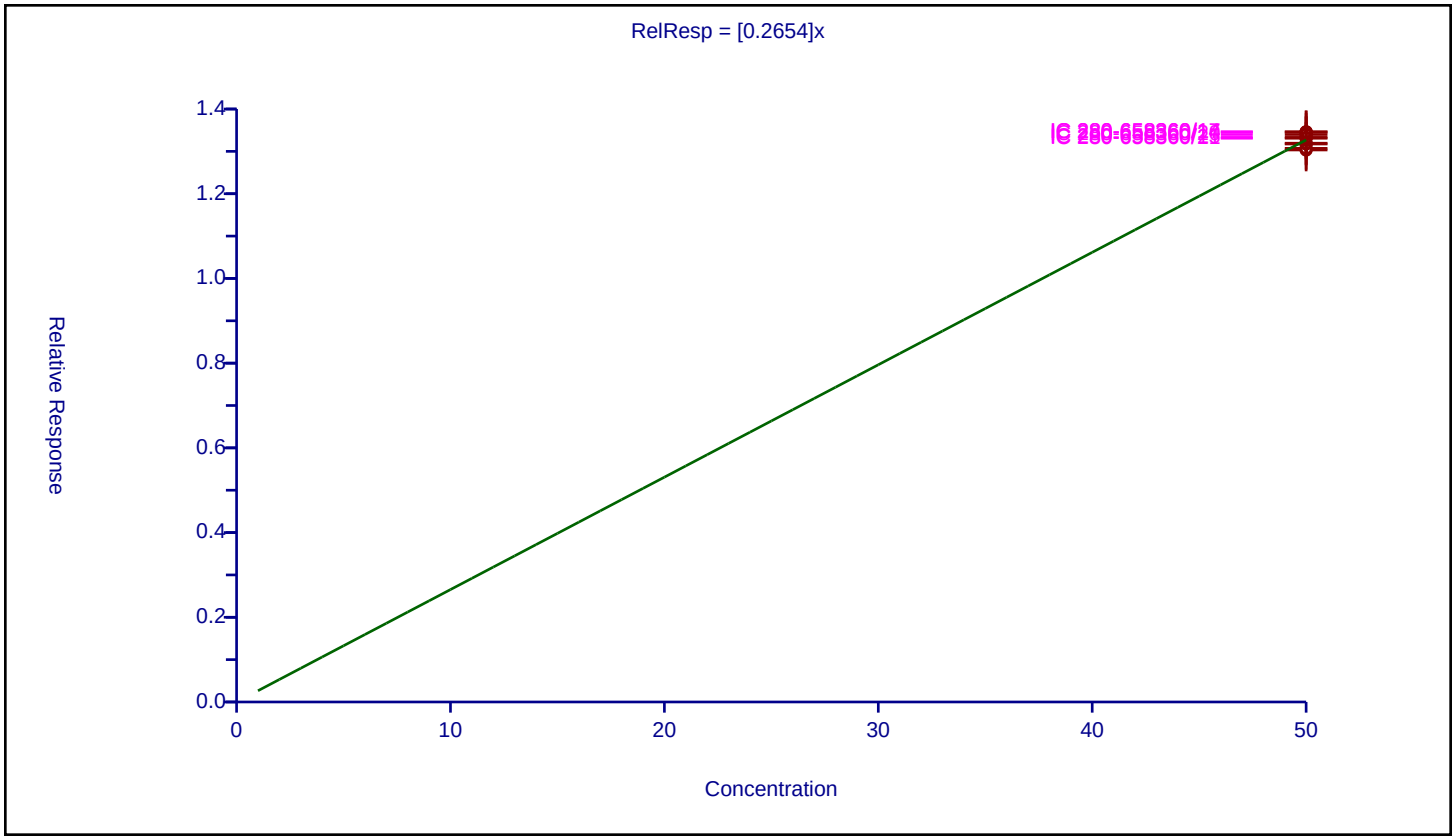
Curve Coefficients

Intercept:	0
Slope:	0.2654

Error Coefficients

Relative Standard Deviation:	1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	50.0	13.071513	50.0	1006582.0	0.26143	Y
2	IC 280-658360/14	50.0	13.460608	50.0	980186.0	0.269212	Y
3	IC 280-658360/15	50.0	13.330113	50.0	1011413.0	0.266602	Y
4	IC 280-658360/16	50.0	13.174059	50.0	1001043.0	0.263481	Y
5	IC 280-658360/17	50.0	13.457699	50.0	994676.0	0.269154	Y
6	IC 280-658360/18	50.0	13.193053	50.0	990472.0	0.263861	Y
7	IC 280-658360/19	50.0	13.03287	50.0	1014600.0	0.260657	Y
8	IC 280-658360/20	50.0	13.398084	50.0	1019086.0	0.267962	Y
9	IC 280-658360/21	50.0	13.309726	50.0	971162.0	0.266195	Y



7/5/2024
11:14:22 AM

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

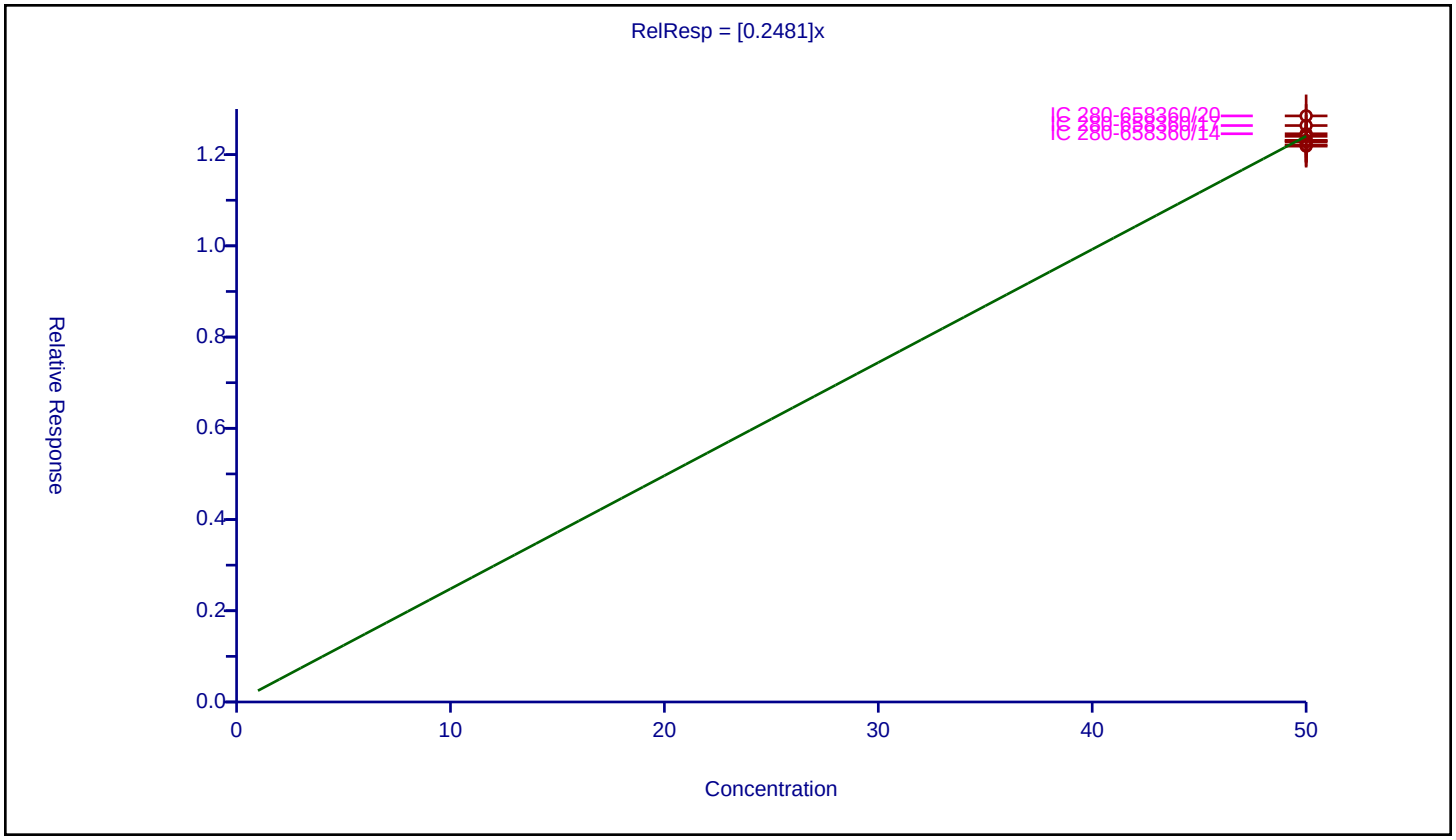
Curve Coefficients

Intercept:	0
Slope:	0.2481

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	50.0	12.211027	50.0	1006582.0	0.244221	Y
2	IC 280-658360/14	50.0	12.457176	50.0	980186.0	0.249144	Y
3	IC 280-658360/15	50.0	12.280493	50.0	1011413.0	0.24561	Y
4	IC 280-658360/16	50.0	12.185441	50.0	1001043.0	0.243709	Y
5	IC 280-658360/17	50.0	12.637532	50.0	994676.0	0.252751	Y
6	IC 280-658360/18	50.0	12.312867	50.0	990472.0	0.246257	Y
7	IC 280-658360/19	50.0	12.302878	50.0	1014600.0	0.246058	Y
8	IC 280-658360/20	50.0	12.849406	50.0	1019086.0	0.256988	Y
9	IC 280-658360/21	50.0	12.401072	50.0	971162.0	0.248021	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

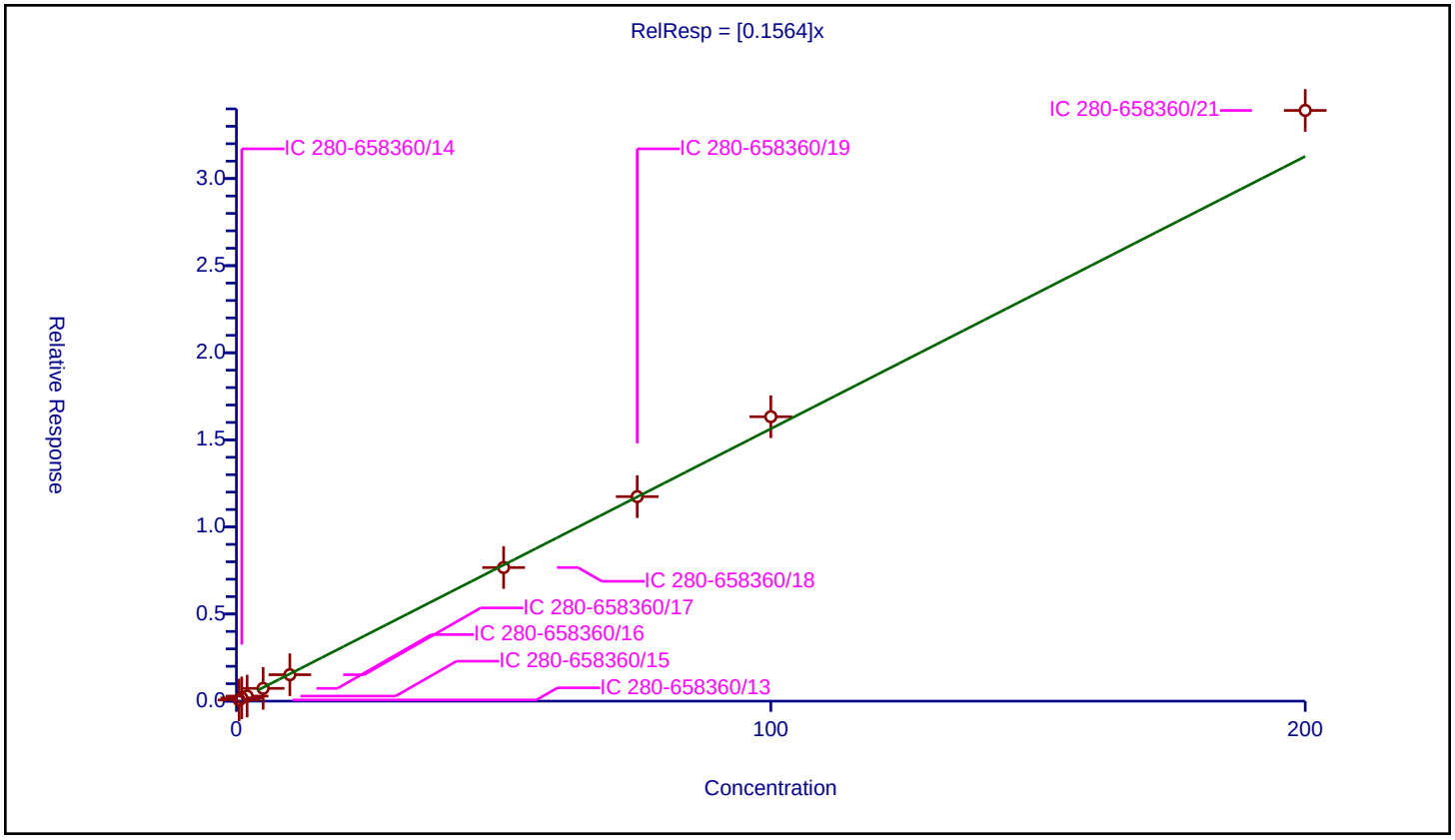
Curve Coefficients

Intercept:	0
Slope:	0.1564

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	0.5	0.066562	50.0	1006582.0	0.133124	Y
2	IC 280-658360/14	1.0	0.187005	50.0	980186.0	0.187005	Y
3	IC 280-658360/15	2.0	0.291819	50.0	1011413.0	0.14591	Y
4	IC 280-658360/16	5.0	0.733385	50.0	1001043.0	0.146677	Y
5	IC 280-658360/17	10.0	1.517127	50.0	994676.0	0.151713	Y
6	IC 280-658360/18	50.0	7.670434	50.0	990472.0	0.153409	Y
7	IC 280-658360/19	75.0	11.742509	50.0	1014600.0	0.156567	Y
8	IC 280-658360/20	100.0	16.328749	50.0	1019086.0	0.163287	Y
9	IC 280-658360/21	200.0	33.910563	50.0	971162.0	0.169553	Y



7/5/2024
11:14:22 AM

Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

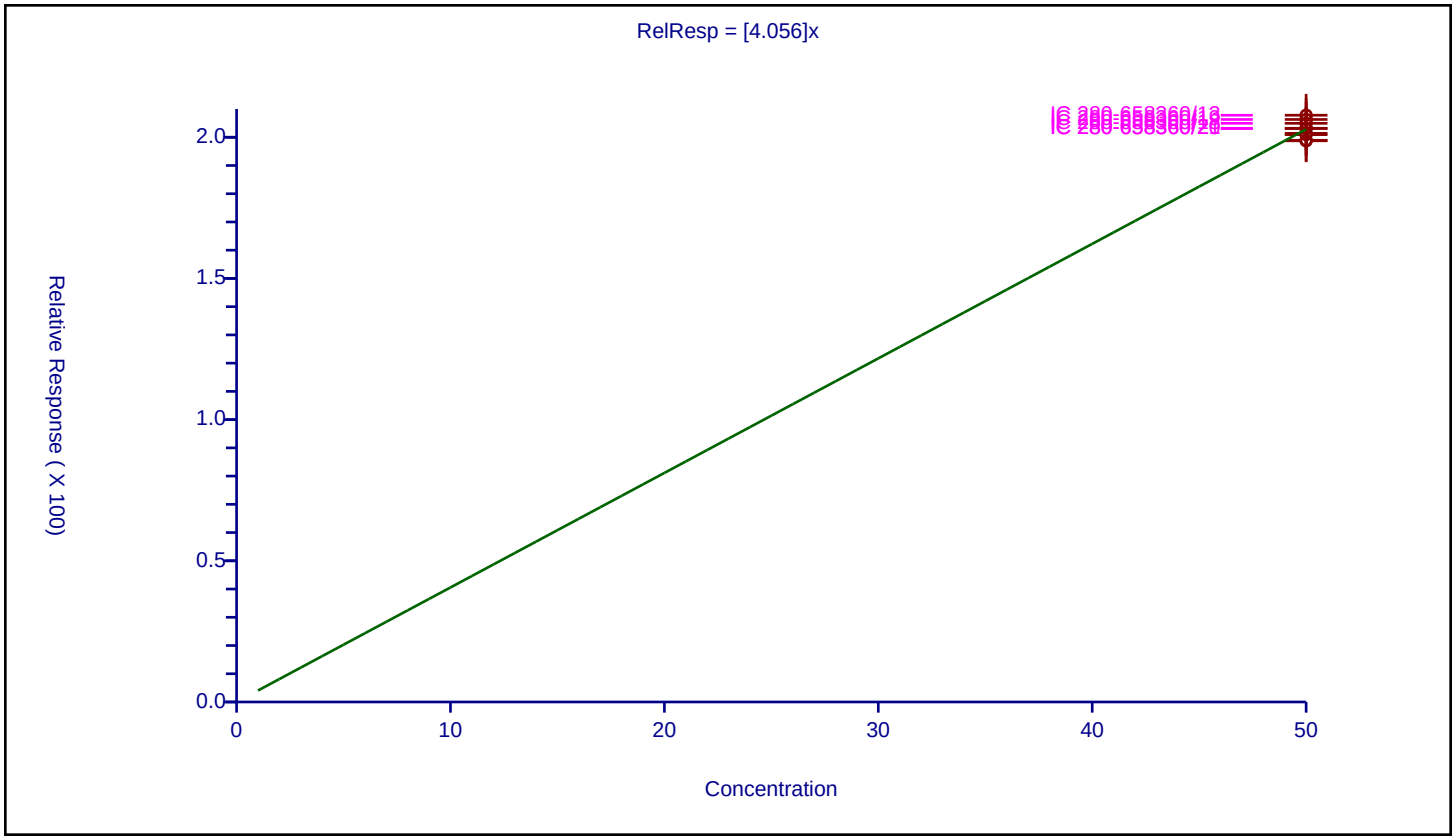
Curve Coefficients

Intercept:	0
Slope:	4.056

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	50.0	207.801069	50.0	240717.0	4.156021	Y
2	IC 280-658360/14	50.0	200.920678	50.0	244168.0	4.018414	Y
3	IC 280-658360/15	50.0	198.91875	50.0	249711.0	3.978375	Y
4	IC 280-658360/16	50.0	198.738179	50.0	247856.0	3.974764	Y
5	IC 280-658360/17	50.0	201.380271	50.0	248683.0	4.027605	Y
6	IC 280-658360/18	50.0	204.940677	50.0	244258.0	4.098814	Y
7	IC 280-658360/19	50.0	206.302537	50.0	243521.0	4.126051	Y
8	IC 280-658360/20	50.0	203.098333	50.0	253475.0	4.061967	Y
9	IC 280-658360/21	50.0	203.171827	50.0	240177.0	4.063437	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

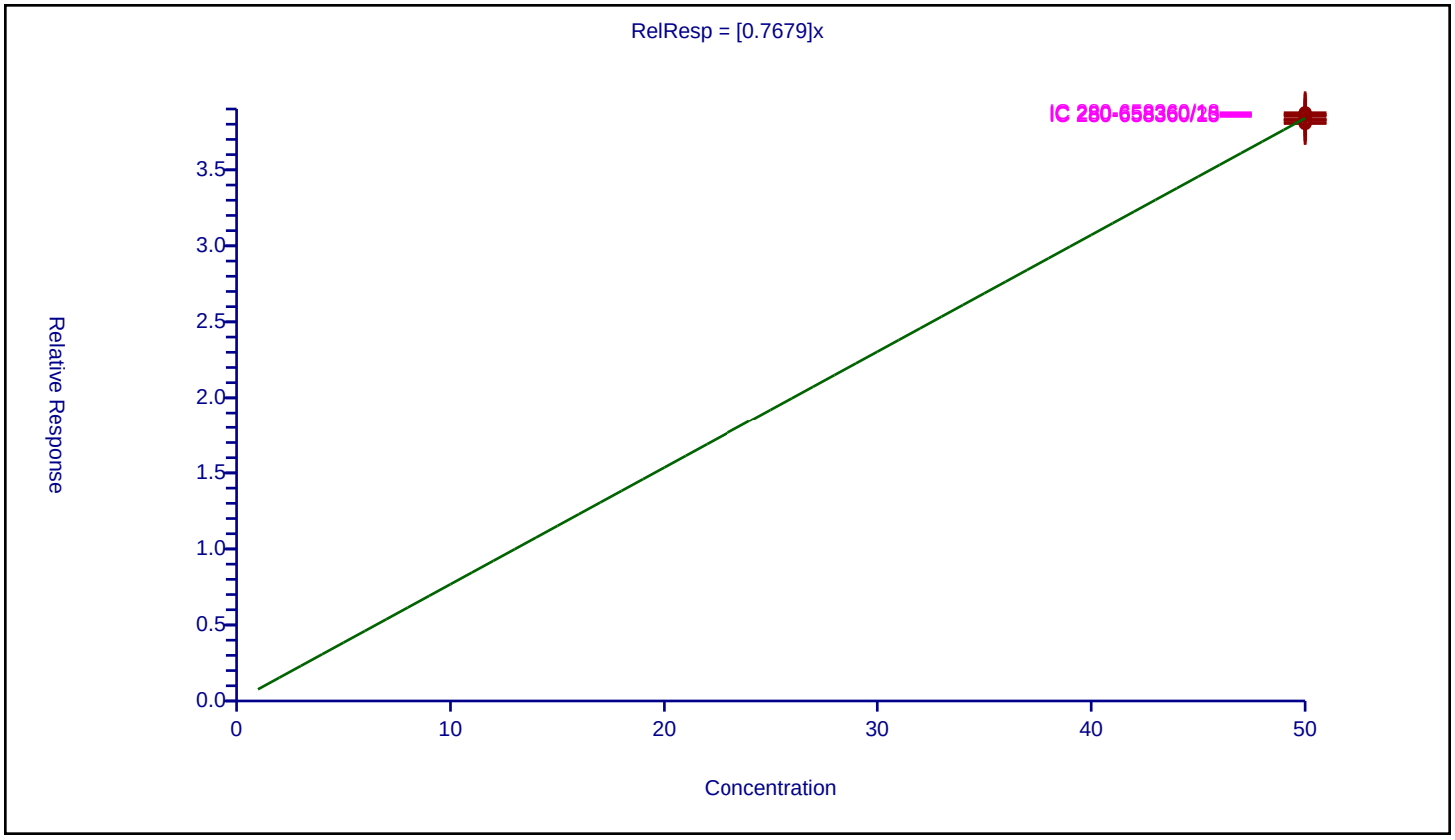
Curve Coefficients

Intercept:	0
Slope:	0.7679

Error Coefficients

Relative Standard Deviation:	0.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-658360/13	50.0	38.51161	50.0	415254.0	0.770232	Y
2	IC 280-658360/14	50.0	38.30421	50.0	410558.0	0.766084	Y
3	IC 280-658360/15	50.0	38.62434	50.0	419057.0	0.772487	Y
4	IC 280-658360/16	50.0	38.258948	50.0	418902.0	0.765179	Y
5	IC 280-658360/17	50.0	38.043409	50.0	422035.0	0.760868	Y
6	IC 280-658360/18	50.0	38.758486	50.0	414486.0	0.77517	Y
7	IC 280-658360/19	50.0	38.311013	50.0	417487.0	0.76622	Y
8	IC 280-658360/20	50.0	38.629432	50.0	418673.0	0.772589	Y
9	IC 280-658360/21	50.0	38.114243	50.0	407046.0	0.762285	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-193176-1 Analy Batch No.: 658449

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 13:21 Calibration End Date: 06/26/2024 19:03 Calibration ID: 95026

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-658449/13	P86680.D
Level 2	STD2 280-658449/14	P86681.D
Level 3	STD5 280-658449/15	P86682.D
Level 4	STD10 280-658449/16	P86683.D
Level 5	STD50 280-658449/17	P86684.D
Level 6	STD75 280-658449/18	P86685.D
Level 7	STD100 280-658449/19	P86686.D
Level 8	STD200 280-658449/20	P86691.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	0.0025 0.0027	0.0023 0.0029	0.0024 0.0026	0.0023	0.0023	Ave		0.0025				8.3		15.0			
Isopropyl alcohol	0.0134 0.0137	0.0189 0.0149	0.0129 0.0128	0.0130	0.0135	Ave		0.0141				14.5		15.0			
Acetonitrile	0.0477 0.0258	0.0408 0.0275	0.0311 0.0240	0.0279	0.0250	Lin2	0.2363	0.0258							0.9940		0.9900
Isopropyl ether	0.2202 0.2274	0.2064 0.2431	0.2087 0.2377	0.2229	0.2240	Ave		0.2238				5.7		15.0			
Chloroprene	0.3195 0.3536	0.2733 0.3758	0.3005 0.3575	0.3493	0.3498	Ave		0.3349				10.2		15.0			
Tert-butyl ethyl ether	0.6414 0.7074	0.6227 0.7519	0.6436 0.7324	0.7071	0.6835	Ave		0.6863				6.8		15.0			
Ethyl acetate	0.2474 0.2161	0.2493 0.2314	0.2266 0.2192	0.2137	0.2129	Ave		0.2271				6.4		15.0			
Propionitrile	0.0334 0.0371	0.0370 0.0399	0.0317 0.0370	0.0361	0.0357	Ave		0.0360				6.9		15.0			
Methacrylonitrile	0.1331 0.1428	0.1111 0.1593	0.1121 0.1629	0.1270	0.1337	Ave		0.1352				14.2		15.0			
Tert-amyl methyl ether	0.6956 0.7449	0.6406 0.8043	0.6711 0.7761	0.7471	0.7217	Ave		0.7252				7.5		15.0			
n-Butanol	0.0061 0.0071	0.0066 0.0078	0.0060 0.0070	0.0062	0.0065	Ave		0.0066				9.1		15.0			
Methyl methacrylate	0.0726 0.0806	0.0669 0.0878	0.0707 0.0848	0.0774	0.0765	Ave		0.0772				9.2		15.0			
2-Nitropropane	0.0485 0.0538	0.0463 0.0595	0.0451 0.0580	0.0516	0.0503	Ave		0.0517				10.1		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.: 280-193176-1 Analy Batch No.: 658449

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 13:21 Calibration End Date: 06/26/2024 19:03 Calibration ID: 95026

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	0.2255 0.2309	0.2008 0.2472	0.1963 0.2408	0.2091	0.2181	Ave		0.2211				8.3		15.0			
1,2,3-Trimethylbenzene	2.4677 2.8157	2.1950 2.9926	2.3272 3.0977	2.6335	2.7000	Ave		2.6537				11.9		15.0			
1,3,5-Trichlorobenzene	0.9666 1.0193	0.7603 1.0820	0.8527 1.1271	0.9694	0.9902	Ave		0.9709				12.2		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.: 280-193176-1 | Analy Batch No.: 658449

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 13:21 | Calibration End Date: 06/26/2024 19:03 | Calibration ID: 95026

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-658449/13	P86680.D
Level 2	STD2 280-658449/14	P86681.D
Level 3	STD5 280-658449/15	P86682.D
Level 4	STD10 280-658449/16	P86683.D
Level 5	STD50 280-658449/17	P86684.D
Level 6	STD75 280-658449/18	P86685.D
Level 7	STD100 280-658449/19	P86686.D
Level 8	STD200 280-658449/20	P86691.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	3377 252337	5336 369464	13827 650453	26200	147297	60.0 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Ave	2975 217170	7356 319806	12453 540939	24697	142121	10.0 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Lin2	10612 409321	15865 590607	30091 1013861	53204	263203	10.0 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	4895 360605	8032 521316	20223 1002764	42495	235912	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	7100 560743	10633 805769	29108 1507990	66592	368404	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	14256 1121780	24230 1612116	62354 3089710	134818	719883	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	10995 685445	19401 992358	43900 1849799	81485	448581	2.00 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	7413 588238	14393 855066	30719 1559439	68824	376016	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	29573 2263859	43217 3416171	108601 6872520	242138	1408640	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	15459 1181355	24926 1724471	65013 3274137	142436	760110	1.00 75.0	2.00 100	5.00 200	10.0	50.0
n-Butanol	FB	Ave	3399 282002	6396 416533	14521 733026	29348	170474	25.0 1875	50.0 2500	125 5000	250	1250
Methyl methacrylate	FB	Ave	3227 255683	5205 376662	13702 715241	29515	161087	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	2158 170723	3604 255292	8738 489514	19663	106064	2.00 150	4.00 200	10.0 400	20.0	100
cis-1,4-Dichloro-2-butene	DCBd4	Ave	3892 289341	6288 419076	15643 833246	31983	179370	2.00 150	4.00 200	10.0 400	20.0	100
1,2,3-Trimethylbenzene	DCBd4	Ave	21297 1764196	34374 2537119	92746 5360097	201434	1110308	1.00 75.0	2.00 100	5.00 200	10.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-193176-1 | Analy Batch No.: 658449

SDG No.:

Instrument ID: VMS_P | GC Column: DB-624 (60 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2024 13:21 | Calibration End Date: 06/26/2024 19:03 | Calibration ID: 95026

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
1,3,5-Trichlorobenzene	DCBd4	Ave	8342 638635	11907 917317	33982 1950278	74144	407204	1.00 75.0	2.00 100	5.00 200	10.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86680.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Jun-2024 13:21:30 ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:13 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:17:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1111238	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	85	278928	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	431521	50.0	50.0	
16 Ethanol	45	2.592	2.597	-0.005	56	3377	60.0	61.0	a
22 Isopropyl alcohol	45	2.979	2.979	0.000	95	2975	10.0	9.47	M
27 Acetonitrile	41	3.055	3.050	0.005	97	10612	10.0	9.36	
35 Isopropyl ether	87	3.705	3.700	0.005	92	4895	1.00	0.9841	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	92	7100	1.00	0.9539	
38 Tert-butyl ethyl ether	59	3.961	3.956	0.005	96	14256	1.00	0.9347	
40 Ethyl acetate	43	4.103	4.098	0.005	98	10995	2.00	2.18	
43 Propionitrile	54	4.103	4.109	-0.006	63	7413	10.0	9.27	
45 Methacrylonitrile	41	4.218	4.212	0.006	88	29573	10.0	9.84	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	93	15459	1.00	0.9592	
58 n-Butanol	56	5.118	5.118	0.000	84	3399	25.0	23.0	
63 Methyl methacrylate	100	5.434	5.429	0.005	78	3227	2.00	1.88	
67 2-Nitropropane	41	5.751	5.751	0.000	98	2158	2.00	1.88	
89 cis-1,4-Dichloro-2-butene	53	8.414	8.408	0.006	89	3892	2.00	2.04	
106 1,2,3-Trimethylbenzene	105	9.723	9.718	0.005	99	21297	1.00	0.9299	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	92	8342	1.00	1.00	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

mv-Cent IS_00008	Amount Added:	5.00	Units: uL
MV-Supp B_00072	Amount Added:	1.00	Units: uL

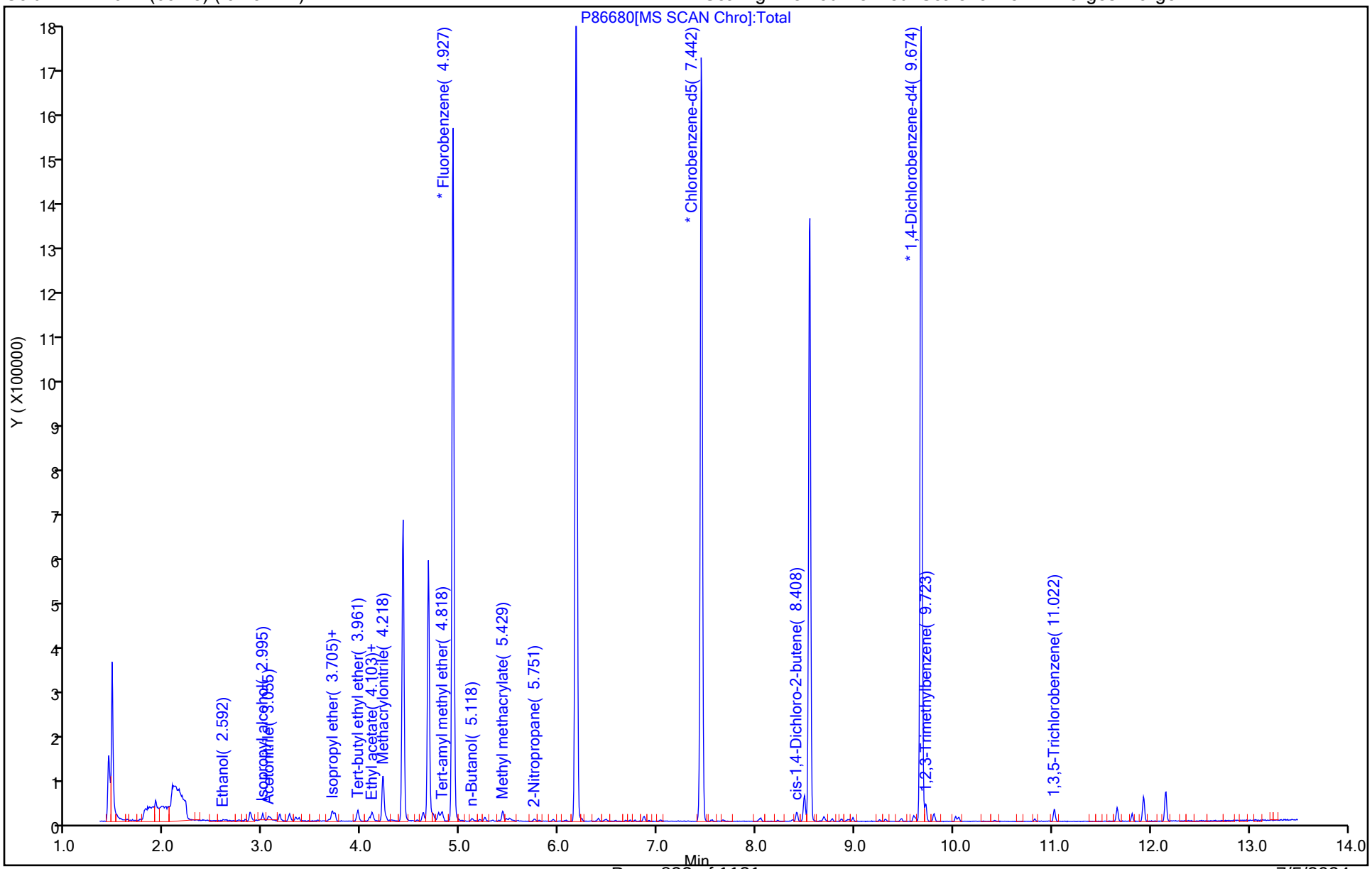
Report Date: 26-Jun-2024 21:52:13 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86680.D

Injection Date:	26-Jun-2024 13:21:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD1			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Manual Integration/User Assign Peak Report

Eurofins Denver

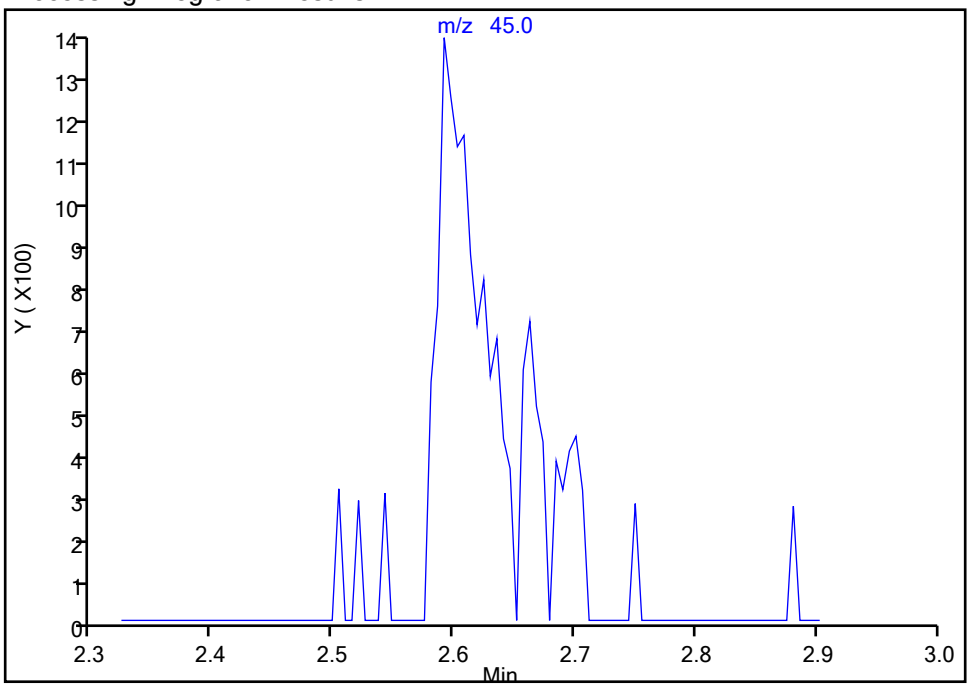
Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86680.D
Injection Date: 26-Jun-2024 13:21:30 Instrument ID: VMS_P
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

16 Ethanol, CAS: 64-17-5

Signal: 1

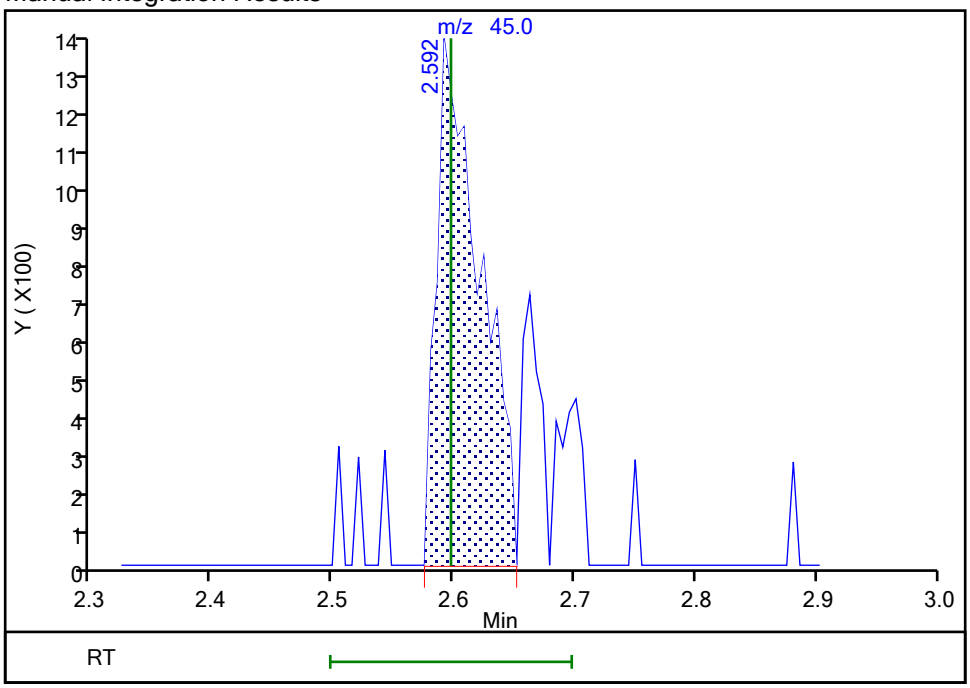
Not Detected
Expected RT: 2.60

Processing Integration Results



Manual Integration Results

RT: 2.59
Area: 3377
Amount: 61.048658
Amount Units: ug/l



Reviewer: V8PV, 26-Jun-2024 18:17:08 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

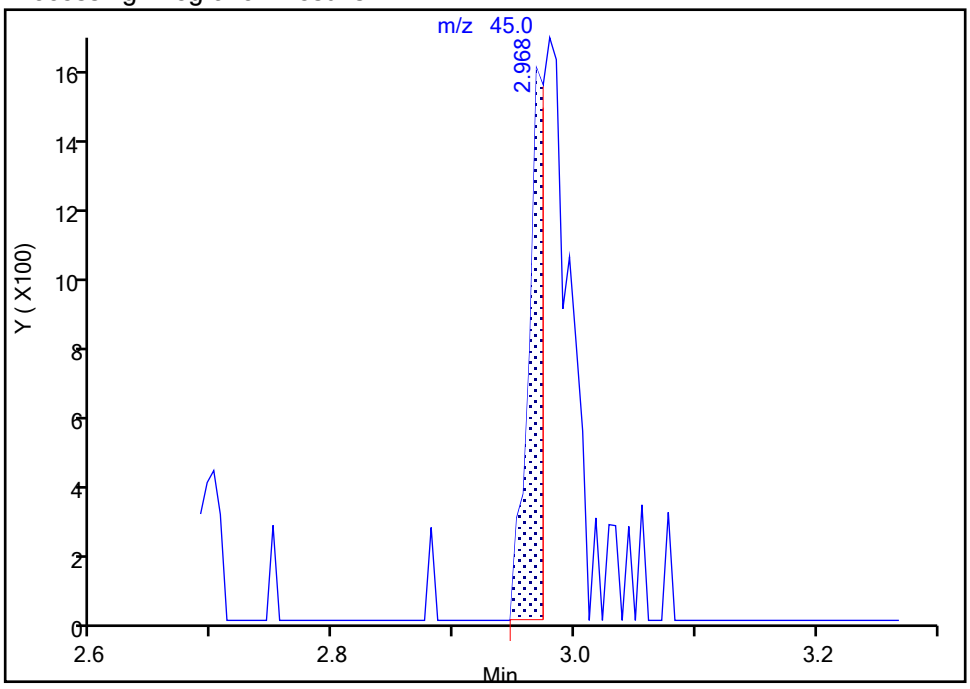
Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86680.D
Injection Date: 26-Jun-2024 13:21:30 Instrument ID: VMS_P
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

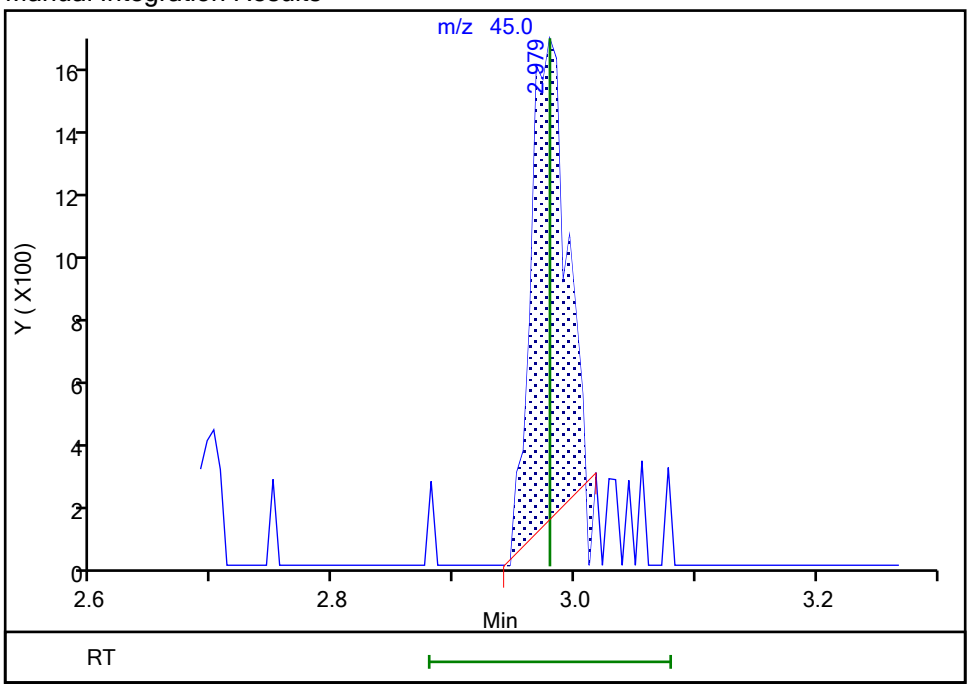
Processing Integration Results

RT: 2.97
Area: 1475
Amount: 5.271663
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 2975
Amount: 9.474683
Amount Units: ug/l



Reviewer: V8PV, 26-Jun-2024 18:17:21 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86681.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Jun-2024 13:41:30 ALS Bottle#: 2 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:12 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 21:52:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	972742	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	234537	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	391501	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	96	5336	120.0	110.2	
22 Isopropyl alcohol	45	2.985	2.979	0.006	97	7356	20.0	26.8	
27 Acetonitrile	41	3.055	3.050	0.005	100	15865	20.0	22.5	
35 Isopropyl ether	87	3.705	3.700	0.005	90	8032	2.00	1.84	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	10633	2.00	1.63	
38 Tert-butyl ethyl ether	59	3.961	3.956	0.005	96	24230	2.00	1.81	
40 Ethyl acetate	43	4.098	4.098	0.000	98	19401	4.00	4.39	
43 Propionitrile	54	4.109	4.109	0.000	99	14393	20.0	20.6	
45 Methacrylonitrile	41	4.218	4.212	0.006	83	43217	20.0	16.4	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	95	24926	2.00	1.77	
58 n-Butanol	56	5.123	5.118	0.005	82	6396	50.0	49.5	
63 Methyl methacrylate	100	5.429	5.429	0.000	76	5205	4.00	3.47	
67 2-Nitropropane	41	5.751	5.751	0.000	98	3604	4.00	3.59	
89 cis-1,4-Dichloro-2-butene	53	8.414	8.408	0.006	91	6288	4.00	3.63	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	34374	2.00	1.65	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	11907	2.00	1.57	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 2.00 Units: uL

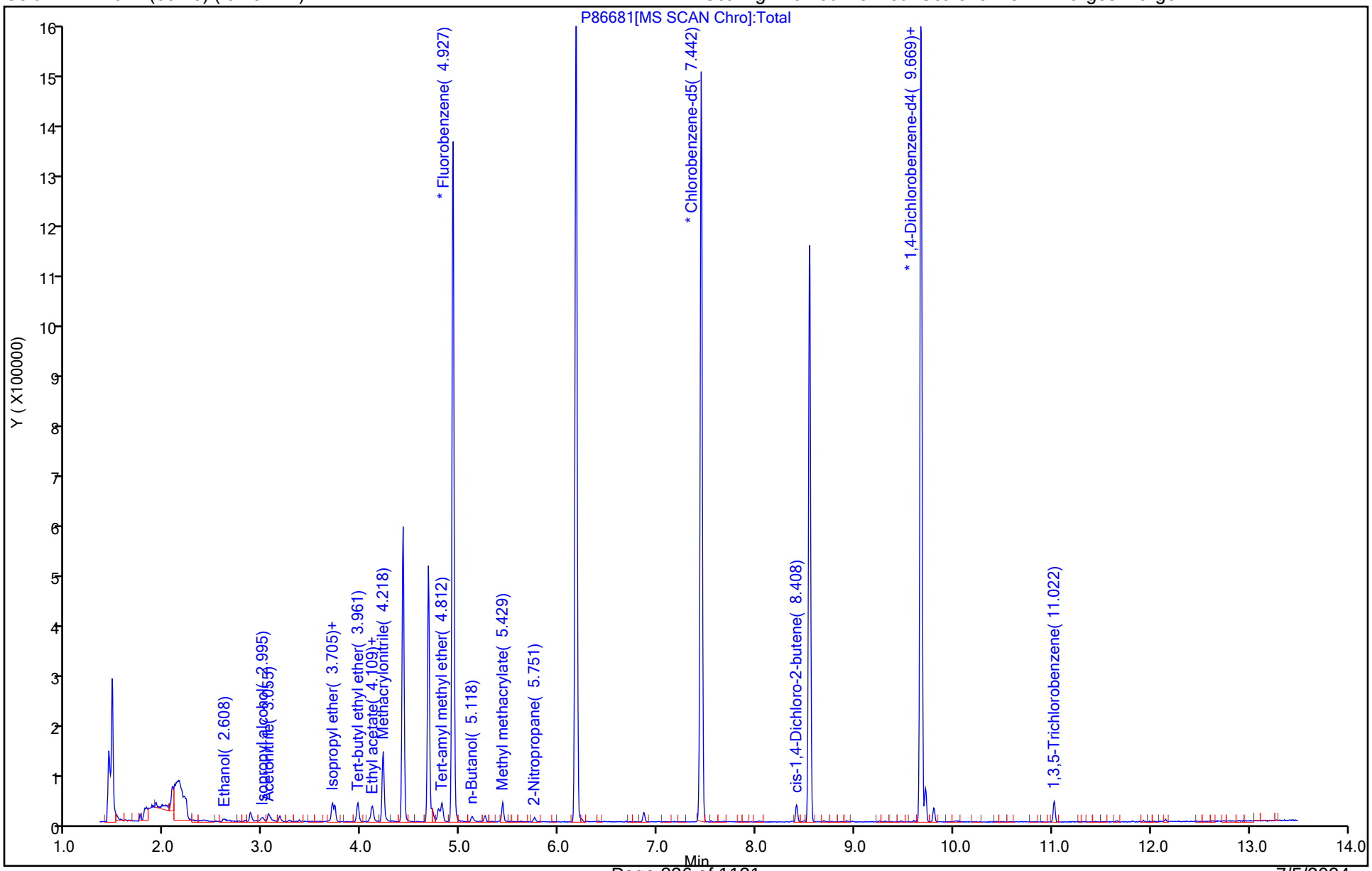
Report Date: 26-Jun-2024 21:52:12 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86681.D

Injection Date:	26-Jun-2024 13:41:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD2			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86682.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Jun-2024 14:02:30 ALS Bottle#: 3 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:14 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:16:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	968785	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	238148	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	398533	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	98	13827	300.0	286.7	
22 Isopropyl alcohol	45	2.979	2.979	0.000	98	12453	50.0	45.5	
27 Acetonitrile	41	3.055	3.050	0.005	100	30091	50.0	51.1	
35 Isopropyl ether	87	3.705	3.700	0.005	91	20223	5.00	4.66	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	90	29108	5.00	4.49	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	97	62354	5.00	4.69	
40 Ethyl acetate	43	4.103	4.098	0.005	99	43900	10.0	9.98	
43 Propionitrile	54	4.109	4.109	0.000	99	30719	50.0	44.1	
45 Methacrylonitrile	41	4.218	4.212	0.006	85	108601	50.0	41.4	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	98	65013	5.00	4.63	
58 n-Butanol	56	5.118	5.118	0.000	82	14521	125.0	112.8	
63 Methyl methacrylate	100	5.429	5.429	0.000	80	13702	10.0	9.16	
67 2-Nitropropane	41	5.751	5.751	0.000	91	8738	10.0	8.73	
89 cis-1,4-Dichloro-2-butene	53	8.414	8.408	0.006	88	15643	10.0	8.88	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	92746	5.00	4.38	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	95	33982	5.00	4.39	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 5.00 Units: uL

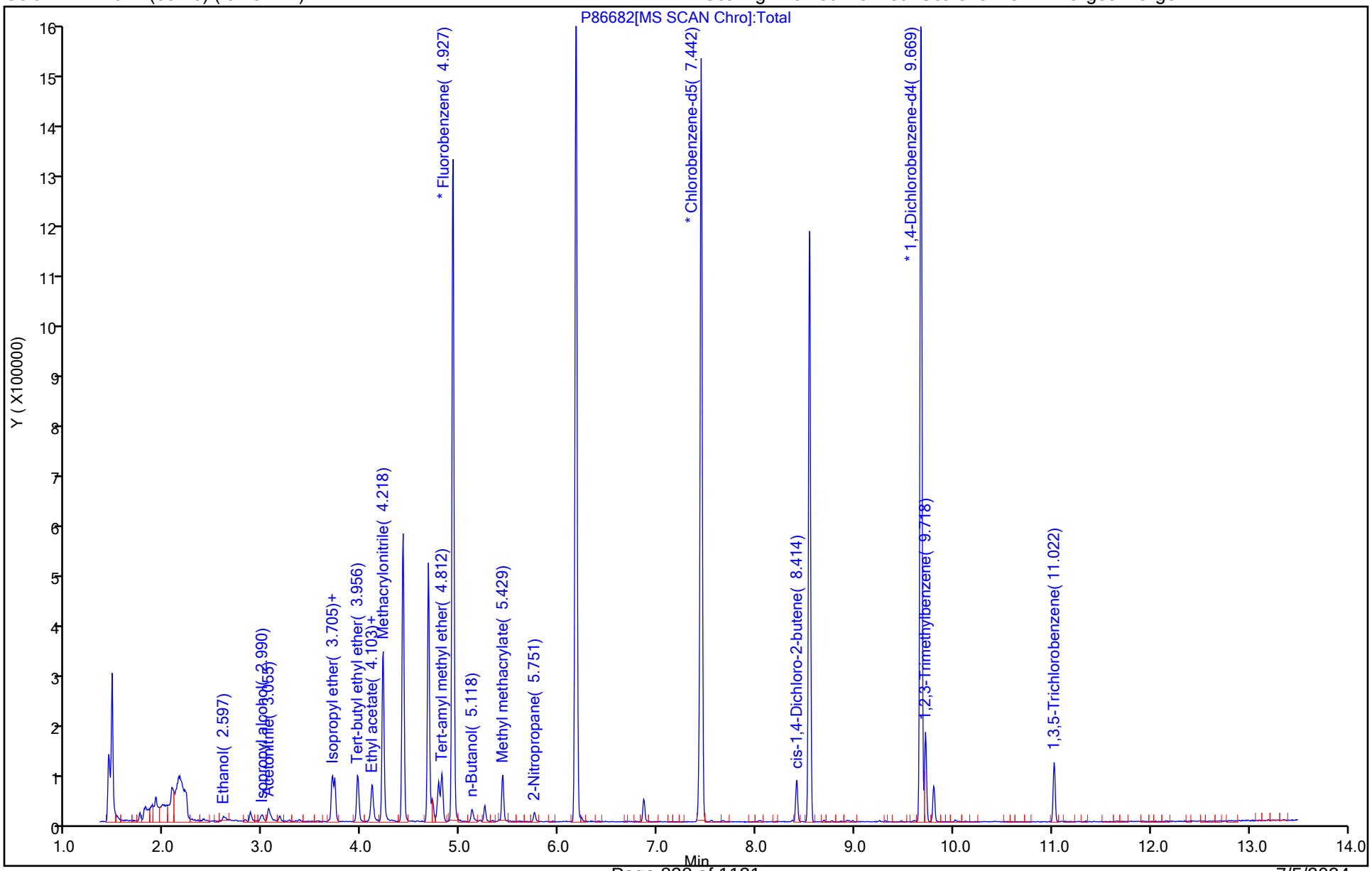
Report Date: 26-Jun-2024 21:52:15 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86682.D

Injection Date:	26-Jun-2024 14:02:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD5			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86683.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Jun-2024 14:22:30 ALS Bottle#: 4 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:16 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:16:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	953300	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	232137	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	382441	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	99	26200	600.0	552.1	
22 Isopropyl alcohol	45	2.974	2.979	-0.005	97	24697	100.0	91.7	
27 Acetonitrile	41	3.055	3.050	0.005	100	53204	100.0	99.1	
35 Isopropyl ether	87	3.699	3.700	-0.001	91	42495	10.0	9.96	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	66592	10.0	10.4	
38 Tert-butyl ethyl ether	59	3.961	3.956	0.005	95	134818	10.0	10.3	
40 Ethyl acetate	43	4.103	4.098	0.005	98	81485	20.0	18.8	
43 Propionitrile	54	4.109	4.109	0.000	99	68824	100.0	100.3	
45 Methacrylonitrile	41	4.218	4.212	0.006	84	242138	100.0	93.9	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	98	142436	10.0	10.3	
58 n-Butanol	56	5.118	5.118	0.000	84	29348	250.0	231.7	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	29515	20.0	20.1	
67 2-Nitropropane	41	5.751	5.751	0.000	94	19663	20.0	20.0	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	91	31983	20.0	18.9	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	201434	10.0	9.92	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	74144	10.0	9.98	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 10.00 Units: uL

Report Date: 26-Jun-2024 21:52:16 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86683.D

Injection Date: 26-Jun-2024 14:22:30 Instrument ID: VMS_P Operator ID: COULTER

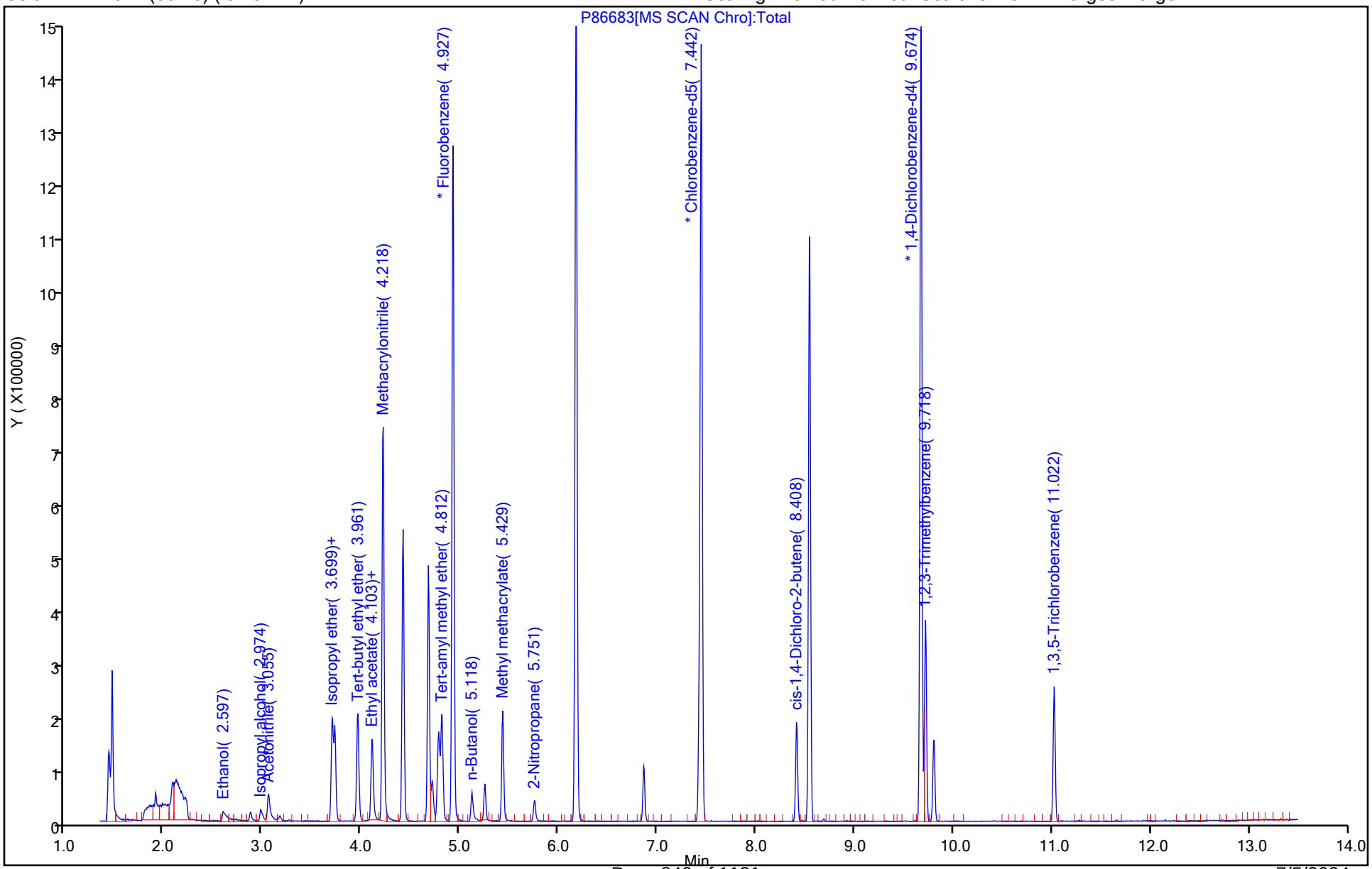
Lims ID: STD10 Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: AQ_VMSP_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_P\20240626-134914.b\P86684.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Jun-2024 14:43:30 ALS Bottle#: 5 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:17 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:15:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1053272	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	85	255995	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	94	411220	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	100	147297	3000.0	2809.3	
22 Isopropyl alcohol	45	2.979	2.979	0.000	98	142121	500.0	477.5	
27 Acetonitrile	41	3.050	3.050	0.000	99	263203	500.0	475.6	
35 Isopropyl ether	87	3.700	3.700	0.000	90	235912	50.0	50.0	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	368404	50.0	52.2	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	719883	50.0	49.8	
40 Ethyl acetate	43	4.098	4.098	0.000	98	448581	100.0	93.8	
43 Propionitrile	54	4.109	4.109	0.000	99	376016	500.0	496.2	
45 Methacrylonitrile	41	4.212	4.212	0.000	85	1408640	500.0	494.4	
56 Tert-amyl methyl ether	73	4.813	4.813	0.000	97	760110	50.0	49.8	
58 n-Butanol	56	5.118	5.118	0.000	84	170474	1250.0	1218.0	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	161087	100.0	99.1	
67 2-Nitropropane	41	5.751	5.751	0.000	98	106064	100.0	97.5	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	93	179370	100.0	98.7	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	1110308	50.0	50.9	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	97	407204	50.0	51.0	

QC Flag Legend

Processing Flags

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 50.00 Units: uL

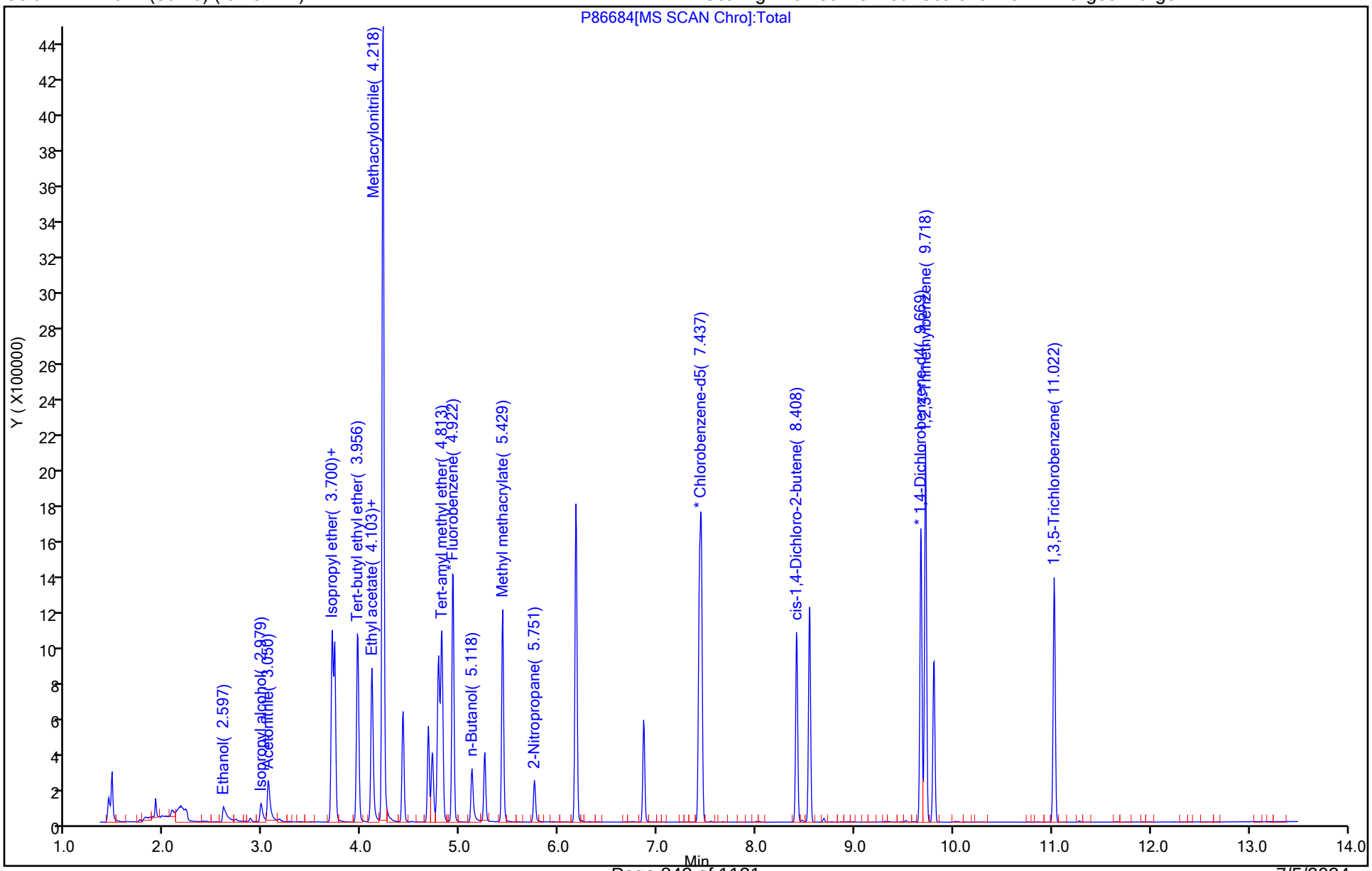
Report Date: 26-Jun-2024 21:52:17 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86684.D

Injection Date:	26-Jun-2024 14:43:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD50			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86685.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Jun-2024 15:03:30 ALS Bottle#: 6 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:18 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:15:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1057225	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	262775	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	94	417707	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	99	252337	4500.0	4794.7	
22 Isopropyl alcohol	45	2.979	2.979	0.000	98	217170	750.0	727.0	
27 Acetonitrile	41	3.050	3.050	0.000	99	409321	750.0	741.9	
35 Isopropyl ether	87	3.699	3.700	-0.001	90	360605	75.0	76.2	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	560743	75.0	79.2	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	1121780	75.0	77.3	
40 Ethyl acetate	43	4.098	4.098	0.000	99	685445	150.0	142.8	
43 Propionitrile	54	4.109	4.109	0.000	99	588238	750.0	773.3	
45 Methacrylonitrile	41	4.218	4.212	0.006	84	2263859	750.0	791.6	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	97	1181355	75.0	77.0	
58 n-Butanol	56	5.118	5.118	0.000	83	282002	1875.0	2007.3	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	255683	150.0	156.7	
67 2-Nitropropane	41	5.751	5.751	0.000	99	170723	150.0	156.3	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	94	289341	150.0	156.7	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	1764196	75.0	79.6	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	97	638635	75.0	78.7	

QC Flag Legend

Processing Flags

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 75.00 Units: uL

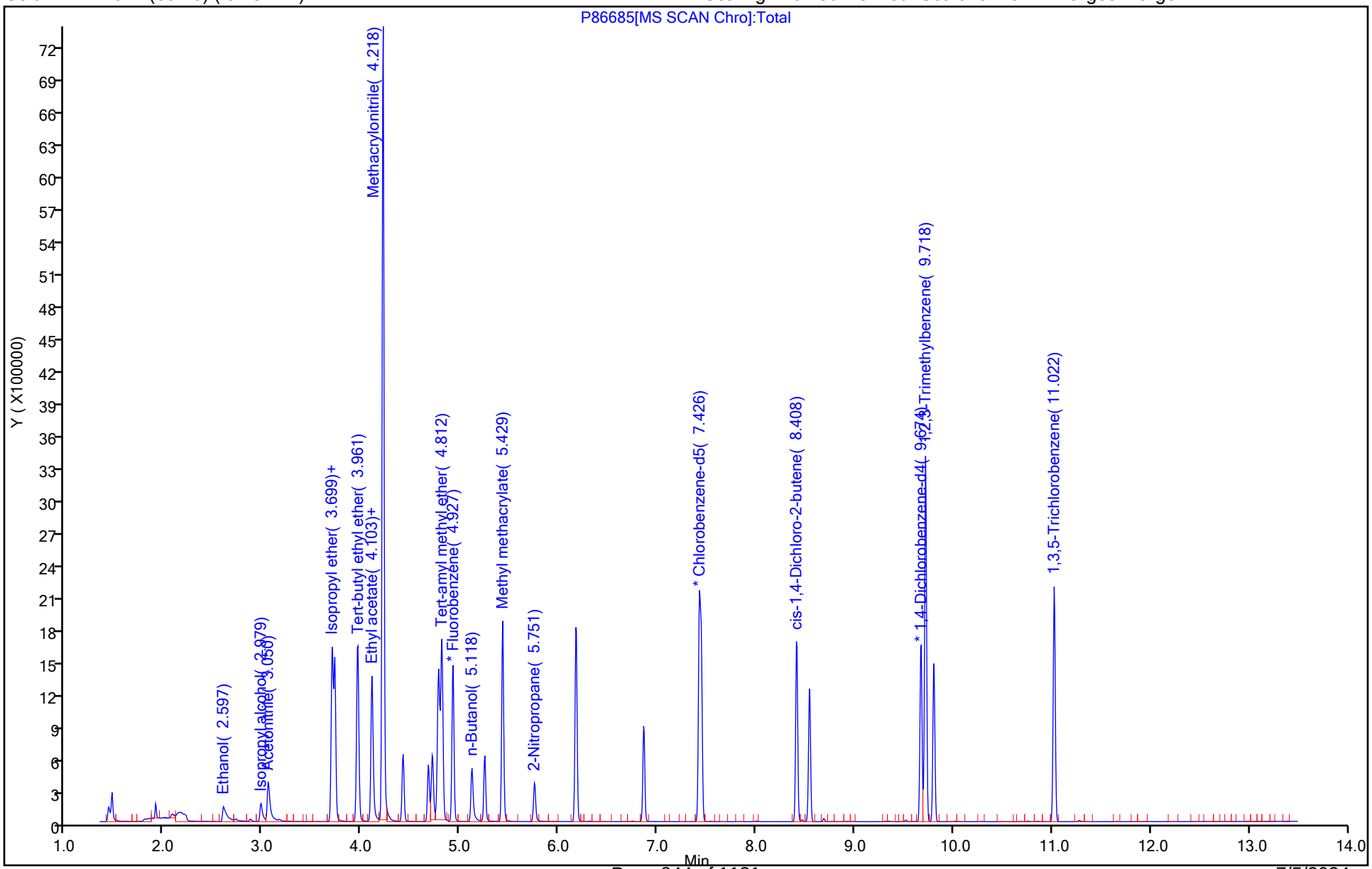
Report Date: 26-Jun-2024 21:52:18 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86685.D

Injection Date:	26-Jun-2024 15:03:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD75			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86686.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Jun-2024 15:24:30 ALS Bottle#: 7 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:19 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 18:15:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1072008	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	84	269834	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	94	423893	50.0	50.0	
16 Ethanol	45	2.603	2.597	0.006	100	369464	6000.0	6923.5	
22 Isopropyl alcohol	45	2.979	2.979	0.000	98	319806	1000.0	1055.8	
27 Acetonitrile	41	3.050	3.050	0.000	99	590607	1000.0	1059.7	
35 Isopropyl ether	87	3.699	3.700	-0.001	90	521316	100.0	108.6	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	805769	100.0	112.2	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	1612116	100.0	109.6	
40 Ethyl acetate	43	4.098	4.098	0.000	99	992358	200.0	203.8	
43 Propionitrile	54	4.109	4.109	0.000	99	855066	1000.0	1108.6	
45 Methacrylonitrile	41	4.218	4.212	0.006	84	3416171	1000.0	1178.1	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	97	1724471	100.0	110.9	
58 n-Butanol	56	5.118	5.118	0.000	83	416533	2500.0	2924.0	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	376662	200.0	227.7	
67 2-Nitropropane	41	5.751	5.751	0.000	98	255292	200.0	230.5	
89 cis-1,4-Dichloro-2-butene	53	8.414	8.408	0.006	94	419076	200.0	223.6	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	2537119	100.0	112.8	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	97	917317	100.0	111.4	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 100.00 Units: uL

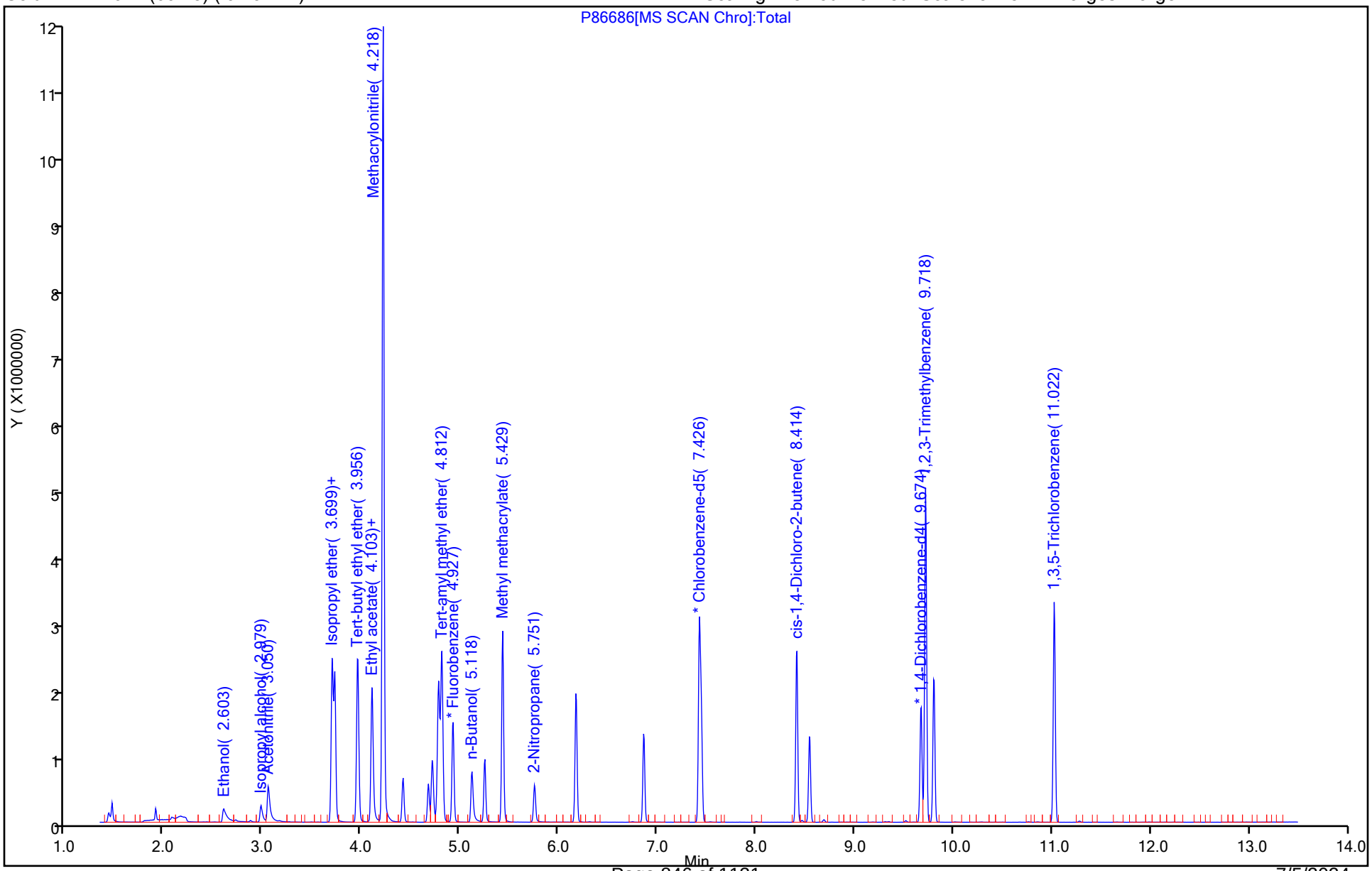
Report Date: 26-Jun-2024 21:52:20 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86686.D

Injection Date:	26-Jun-2024 15:24:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD100			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 26-Jun-2024 19:03:30 ALS Bottle#: 12 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub217

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 21:52:21 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

First Level Reviewer: V8PV Date: 26-Jun-2024 20:08:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1054678	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	86	276522	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	94	432583	50.0	50.0	
16 Ethanol	45	2.603	2.597	0.006	100	650453	12000	12389	
22 Isopropyl alcohol	45	2.979	2.979	0.000	98	540939	2000.0	1815.2	
27 Acetonitrile	41	3.050	3.050	0.000	99	1013861	2000.0	1855.8	
35 Isopropyl ether	87	3.699	3.700	-0.001	90	1002764	200.0	212.4	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	90	1507990	200.0	213.5	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	3089710	200.0	213.4	
40 Ethyl acetate	43	4.098	4.098	0.000	99	1849799	400.0	386.2	
43 Propionitrile	54	4.109	4.109	0.000	99	1559439	2000.0	2055.1	
45 Methacrylonitrile	41	4.218	4.212	0.006	83	6872520	2000.0	2409.0	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	97	3274137	200.0	214.0	
58 n-Butanol	56	5.118	5.118	0.000	83	733026	5000.0	5230.3	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	715241	400.0	439.4	
67 2-Nitropropane	41	5.751	5.751	0.000	99	489514	400.0	449.2	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	94	833246	400.0	435.7	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	5360097	200.0	233.5	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	97	1950278	200.0	232.2	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 200.00 Units: uL

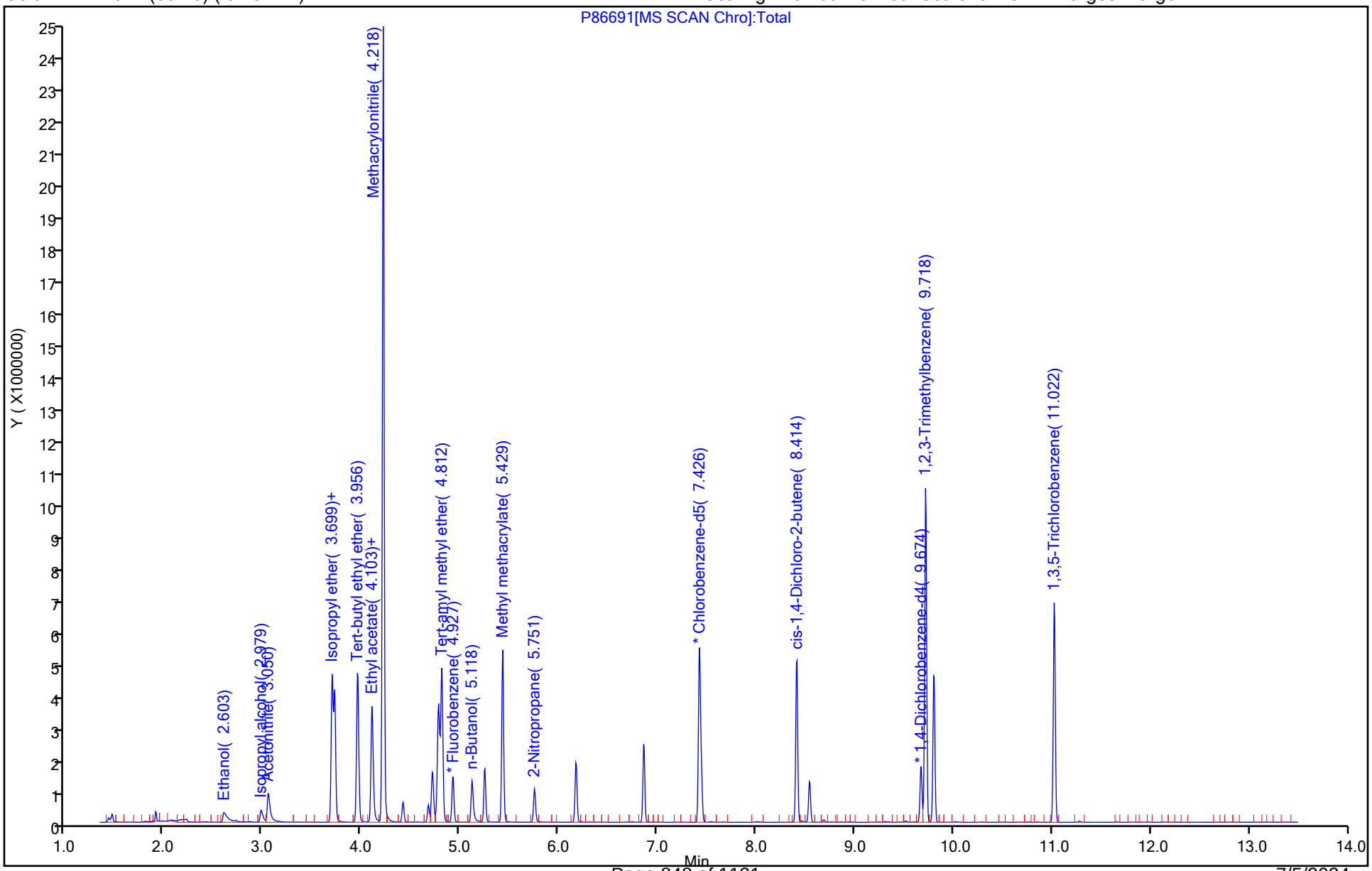
Report Date: 26-Jun-2024 21:52:21 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Injection Date:	26-Jun-2024 19:03:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	STD200			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

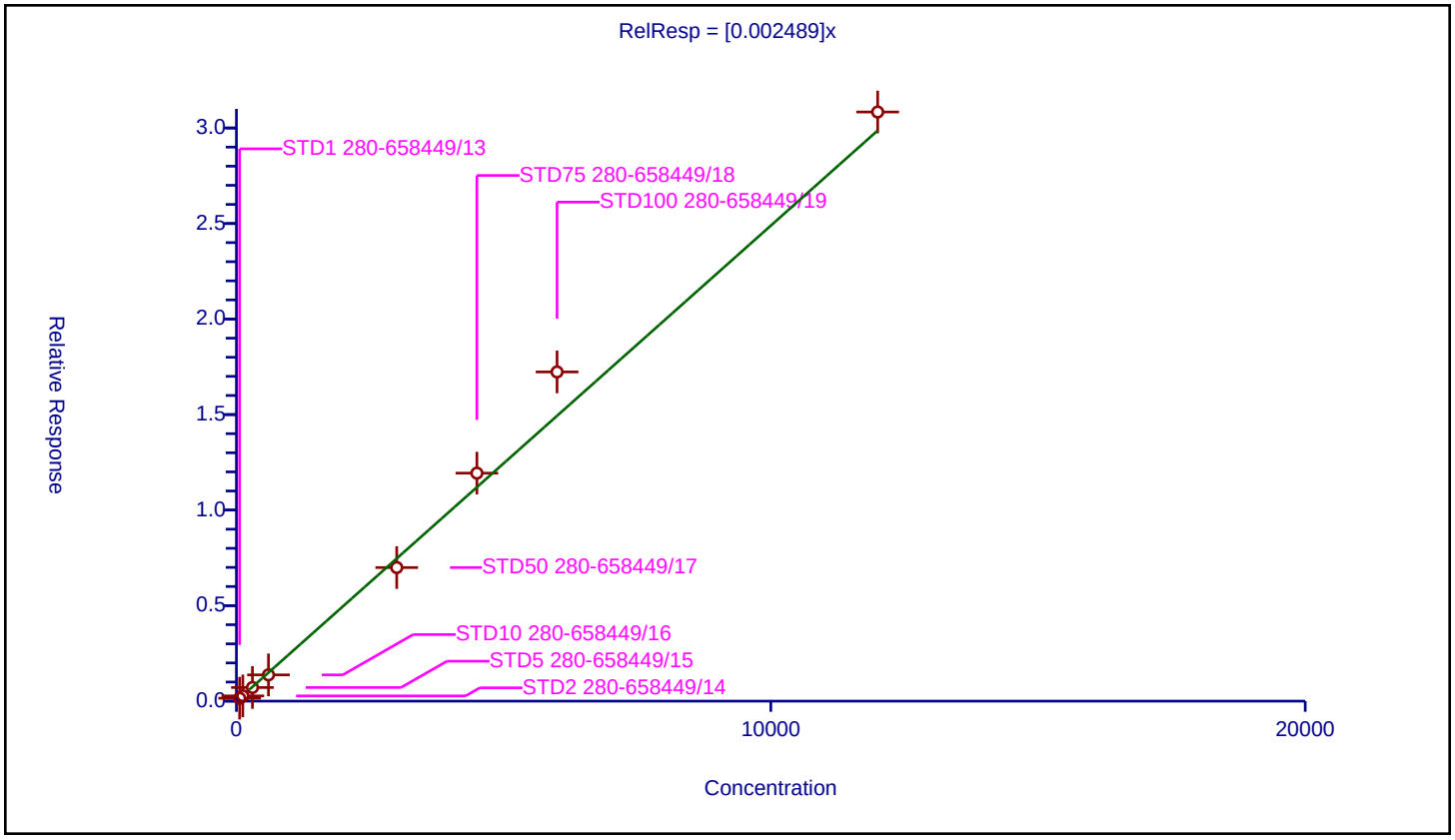
Curve Coefficients

Intercept:	0
Slope:	0.002489

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	60.0	0.151948	50.0	1111238.0	0.002532	Y
2	STD2 280-658449/14	120.0	0.274276	50.0	972742.0	0.002286	Y
3	STD5 280-658449/15	300.0	0.713626	50.0	968785.0	0.002379	Y
4	STD10 280-658449/16	600.0	1.374174	50.0	953300.0	0.00229	Y
5	STD50 280-658449/17	3000.0	6.992353	50.0	1053272.0	0.002331	Y
6	STD75 280-658449/18	4500.0	11.933931	50.0	1057225.0	0.002652	Y
7	STD100 280-658449/19	6000.0	17.232334	50.0	1072008.0	0.002872	Y
8	STD200 280-658449/20	12000.0	30.836568	50.0	1054678.0	0.00257	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

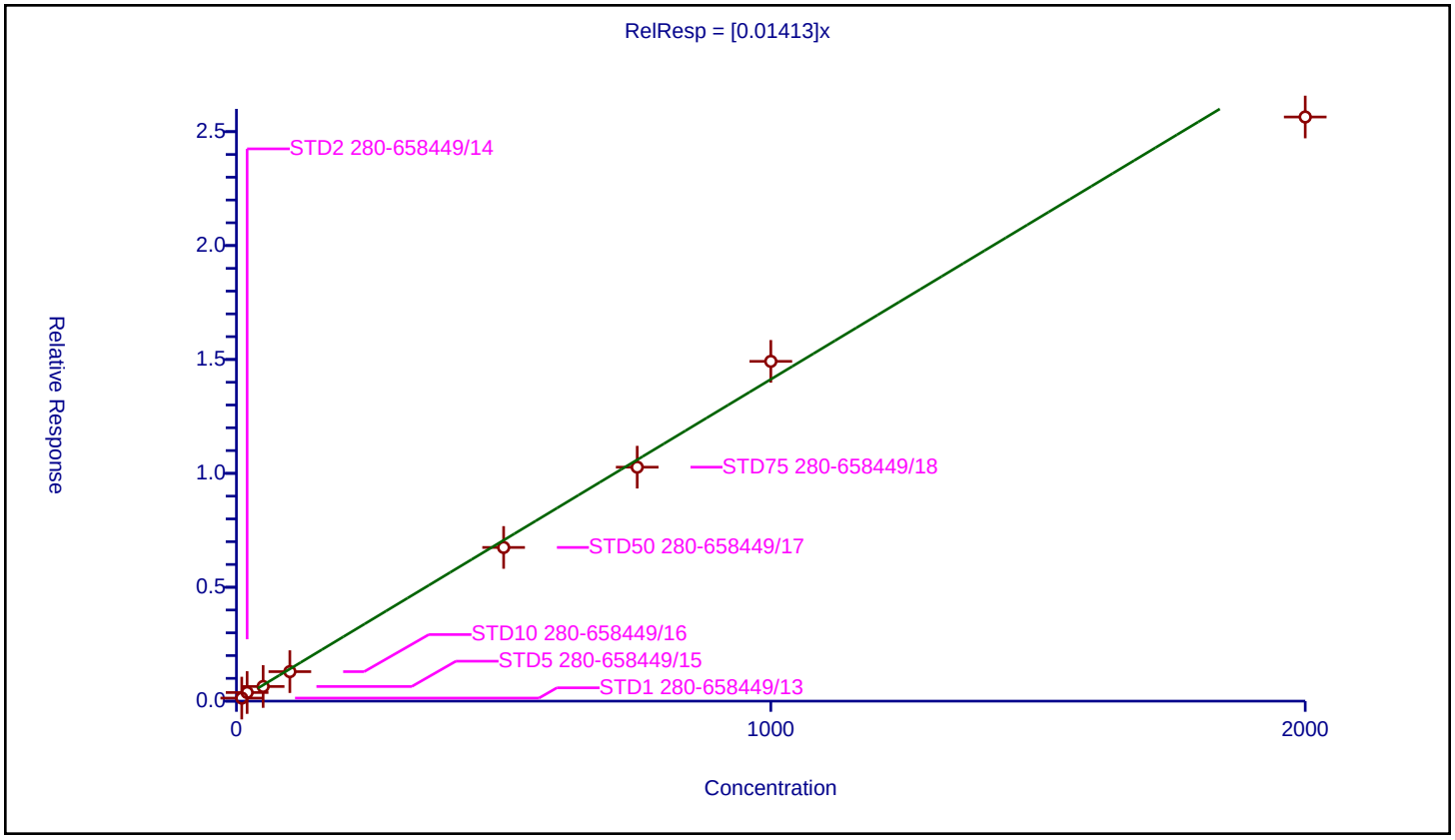
Curve Coefficients

Intercept:	0
Slope:	0.01413

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	10.0	0.13386	50.0	1111238.0	0.013386	Y
2	STD2 280-658449/14	20.0	0.378106	50.0	972742.0	0.018905	Y
3	STD5 280-658449/15	50.0	0.642712	50.0	968785.0	0.012854	Y
4	STD10 280-658449/16	100.0	1.295342	50.0	953300.0	0.012953	Y
5	STD50 280-658449/17	500.0	6.746643	50.0	1053272.0	0.013493	Y
6	STD75 280-658449/18	750.0	10.270756	50.0	1057225.0	0.013694	Y
7	STD100 280-658449/19	1000.0	14.916213	50.0	1072008.0	0.014916	Y
8	STD200 280-658449/20	2000.0	25.644747	50.0	1054678.0	0.012822	Y



Calibration / Acetonitrile

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

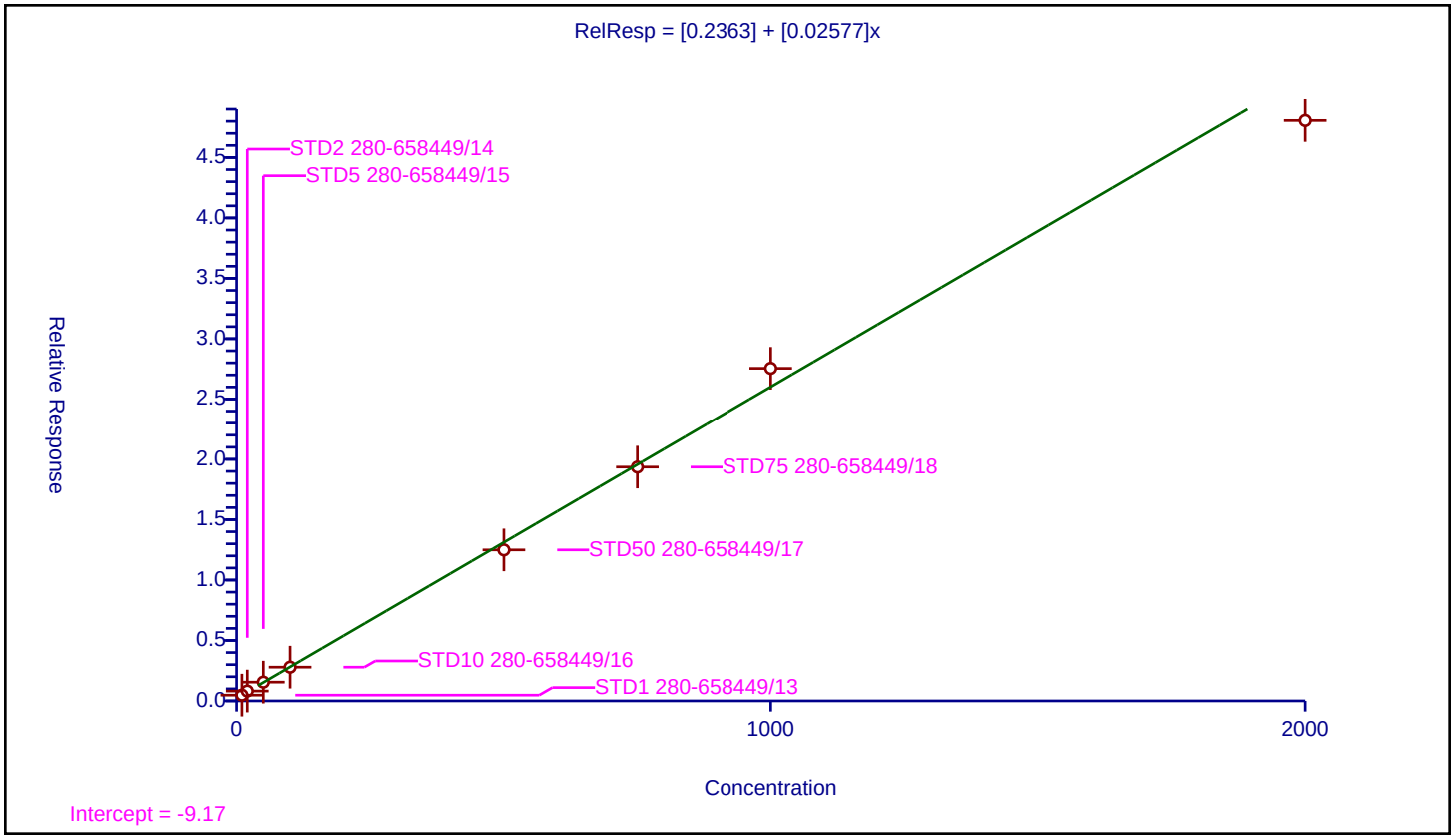
Curve Coefficients

Intercept:	0.2363
Slope:	0.02577

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	10.0	0.477485	50.0	1111238.0	0.047749	Y
2	STD2 280-658449/14	20.0	0.815478	50.0	972742.0	0.040774	Y
3	STD5 280-658449/15	50.0	1.553028	50.0	968785.0	0.031061	Y
4	STD10 280-658449/16	100.0	2.790517	50.0	953300.0	0.027905	Y
5	STD50 280-658449/17	500.0	12.494541	50.0	1053272.0	0.024989	Y
6	STD75 280-658449/18	750.0	19.358273	50.0	1057225.0	0.025811	Y
7	STD100 280-658449/19	1000.0	27.546763	50.0	1072008.0	0.027547	Y
8	STD200 280-658449/20	2000.0	48.064954	50.0	1054678.0	0.024032	Y



7/5/2024
11:14:22 AM

Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

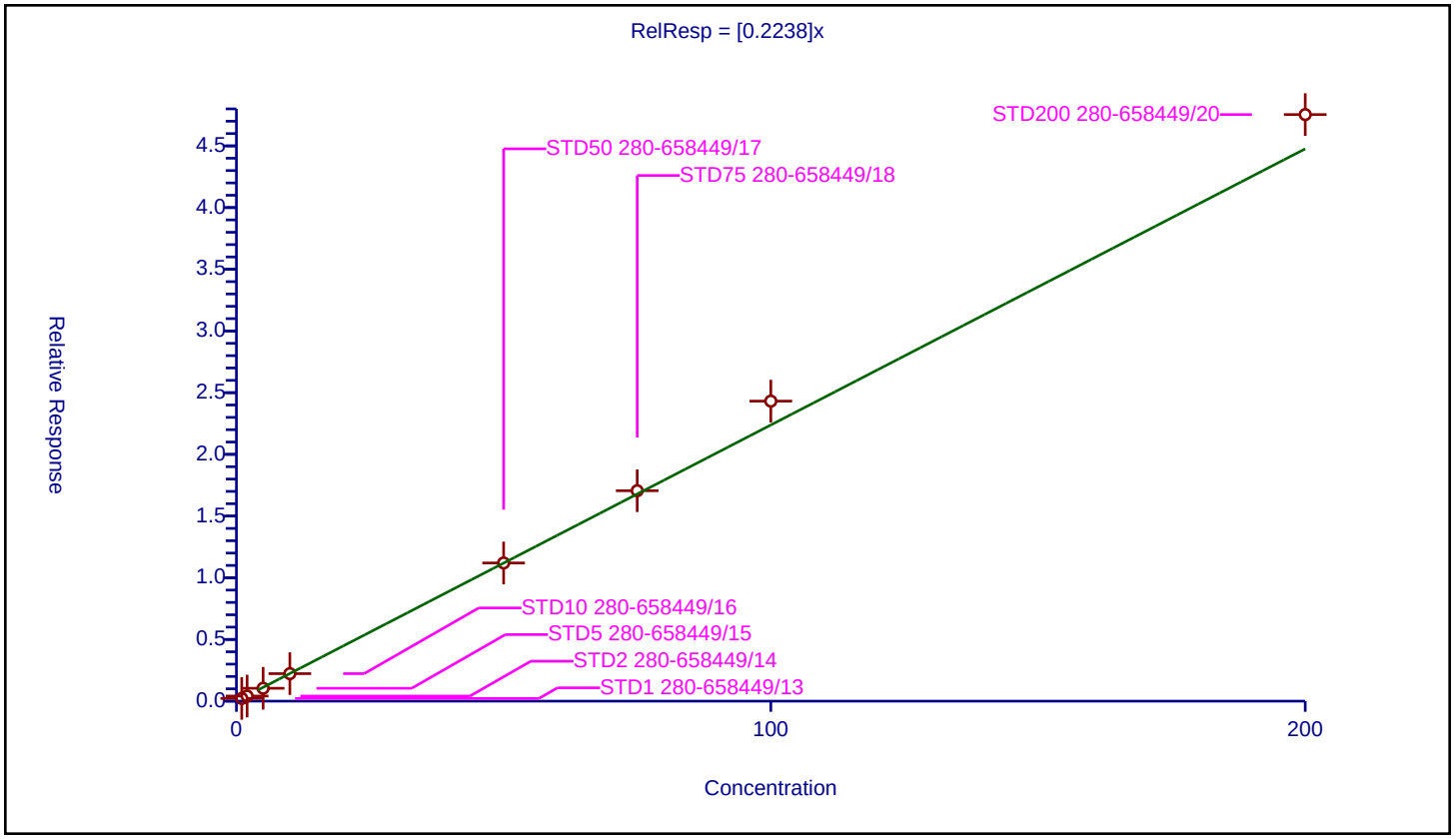
Curve Coefficients

Intercept:	0
Slope:	0.2238

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	0.22025	50.0	1111238.0	0.22025	Y
2	STD2 280-658449/14	2.0	0.412854	50.0	972742.0	0.206427	Y
3	STD5 280-658449/15	5.0	1.04373	50.0	968785.0	0.208746	Y
4	STD10 280-658449/16	10.0	2.228837	50.0	953300.0	0.222884	Y
5	STD50 280-658449/17	50.0	11.199007	50.0	1053272.0	0.22398	Y
6	STD75 280-658449/18	75.0	17.054317	50.0	1057225.0	0.227391	Y
7	STD100 280-658449/19	100.0	24.31493	50.0	1072008.0	0.243149	Y
8	STD200 280-658449/20	200.0	47.53887	50.0	1054678.0	0.237694	Y



7/5/2024
11:14:22 AM

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

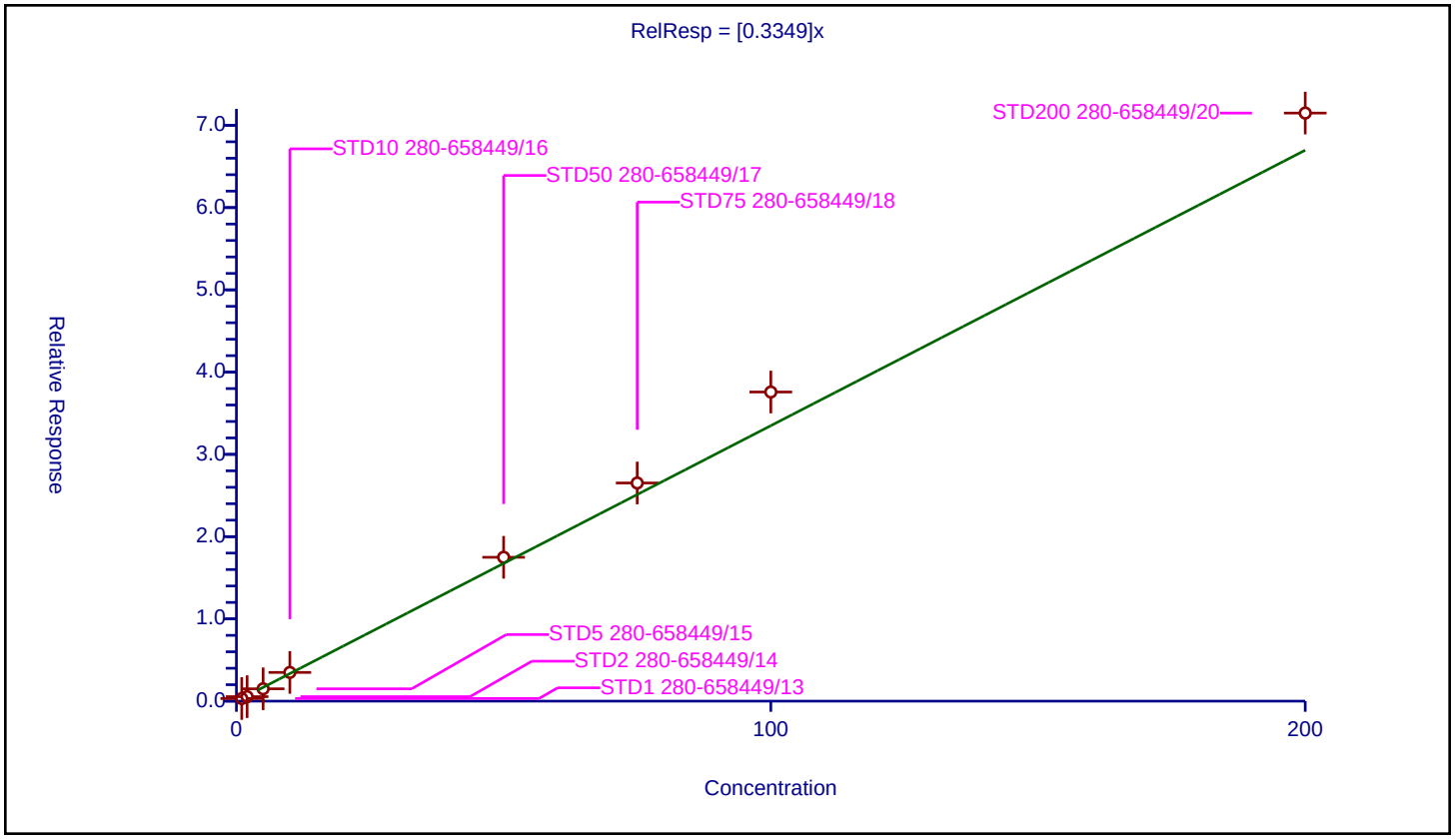
Curve Coefficients

Intercept:	0
Slope:	0.3349

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	0.319464	50.0	1111238.0	0.319464	Y
2	STD2 280-658449/14	2.0	0.546548	50.0	972742.0	0.273274	Y
3	STD5 280-658449/15	5.0	1.502294	50.0	968785.0	0.300459	Y
4	STD10 280-658449/16	10.0	3.49271	50.0	953300.0	0.349271	Y
5	STD50 280-658449/17	50.0	17.48855	50.0	1053272.0	0.349771	Y
6	STD75 280-658449/18	75.0	26.519568	50.0	1057225.0	0.353594	Y
7	STD100 280-658449/19	100.0	37.582229	50.0	1072008.0	0.375822	Y
8	STD200 280-658449/20	200.0	71.49054	50.0	1054678.0	0.357453	Y



7/5/2024
11:14:22 AM

Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

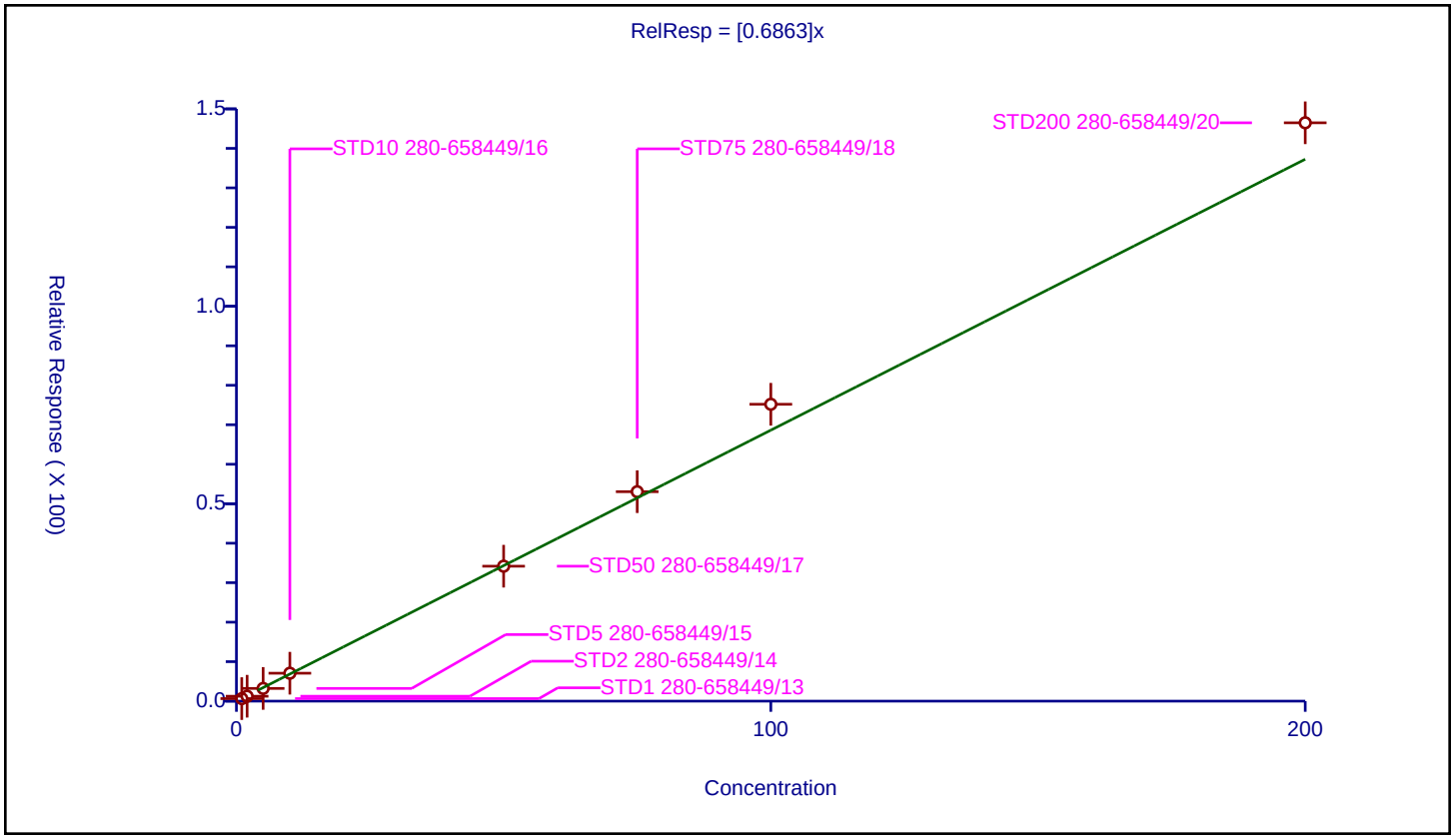
Curve Coefficients

Intercept:	0
Slope:	0.6863

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	0.641447	50.0	1111238.0	0.641447	Y
2	STD2 280-658449/14	2.0	1.245448	50.0	972742.0	0.622724	Y
3	STD5 280-658449/15	5.0	3.218155	50.0	968785.0	0.643631	Y
4	STD10 280-658449/16	10.0	7.071121	50.0	953300.0	0.707112	Y
5	STD50 280-658449/17	50.0	34.173651	50.0	1053272.0	0.683473	Y
6	STD75 280-658449/18	75.0	53.05304	50.0	1057225.0	0.707374	Y
7	STD100 280-658449/19	100.0	75.191416	50.0	1072008.0	0.751914	Y
8	STD200 280-658449/20	200.0	146.47646	50.0	1054678.0	0.732382	Y



7/5/2024
11:14:22 AM

Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

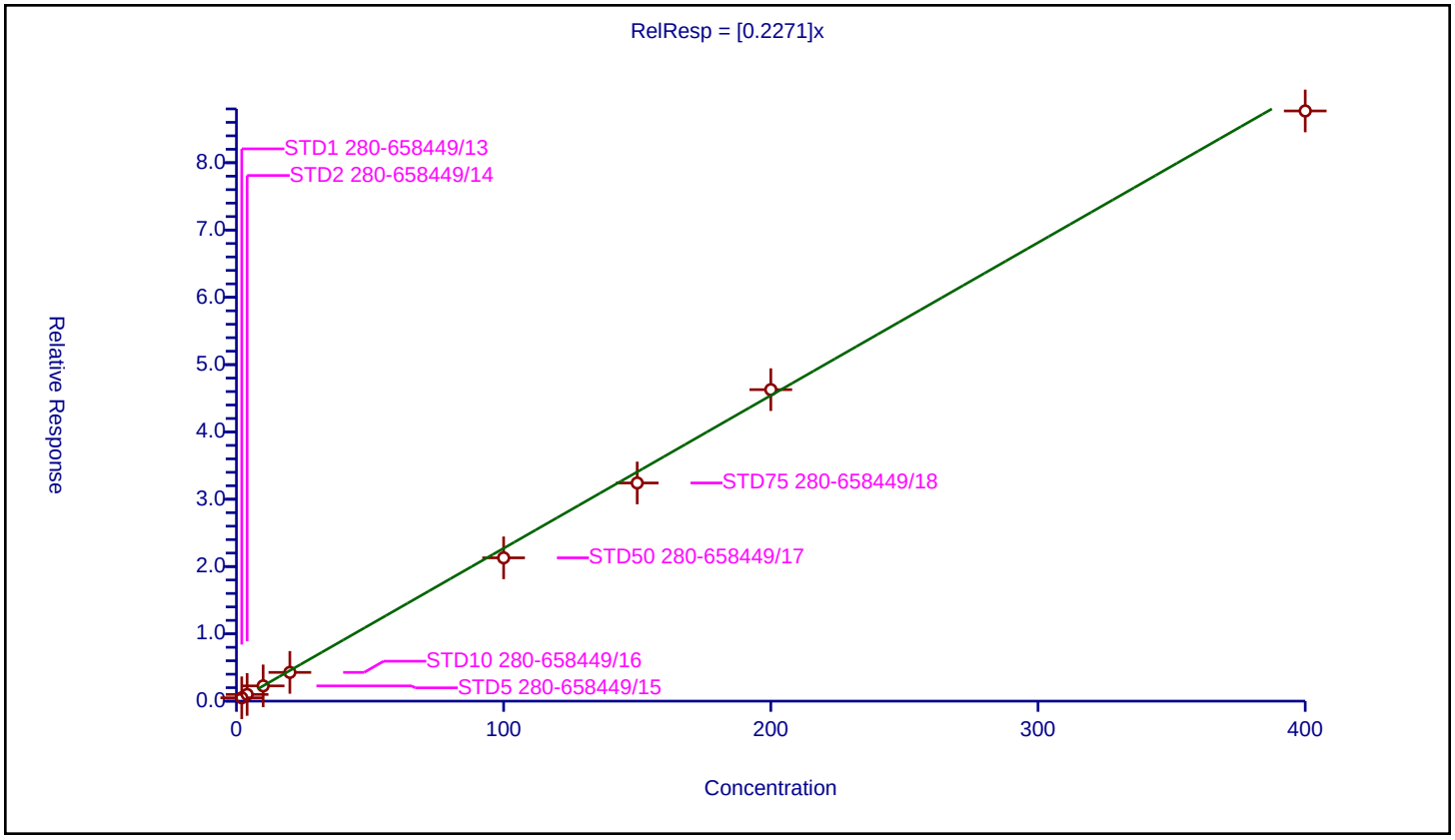
Curve Coefficients

Intercept:	0
Slope:	0.2271

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	2.0	0.494719	50.0	1111238.0	0.247359	Y
2	STD2 280-658449/14	4.0	0.997233	50.0	972742.0	0.249308	Y
3	STD5 280-658449/15	10.0	2.265725	50.0	968785.0	0.226572	Y
4	STD10 280-658449/16	20.0	4.273838	50.0	953300.0	0.213692	Y
5	STD50 280-658449/17	100.0	21.294642	50.0	1053272.0	0.212946	Y
6	STD75 280-658449/18	150.0	32.417177	50.0	1057225.0	0.216115	Y
7	STD100 280-658449/19	200.0	46.285009	50.0	1072008.0	0.231425	Y
8	STD200 280-658449/20	400.0	87.694965	50.0	1054678.0	0.219237	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

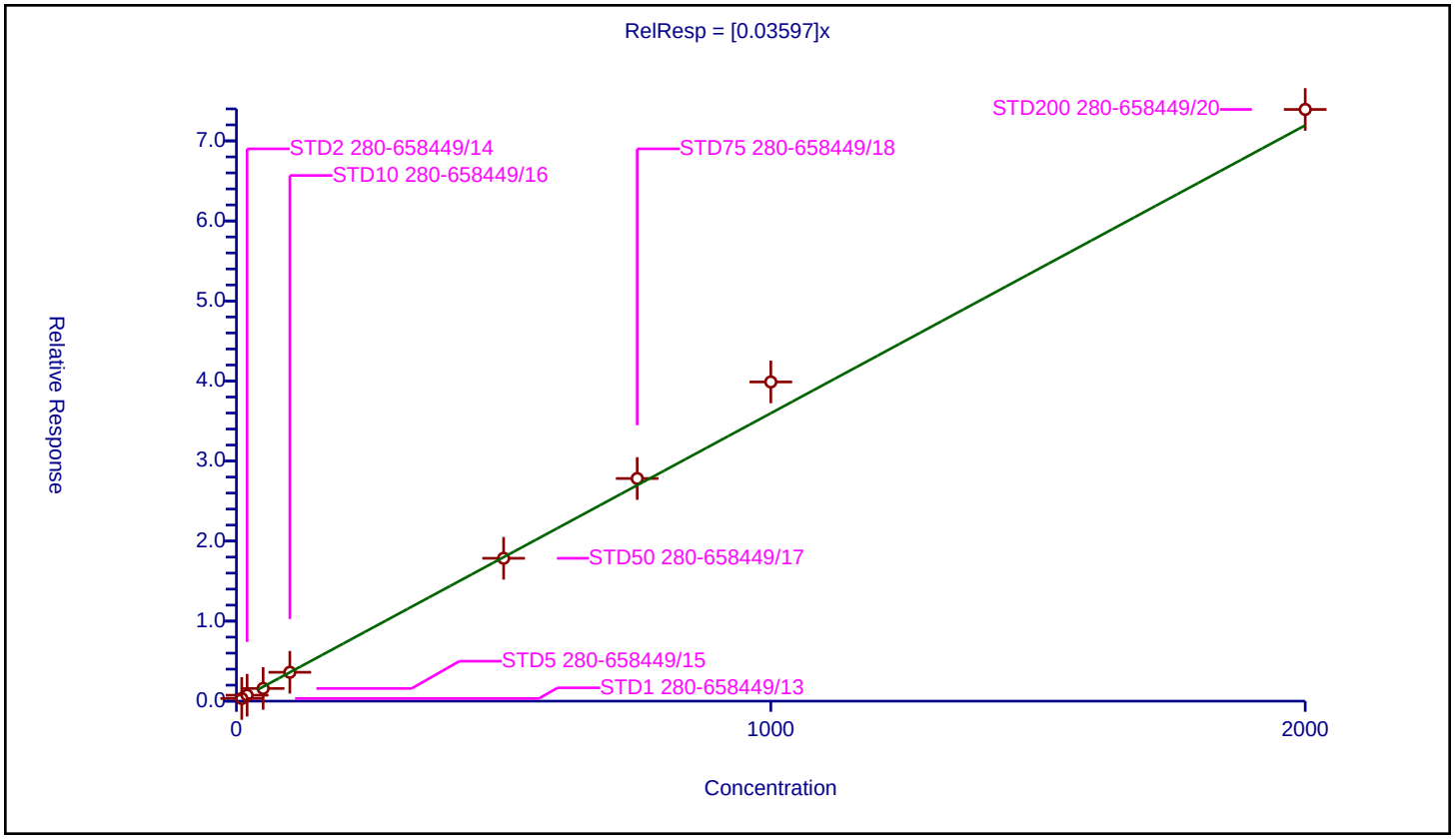
Curve Coefficients

Intercept:	0
Slope:	0.03597

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	10.0	0.333547	50.0	1111238.0	0.033355	Y
2	STD2 280-658449/14	20.0	0.739816	50.0	972742.0	0.036991	Y
3	STD5 280-658449/15	50.0	1.585439	50.0	968785.0	0.031709	Y
4	STD10 280-658449/16	100.0	3.609777	50.0	953300.0	0.036098	Y
5	STD50 280-658449/17	500.0	17.8499	50.0	1053272.0	0.0357	Y
6	STD75 280-658449/18	750.0	27.819906	50.0	1057225.0	0.037093	Y
7	STD100 280-658449/19	1000.0	39.881512	50.0	1072008.0	0.039882	Y
8	STD200 280-658449/20	2000.0	73.929626	50.0	1054678.0	0.036965	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

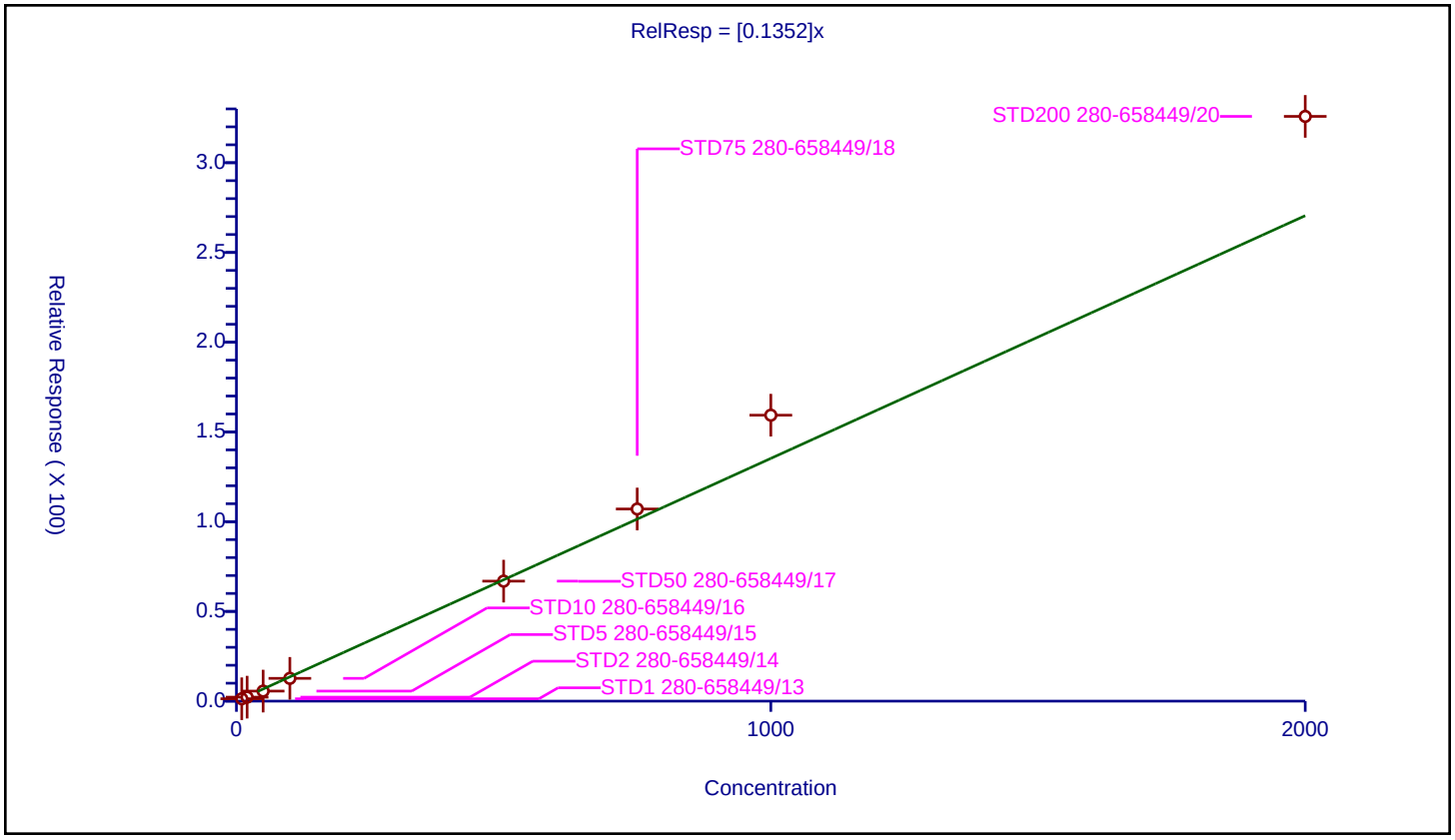
Curve Coefficients

Intercept:	0
Slope:	0.1352

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	10.0	1.330633	50.0	1111238.0	0.133063	Y
2	STD2 280-658449/14	20.0	2.221401	50.0	972742.0	0.11107	Y
3	STD5 280-658449/15	50.0	5.60501	50.0	968785.0	0.1121	Y
4	STD10 280-658449/16	100.0	12.69999	50.0	953300.0	0.127	Y
5	STD50 280-658449/17	500.0	66.869716	50.0	1053272.0	0.133739	Y
6	STD75 280-658449/18	750.0	107.066093	50.0	1057225.0	0.142755	Y
7	STD100 280-658449/19	1000.0	159.335145	50.0	1072008.0	0.159335	Y
8	STD200 280-658449/20	2000.0	325.81129	50.0	1054678.0	0.162906	Y



7/5/2024
11:14:22 AM

Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

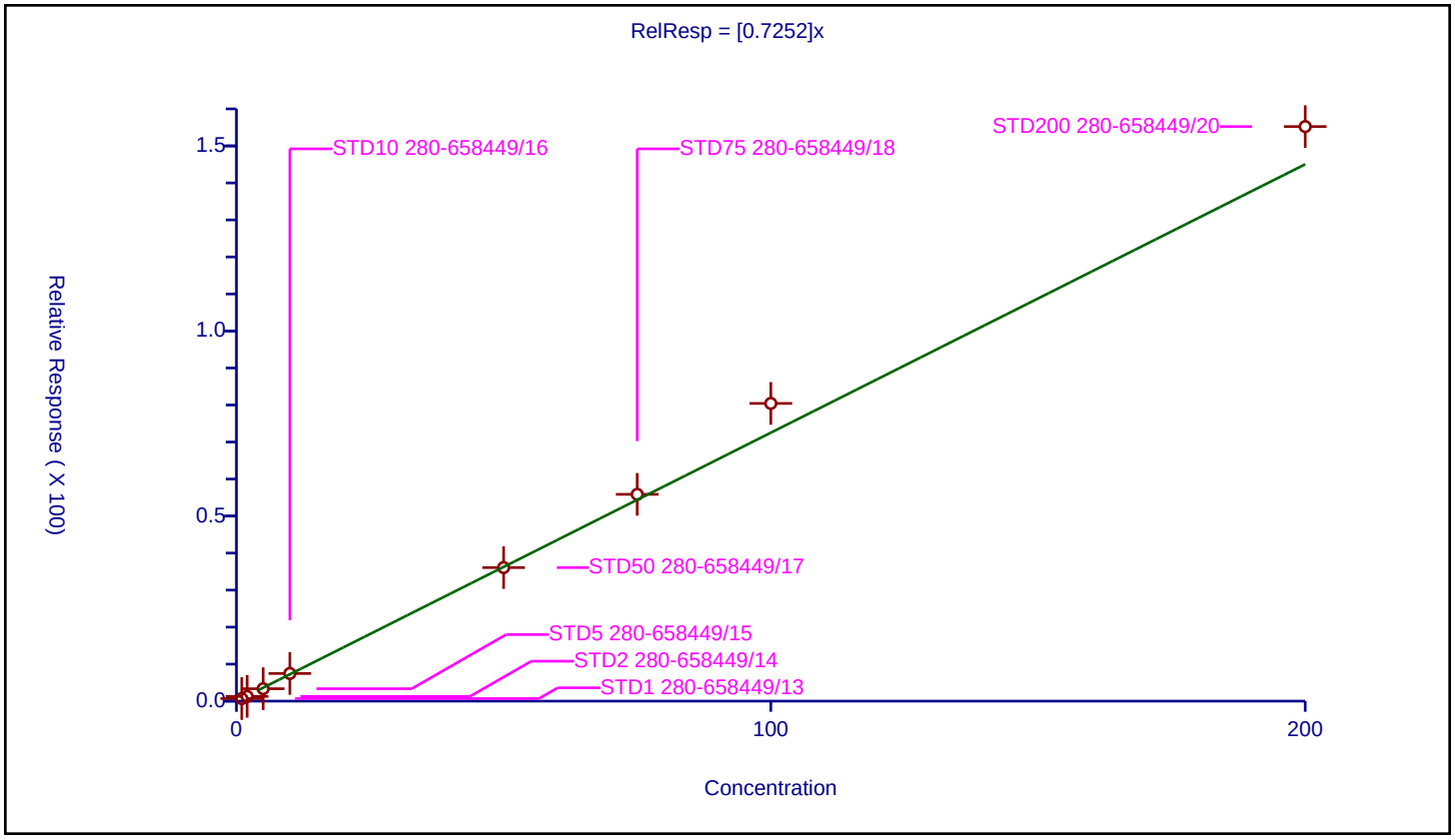
Curve Coefficients

Intercept:	0
Slope:	0.7252

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	0.695576	50.0	1111238.0	0.695576	Y
2	STD2 280-658449/14	2.0	1.281224	50.0	972742.0	0.640612	Y
3	STD5 280-658449/15	5.0	3.355388	50.0	968785.0	0.671078	Y
4	STD10 280-658449/16	10.0	7.470681	50.0	953300.0	0.747068	Y
5	STD50 280-658449/17	50.0	36.083272	50.0	1053272.0	0.721665	Y
6	STD75 280-658449/18	75.0	55.870557	50.0	1057225.0	0.744941	Y
7	STD100 280-658449/19	100.0	80.431816	50.0	1072008.0	0.804318	Y
8	STD200 280-658449/20	200.0	155.219745	50.0	1054678.0	0.776099	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

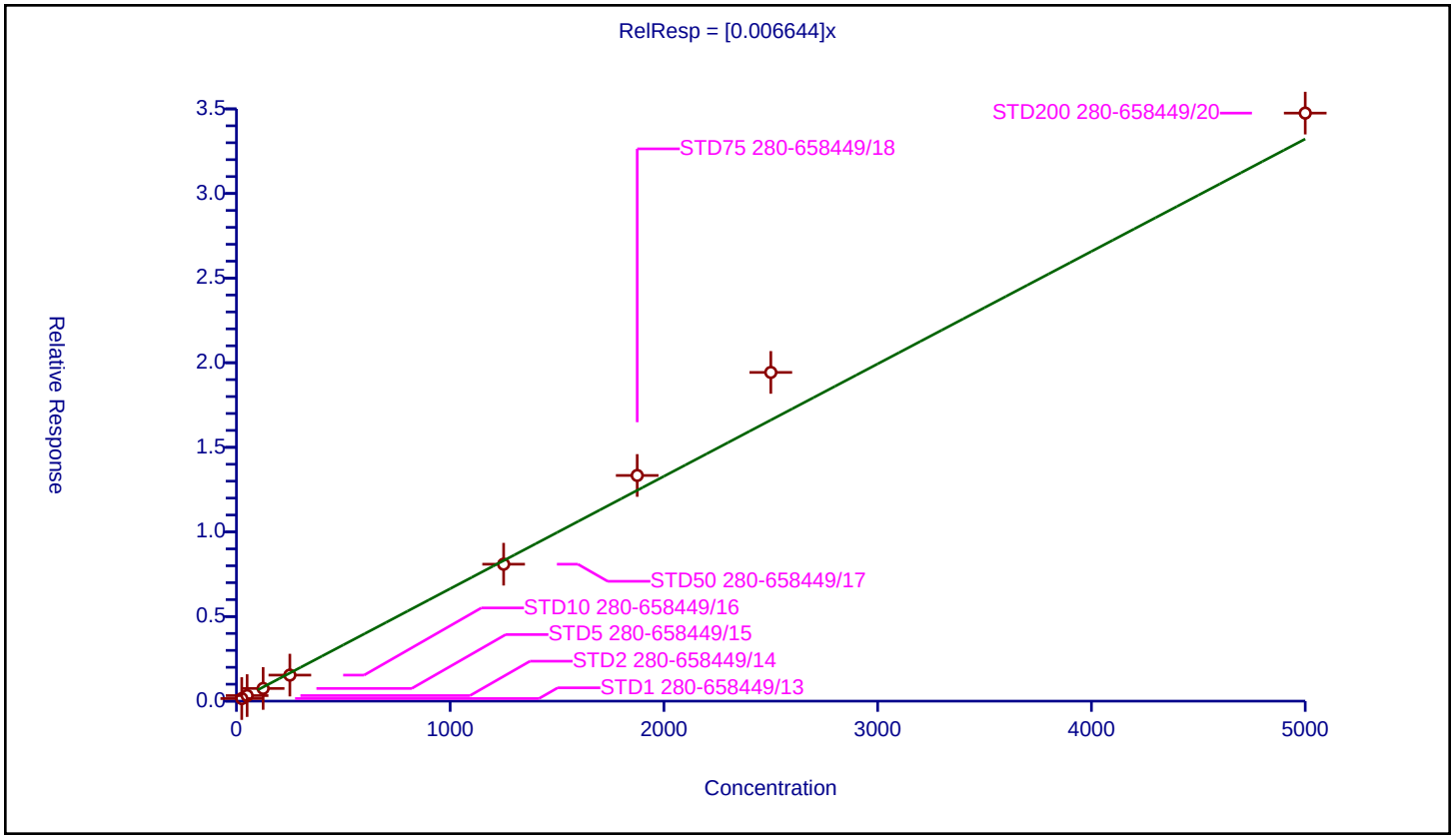
Curve Coefficients

Intercept:	0
Slope:	0.006644

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	25.0	0.152938	50.0	1111238.0	0.006118	Y
2	STD2 280-658449/14	50.0	0.328761	50.0	972742.0	0.006575	Y
3	STD5 280-658449/15	125.0	0.749444	50.0	968785.0	0.005996	Y
4	STD10 280-658449/16	250.0	1.539285	50.0	953300.0	0.006157	Y
5	STD50 280-658449/17	1250.0	8.092591	50.0	1053272.0	0.006474	Y
6	STD75 280-658449/18	1875.0	13.336896	50.0	1057225.0	0.007113	Y
7	STD100 280-658449/19	2500.0	19.4277	50.0	1072008.0	0.007771	Y
8	STD200 280-658449/20	5000.0	34.751175	50.0	1054678.0	0.00695	Y



7/5/2024
11:14:22 AM

Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

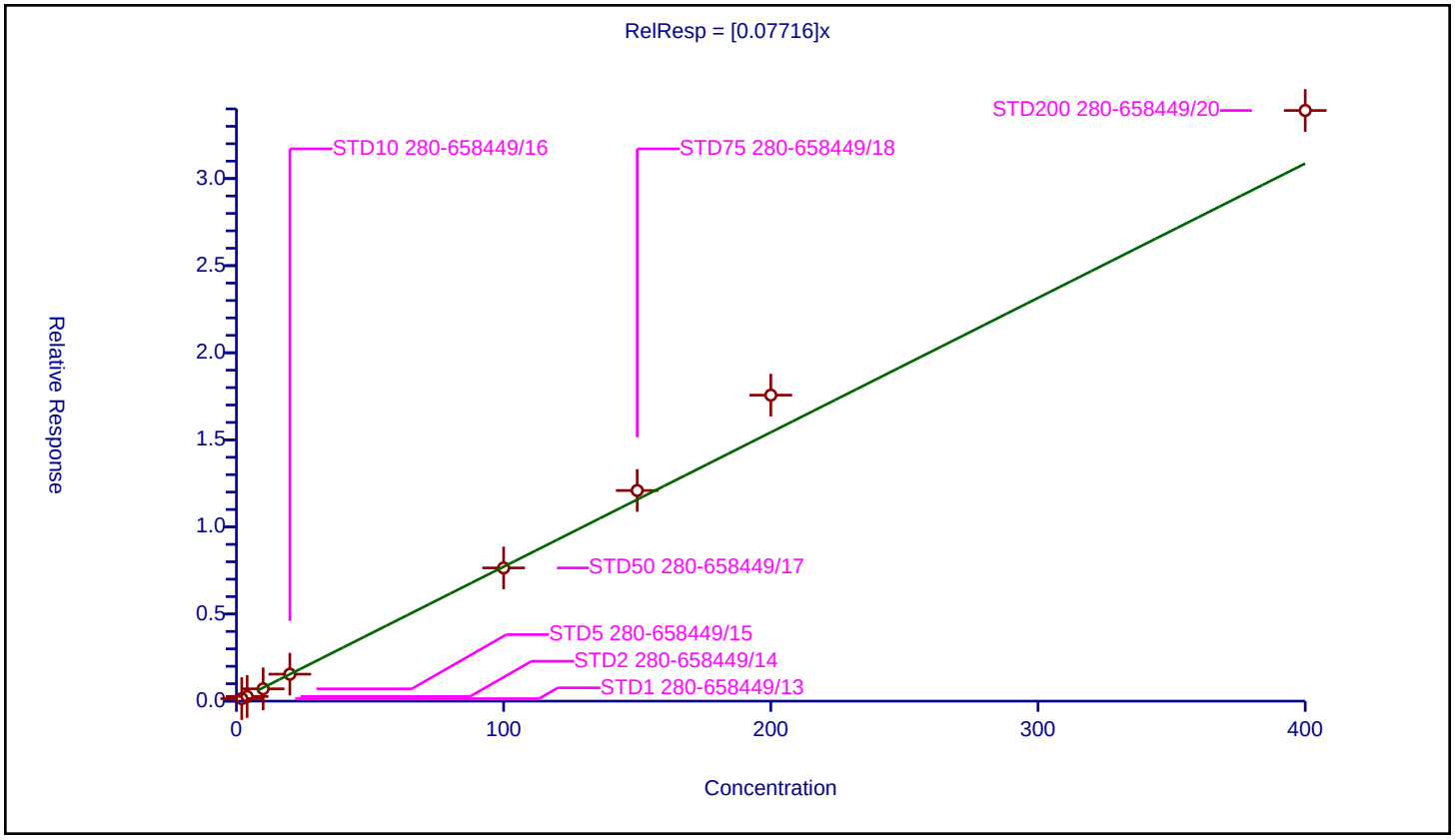
Curve Coefficients

Intercept:	0
Slope:	0.07716

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	2.0	0.145198	50.0	1111238.0	0.072599	Y
2	STD2 280-658449/14	4.0	0.267543	50.0	972742.0	0.066886	Y
3	STD5 280-658449/15	10.0	0.707174	50.0	968785.0	0.070717	Y
4	STD10 280-658449/16	20.0	1.548044	50.0	953300.0	0.077402	Y
5	STD50 280-658449/17	100.0	7.64698	50.0	1053272.0	0.07647	Y
6	STD75 280-658449/18	150.0	12.092175	50.0	1057225.0	0.080615	Y
7	STD100 280-658449/19	200.0	17.568059	50.0	1072008.0	0.08784	Y
8	STD200 280-658449/20	400.0	33.908027	50.0	1054678.0	0.08477	Y



7/5/2024
11:14:22 AM

Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

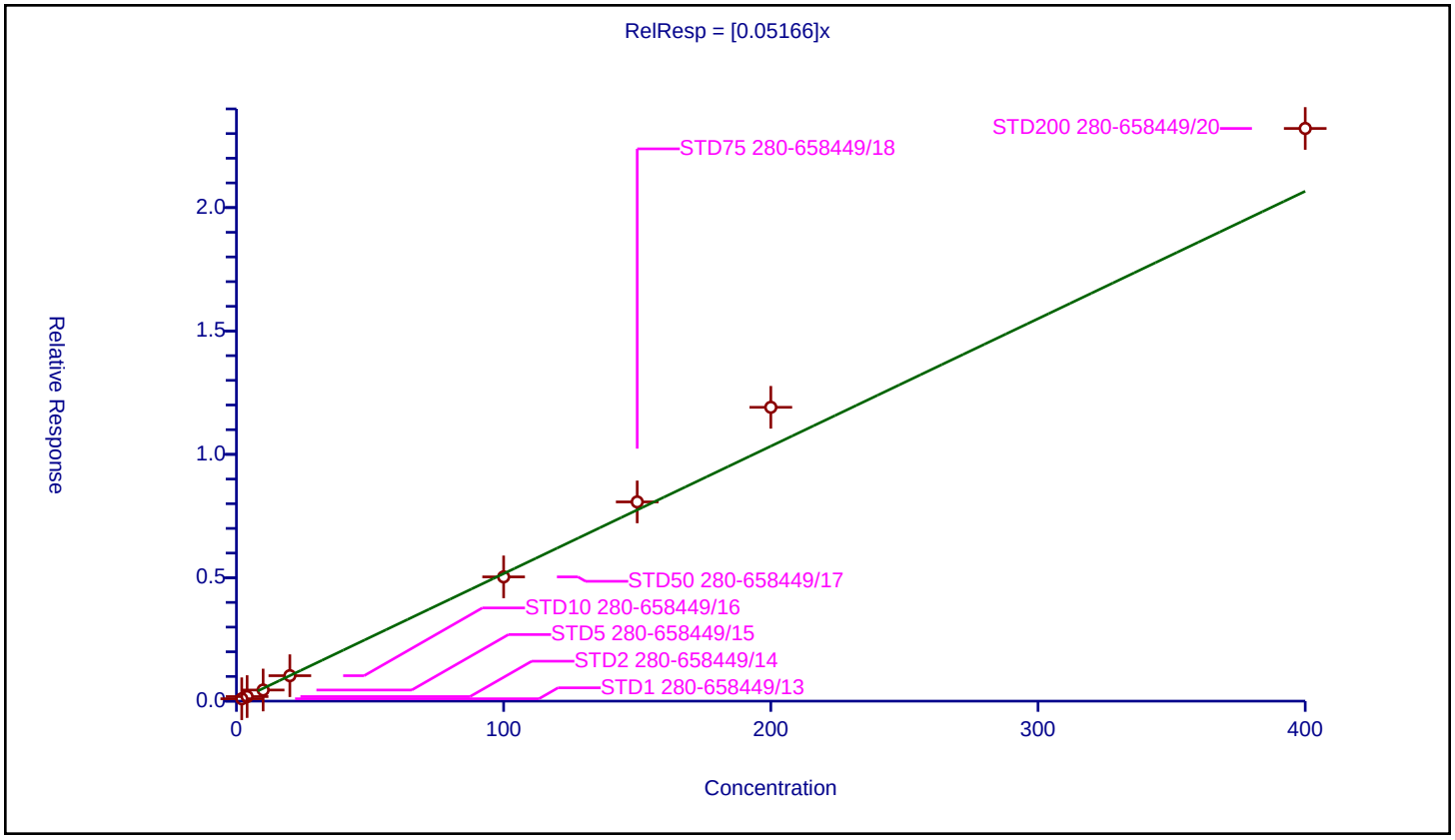
Curve Coefficients

Intercept:	0
Slope:	0.05166

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	2.0	0.097099	50.0	1111238.0	0.048549	Y
2	STD2 280-658449/14	4.0	0.18525	50.0	972742.0	0.046312	Y
3	STD5 280-658449/15	10.0	0.450977	50.0	968785.0	0.045098	Y
4	STD10 280-658449/16	20.0	1.031312	50.0	953300.0	0.051566	Y
5	STD50 280-658449/17	100.0	5.034977	50.0	1053272.0	0.05035	Y
6	STD75 280-658449/18	150.0	8.074109	50.0	1057225.0	0.053827	Y
7	STD100 280-658449/19	200.0	11.907187	50.0	1072008.0	0.059536	Y
8	STD200 280-658449/20	400.0	23.206799	50.0	1054678.0	0.058017	Y



7/5/2024
11:14:22 AM

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

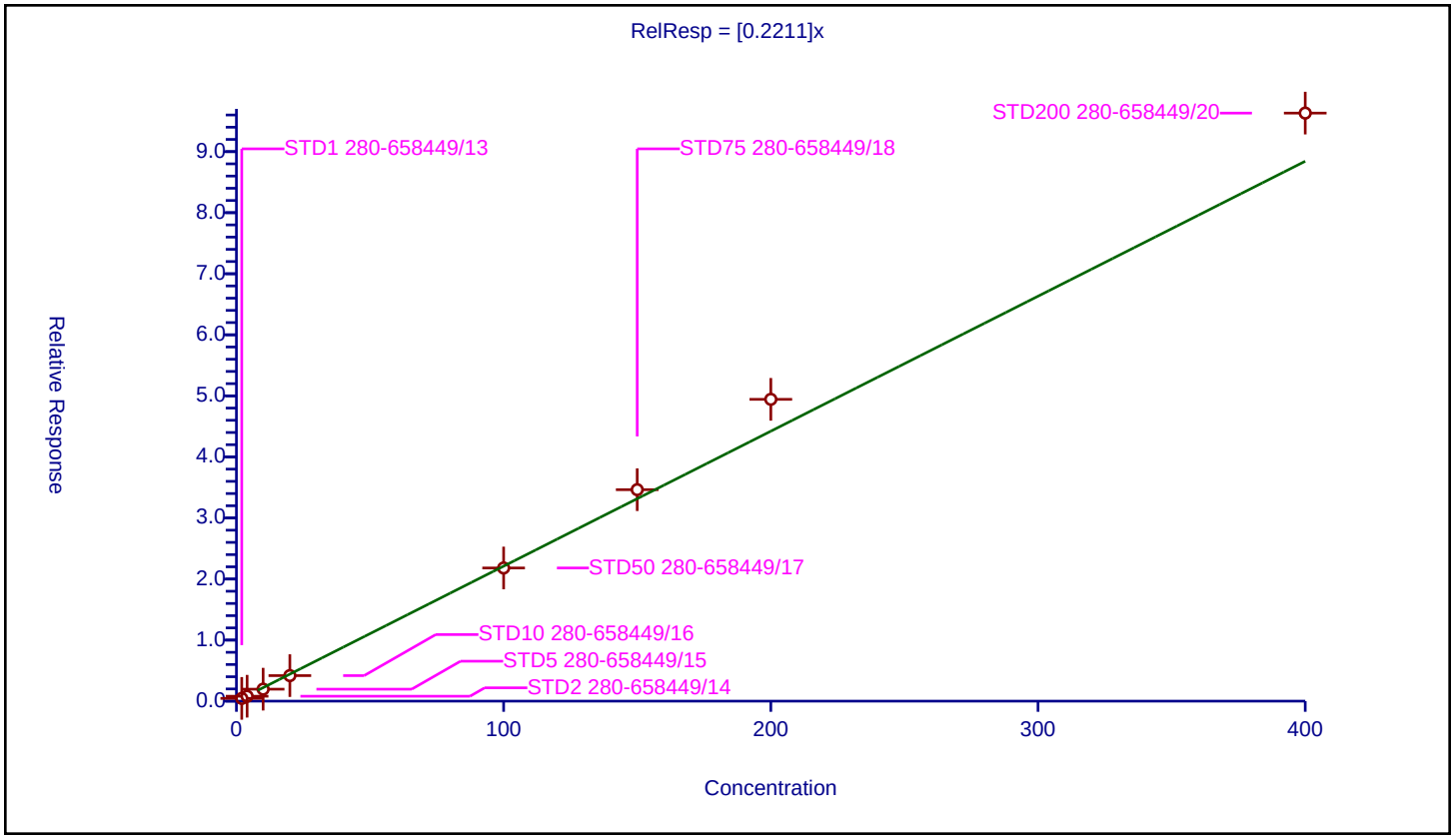
Curve Coefficients

Intercept:	0
Slope:	0.2211

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	2.0	0.450963	50.0	431521.0	0.225481	Y
2	STD2 280-658449/14	4.0	0.803063	50.0	391501.0	0.200766	Y
3	STD5 280-658449/15	10.0	1.962573	50.0	398533.0	0.196257	Y
4	STD10 280-658449/16	20.0	4.181429	50.0	382441.0	0.209071	Y
5	STD50 280-658449/17	100.0	21.809494	50.0	411220.0	0.218095	Y
6	STD75 280-658449/18	150.0	34.634445	50.0	417707.0	0.230896	Y
7	STD100 280-658449/19	200.0	49.431814	50.0	423893.0	0.247159	Y
8	STD200 280-658449/20	400.0	96.310535	50.0	432583.0	0.240776	Y



7/5/2024
11:14:22 AM

Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

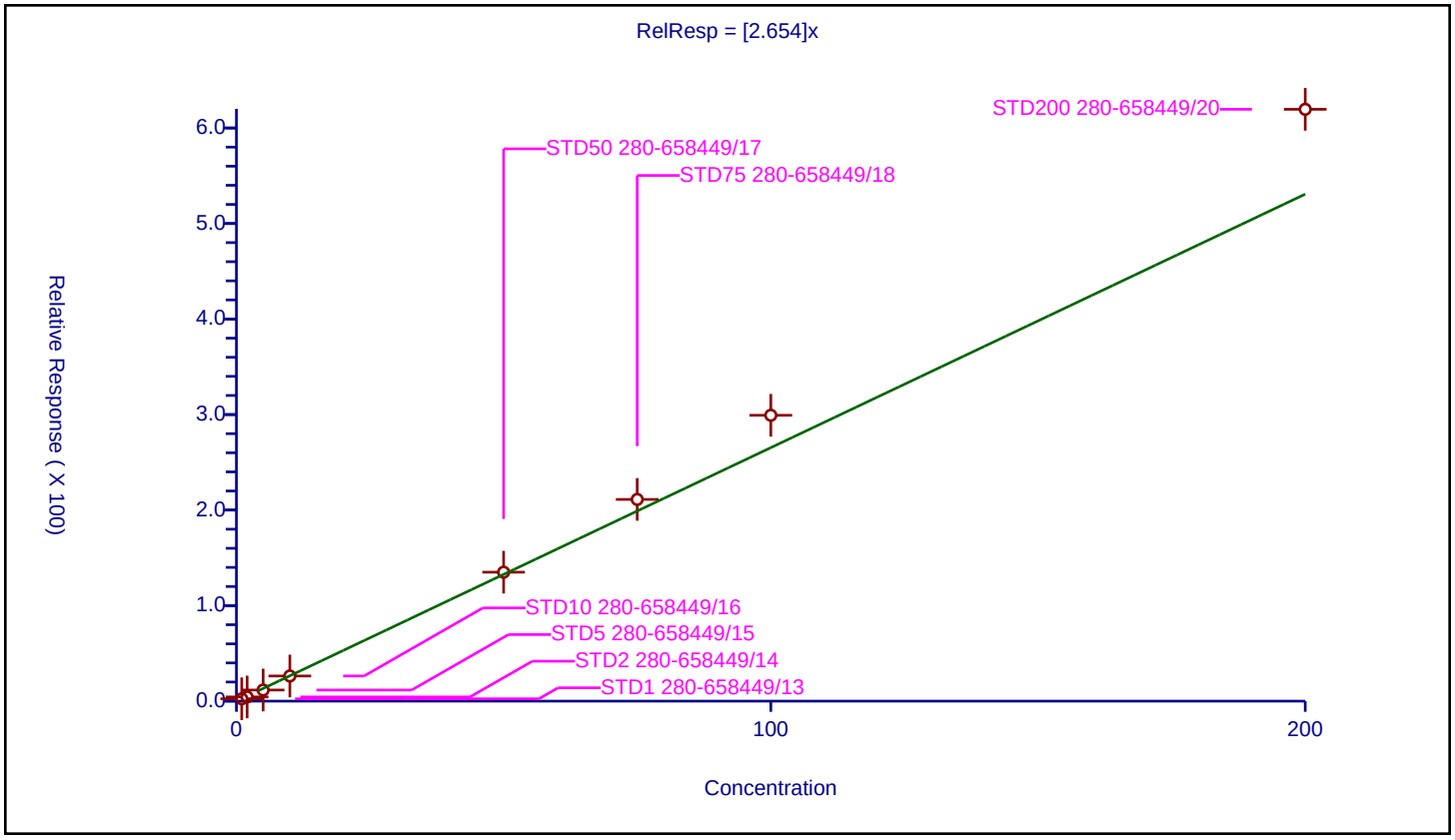
Curve Coefficients

Intercept:	0
Slope:	2.654

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	2.467667	50.0	431521.0	2.467667	Y
2	STD2 280-658449/14	2.0	4.390027	50.0	391501.0	2.195014	Y
3	STD5 280-658449/15	5.0	11.635925	50.0	398533.0	2.327185	Y
4	STD10 280-658449/16	10.0	26.335304	50.0	382441.0	2.63353	Y
5	STD50 280-658449/17	50.0	135.001702	50.0	411220.0	2.700034	Y
6	STD75 280-658449/18	75.0	211.176255	50.0	417707.0	2.815683	Y
7	STD100 280-658449/19	100.0	299.264083	50.0	423893.0	2.992641	Y
8	STD200 280-658449/20	200.0	619.545498	50.0	432583.0	3.097727	Y



7/5/2024
11:14:22 AM

Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

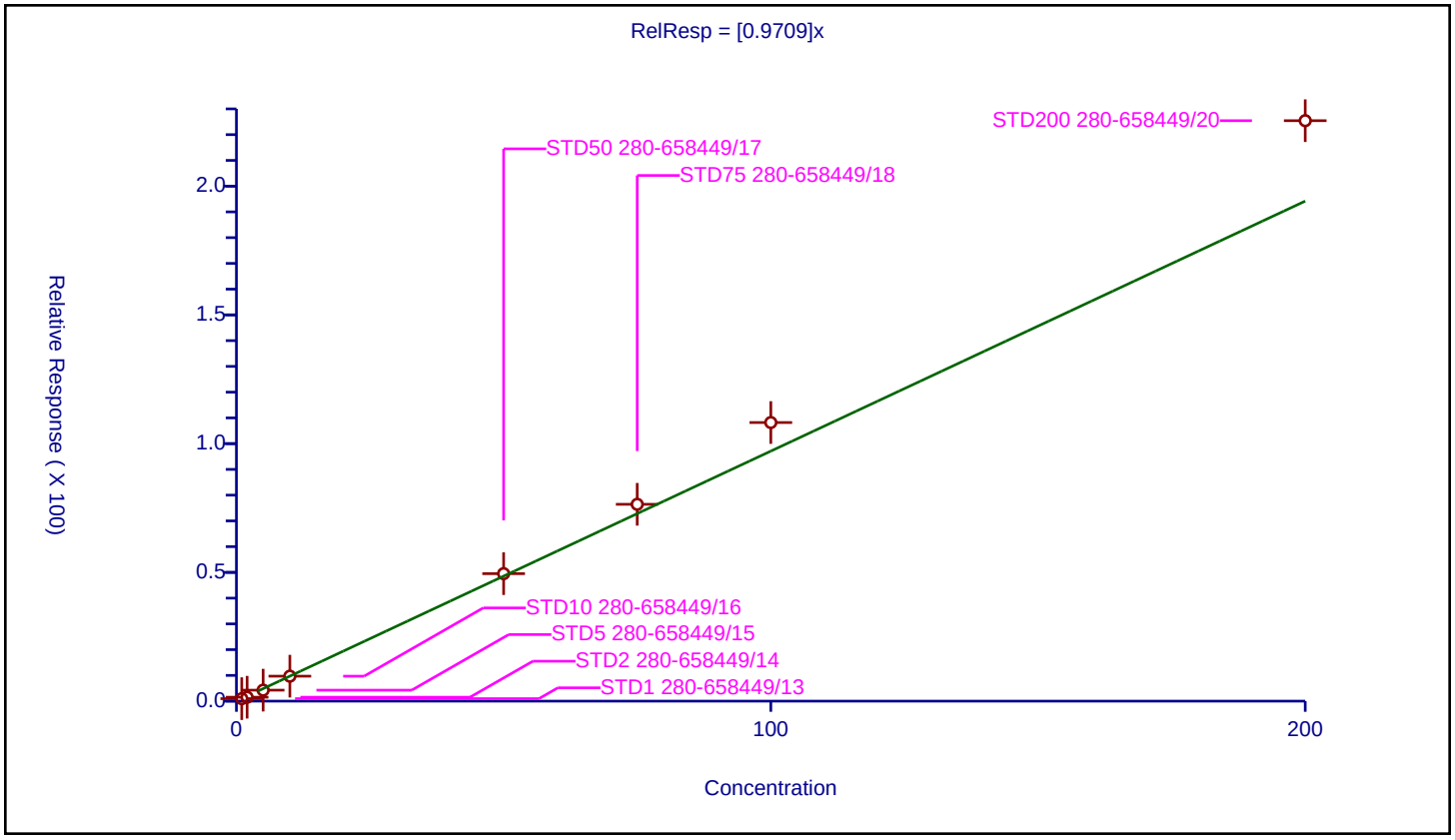
Curve Coefficients

Intercept:	0
Slope:	0.9709

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-658449/13	1.0	0.966581	50.0	431521.0	0.966581	Y
2	STD2 280-658449/14	2.0	1.520686	50.0	391501.0	0.760343	Y
3	STD5 280-658449/15	5.0	4.263386	50.0	398533.0	0.852677	Y
4	STD10 280-658449/16	10.0	9.693521	50.0	382441.0	0.969352	Y
5	STD50 280-658449/17	50.0	49.511697	50.0	411220.0	0.990234	Y
6	STD75 280-658449/18	75.0	76.445331	50.0	417707.0	1.019271	Y
7	STD100 280-658449/19	100.0	108.20148	50.0	423893.0	1.082015	Y
8	STD200 280-658449/20	200.0	225.422404	50.0	432583.0	1.127112	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-648392/21 Calibration Date: 04/05/2024 14:30

Instrument ID: VMS_MS1 Calib Start Date: 04/05/2024 11:39

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/05/2024 14:08

Lab File ID: MS1_2287.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	0.0025	0.0024*	0.0100	1430	1500	-4.7	30.0
Isopropyl alcohol	Ave	0.0119	0.0107	0.0100	224	250	-10.4	30.0
Acetonitrile	Ave	0.0278	0.0265	0.0100	239	250	-4.6	30.0
Isopropyl ether	Ave	0.1814	0.1629	0.0100	22.5	25.0	-10.2	30.0
Chloroprene	Ave	0.2956	0.2843	0.0100	24.0	25.0	-3.8	30.0
Tert-butyl ethyl ether	Ave	0.5440	0.5332	0.0100	24.5	25.0	-2.0	30.0
Ethyl acetate	Ave	0.1713	0.1699	0.0100	49.6	50.0	-0.8	30.0
Propionitrile	Ave	0.0309	0.0315	0.0100	255	250	1.9	30.0
Methacrylonitrile	Ave	0.1165	0.1188	0.0100	255	250	1.9	30.0
Tert-amyl methyl ether	Ave	0.5193	0.5071	0.0100	24.4	25.0	-2.4	30.0
n-Butanol	Ave	0.0052	0.0046*	0.0100	553	625	-11.4	30.0
Methyl methacrylate	Ave	0.0566	0.0575	0.0100	50.8	50.0	1.5	30.0
2-Nitropropane	Ave	0.0304	0.0268	0.0100	44.0	50.0	-11.9	30.0
cis-1,4-Dichloro-2-butene	Ave	0.1155	0.1164	0.0100	50.4	50.0	0.7	30.0
1,2,3-Trimethylbenzene	Ave	2.123	1.855	0.0100	21.8	25.0	-12.7	30.0
1,3,5-Trichlorobenzene	Ave	0.7433	0.6507	0.0100	21.9	25.0	-12.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2289	0.2294	0.0100	50.1	50.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2612	0.2637	0.0100	50.5	50.0	1.0	30.0
Toluene-d8 (Surr)	Ave	4.143	4.096	0.0100	49.4	50.0	-1.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8825	0.8876	0.0100	50.3	50.0	0.6	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2287.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 05-Apr-2024 14:30:30 ALS Bottle#: 16 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: icv
Operator ID: wickhamt Instrument ID: VMS_MS1
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 08-Apr-2024 16:02:56 Calib Date: 05-Apr-2024 14:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: QKA3 Date: 09-Apr-2024 15:08:51

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	99	1777975	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	85	443814	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	96	721231	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	94	407889	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	468874	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	92	1817950	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	90	640145	50.0	50.3	
17 Ethanol	45	3.070	3.071	-0.001	100	126458	1500.0	1430.1	
25 Isopropyl alcohol	45	3.573	3.573	0.000	98	94782	250.0	224.0	
27 Acetonitrile	41	3.727	3.727	0.000	99	235529	250.0	238.6	
40 Isopropyl ether	87	4.551	4.551	0.000	93	144852	25.0	22.5	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	89	252701	25.0	24.0	
43 Tert-butyl ethyl ether	59	4.858	4.872	-0.014	97	474031	25.0	24.5	
47 Ethyl acetate	43	5.040	5.040	0.000	99	302037	50.0	49.6	
48 Propionitrile	54	5.082	5.082	0.000	99	279799	250.0	254.7	
50 Methacrylonitrile	41	5.207	5.207	0.000	90	1055861	250.0	254.8	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	96	450800	25.0	24.4	
65 n-Butanol	56	6.227	6.227	0.000	85	101592	625.0	553.5	
70 Methyl methacrylate	100	6.590	6.590	0.000	89	102232	50.0	50.8	
74 2-Nitropropane	41	6.981	6.981	0.000	100	47563	50.0	44.0	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	83933	50.0	50.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	97	668773	25.0	21.8	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	234668	25.0	21.9	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00090	Amount Added: 25.00	Units: uL	
mv-IS_SS_00078	Amount Added: 5.00	Units: uL	Run Reagent

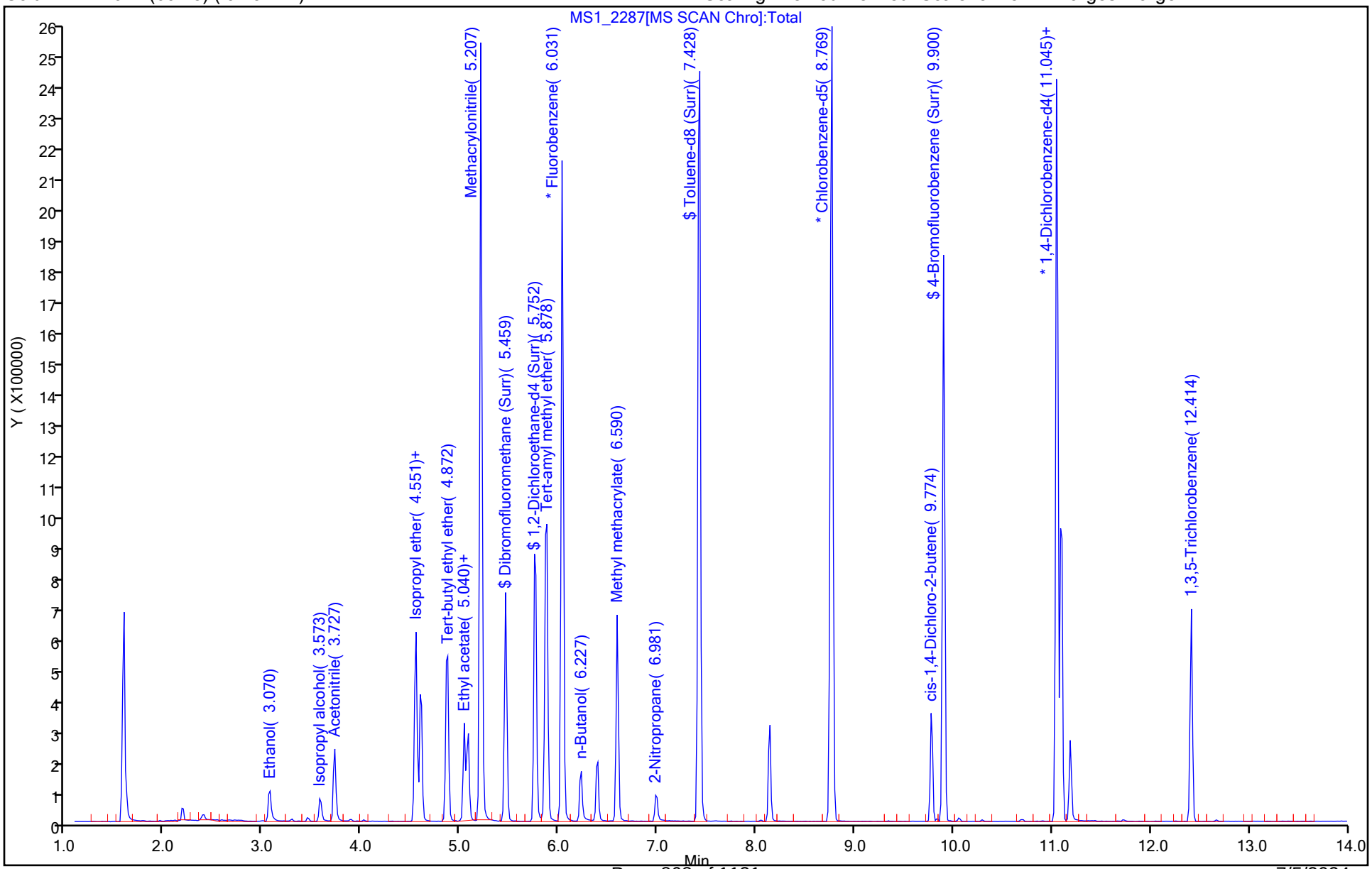
Report Date: 09-Apr-2024 15:08:52 Chrom Revision: 2.3 23-Feb-2024 16:51:14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2287.D

Injection Date:	05-Apr-2024 14:30:30	Instrument ID:	VMS_MS1	Operator ID:	wickhamt
Lims ID:	icv			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657652/22 Calibration Date: 06/20/2024 00:31

Instrument ID: VMS_MS1 Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_5571.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	Ave	0.2151	0.1943	0.1000	45.2	50.0	-9.7	30.0
Chloromethane	Ave	0.2315	0.2106	0.1000	45.5	50.0	-9.0	30.0
Vinyl chloride	Lin2		0.1742	0.0100	42.7	50.0	-14.6	30.0
Bromomethane	Ave	0.1072	0.0969	0.0100	45.2	50.0	-9.6	30.0
Chloroethane	Ave	0.1229	0.1110	0.0100	45.2	50.0	-9.7	30.0
Dichlorofluoromethane	Ave	0.3397	0.3059	0.0100	45.0	50.0	-10.0	30.0
Trichlorofluoromethane	Ave	0.2507	0.2251	0.0100	44.9	50.0	-10.2	30.0
Ethyl ether	Ave	0.1561	0.1557	0.0100	49.9	50.0	-0.3	30.0
Acrolein	Ave	0.0132	0.0269	0.0010	1010	494	104.1*	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1200	0.1170	0.0500	48.7	50.0	-2.5	30.0
1,1-Dichloroethene	Ave	0.1622	0.1653	0.0600	50.9	50.0	1.9	30.0
Acetone	Lin2		0.0553	0.0100	176	200	-11.9	30.0
Iodomethane	Lin2		0.1435	0.0100	40.0	50.0	-20.0	30.0
Carbon disulfide	Ave	0.4946	0.5209	0.1000	52.7	50.0	5.3	30.0
Methyl acetate	Ave	0.1499	0.1425	0.0100	95.1	100	-4.9	30.0
Allyl chloride	Lin2		0.2908	0.0100	53.7	50.0	7.4	30.0
Methylene Chloride	Ave	0.2062	0.1965	0.0100	47.6	50.0	-4.7	30.0
2-Methyl-2-propanol	Ave	0.0172	0.0171	0.0010	496	500	-0.7	30.0
Acrylonitrile	Ave	0.0813	0.0788	0.0100	485	500	-3.1	30.0
Methyl tert-butyl ether	Ave	0.5131	0.5273	0.1000	51.4	50.0	2.8	30.0
trans-1,2-Dichloroethene	Ave	0.1777	0.1849	0.1000	52.0	50.0	4.0	30.0
Hexane	Ave	1.124	1.123	0.0100	50.0	50.0	-0.0	30.0
Vinyl acetate	Ave	0.3494	0.3796	0.0100	109	100	8.7	30.0
1,1-Dichloroethane	Ave	0.3375	0.3384	0.1000	50.1	50.0	0.2	30.0
2-Butanone (MEK)	Ave	0.0977	0.0921	0.0100	188	200	-5.8	30.0
2,2-Dichloropropane	Ave	0.2343	0.2550	0.0100	54.4	50.0	8.9	30.0
cis-1,2-Dichloroethene	Ave	0.2041	0.2047	0.1000	50.2	50.0	0.3	30.0
sec-Butyl Alcohol	Lin1		0.0142	0.0100	1030	1200	-13.9	30.0
Chlorobromomethane	Ave	0.0923	0.0876	0.0500	47.4	50.0	-5.1	30.0
Tetrahydrofuran	Ave	0.0668	0.0614	0.0010	92.0	100	-8.0	30.0
Chloroform	Ave	0.3114	0.3220	0.2000	51.7	50.0	3.4	30.0
1,1,1-Trichloroethane	Ave	0.2490	0.2643	0.0500	53.1	50.0	6.2	30.0
Cyclohexane	Ave	0.3289	0.3362	0.0100	51.1	50.0	2.2	30.0
1,1-Dichloropropene	Ave	0.2593	0.2637	0.0100	50.8	50.0	1.7	30.0
Carbon tetrachloride	Ave	0.1936	0.2066	0.1000	53.4	50.0	6.7	30.0
Isobutyl alcohol	Ave	0.0062	0.0061	0.0010	1240	1250	-1.0	30.0
Benzene	Ave	0.7771	0.8034	0.2000	51.7	50.0	3.4	30.0
1,2-Dichloroethane	Ave	0.2406	0.2414	0.0700	50.2	50.0	0.3	30.0
n-Heptane	Ave	0.2196	0.2272		51.7	50.0	3.4	20.0
Trichloroethene	Ave	0.7929	0.8245	0.2000	52.0	50.0	4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657652/22 | Calibration Date: 06/20/2024 00:31

Instrument ID: VMS_MS1 | Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_5571.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	0.1447	0.1426	0.0010	158	160	-1.5	30.0
Methylcyclohexane	Ave	0.2417	0.2453	0.0500	50.7	50.0	1.5	30.0
1,2-Dichloropropane	Ave	0.2032	0.2078	0.1000	51.1	50.0	2.2	30.0
1,4-Dioxane	Ave	0.0030	0.0027	0.0010	904	1000	-9.6	30.0
Dibromomethane	Ave	0.1094	0.1148	0.0100	52.5	50.0	4.9	30.0
Dichlorobromomethane	Ave	0.2180	0.2343	0.2000	53.7	50.0	7.5	30.0
2-Chloroethyl vinyl ether	Ave	0.0321	0.0283	0.0100	44.1	50.0	-11.8	30.0
cis-1,3-Dichloropropene	Ave	1.218	1.263	0.2000	51.9	50.0	3.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1821	0.1824	0.0300	200	200	0.1	30.0
Toluene	Ave	0.8310	0.8391	0.3000	50.5	50.0	1.0	30.0
trans-1,3-Dichloropropene	Ave	0.2374	0.2774	0.2000	58.4	50.0	16.9	30.0
Ethyl methacrylate	Ave	1.021	1.070	0.0100	52.4	50.0	4.8	30.0
1,1,2-Trichloroethane	Ave	0.1709	0.1766	0.1000	51.7	50.0	3.3	30.0
Tetrachloroethene	Ave	0.5904	0.6262	0.1000	53.0	50.0	6.1	30.0
1,3-Dichloropropane	Ave	1.330	1.332	0.0100	50.1	50.0	0.1	30.0
2-Hexanone	Ave	0.5514	0.5300	0.0100	192	200	-3.9	30.0
Chlorodibromomethane	Ave	0.6578	0.7317	0.1000	55.6	50.0	11.2	30.0
1,2-Dibromoethane	Ave	0.7216	0.7489	0.1000	51.9	50.0	3.8	30.0
1-Chlorohexane	Ave	1.118	1.109	0.0100	39.7	40.0	-0.8	30.0
Chlorobenzene	Ave	2.201	2.287	0.3000	52.0	50.0	3.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6504	0.7191	0.0100	55.3	50.0	10.6	30.0
Ethylbenzene	Ave	1.230	1.280	0.3000	52.0	50.0	4.0	30.0
m-Xylene & p-Xylene	Ave	1.483	1.557	0.1000	52.5	50.0	5.0	30.0
o-Xylene	Ave	1.449	1.516	0.2000	52.3	50.0	4.6	30.0
Styrene	Ave	2.348	2.589	0.2000	55.1	50.0	10.3	30.0
Bromoform	Ave	0.3919	0.4243	0.1000	54.1	50.0	8.3	30.0
Isopropylbenzene	Ave	2.292	2.496	0.3000	54.4	50.0	8.9	30.0
Cyclohexanone	Ave	0.0462	0.0295	0.0010	958	1500	-36.1*	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6461	0.6576	0.3000	50.9	50.0	1.8	30.0
Bromobenzene	Ave	0.5347	0.5647	0.0100	52.8	50.0	5.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1401	0.1542	0.0100	55.0	50.0	10.0	30.0
1,2,3-Trichloropropane	Ave	0.2013	0.1909	0.0100	47.4	50.0	-5.1	30.0
N-Propylbenzene	Ave	0.6485	0.6911	0.0100	53.3	50.0	6.6	30.0
2-Chlorotoluene	Ave	0.5459	0.5761	0.0100	52.8	50.0	5.5	30.0
1,3,5-Trimethylbenzene	Ave	1.903	2.055	0.0100	54.0	50.0	8.0	30.0
4-Chlorotoluene	Ave	0.5663	0.6072	0.0100	53.6	50.0	7.2	30.0
tert-Butylbenzene	Ave	1.598	1.729	0.0100	54.1	50.0	8.2	30.0
1,2,4-Trimethylbenzene	Ave	1.942	2.119	0.3000	54.6	50.0	9.1	30.0
sec-Butylbenzene	Ave	0.4681	0.5024	0.0100	53.7	50.0	7.3	30.0
1,3-Dichlorobenzene	Ave	1.041	1.092	0.5000	52.5	50.0	4.9	30.0
4-Isopropyltoluene	Ave	1.958	2.132	0.0100	54.4	50.0	8.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657652/22 Calibration Date: 06/20/2024 00:31

Instrument ID: VMS_MS1 Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_5571.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	1.060	1.123	0.5000	53.0	50.0	5.9	30.0
n-Butylbenzene	Ave	1.749	1.960	0.0100	56.0	50.0	12.0	30.0
1,2-Dichlorobenzene	Ave	0.9392	1.028	0.5000	54.7	50.0	9.4	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0934	0.0100	46.2	50.0	-7.6	30.0
1,2,4-Trichlorobenzene	Ave	0.5022	0.5255	0.2000	52.3	50.0	4.6	30.0
Hexachlorobutadiene	Ave	0.1913	0.2143	0.0100	56.0	50.0	12.1	30.0
Naphthalene	Ave	1.215	1.206	0.0100	49.7	50.0	-0.7	30.0
1,2,3-Trichlorobenzene	Ave	0.3808	0.4004	0.3000	52.6	50.0	5.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2248	0.2281	0.0100	50.7	50.0	1.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2585	0.2543	0.0100	49.2	50.0	-1.6	30.0
Toluene-d8 (Surr)	Ave	4.298	4.209	0.0100	49.0	50.0	-2.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9442	0.9481	0.0100	50.2	50.0	0.4	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5571.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 20-Jun-2024 00:31:30 ALS Bottle#: 13 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: icv
Operator ID: bj Instrument ID: VMS_MS1
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 07:09:59 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

First Level Reviewer: AF7X Date: 20-Jun-2024 06:05:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	2336529	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	87	542146	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	94	835305	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	532908	50.0	50.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.766	-0.001	0	594133	50.0	49.2	
$ 6 Toluene-d8 (Surr)	98	7.427	7.428	-0.001	92	2281983	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.900	-0.001	85	791984	50.0	50.2	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	453999	50.0	45.2	
10 Chloromethane	50	2.008	2.009	-0.001	99	492149	50.0	45.5	
11 Vinyl chloride	62	2.134	2.134	0.000	98	407052	50.0	42.7	
13 Bromomethane	94	2.497	2.497	0.000	91	226467	50.0	45.2	
14 Chloroethane	64	2.623	2.623	0.000	100	259376	50.0	45.2	
15 Dichlorofluoromethane	67	2.860	2.861	-0.001	97	714749	50.0	45.0	
16 Trichlorofluoromethane	101	2.888	2.889	-0.001	97	525839	50.0	44.9	
18 Ethyl ether	59	3.168	3.168	0.000	91	363709	50.0	49.9	
20 Acrolein	56	3.321	3.321	0.000	98	619619	493.8	1007.7	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	98	386200	50.0	50.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	273382	50.0	48.7	
23 Acetone	43	3.447	3.447	0.000	100	516952	200.0	176.2	
24 Iodomethane	142	3.559	3.559	0.000	98	335252	50.0	40.0	
26 Carbon disulfide	76	3.628	3.629	-0.001	99	1217064	50.0	52.7	
28 Methyl acetate	43	3.754	3.754	0.000	98	665945	100.0	95.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	94	679536	50.0	53.7	
30 Methylene Chloride	84	3.894	3.894	0.000	92	459108	50.0	47.6	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	98	399387	500.0	496.3	
32 Acrylonitrile	53	4.103	4.104	-0.001	99	1840238	500.0	484.6	
33 Methyl tert-butyl ether	73	4.131	4.132	-0.001	95	1232053	50.0	51.4	
34 trans-1,2-Dichloroethene	96	4.145	4.145	0.000	99	431964	50.0	52.0	
36 Hexane	57	4.383	4.383	0.000	93	608981	50.0	50.0	
38 Vinyl acetate	43	4.522	4.523	-0.001	97	1774081	100.0	108.7	
39 1,1-Dichloroethane	63	4.536	4.537	-0.001	96	790574	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
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	860510	200.0	188.4	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	82	478292	50.0	50.2	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	88	595884	50.0	54.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	798241	1200.0	1032.8	
52 Tetrahydrofuran	42	5.249	5.249	0.000	89	287080	100.0	92.0	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	204741	50.0	47.4	
53 Chloroform	83	5.318	5.319	-0.001	93	752435	50.0	51.7	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	617569	50.0	53.1	
57 Cyclohexane	56	5.542	5.542	0.000	88	785497	50.0	51.1	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	98	616196	50.0	50.8	
59 Carbon tetrachloride	117	5.612	5.612	0.000	81	482780	50.0	53.4	
60 Isobutyl alcohol	41	5.654	5.654	0.000	95	358688	1250.0	1238.1	
61 Benzene	78	5.793	5.793	0.000	96	1877141	50.0	51.7	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	564125	50.0	50.2	
64 n-Heptane	43	6.017	6.017	0.000	91	530762	50.0	51.7	
66 Trichloroethene	95	6.352	6.352	0.000	99	446975	50.0	52.0	
67 2-Pentanone	43	6.478	6.478	0.000	99	1066021	160.0	157.6	
68 Methylcyclohexane	55	6.561	6.562	-0.001	91	573070	50.0	50.7	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	97	485476	50.0	51.1	
71 1,4-Dioxane	88	6.631	6.631	0.000	93	125682	1000.0	904.1	
72 Dibromomethane	93	6.659	6.659	0.000	95	268307	50.0	52.5	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	547445	50.0	53.7	
75 2-Chloroethyl vinyl ether	63	7.022	7.023	-0.001	92	66183	50.0	44.1	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	96	684588	50.0	51.9	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	1704412	200.0	200.3	
80 Toluene	91	7.483	7.483	0.000	98	1960664	50.0	50.5	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	91	648106	50.0	58.4	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	580089	50.0	52.4	
86 1,1,2-Trichloroethane	97	7.874	7.861	0.014	90	412561	50.0	51.7	
89 Tetrachloroethene	164	7.958	7.958	0.000	97	339489	50.0	53.0	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	91	721877	50.0	50.1	
91 2-Hexanone	43	8.042	8.042	0.000	95	1149402	200.0	192.3	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	90	396664	50.0	55.6	
95 Ethylene Dibromide	107	8.349	8.349	0.000	98	406002	50.0	51.9	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	481184	40.0	39.7	
97 Chlorobenzene	112	8.796	8.796	0.000	95	1240132	50.0	52.0	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	389852	50.0	55.3	
98 Ethylbenzene	106	8.880	8.880	0.000	98	693959	50.0	52.0	
100 m-Xylene & p-Xylene	106	9.005	9.006	-0.001	0	844276	50.0	52.5	
101 o-Xylene	106	9.369	9.369	0.000	97	821772	50.0	52.3	
103 Styrene	104	9.397	9.397	0.000	95	1403631	50.0	55.1	
104 Bromoform	173	9.578	9.578	0.000	95	230030	50.0	54.1	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	2085050	50.0	54.4	
107 Cyclohexanone	55	9.830	9.830	0.000	91	479460	1500.0	958.1	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	93	549266	50.0	50.9	
109 Bromobenzene	156	10.053	10.053	0.000	95	471715	50.0	52.8	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	75	128763	50.0	55.0	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	83	159477	50.0	47.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	577286	50.0	53.3	
113 2-Chlorotoluene	126	10.235	10.235	0.000	97	481236	50.0	52.8	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	-0.001	94	1716801	50.0	54.0	
115 4-Chlorotoluene	126	10.346	10.346	0.000	98	507213	50.0	53.6	

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	1444165	50.0	54.1	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	97	1769768	50.0	54.6	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	419644	50.0	53.7	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	912220	50.0	52.5	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1780649	50.0	54.4	
121 1,4-Dichlorobenzene	146	11.072	11.073	-0.001	94	937638	50.0	53.0	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1636852	50.0	56.0	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	858355	50.0	54.7	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	84	78002	50.0	46.2	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	438947	50.0	52.3	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	98	179042	50.0	56.0	
130 Naphthalene	128	13.335	13.335	0.000	97	1007684	50.0	49.7	
132 1,2,3-Trichlorobenzene	180	13.558	13.559	-0.001	95	334468	50.0	52.6	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	102.2	
S 148 Xylenes, Total	106				0		100.0	104.8	
S 150 Xylenes, Total (URS)	1				0		100.0	104.8	
S 152 Trihalomethanes, Total	1				0		200.0	215.2	
S 153 1,2-Dichloroethene, Total	1				0		100.0	102.2	
S 154 1,3-Dichloropropene, Total	1				0		100.0	110.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00105	Amount Added: 25.00	Units: uL	
MV-Gas B_00166	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

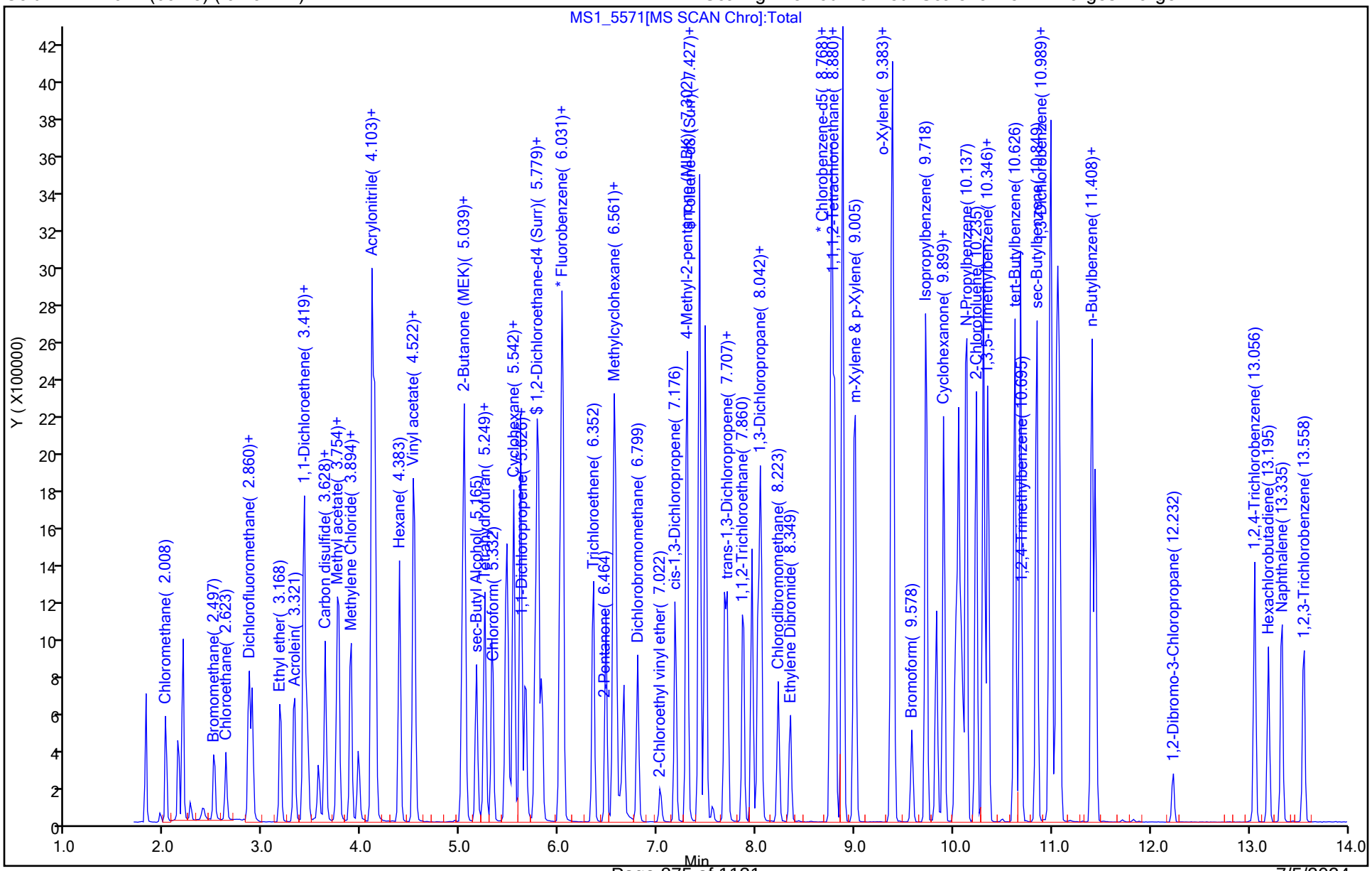
Report Date: 20-Jun-2024 07:10:00 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5571.D

Injection Date:	20-Jun-2024 00:31:30	Instrument ID:	VMS_MS1	Operator ID:	bj
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-658376/13 | Calibration Date: 06/26/2024 08:20

Instrument ID: VMS_MS1 | Calib Start Date: 06/26/2024 03:10

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/26/2024 06:01

Lab File ID: MS1_5869.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	Ave	0.2124	0.2021	0.1000	47.6	50.0	-4.9	30.0
Chloromethane	Ave	0.2610	0.2494	0.1000	47.8	50.0	-4.5	30.0
Vinyl chloride	Ave	0.2782	0.2574	0.0100	46.3	50.0	-7.5	30.0
Bromomethane	Lin1		0.1223	0.0100	44.8	50.0	-10.4	30.0
Chloroethane	Ave	0.1814	0.1654	0.0100	45.6	50.0	-8.8	30.0
Dichlorofluoromethane	Ave	0.4725	0.4327	0.0100	45.8	50.0	-8.4	30.0
Trichlorofluoromethane	Ave	0.3025	0.2783	0.0100	46.0	50.0	-8.0	30.0
2-Chloroethyl vinyl ether	Ave	0.0361	0.0307	0.0100	42.5	50.0	-14.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2312	0.2305	0.0100	49.9	50.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2944	0.2935	0.0100	49.9	50.0	-0.3	30.0
Toluene-d8 (Surr)	Ave	4.406	4.467	0.0100	50.7	50.0	1.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9622	0.9556	0.0100	49.7	50.0	-0.7	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134889.b\MS1_5869.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 26-Jun-2024 08:20:30 ALS Bottle#: 1 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: icv
Operator ID: wickhamt Instrument ID: VMS_MS1
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134889.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 10:23:00 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: AF7X Date: 26-Jun-2024 08:43:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.045	6.031	0.014	99	1874071	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	419448	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	-0.001	96	669205	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	432020	50.0	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	550091	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	1873794	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	85	639476	50.0	49.7	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	378663	50.0	47.6	
10 Chloromethane	50	2.008	2.008	0.000	99	467301	50.0	47.8	
11 Vinyl chloride	62	2.134	2.134	0.000	98	482447	50.0	46.3	
13 Bromomethane	94	2.511	2.497	0.014	91	229259	50.0	44.8	
14 Chloroethane	64	2.623	2.623	0.000	100	310016	50.0	45.6	
15 Dichlorofluoromethane	67	2.860	2.860	0.000	97	810920	50.0	45.8	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	521533	50.0	46.0	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	92	57626	50.0	42.5	

QC Flag Legend
Processing Flags

Reagents:

MV-Gas B_00166	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

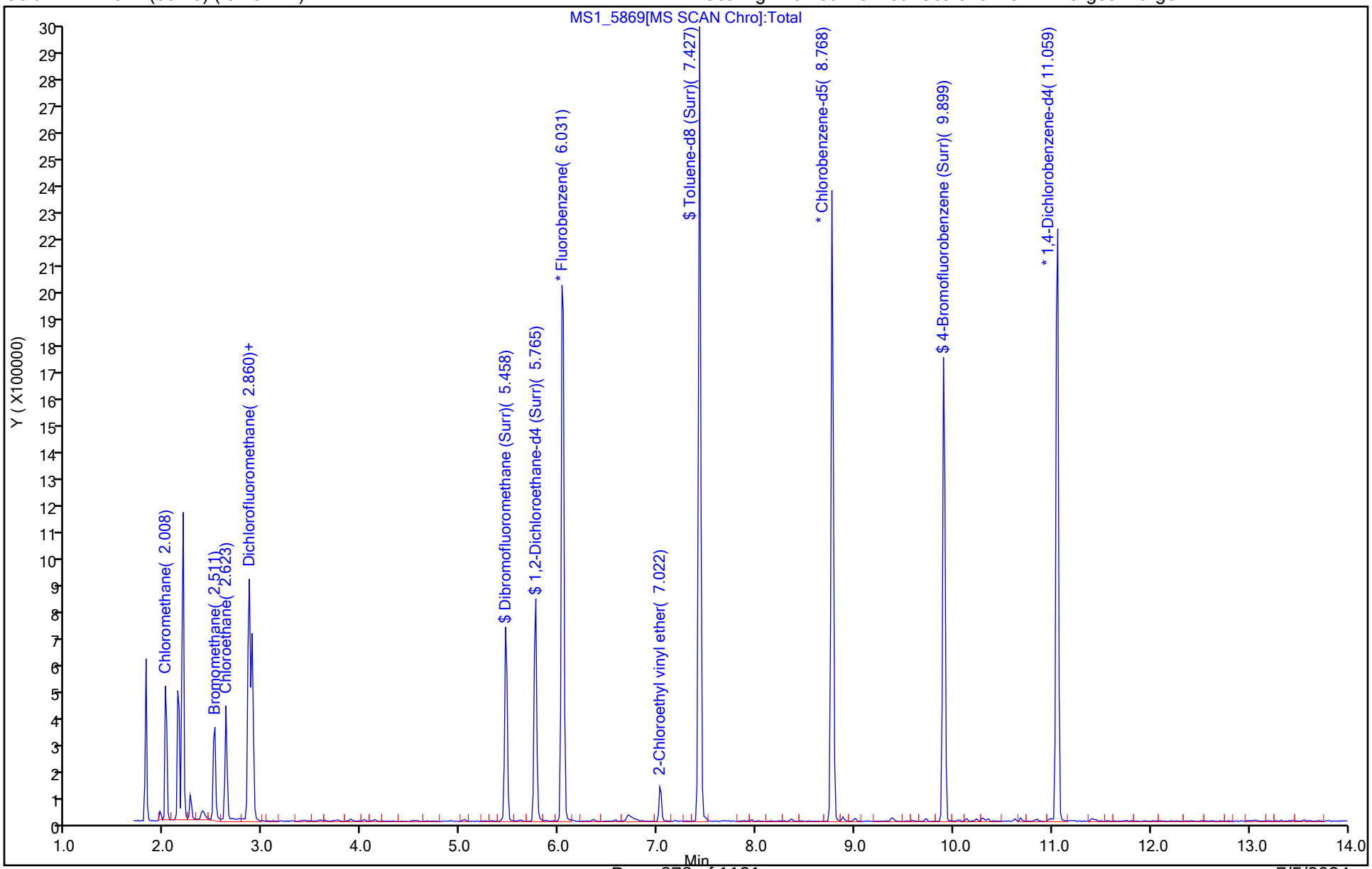
Report Date: 26-Jun-2024 10:23:02 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134889.b\MS1_5869.D

Injection Date:	26-Jun-2024 08:20:30	Instrument ID:	VMS_MS1	Operator ID:	wickhamt
Lims ID:	icv			Worklist Smp#:	13
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658996/3 | Calibration Date: 07/01/2024 22:22

Instrument ID: VMS_MS1 | Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_6079b.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
Ethyl ether	Ave	0.1561	0.1472	0.0100	47.1	50.0	-5.7	20.0
Acrolein	Ave	0.0132	0.0143	0.0010	538	494	8.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1200	0.1077	0.0500	44.9	50.0	-10.2	20.0
1,1-Dichloroethene	Ave	0.1622	0.1444	0.0600	44.5	50.0	-11.0	20.0
Acetone	Lin2		0.0584	0.0100	187	200	-6.7	20.0
Iodomethane	Lin2		0.1374	0.0100	38.4	50.0	-23.1*	20.0
Carbon disulfide	Ave	0.4946	0.4412	0.1000	44.6	50.0	-10.8	20.0
Methyl acetate	Ave	0.1499	0.1360	0.0100	90.7	100	-9.3	20.0
Allyl chloride	Lin2		0.2577	0.0100	47.6	50.0	-4.9	20.0
Methylene Chloride	Ave	0.2062	0.1731	0.0100	42.0	50.0	-16.1	20.0
2-Methyl-2-propanol	Ave	0.0172	0.0196	0.0010	570	500	13.9	20.0
Acrylonitrile	Ave	0.0813	0.0726	0.0100	447	500	-10.6	20.0
Methyl tert-butyl ether	Ave	0.5131	0.5201	0.1000	50.7	50.0	1.4	20.0
trans-1,2-Dichloroethene	Ave	0.1777	0.1641	0.1000	46.2	50.0	-7.6	20.0
Hexane	Ave	1.124	0.9653	0.0100	42.9	50.0	-14.1	20.0
Vinyl acetate	Ave	0.3494	0.3406	0.0100	97.5	100	-2.5	20.0
1,1-Dichloroethane	Ave	0.3375	0.3245	0.1000	48.1	50.0	-3.9	20.0
2-Butanone (MEK)	Ave	0.0977	0.0926	0.0100	189	200	-5.3	20.0
2,2-Dichloropropane	Ave	0.2343	0.2203	0.0100	47.0	50.0	-6.0	20.0
cis-1,2-Dichloroethene	Ave	0.2041	0.1894	0.1000	46.4	50.0	-7.2	20.0
sec-Butyl Alcohol	Lin1		0.0157	0.0100	1140	1200	-5.1	20.0
Chlorobromomethane	Ave	0.0923	0.0861	0.0500	46.6	50.0	-6.8	20.0
Tetrahydrofuran	Ave	0.0668	0.0626	0.0010	93.7	100	-6.3	20.0
Chloroform	Ave	0.3114	0.3057	0.2000	49.1	50.0	-1.9	20.0
1,1,1-Trichloroethane	Ave	0.2490	0.2523	0.0500	50.7	50.0	1.3	20.0
Cyclohexane	Ave	0.3289	0.3094	0.0100	47.0	50.0	-5.9	20.0
1,1-Dichloropropene	Ave	0.2593	0.2437	0.0100	47.0	50.0	-6.0	20.0
Carbon tetrachloride	Ave	0.1936	0.2035	0.1000	52.6	50.0	5.1	20.0
Isobutyl alcohol	Ave	0.0062	0.0068	0.0010	1380	1250	10.3	20.0
Benzene	Ave	0.7771	0.7316	0.2000	47.1	50.0	-5.9	20.0
1,2-Dichloroethane	Ave	0.2406	0.2506	0.0700	52.1	50.0	4.1	20.0
n-Heptane	Ave	0.2196	0.1915		43.6	50.0	-12.8	
Trichloroethene	Ave	0.7929	0.7711	0.2000	48.6	50.0	-2.8	20.0
2-Pentanone	Ave	0.1447	0.1450	0.0010	160	160	0.2	20.0
Methylcyclohexane	Ave	0.2417	0.2349	0.0500	48.6	50.0	-2.8	20.0
1,2-Dichloropropane	Ave	0.2032	0.1909	0.1000	47.0	50.0	-6.1	20.0
1,4-Dioxane	Ave	0.0030	0.0027	0.0010	911	1000	-8.9	20.0
Dibromomethane	Ave	0.1094	0.1095	0.0100	50.0	50.0	0.0	20.0
Dichlorobromomethane	Ave	0.2180	0.2325	0.2000	53.3	50.0	6.7	20.0
cis-1,3-Dichloropropene	Ave	1.218	1.234	0.2000	50.7	50.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658996/3 | Calibration Date: 07/01/2024 22:22

Instrument ID: VMS_MS1 | Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_6079b.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
4-Methyl-2-pentanone (MIBK)	Ave	0.1821	0.1936	0.0300	213	200	6.3	20.0
Toluene	Ave	0.8310	0.8083	0.3000	48.6	50.0	-2.7	20.0
trans-1,3-Dichloropropene	Ave	0.2374	0.2597	0.2000	54.7	50.0	9.4	20.0
Ethyl methacrylate	Ave	1.021	1.063	0.0100	52.1	50.0	4.1	20.0
1,1,2-Trichloroethane	Ave	0.1709	0.1646	0.1000	48.2	50.0	-3.7	20.0
Tetrachloroethene	Ave	0.5904	0.5533	0.1000	46.9	50.0	-6.3	20.0
1,3-Dichloropropane	Ave	1.330	1.301	0.0100	48.9	50.0	-2.1	20.0
2-Hexanone	Ave	0.5514	0.5852	0.0100	212	200	6.1	20.0
Chlorodibromomethane	Ave	0.6578	0.7042	0.1000	53.5	50.0	7.1	20.0
1,2-Dibromoethane	Ave	0.7216	0.7072	0.1000	49.0	50.0	-2.0	20.0
1-Chlorohexane	Ave	1.118	1.016	0.0100	36.4	40.0	-9.1	20.0
Chlorobenzene	Ave	2.201	2.154	0.3000	48.9	50.0	-2.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6504	0.6794	0.0100	52.2	50.0	4.5	20.0
Ethylbenzene	Ave	1.230	1.183	0.3000	48.1	50.0	-3.9	20.0
m-Xylene & p-Xylene	Ave	1.483	1.465	0.1000	49.4	50.0	-1.2	20.0
o-Xylene	Ave	1.449	1.496	0.2000	51.6	50.0	3.2	20.0
Styrene	Ave	2.348	2.460	0.2000	52.4	50.0	4.8	20.0
Bromoform	Ave	0.3919	0.4137	0.1000	52.8	50.0	5.6	20.0
Isopropylbenzene	Ave	2.292	2.355	0.3000	51.4	50.0	2.7	20.0
Cyclohexanone	Ave	0.0462	0.0318	0.0010	1030	1500	-31.1*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6461	0.6284	0.3000	48.6	50.0	-2.7	20.0
Bromobenzene	Ave	0.5347	0.5346	0.0100	50.0	50.0	-0.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1401	0.1580	0.0100	56.4	50.0	12.8	20.0
1,2,3-Trichloropropane	Ave	0.2013	0.1855	0.0100	46.1	50.0	-7.8	20.0
N-Propylbenzene	Ave	0.6485	0.6499	0.0100	50.1	50.0	0.2	20.0
2-Chlorotoluene	Ave	0.5459	0.5295	0.0100	48.5	50.0	-3.0	20.0
1,3,5-Trimethylbenzene	Ave	1.903	1.949	0.0100	51.2	50.0	2.4	20.0
4-Chlorotoluene	Ave	0.5663	0.5773	0.0100	51.0	50.0	1.9	20.0
tert-Butylbenzene	Ave	1.598	1.636	0.0100	51.2	50.0	2.4	20.0
1,2,4-Trimethylbenzene	Ave	1.942	2.073	0.3000	53.4	50.0	6.8	20.0
sec-Butylbenzene	Ave	0.4681	0.4753	0.0100	50.8	50.0	1.5	20.0
1,3-Dichlorobenzene	Ave	1.041	1.031	0.5000	49.5	50.0	-0.9	20.0
4-Isopropyltoluene	Ave	1.958	2.050	0.0100	52.3	50.0	4.7	20.0
1,4-Dichlorobenzene	Ave	1.060	1.049	0.5000	49.5	50.0	-1.0	20.0
n-Butylbenzene	Ave	1.749	1.859	0.0100	53.1	50.0	6.2	20.0
1,2-Dichlorobenzene	Ave	0.9392	0.9726	0.5000	51.8	50.0	3.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0949	0.0100	46.9	50.0	-6.1	20.0
1,2,4-Trichlorobenzene	Ave	0.5022	0.4775	0.2000	47.5	50.0	-4.9	20.0
Hexachlorobutadiene	Ave	0.1913	0.1738	0.0100	45.4	50.0	-9.1	20.0
Naphthalene	Ave	1.215	1.164	0.0100	47.9	50.0	-4.2	20.0
1,2,3-Trichlorobenzene	Ave	0.3808	0.3605	0.3000	47.3	50.0	-5.3	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079b.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 22:22:30 ALS Bottle#: 31 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:37 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

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	2056383	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	473597	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	745170	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	486586	50.0	51.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	618336	50.0	51.1	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2086557	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	728805	50.0	50.8	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	354818	50.0	40.6	
10 Chloromethane	50	2.009	2.009	0.000	98	471105	50.0	43.9	
11 Vinyl chloride	62	2.134	2.134	0.000	98	522615	50.0	45.7	
13 Bromomethane	94	2.497	2.497	0.000	91	272428	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	332246	50.0	44.5	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	848269	50.0	43.7	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	594697	50.0	47.8	
18 Ethyl ether	59	3.168	3.168	0.000	93	302626	50.0	47.1	
20 Acrolein	56	3.321	3.321	0.000	99	290963	493.8	537.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	221545	50.0	44.9	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	97	296892	50.0	44.5	
23 Acetone	43	3.447	3.447	0.000	99	480122	200.0	186.5	
24 Iodomethane	142	3.559	3.559	0.000	99	282634	50.0	38.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	907202	50.0	44.6	
28 Methyl acetate	43	3.740	3.740	0.000	98	559415	100.0	90.7	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	529991	50.0	47.6	
30 Methylene Chloride	84	3.894	3.894	0.000	94	355926	50.0	42.0	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	403498	500.0	569.7	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1493346	500.0	446.8	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	96	1069457	50.0	50.7	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	337503	50.0	46.2	
36 Hexane	57	4.383	4.383	0.000	94	457169	50.0	42.9	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1400778	100.0	97.5	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	97	667214	50.0	48.1	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	761542	200.0	189.4	

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	5.039	5.039	0.000	89	452993	50.0	47.0	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	389453	50.0	46.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	775445	1200.0	1138.6	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	176987	50.0	46.6	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257475	100.0	93.7	
53 Chloroform	83	5.319	5.319	0.000	95	628549	50.0	49.1	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	518896	50.0	50.7	
57 Cyclohexane	56	5.542	5.542	0.000	92	636294	50.0	47.0	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	418420	50.0	52.6	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	501160	50.0	47.0	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	351608	1250.0	1379.0	
61 Benzene	78	5.793	5.793	0.000	97	1504461	50.0	47.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	515316	50.0	52.1	
64 n-Heptane	43	6.003	6.003	0.000	95	393735	50.0	43.6	
66 Trichloroethene	95	6.352	6.352	0.000	98	365186	50.0	48.6	
67 2-Pentanone	43	6.478	6.478	0.000	99	954475	160.0	160.4	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	483095	50.0	48.6	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	392502	50.0	47.0	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	111469	1000.0	911.1	
72 Dibromomethane	93	6.659	6.659	0.000	92	225187	50.0	50.0	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	478180	50.0	53.3	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	91	89813	50.0	60.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	584623	50.0	50.7	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1592538	200.0	212.6	
80 Toluene	91	7.483	7.483	0.000	97	1662148	50.0	48.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	534114	50.0	54.7	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	503372	50.0	52.1	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	92	338543	50.0	48.2	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	262059	50.0	46.9	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	616276	50.0	48.9	
91 2-Hexanone	43	8.042	8.042	0.000	96	1108634	200.0	212.3	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	333497	50.0	53.5	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	334919	50.0	49.0	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	384983	40.0	36.4	
97 Chlorobenzene	112	8.796	8.796	0.000	94	1020221	50.0	48.9	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	321750	50.0	52.2	
98 Ethylbenzene	106	8.880	8.880	0.000	99	560034	50.0	48.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	694048	50.0	49.4	
101 o-Xylene	106	9.369	9.369	0.000	97	708527	50.0	51.6	
103 Styrene	104	9.397	9.397	0.000	95	1165110	50.0	52.4	
104 Bromoform	173	9.578	9.578	0.000	94	195941	50.0	52.8	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1755023	50.0	51.4	
107 Cyclohexanone	55	9.830	9.830	0.000	94	451669	1500.0	1033.2	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	468296	50.0	48.6	
109 Bromobenzene	156	10.053	10.053	0.000	97	398360	50.0	50.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	83	117773	50.0	56.4	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	87	138251	50.0	46.1	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	484286	50.0	50.1	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	394579	50.0	48.5	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1452365	50.0	51.2	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	430159	50.0	51.0	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1218984	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
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	1544706	50.0	53.4	
118 sec-Butylbenzene	134	10.849	10.849	0.000	95	354161	50.0	50.8	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	768404	50.0	49.5	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1527327	50.0	52.3	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	781956	50.0	49.5	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1384984	50.0	53.1	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	724766	50.0	51.8	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	70709	50.0	46.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	355810	50.0	47.5	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	95	129542	50.0	45.4	
130 Naphthalene	128	13.335	13.335	0.000	97	867535	50.0	47.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	268636	50.0	47.3	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.6	
S 154 1,3-Dichloropropene, Total	1				0		100.0	105.4	
S 153 1,2-Dichloroethene, Total	1				0		100.0	92.6	
S 152 Trihalomethanes, Total	1				0		200.0	208.7	
S 150 Xylenes, Total (URS)	1				0		100.0	101.0	
S 148 Xylenes, Total	106				0		100.0	101.0	

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00191	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

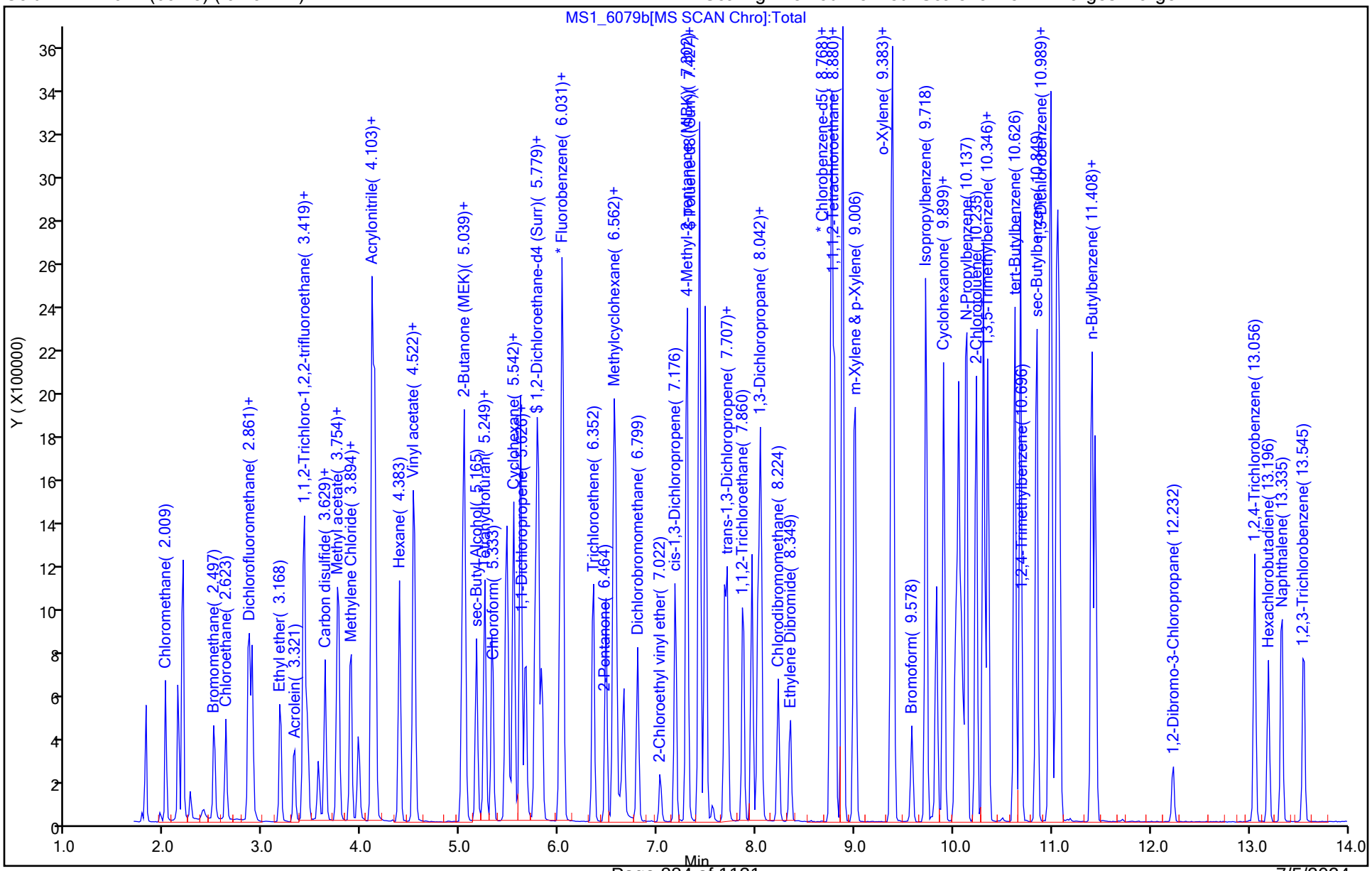
Report Date: 02-Jul-2024 01:27:37 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079b.D

Injection Date:	01-Jul-2024 22:22:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658996/3 | Calibration Date: 07/01/2024 22:22

Instrument ID: VMS_MS1 | Calib Start Date: 06/26/2024 03:10

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/26/2024 06:01

Lab File ID: MS1_6079b.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	Ave	0.2124	0.1725	0.1000	40.6	50.0	-18.8	20.0
Chloromethane	Ave	0.2610	0.2291	0.1000	43.9	50.0	-12.2	20.0
Vinyl chloride	Ave	0.2782	0.2541	0.0100	45.7	50.0	-8.6	20.0
Bromomethane	Lin1		0.1325	0.0100	48.5	50.0	-3.0	20.0
Chloroethane	Ave	0.1814	0.1616	0.0100	44.5	50.0	-10.9	20.0
Dichlorofluoromethane	Ave	0.4725	0.4125	0.0100	43.7	50.0	-12.7	20.0
Trichlorofluoromethane	Ave	0.3025	0.2892	0.0100	47.8	50.0	-4.4	20.0
2-Chloroethyl vinyl ether	Ave	0.0361	0.0437	0.0100	60.4	50.0	20.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2312	0.2366	0.0100	51.2	50.0	2.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2944	0.3007	0.0100	51.1	50.0	2.1	20.0
Toluene-d8 (Surr)	Ave	4.406	4.406	0.0100	50.0	50.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9622	0.9780	0.0100	50.8	50.0	1.6	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079b.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 22:22:30 ALS Bottle#: 31 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:37 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

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	2056383	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	473597	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	745170	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	486586	50.0	51.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	618336	50.0	51.1	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2086557	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	728805	50.0	50.8	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	354818	50.0	40.6	
10 Chloromethane	50	2.009	2.009	0.000	98	471105	50.0	43.9	
11 Vinyl chloride	62	2.134	2.134	0.000	98	522615	50.0	45.7	
13 Bromomethane	94	2.497	2.497	0.000	91	272428	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	332246	50.0	44.5	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	848269	50.0	43.7	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	594697	50.0	47.8	
18 Ethyl ether	59	3.168	3.168	0.000	93	302626	50.0	47.1	
20 Acrolein	56	3.321	3.321	0.000	99	290963	493.8	537.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	221545	50.0	44.9	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	97	296892	50.0	44.5	
23 Acetone	43	3.447	3.447	0.000	99	480122	200.0	186.5	
24 Iodomethane	142	3.559	3.559	0.000	99	282634	50.0	38.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	907202	50.0	44.6	
28 Methyl acetate	43	3.740	3.740	0.000	98	559415	100.0	90.7	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	529991	50.0	47.6	
30 Methylene Chloride	84	3.894	3.894	0.000	94	355926	50.0	42.0	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	403498	500.0	569.7	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1493346	500.0	446.8	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	96	1069457	50.0	50.7	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	337503	50.0	46.2	
36 Hexane	57	4.383	4.383	0.000	94	457169	50.0	42.9	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1400778	100.0	97.5	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	97	667214	50.0	48.1	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	761542	200.0	189.4	

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	5.039	5.039	0.000	89	452993	50.0	47.0	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	389453	50.0	46.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	775445	1200.0	1138.6	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	176987	50.0	46.6	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257475	100.0	93.7	
53 Chloroform	83	5.319	5.319	0.000	95	628549	50.0	49.1	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	518896	50.0	50.7	
57 Cyclohexane	56	5.542	5.542	0.000	92	636294	50.0	47.0	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	418420	50.0	52.6	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	501160	50.0	47.0	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	351608	1250.0	1379.0	
61 Benzene	78	5.793	5.793	0.000	97	1504461	50.0	47.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	515316	50.0	52.1	
64 n-Heptane	43	6.003	6.003	0.000	95	393735	50.0	43.6	
66 Trichloroethene	95	6.352	6.352	0.000	98	365186	50.0	48.6	
67 2-Pentanone	43	6.478	6.478	0.000	99	954475	160.0	160.4	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	483095	50.0	48.6	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	392502	50.0	47.0	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	111469	1000.0	911.1	
72 Dibromomethane	93	6.659	6.659	0.000	92	225187	50.0	50.0	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	478180	50.0	53.3	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	91	89813	50.0	60.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	584623	50.0	50.7	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1592538	200.0	212.6	
80 Toluene	91	7.483	7.483	0.000	97	1662148	50.0	48.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	534114	50.0	54.7	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	503372	50.0	52.1	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	92	338543	50.0	48.2	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	262059	50.0	46.9	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	616276	50.0	48.9	
91 2-Hexanone	43	8.042	8.042	0.000	96	1108634	200.0	212.3	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	333497	50.0	53.5	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	334919	50.0	49.0	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	384983	40.0	36.4	
97 Chlorobenzene	112	8.796	8.796	0.000	94	1020221	50.0	48.9	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	321750	50.0	52.2	
98 Ethylbenzene	106	8.880	8.880	0.000	99	560034	50.0	48.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	694048	50.0	49.4	
101 o-Xylene	106	9.369	9.369	0.000	97	708527	50.0	51.6	
103 Styrene	104	9.397	9.397	0.000	95	1165110	50.0	52.4	
104 Bromoform	173	9.578	9.578	0.000	94	195941	50.0	52.8	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1755023	50.0	51.4	
107 Cyclohexanone	55	9.830	9.830	0.000	94	451669	1500.0	1033.2	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	468296	50.0	48.6	
109 Bromobenzene	156	10.053	10.053	0.000	97	398360	50.0	50.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	83	117773	50.0	56.4	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	87	138251	50.0	46.1	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	484286	50.0	50.1	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	394579	50.0	48.5	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1452365	50.0	51.2	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	430159	50.0	51.0	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1218984	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
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	1544706	50.0	53.4	
118 sec-Butylbenzene	134	10.849	10.849	0.000	95	354161	50.0	50.8	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	768404	50.0	49.5	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1527327	50.0	52.3	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	781956	50.0	49.5	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1384984	50.0	53.1	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	724766	50.0	51.8	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	70709	50.0	46.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	355810	50.0	47.5	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	95	129542	50.0	45.4	
130 Naphthalene	128	13.335	13.335	0.000	97	867535	50.0	47.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	268636	50.0	47.3	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.6	
S 154 1,3-Dichloropropene, Total	1				0		100.0	105.4	
S 153 1,2-Dichloroethene, Total	1				0		100.0	92.6	
S 152 Trihalomethanes, Total	1				0		200.0	208.7	
S 150 Xylenes, Total (URS)	1				0		100.0	101.0	
S 148 Xylenes, Total	106				0		100.0	101.0	

Reagents:

MV-MegaMainA_00110	Amount Added:	25.00	Units: uL	
MV-Gas A_00191	Amount Added:	10.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

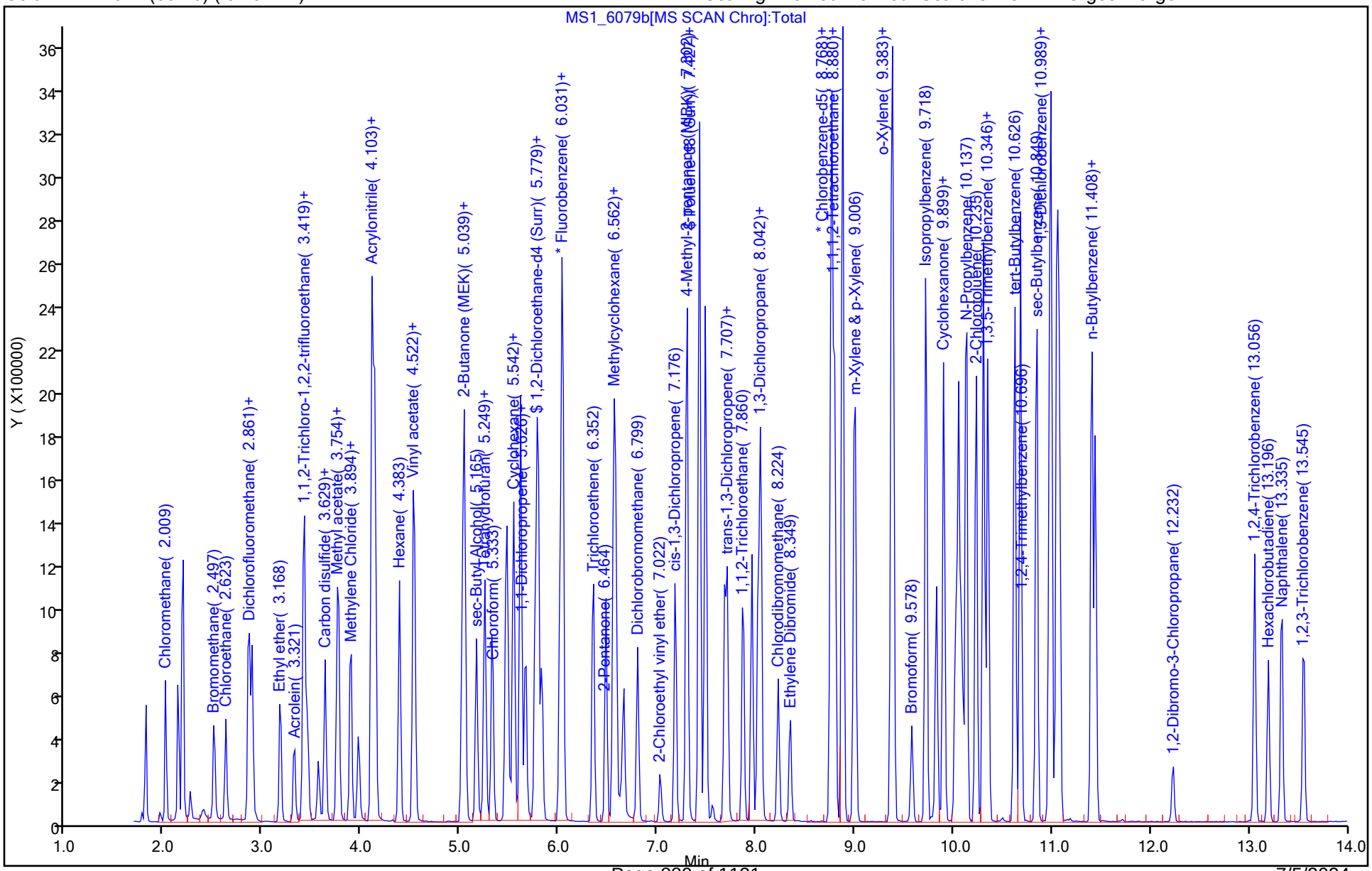
Report Date: 02-Jul-2024 01:27:37 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079b.D

Injection Date:	01-Jul-2024 22:22:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658996/2 Calibration Date: 07/01/2024 22:43

Instrument ID: VMS_MS1 Calib Start Date: 04/05/2024 11:39

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/05/2024 14:08

Lab File ID: MS1_6080b.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	0.0025	0.0024*	0.0100	1470	1500	-2.0	20.0
Isopropyl alcohol	Ave	0.0119	0.0117	0.0100	246	250	-1.7	20.0
Acetonitrile	Ave	0.0278	0.0271	0.0100	244	250	-2.5	20.0
Isopropyl ether	Ave	0.1814	0.1539	0.0100	21.2	25.0	-15.1	20.0
Chloroprene	Ave	0.2956	0.3018	0.0100	25.5	25.0	2.1	20.0
Tert-butyl ethyl ether	Ave	0.5440	0.5615	0.0100	25.8	25.0	3.2	20.0
Ethyl acetate	Ave	0.1713	0.1846	0.0100	53.9	50.0	7.8	20.0
Propionitrile	Ave	0.0309	0.0287	0.0100	232	250	-7.1	20.0
Methacrylonitrile	Ave	0.1165	0.1243	0.0100	267	250	6.7	20.0
Tert-amyl methyl ether	Ave	0.5193	0.5105	0.0100	24.6	25.0	-1.7	20.0
n-Butanol	Ave	0.0052	0.0047*	0.0100	572	625	-8.5	20.0
Methyl methacrylate	Ave	0.0566	0.0500	0.0100	44.1	50.0	-11.8	20.0
2-Nitropropane	Ave	0.0304	0.0409	0.0100	67.3	50.0	34.6*	20.0
cis-1,4-Dichloro-2-butene	Ave	0.1155	0.1572	0.0100	68.0	50.0	36.1*	20.0
1,2,3-Trimethylbenzene	Ave	2.123	2.135	0.0100	25.1	25.0	0.5	20.0
1,3,5-Trichlorobenzene	Ave	0.7433	0.5714	0.0100	19.2	25.0	-23.1*	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080b.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 22:43:30 ALS Bottle#: 32 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: LP8K Date: 03-Jul-2024 20:15:23

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	1985939	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	443554	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	678734	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	451102	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	583413	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1997288	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	682966	50.0	52.3	
17 Ethanol	45	3.070	3.070	0.000	100	145238	1500.0	1470.5	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	116138	250.0	245.7	
27 Acetonitrile	41	3.726	3.726	0.000	98	268736	250.0	243.7	
40 Isopropyl ether	87	4.550	4.550	0.000	93	152827	25.0	21.2	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	299642	25.0	25.5	
43 Tert-butyl ethyl ether	59	4.871	4.871	0.000	98	557579	25.0	25.8	
47 Ethyl acetate	43	5.039	5.039	0.000	99	366566	50.0	53.9	
48 Propionitrile	54	5.081	5.081	0.000	99	284815	250.0	232.2	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1234236	250.0	266.6	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	506935	25.0	24.6	
65 n-Butanol	56	6.226	6.226	0.000	86	117199	625.0	571.7	a
70 Methyl methacrylate	100	6.603	6.603	0.000	91	99211	50.0	44.1	
74 2-Nitropropane	41	6.994	6.994	0.000	97	81184	50.0	67.3	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	106721	50.0	68.0	
122 1,2,3-Trimethylbenzene	105	11.100	11.100	0.000	98	724540	25.0	25.1	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	95	193901	25.0	19.2	
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

Report Date: 03-Jul-2024 20:17:18 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Review Flags

a - User Assigned ID

Reagents:

MV-Supp A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

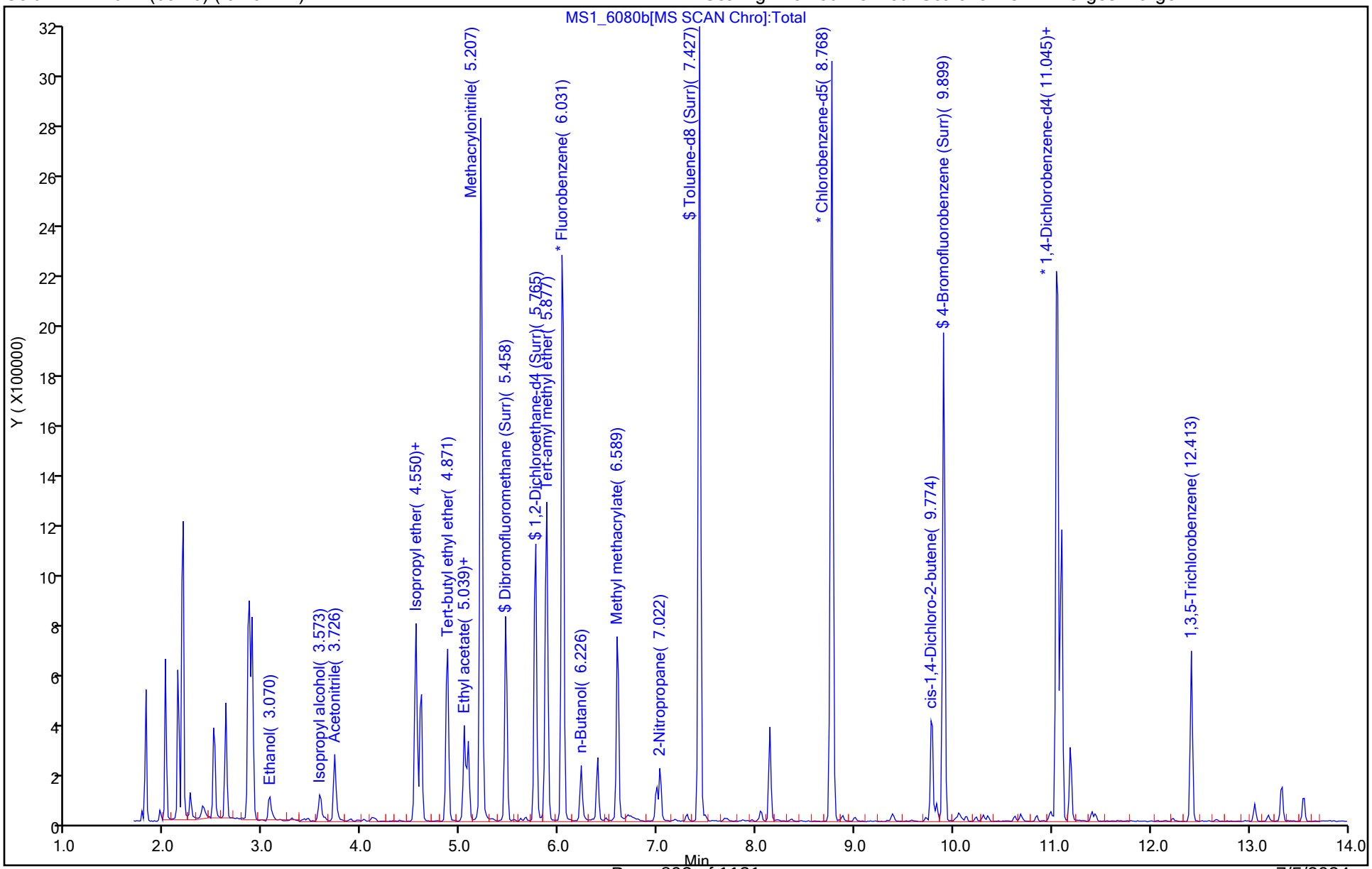
Report Date: 03-Jul-2024 20:17:18 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080b.D

Injection Date:	01-Jul-2024 22:43:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
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



Manual Integration/User Assign Peak Report

Eurofins Denver

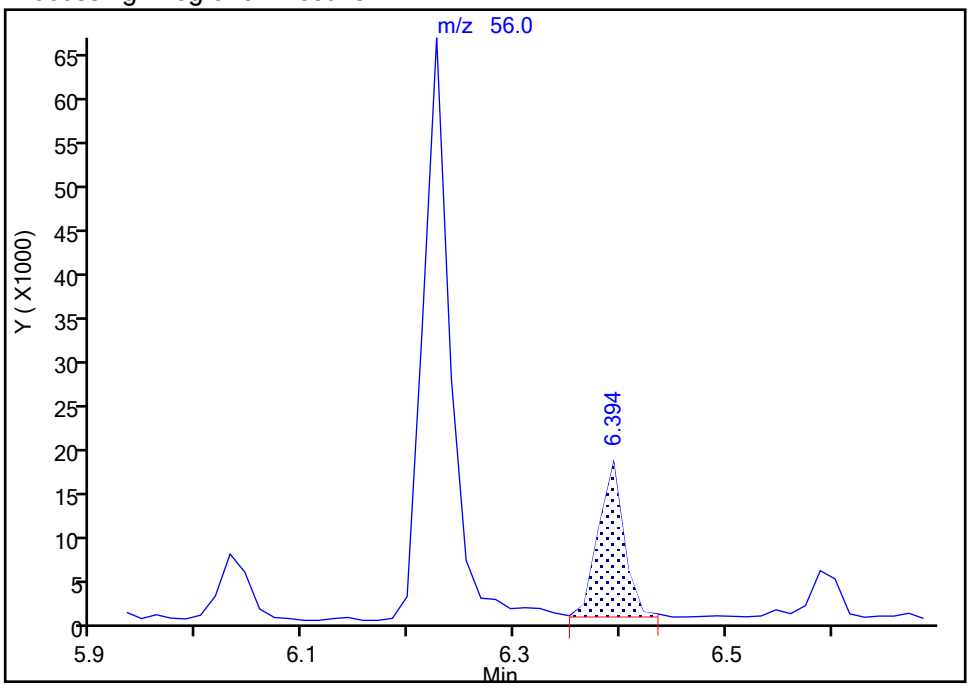
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080b.D
Injection Date: 01-Jul-2024 22:43:30 Instrument ID: VMS_MS1
Lims ID: CCV
Client ID:
Operator ID: go ALS Bottle#: 32 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

65 n-Butanol, CAS: 71-36-3

Signal: 1

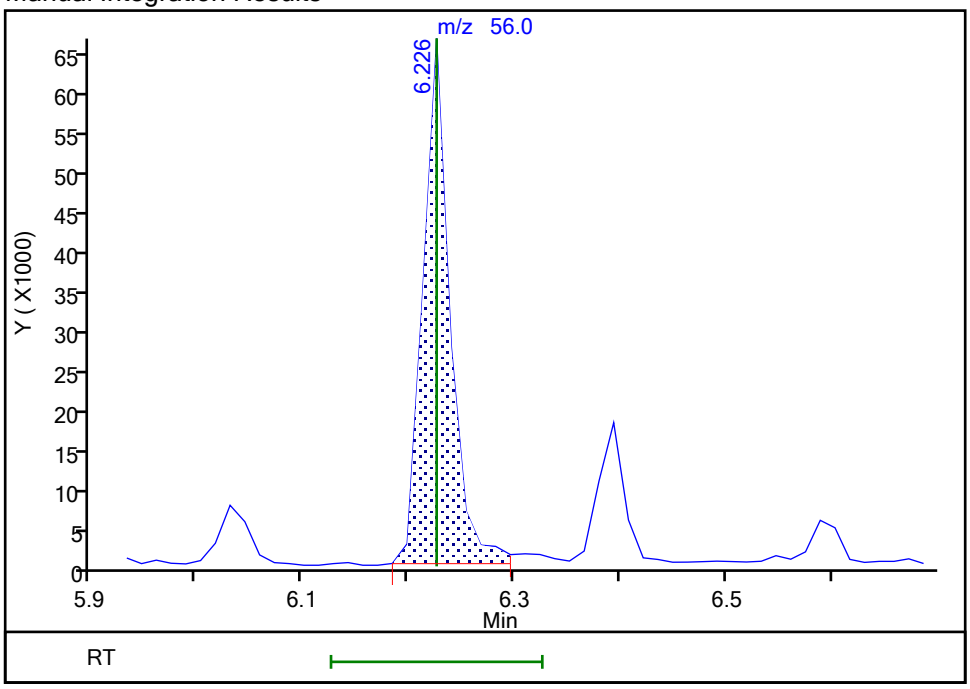
Processing Integration Results

RT: 6.39
Area: 28826
Amount: 140.6044
Amount Units: ug/l



Manual Integration Results

RT: 6.23
Area: 117199
Amount: 571.6608
Amount Units: ug/l



Reviewer: LP8K, 03-Jul-2024 20:15:17 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658996/2 Calibration Date: 07/01/2024 22:43

Instrument ID: VMS_MS1 Calib Start Date: 06/26/2024 03:10

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/26/2024 06:01

Lab File ID: MS1_6080b.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	0.2312	0.2271	0.0100	49.1	50.0	-1.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2944	0.2938	0.0100	49.9	50.0	-0.2	20.0
Toluene-d8 (Surr)	Ave	4.406	4.503	0.0100	51.1	50.0	2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9622	1.006	0.0100	52.3	50.0	4.6	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080b.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 22:43:30 ALS Bottle#: 32 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: LP8K Date: 03-Jul-2024 20:15:23

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	1985939	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	443554	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	678734	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	451102	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	583413	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1997288	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	682966	50.0	52.3	
17 Ethanol	45	3.070	3.070	0.000	100	145238	1500.0	1470.5	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	116138	250.0	245.7	
27 Acetonitrile	41	3.726	3.726	0.000	98	268736	250.0	243.7	
40 Isopropyl ether	87	4.550	4.550	0.000	93	152827	25.0	21.2	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	299642	25.0	25.5	
43 Tert-butyl ethyl ether	59	4.871	4.871	0.000	98	557579	25.0	25.8	
47 Ethyl acetate	43	5.039	5.039	0.000	99	366566	50.0	53.9	
48 Propionitrile	54	5.081	5.081	0.000	99	284815	250.0	232.2	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1234236	250.0	266.6	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	506935	25.0	24.6	
65 n-Butanol	56	6.226	6.226	0.000	86	117199	625.0	571.7	a
70 Methyl methacrylate	100	6.603	6.603	0.000	91	99211	50.0	44.1	
74 2-Nitropropane	41	6.994	6.994	0.000	97	81184	50.0	67.3	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	106721	50.0	68.0	
122 1,2,3-Trimethylbenzene	105	11.100	11.100	0.000	98	724540	25.0	25.1	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	95	193901	25.0	19.2	
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

Review Flags
a - User Assigned ID

Reagents:

MV-Supp A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

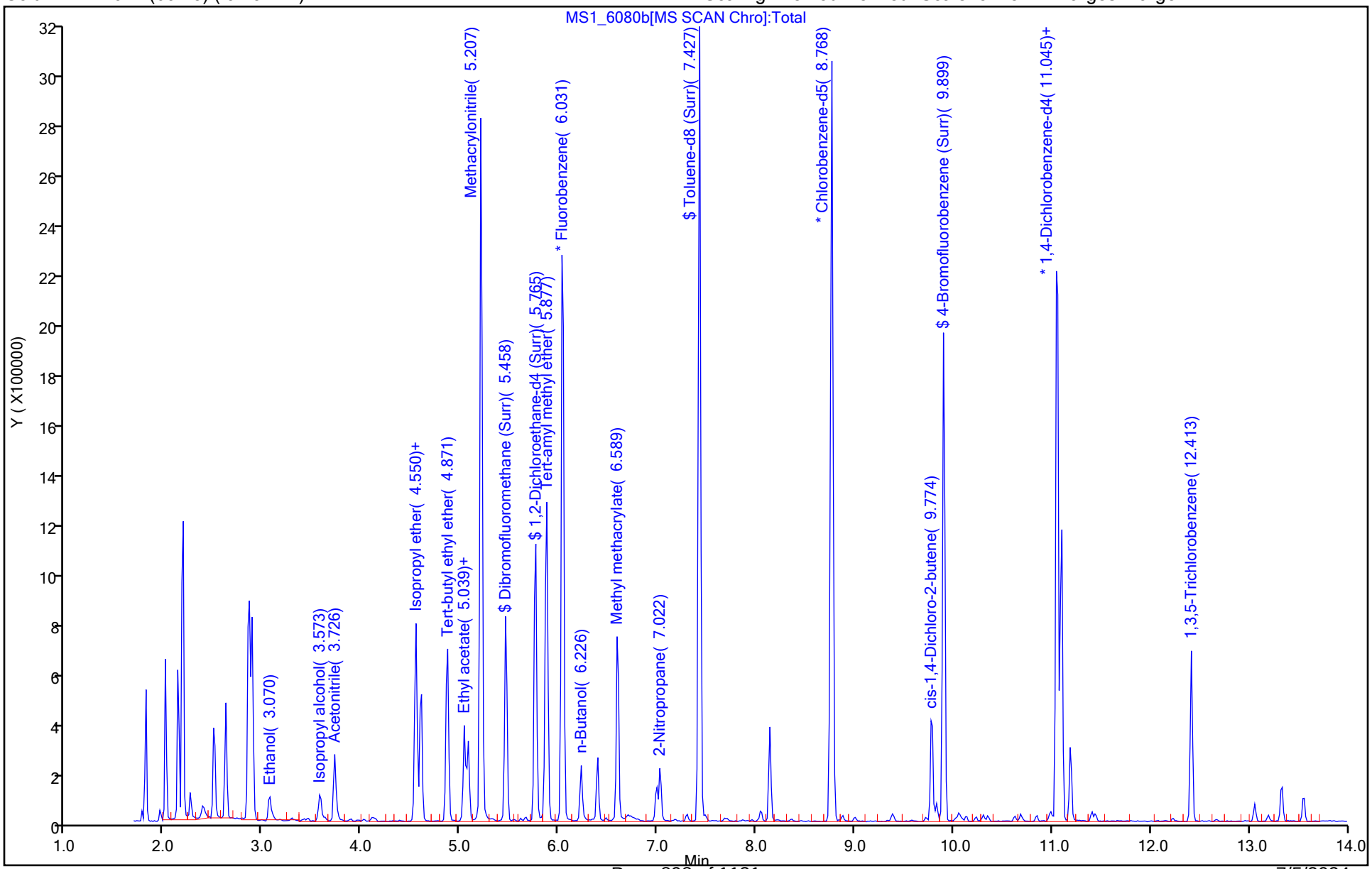
Report Date: 03-Jul-2024 20:17:18 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080b.D

Injection Date:	01-Jul-2024 22:43:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-659045/2 Calibration Date: 07/02/2024 08:01

Instrument ID: VMS_MS1 Calib Start Date: 04/05/2024 11:39

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 04/05/2024 14:08

Lab File ID: MS1_6106_CCV S.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	0.0025	0.0023*	0.0100	1400	1500	-6.5	20.0
Isopropyl alcohol	Ave	0.0119	0.0113	0.0100	238	250	-4.9	20.0
Acetonitrile	Ave	0.0278	0.0269	0.0100	242	250	-3.2	20.0
Isopropyl ether	Ave	0.1814	0.1600	0.0100	22.1	25.0	-11.8	20.0
Chloroprene	Ave	0.2956	0.3026	0.0100	25.6	25.0	2.4	20.0
Tert-butyl ethyl ether	Ave	0.5440	0.5548	0.0100	25.5	25.0	2.0	20.0
Ethyl acetate	Ave	0.1713	0.1842	0.0100	53.8	50.0	7.5	20.0
Propionitrile	Ave	0.0309	0.0291	0.0100	236	250	-5.7	20.0
Methacrylonitrile	Ave	0.1165	0.1246	0.0100	267	250	6.9	20.0
Tert-amyl methyl ether	Ave	0.5193	0.5222	0.0100	25.1	25.0	0.6	20.0
n-Butanol	Ave	0.0052	0.0012*	0.0100	148	625	-76.4*	20.0
Methyl methacrylate	Ave	0.0566	0.0521	0.0100	46.0	50.0	-8.1	20.0
2-Nitropropane	Ave	0.0304	0.0399	0.0100	65.7	50.0	31.4*	20.0
cis-1,4-Dichloro-2-butene	Ave	0.1155	0.1418	0.0100	61.4	50.0	22.7*	20.0
1,2,3-Trimethylbenzene	Ave	2.123	2.211	0.0100	26.0	25.0	4.1	20.0
1,3,5-Trichlorobenzene	Ave	0.7433	0.6208	0.0100	20.9	25.0	-16.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_CCV S.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2024 08:01:30 ALS Bottle#: 21 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:13 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 09:35:10

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	1908876	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	433376	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	657108	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	91	444587	50.0	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	560269	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1904438	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	643587	50.0	50.9	
17 Ethanol	45	3.070	3.070	0.000	99	133191	1500.0	1403.0	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	107966	250.0	237.7	
27 Acetonitrile	41	3.726	3.726	0.000	99	256381	250.0	241.9	
40 Isopropyl ether	87	4.550	4.550	0.000	92	152725	25.0	22.1	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	288853	25.0	25.6	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	96	529484	25.0	25.5	
47 Ethyl acetate	43	5.039	5.039	0.000	99	351592	50.0	53.8	
48 Propionitrile	54	5.081	5.081	0.000	99	278089	250.0	235.8	
50 Methacrylonitrile	41	5.207	5.207	0.000	92	1189580	250.0	267.4	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	498438	25.0	25.1	
65 n-Butanol	56	6.394	6.394	0.000	22	29098	625.0	147.7	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	99375	50.0	46.0	
74 2-Nitropropane	41	6.995	6.995	0.000	99	76216	50.0	65.7	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	93168	50.0	61.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	726406	25.0	26.0	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	96	203965	25.0	20.9	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

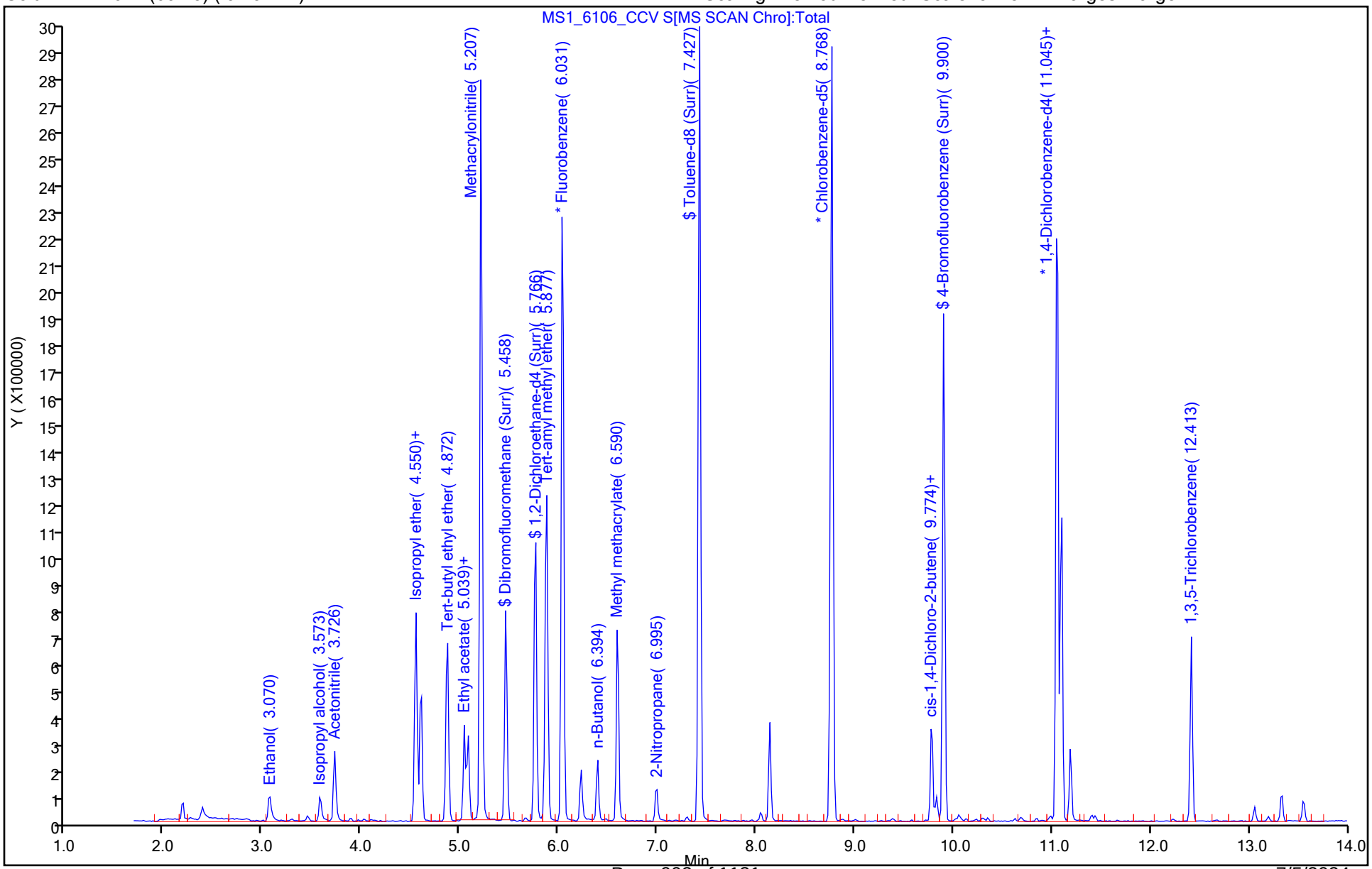
Report Date: 02-Jul-2024 15:56:14 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_CCV S.D

Injection Date:	02-Jul-2024 08:01:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-659045/2 Calibration Date: 07/02/2024 08:01

Instrument ID: VMS_MS1 Calib Start Date: 06/26/2024 03:10

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/26/2024 06:01

Lab File ID: MS1_6106_CCV S.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	0.2312	0.2329	0.0100	50.4	50.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2944	0.2935	0.0100	49.9	50.0	-0.3	20.0
Toluene-d8 (Surr)	Ave	4.406	4.394	0.0100	49.9	50.0	-0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9622	0.9794	0.0100	50.9	50.0	1.8	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_CCV S.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2024 08:01:30 ALS Bottle#: 21 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: bj Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub197

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:13 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 09:35:10

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	1908876	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	433376	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	657108	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	91	444587	50.0	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	560269	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1904438	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	643587	50.0	50.9	
17 Ethanol	45	3.070	3.070	0.000	99	133191	1500.0	1403.0	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	107966	250.0	237.7	
27 Acetonitrile	41	3.726	3.726	0.000	99	256381	250.0	241.9	
40 Isopropyl ether	87	4.550	4.550	0.000	92	152725	25.0	22.1	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	288853	25.0	25.6	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	96	529484	25.0	25.5	
47 Ethyl acetate	43	5.039	5.039	0.000	99	351592	50.0	53.8	
48 Propionitrile	54	5.081	5.081	0.000	99	278089	250.0	235.8	
50 Methacrylonitrile	41	5.207	5.207	0.000	92	1189580	250.0	267.4	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	498438	25.0	25.1	
65 n-Butanol	56	6.394	6.394	0.000	22	29098	625.0	147.7	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	99375	50.0	46.0	
74 2-Nitropropane	41	6.995	6.995	0.000	99	76216	50.0	65.7	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	93168	50.0	61.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	726406	25.0	26.0	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	96	203965	25.0	20.9	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

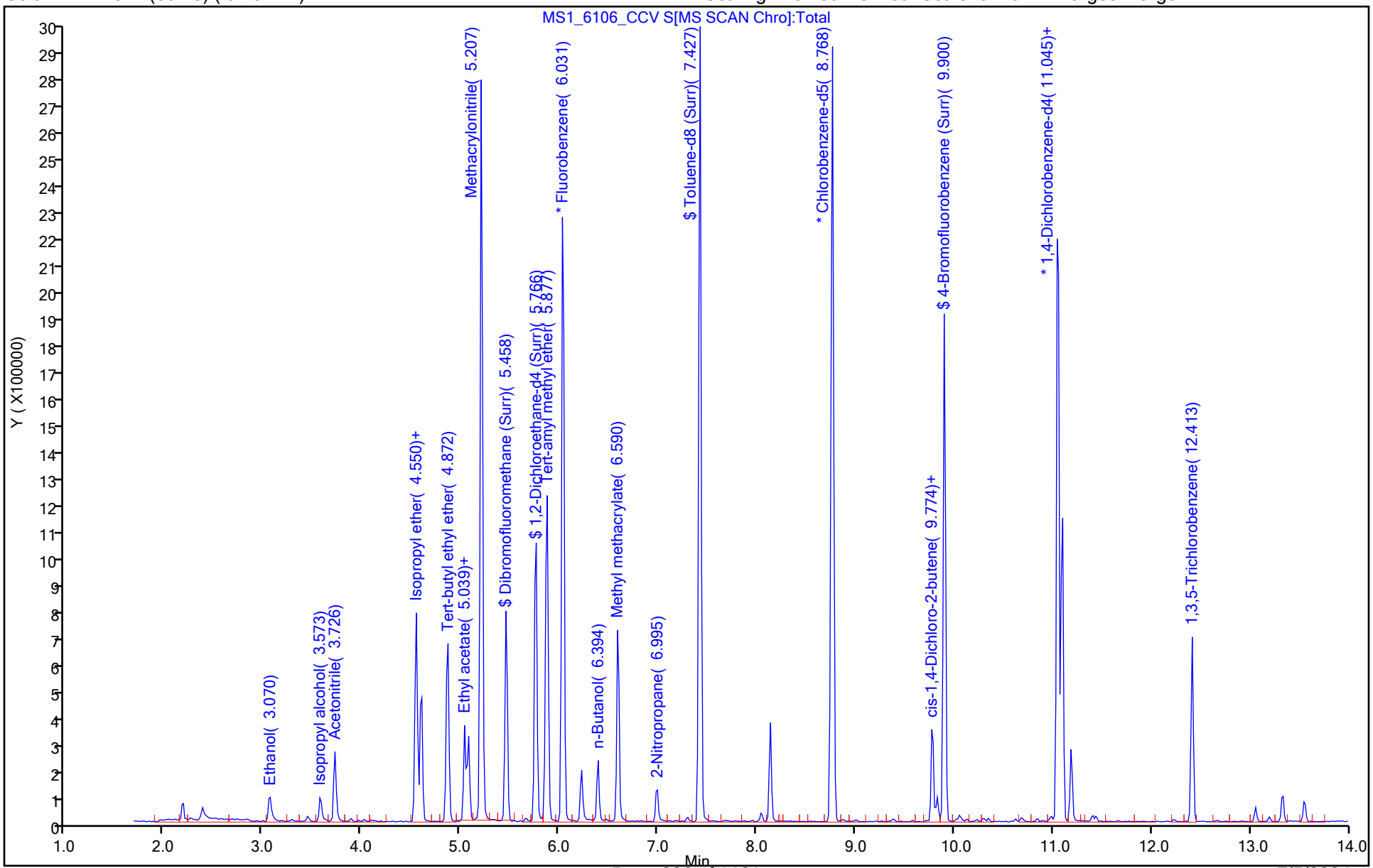
Report Date: 02-Jul-2024 15:56:14 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_CCV S.D

Injection Date:	02-Jul-2024 08:01:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-659045/3 Calibration Date: 07/02/2024 09:17

Instrument ID: VMS_MS1 Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_6108.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
Ethyl ether	Ave	0.1561	0.1596	0.0100	51.1	50.0	2.2	20.0
Acrolein	Ave	0.0132	0.0164	0.0010	616	494	24.7*	20.0
1,1-Dichloroethene	Ave	0.1622	0.1654	0.0600	51.0	50.0	1.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1200	0.1270	0.0500	52.9	50.0	5.8	20.0
Acetone	Lin2		0.0624	0.0100	200	200	0.0	20.0
Iodomethane	Lin2		0.1962	0.0100	53.7	50.0	7.5	20.0
Carbon disulfide	Ave	0.4946	0.5128	0.1000	51.8	50.0	3.7	20.0
Methyl acetate	Ave	0.1499	0.1470	0.0100	98.1	100	-1.9	20.0
Allyl chloride	Lin2		0.2929	0.0100	54.1	50.0	8.2	20.0
Methylene Chloride	Ave	0.2062	0.1959	0.0100	47.5	50.0	-5.0	20.0
2-Methyl-2-propanol	Ave	0.0172	0.0186	0.0010	540	500	8.0	20.0
Acrylonitrile	Ave	0.0813	0.0778	0.0100	479	500	-4.3	20.0
Methyl tert-butyl ether	Ave	0.5131	0.5647	0.1000	55.0	50.0	10.0	20.0
trans-1,2-Dichloroethene	Ave	0.1777	0.1878	0.1000	52.8	50.0	5.7	20.0
Hexane	Ave	1.124	1.227	0.0100	54.6	50.0	9.2	20.0
Vinyl acetate	Ave	0.3494	0.4153	0.0100	119	100	18.9	20.0
1,1-Dichloroethane	Ave	0.3375	0.3581	0.1000	53.0	50.0	6.1	20.0
2-Butanone (MEK)	Ave	0.0977	0.0981	0.0100	201	200	0.3	20.0
2,2-Dichloropropane	Ave	0.2343	0.2889	0.0100	61.7	50.0	23.3*	20.0
cis-1,2-Dichloroethene	Ave	0.2041	0.2133	0.1000	52.3	50.0	4.5	20.0
sec-Butyl Alcohol	Lin1		0.0148	0.0100	1080	1200	-10.4	20.0
Chlorobromomethane	Ave	0.0923	0.0925	0.0500	50.1	50.0	0.2	20.0
Tetrahydrofuran	Ave	0.0668	0.0627	0.0010	93.8	100	-6.2	20.0
Chloroform	Ave	0.3114	0.3458	0.2000	55.5	50.0	11.0	20.0
1,1,1-Trichloroethane	Ave	0.2490	0.2868	0.0500	57.6	50.0	15.2	20.0
Cyclohexane	Ave	0.3289	0.3566	0.0100	54.2	50.0	8.4	20.0
1,1-Dichloropropene	Ave	0.2593	0.2805	0.0100	54.1	50.0	8.2	20.0
Carbon tetrachloride	Ave	0.1936	0.2296	0.1000	59.3	50.0	18.6	20.0
Isobutyl alcohol	Ave	0.0062	0.0066	0.0010	1330	1250	6.4	20.0
Benzene	Ave	0.7771	0.8096	0.2000	52.1	50.0	4.2	20.0
1,2-Dichloroethane	Ave	0.2406	0.2812	0.0700	58.4	50.0	16.9	20.0
n-Heptane	Ave	0.2196	0.2509		57.1	50.0	14.3	
Trichloroethene	Ave	0.7929	0.8235	0.2000	51.9	50.0	3.9	20.0
2-Pentanone	Ave	0.1447	0.1496	0.0010	165	160	3.3	20.0
Methylcyclohexane	Ave	0.2417	0.2739	0.0500	56.7	50.0	13.4	20.0
1,2-Dichloropropane	Ave	0.2032	0.2120	0.1000	52.2	50.0	4.3	20.0
1,4-Dioxane	Ave	0.0030	0.0027	0.0010	899	1000	-10.1	20.0
Dibromomethane	Ave	0.1094	0.1197	0.0100	54.7	50.0	9.4	20.0
Dichlorobromomethane	Ave	0.2180	0.2513	0.2000	57.6	50.0	15.3	20.0
cis-1,3-Dichloropropene	Ave	1.218	1.354	0.2000	55.6	50.0	11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-659045/3 Calibration Date: 07/02/2024 09:17

Instrument ID: VMS_MS1 Calib Start Date: 06/19/2024 20:59

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/19/2024 23:49

Lab File ID: MS1_6108.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
4-Methyl-2-pentanone (MIBK)	Ave	0.1821	0.1954	0.0300	215	200	7.3	20.0
Toluene	Ave	0.8310	0.8912	0.3000	53.6	50.0	7.2	20.0
trans-1,3-Dichloropropene	Ave	0.2374	0.2896	0.2000	61.0	50.0	22.0*	20.0
Ethyl methacrylate	Ave	1.021	1.097	0.0100	53.7	50.0	7.5	20.0
1,1,2-Trichloroethane	Ave	0.1709	0.1773	0.1000	51.9	50.0	3.8	20.0
Tetrachloroethene	Ave	0.5904	0.6188	0.1000	52.4	50.0	4.8	20.0
1,3-Dichloropropane	Ave	1.330	1.388	0.0100	52.2	50.0	4.4	20.0
2-Hexanone	Ave	0.5514	0.5693	0.0100	207	200	3.3	20.0
Chlorodibromomethane	Ave	0.6578	0.7341	0.1000	55.8	50.0	11.6	20.0
1,2-Dibromoethane	Ave	0.7216	0.7740	0.1000	53.6	50.0	7.3	20.0
1-Chlorohexane	Ave	1.118	1.152	0.0100	41.2	40.0	3.0	20.0
Chlorobenzene	Ave	2.201	2.320	0.3000	52.7	50.0	5.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6504	0.7394	0.0100	56.8	50.0	13.7	20.0
Ethylbenzene	Ave	1.230	1.298	0.3000	52.8	50.0	5.5	20.0
m-Xylene & p-Xylene	Ave	1.483	1.624	0.1000	54.8	50.0	9.6	20.0
o-Xylene	Ave	1.449	1.582	0.2000	54.6	50.0	9.1	20.0
Styrene	Ave	2.348	2.627	0.2000	56.0	50.0	11.9	20.0
Bromoform	Ave	0.3919	0.4358	0.1000	55.6	50.0	11.2	20.0
Isopropylbenzene	Ave	2.292	2.434	0.3000	53.1	50.0	6.2	20.0
Cyclohexanone	Ave	0.0462	0.0436	0.0010	1420	1500	-5.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6461	0.6248	0.3000	48.4	50.0	-3.3	20.0
Bromobenzene	Ave	0.5347	0.5595	0.0100	52.3	50.0	4.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1401	0.1554	0.0100	55.5	50.0	10.9	20.0
1,2,3-Trichloropropane	Ave	0.2013	0.1830	0.0100	45.4	50.0	-9.1	20.0
N-Propylbenzene	Ave	0.6485	0.6830	0.0100	52.7	50.0	5.3	20.0
2-Chlorotoluene	Ave	0.5459	0.5632	0.0100	51.6	50.0	3.2	20.0
1,3,5-Trimethylbenzene	Ave	1.903	2.117	0.0100	55.6	50.0	11.3	20.0
4-Chlorotoluene	Ave	0.5663	0.6015	0.0100	53.1	50.0	6.2	20.0
tert-Butylbenzene	Ave	1.598	1.727	0.0100	54.0	50.0	8.0	20.0
1,2,4-Trimethylbenzene	Ave	1.942	2.169	0.3000	55.9	50.0	11.7	20.0
sec-Butylbenzene	Ave	0.4681	0.4971	0.0100	53.1	50.0	6.2	20.0
1,3-Dichlorobenzene	Ave	1.041	1.076	0.5000	51.7	50.0	3.4	20.0
4-Isopropyltoluene	Ave	1.958	2.139	0.0100	54.6	50.0	9.3	20.0
1,4-Dichlorobenzene	Ave	1.060	1.109	0.5000	52.3	50.0	4.6	20.0
n-Butylbenzene	Ave	1.749	1.948	0.0100	55.7	50.0	11.4	20.0
1,2-Dichlorobenzene	Ave	0.9392	1.004	0.5000	53.4	50.0	6.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0907	0.0100	44.9	50.0	-10.2	20.0
1,2,4-Trichlorobenzene	Ave	0.5022	0.4806	0.2000	47.9	50.0	-4.3	20.0
Hexachlorobutadiene	Ave	0.1913	0.1829	0.0100	47.8	50.0	-4.4	20.0
Naphthalene	Ave	1.215	1.112	0.0100	45.8	50.0	-8.5	20.0
1,2,3-Trichlorobenzene	Ave	0.3808	0.3317	0.3000	43.6	50.0	-12.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2024 09:17:30 ALS Bottle#: 52 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:34:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	2055066	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	482097	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	784656	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	480512	50.0	50.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	621289	50.0	51.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2118753	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	751158	50.0	49.7	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	472768	50.0	54.2	
10 Chloromethane	50	2.008	2.008	0.000	99	510813	50.0	47.6	
11 Vinyl chloride	62	2.134	2.134	0.000	98	563126	50.0	49.2	
13 Bromomethane	94	2.497	2.497	0.000	91	272481	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	343804	50.0	46.1	
15 Dichlorofluoromethane	67	2.860	2.860	0.000	97	895779	50.0	46.1	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	99	619162	50.0	49.8	
18 Ethyl ether	59	3.168	3.168	0.000	91	328010	50.0	51.1	
20 Acrolein	56	3.321	3.321	0.000	98	333030	493.8	615.8	
22 1,1-Dichloroethene	96	3.405	3.405	0.000	97	339853	50.0	51.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	95	261076	50.0	52.9	
23 Acetone	43	3.447	3.447	0.000	99	512885	200.0	200.0	
24 Iodomethane	142	3.559	3.559	0.000	99	403276	50.0	53.7	
26 Carbon disulfide	76	3.628	3.628	0.000	100	1053895	50.0	51.8	
28 Methyl acetate	43	3.740	3.740	0.000	98	604253	100.0	98.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	601947	50.0	54.1	
30 Methylene Chloride	84	3.894	3.894	0.000	94	402541	50.0	47.5	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	382345	500.0	540.2	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1598471	500.0	478.5	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	97	1160439	50.0	55.0	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	385977	50.0	52.8	
36 Hexane	57	4.383	4.383	0.000	94	591565	50.0	54.6	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1706978	100.0	118.9	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	96	735943	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
44 2-Butanone (MEK)	43	5.011	5.011	0.000	99	806241	200.0	200.7	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	438355	50.0	52.3	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	91	593720	50.0	61.7	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	731316	1200.0	1075.2	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	190090	50.0	50.1	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257638	100.0	93.8	
53 Chloroform	83	5.318	5.318	0.000	95	710654	50.0	55.5	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	589413	50.0	57.6	
57 Cyclohexane	56	5.542	5.542	0.000	92	732815	50.0	54.2	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	471797	50.0	59.3	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	576535	50.0	54.1	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	338861	1250.0	1329.8	
61 Benzene	78	5.793	5.793	0.000	97	1663849	50.0	52.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	577867	50.0	58.4	
64 n-Heptane	43	6.017	6.017	0.000	92	515578	50.0	57.1	
66 Trichloroethene	95	6.352	6.352	0.000	97	396983	50.0	51.9	
67 2-Pentanone	43	6.478	6.478	0.000	99	983508	160.0	165.4	
68 Methylcyclohexane	55	6.561	6.561	0.000	92	562978	50.0	56.7	
69 1,2-Dichloropropane	63	6.575	6.575	0.000	94	435645	50.0	52.2	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	109969	1000.0	899.4	
72 Dibromomethane	93	6.659	6.659	0.000	93	246001	50.0	54.7	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	516378	50.0	57.6	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	93	79355	50.0	53.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	652739	50.0	55.6	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1606619	200.0	214.6	
80 Toluene	91	7.483	7.483	0.000	97	1831572	50.0	53.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	595079	50.0	61.0	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	529005	50.0	53.7	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	91	364440	50.0	51.9	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	298305	50.0	52.4	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	669362	50.0	52.2	
91 2-Hexanone	43	8.042	8.042	0.000	96	1097856	200.0	206.5	
93 Chlorodibromomethane	129	8.223	8.223	0.000	90	353889	50.0	55.8	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	373154	50.0	53.6	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	444251	40.0	41.2	
97 Chlorobenzene	112	8.796	8.796	0.000	93	1118457	50.0	52.7	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	356452	50.0	56.8	
98 Ethylbenzene	106	8.880	8.880	0.000	99	625802	50.0	52.8	
100 m-Xylene & p-Xylene	106	9.005	9.005	0.000	0	783122	50.0	54.8	
101 o-Xylene	106	9.369	9.369	0.000	97	762493	50.0	54.6	
103 Styrene	104	9.397	9.397	0.000	95	1266645	50.0	56.0	
104 Bromoform	173	9.578	9.578	0.000	94	210091	50.0	55.6	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1909743	50.0	53.1	
107 Cyclohexanone	55	9.829	9.829	0.000	93	630432	1500.0	1416.7	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	490267	50.0	48.4	
109 Bromobenzene	156	10.053	10.053	0.000	97	438981	50.0	52.3	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	73	121965	50.0	55.5	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	143559	50.0	45.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	535893	50.0	52.7	
113 2-Chlorotoluene	126	10.234	10.234	0.000	96	441957	50.0	51.6	
114 1,3,5-Trimethylbenzene	105	10.304	10.304	0.000	93	1660845	50.0	55.6	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	471962	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
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1354946	50.0	54.0	
117 1,2,4-Trimethylbenzene	105	10.681	10.681	0.000	97	1702006	50.0	55.9	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	390050	50.0	53.1	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	844378	50.0	51.7	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1678508	50.0	54.6	
121 1,4-Dichlorobenzene	146	11.072	11.072	0.000	94	870098	50.0	52.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1528769	50.0	55.7	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	787816	50.0	53.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	79	71170	50.0	44.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	93	377128	50.0	47.9	
129 Hexachlorobutadiene	225	13.195	13.195	0.000	96	143496	50.0	47.8	
130 Naphthalene	128	13.335	13.335	0.000	97	872261	50.0	45.8	
132 1,2,3-Trichlorobenzene	180	13.558	13.558	0.000	95	260296	50.0	43.6	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	105.1	
S 154 1,3-Dichloropropene, Total	1				0		100.0	116.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	105.1	
S 152 Trihalomethanes, Total	1				0		200.0	224.6	
S 150 Xylenes, Total (URS)	1				0		100.0	109.3	
S 148 Xylenes, Total	106				0		100.0	109.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00191	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

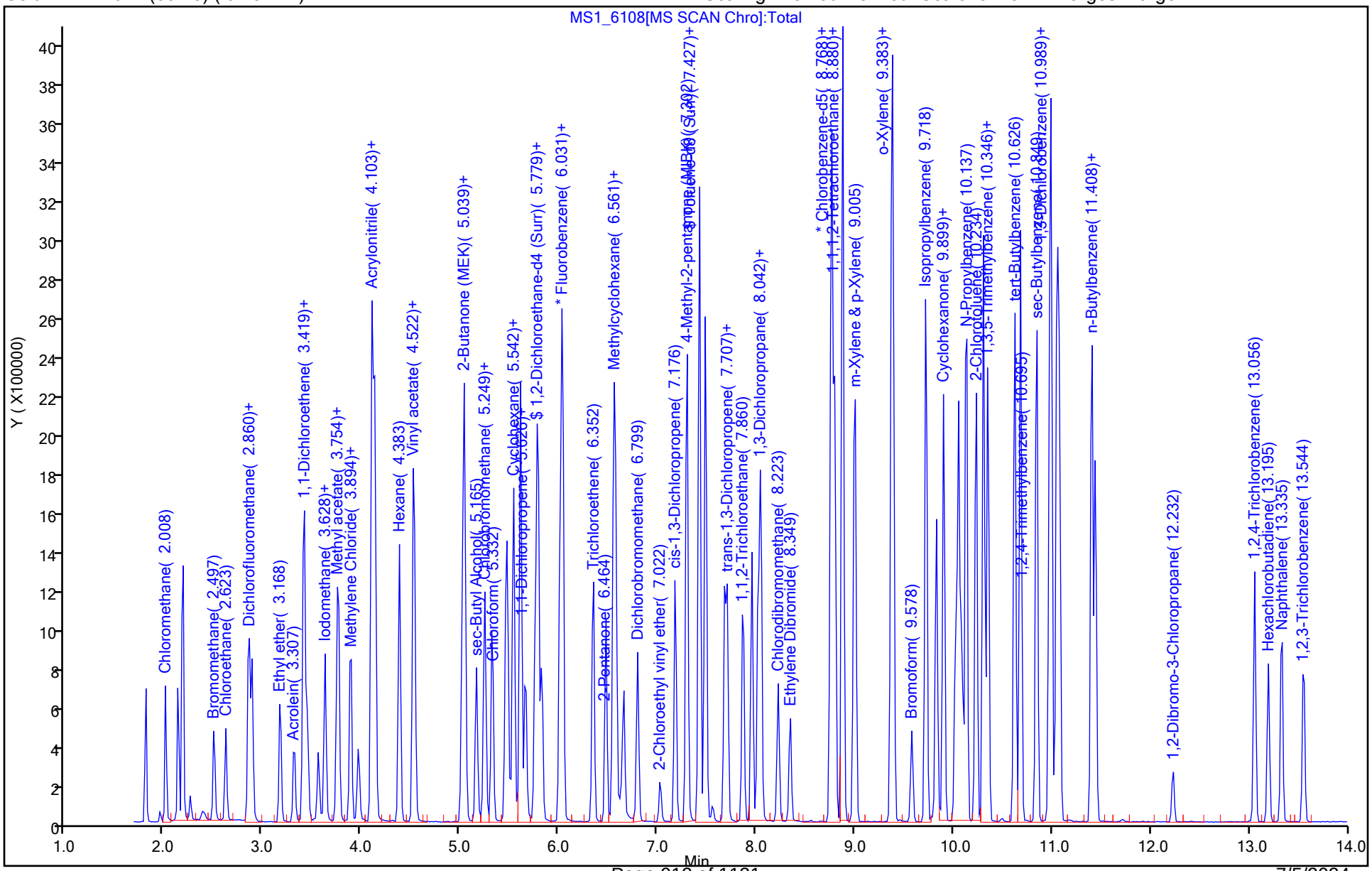
Report Date: 02-Jul-2024 15:56:15 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108.D

Injection Date:	02-Jul-2024 09:17:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-659045/3 Calibration Date: 07/02/2024 09:17

Instrument ID: VMS_MS1 Calib Start Date: 06/26/2024 03:10

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/26/2024 06:01

Lab File ID: MS1_6108.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	Ave	0.2124	0.2301	0.1000	54.2	50.0	8.3	20.0
Chloromethane	Ave	0.2610	0.2486	0.1000	47.6	50.0	-4.8	20.0
Vinyl chloride	Ave	0.2782	0.2740	0.0100	49.2	50.0	-1.5	20.0
Bromomethane	Lin1		0.1326	0.0100	48.5	50.0	-3.0	20.0
Chloroethane	Ave	0.1814	0.1673	0.0100	46.1	50.0	-7.8	20.0
Dichlorofluoromethane	Ave	0.4725	0.4359	0.0100	46.1	50.0	-7.7	20.0
Trichlorofluoromethane	Ave	0.3025	0.3013	0.0100	49.8	50.0	-0.4	20.0
2-Chloroethyl vinyl ether	Ave	0.0361	0.0386	0.0100	53.4	50.0	6.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2312	0.2338	0.0100	50.6	50.0	1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2944	0.3023	0.0100	51.3	50.0	2.7	20.0
Toluene-d8 (Surr)	Ave	4.406	4.395	0.0100	49.9	50.0	-0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9622	0.9573	0.0100	49.7	50.0	-0.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2024 09:17:30 ALS Bottle#: 52 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv
Operator ID: go Instrument ID: VMS_MS1
Sublist: chrom-AQ_VMS1_8260*sub164

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:34:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	2055066	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	482097	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	784656	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	480512	50.0	50.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	621289	50.0	51.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2118753	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	751158	50.0	49.7	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	472768	50.0	54.2	
10 Chloromethane	50	2.008	2.008	0.000	99	510813	50.0	47.6	
11 Vinyl chloride	62	2.134	2.134	0.000	98	563126	50.0	49.2	
13 Bromomethane	94	2.497	2.497	0.000	91	272481	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	343804	50.0	46.1	
15 Dichlorofluoromethane	67	2.860	2.860	0.000	97	895779	50.0	46.1	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	99	619162	50.0	49.8	
18 Ethyl ether	59	3.168	3.168	0.000	91	328010	50.0	51.1	
20 Acrolein	56	3.321	3.321	0.000	98	333030	493.8	615.8	
22 1,1-Dichloroethene	96	3.405	3.405	0.000	97	339853	50.0	51.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	95	261076	50.0	52.9	
23 Acetone	43	3.447	3.447	0.000	99	512885	200.0	200.0	
24 Iodomethane	142	3.559	3.559	0.000	99	403276	50.0	53.7	
26 Carbon disulfide	76	3.628	3.628	0.000	100	1053895	50.0	51.8	
28 Methyl acetate	43	3.740	3.740	0.000	98	604253	100.0	98.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	601947	50.0	54.1	
30 Methylene Chloride	84	3.894	3.894	0.000	94	402541	50.0	47.5	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	382345	500.0	540.2	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1598471	500.0	478.5	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	97	1160439	50.0	55.0	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	385977	50.0	52.8	
36 Hexane	57	4.383	4.383	0.000	94	591565	50.0	54.6	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1706978	100.0	118.9	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	96	735943	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
44 2-Butanone (MEK)	43	5.011	5.011	0.000	99	806241	200.0	200.7	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	438355	50.0	52.3	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	91	593720	50.0	61.7	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	731316	1200.0	1075.2	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	190090	50.0	50.1	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257638	100.0	93.8	
53 Chloroform	83	5.318	5.318	0.000	95	710654	50.0	55.5	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	589413	50.0	57.6	
57 Cyclohexane	56	5.542	5.542	0.000	92	732815	50.0	54.2	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	471797	50.0	59.3	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	576535	50.0	54.1	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	338861	1250.0	1329.8	
61 Benzene	78	5.793	5.793	0.000	97	1663849	50.0	52.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	577867	50.0	58.4	
64 n-Heptane	43	6.017	6.017	0.000	92	515578	50.0	57.1	
66 Trichloroethene	95	6.352	6.352	0.000	97	396983	50.0	51.9	
67 2-Pentanone	43	6.478	6.478	0.000	99	983508	160.0	165.4	
68 Methylcyclohexane	55	6.561	6.561	0.000	92	562978	50.0	56.7	
69 1,2-Dichloropropane	63	6.575	6.575	0.000	94	435645	50.0	52.2	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	109969	1000.0	899.4	
72 Dibromomethane	93	6.659	6.659	0.000	93	246001	50.0	54.7	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	516378	50.0	57.6	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	93	79355	50.0	53.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	652739	50.0	55.6	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1606619	200.0	214.6	
80 Toluene	91	7.483	7.483	0.000	97	1831572	50.0	53.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	595079	50.0	61.0	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	529005	50.0	53.7	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	91	364440	50.0	51.9	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	298305	50.0	52.4	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	669362	50.0	52.2	
91 2-Hexanone	43	8.042	8.042	0.000	96	1097856	200.0	206.5	
93 Chlorodibromomethane	129	8.223	8.223	0.000	90	353889	50.0	55.8	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	373154	50.0	53.6	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	444251	40.0	41.2	
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99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	356452	50.0	56.8	
98 Ethylbenzene	106	8.880	8.880	0.000	99	625802	50.0	52.8	
100 m-Xylene & p-Xylene	106	9.005	9.005	0.000	0	783122	50.0	54.8	
101 o-Xylene	106	9.369	9.369	0.000	97	762493	50.0	54.6	
103 Styrene	104	9.397	9.397	0.000	95	1266645	50.0	56.0	
104 Bromoform	173	9.578	9.578	0.000	94	210091	50.0	55.6	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1909743	50.0	53.1	
107 Cyclohexanone	55	9.829	9.829	0.000	93	630432	1500.0	1416.7	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	490267	50.0	48.4	
109 Bromobenzene	156	10.053	10.053	0.000	97	438981	50.0	52.3	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	73	121965	50.0	55.5	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	143559	50.0	45.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	535893	50.0	52.7	
113 2-Chlorotoluene	126	10.234	10.234	0.000	96	441957	50.0	51.6	
114 1,3,5-Trimethylbenzene	105	10.304	10.304	0.000	93	1660845	50.0	55.6	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	471962	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
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117 1,2,4-Trimethylbenzene	105	10.681	10.681	0.000	97	1702006	50.0	55.9	
118 sec-Butylbenzene	134	10.849	10.849	0.000	94	390050	50.0	53.1	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	844378	50.0	51.7	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1678508	50.0	54.6	
121 1,4-Dichlorobenzene	146	11.072	11.072	0.000	94	870098	50.0	52.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1528769	50.0	55.7	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	787816	50.0	53.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	79	71170	50.0	44.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	93	377128	50.0	47.9	
129 Hexachlorobutadiene	225	13.195	13.195	0.000	96	143496	50.0	47.8	
130 Naphthalene	128	13.335	13.335	0.000	97	872261	50.0	45.8	
132 1,2,3-Trichlorobenzene	180	13.558	13.558	0.000	95	260296	50.0	43.6	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	105.1	
S 154 1,3-Dichloropropene, Total	1				0		100.0	116.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	105.1	
S 152 Trihalomethanes, Total	1				0		200.0	224.6	
S 150 Xylenes, Total (URS)	1				0		100.0	109.3	
S 148 Xylenes, Total	106				0		100.0	109.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00191	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

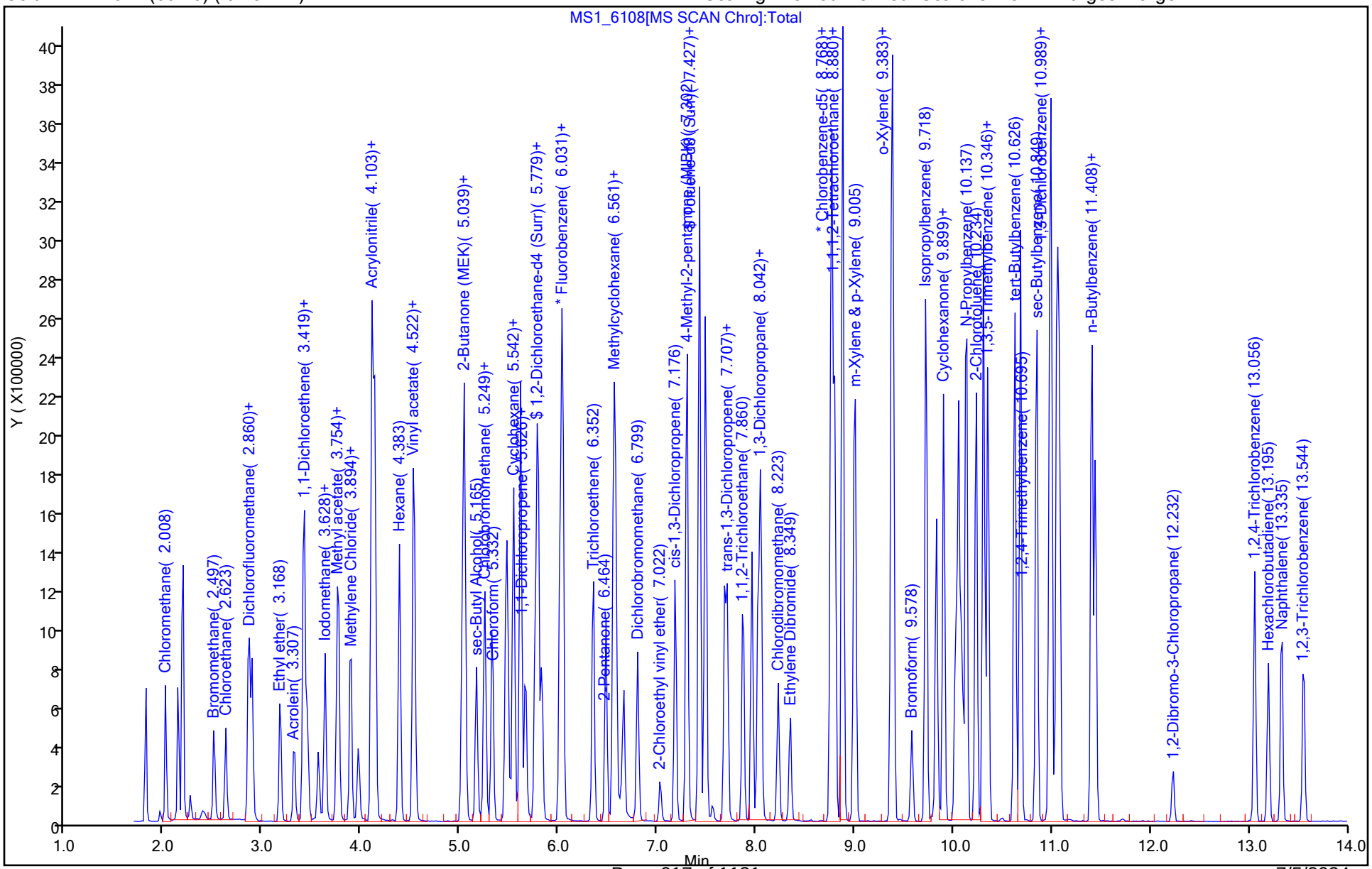
Report Date: 02-Jul-2024 15:56:15 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108.D

Injection Date:	02-Jul-2024 09:17:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657950/23 | Calibration Date: 06/24/2024 17:50

Instrument ID: VMS_P | Calib Start Date: 06/24/2024 14:25

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/24/2024 17:10

Lab File ID: P86610.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	Ave	0.0828	0.0919*	0.1000	55.5	50.0	10.9	30.0
Chloromethane	Ave	0.3240	0.3396	0.1000	52.4	50.0	4.8	30.0
Vinyl chloride	Ave	0.4377	0.4811	0.0100	55.0	50.0	9.9	30.0
Bromomethane	Ave	0.4538	0.5503	0.0100	60.6	50.0	21.3	30.0
Chloroethane	Ave	0.2162	0.2248	0.0100	52.0	50.0	4.0	30.0
Dichlorofluoromethane	Ave	0.5167	0.5010	0.0100	48.5	50.0	-3.1	30.0
Trichlorofluoromethane	Ave	0.3509	0.3578	0.0100	51.0	50.0	1.9	30.0
Ethyl ether	Ave	0.2019	0.2067	0.0100	51.2	50.0	2.4	30.0
Acrolein	Ave	0.0313	0.0148	0.0010	233	494	-52.7*	30.0
1,1-Dichloroethene	Ave	0.2472	0.2640	0.0600	53.4	50.0	6.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1902	0.2153	0.0500	56.6	50.0	13.2	30.0
Acetone	Lin2		0.0639	0.0100	186	200	-7.0	30.0
Iodomethane	Lin1		0.2636	0.0100	44.7	50.0	-10.7	30.0
Carbon disulfide	Ave	0.8011	0.8676	0.1000	54.1	50.0	8.3	30.0
Allyl chloride	Ave	0.2783	0.2815	0.0100	50.6	50.0	1.1	30.0
Methyl acetate	Ave	0.1688	0.1615	0.0100	95.7	100	-4.3	30.0
Methylene Chloride	Ave	0.3086	0.2983	0.0100	48.3	50.0	-3.3	30.0
2-Methyl-2-propanol	Ave	0.0254	0.0272	0.0010	534	500	6.9	30.0
Acrylonitrile	Ave	0.1013	0.1024	0.0100	505	500	1.0	30.0
trans-1,2-Dichloroethene	Ave	0.2771	0.2947	0.1000	53.2	50.0	6.4	30.0
Methyl tert-butyl ether	Ave	0.7780	0.7883	0.1000	50.7	50.0	1.3	30.0
Hexane	Ave	1.336	1.476	0.0100	55.2	50.0	10.5	30.0
Vinyl acetate	Ave	0.4220	0.5139	0.0100	122	100	21.8	30.0
1,1-Dichloroethane	Ave	0.4834	0.5028	0.1000	52.0	50.0	4.0	30.0
cis-1,2-Dichloroethene	Ave	0.3137	0.3311	0.1000	52.8	50.0	5.5	30.0
2,2-Dichloropropane	Ave	0.4124	0.4487	0.0100	54.4	50.0	8.8	30.0
2-Butanone (MEK)	Ave	0.1210	0.1105	0.0100	183	200	-8.7	30.0
sec-Butyl Alcohol	Lin1		0.0187	0.0100	1110	1200	-7.3	30.0
Chlorobromomethane	Ave	0.1377	0.1460	0.0500	53.0	50.0	6.1	30.0
Chloroform	Ave	0.4908	0.4941	0.2000	50.3	50.0	0.7	30.0
Tetrahydrofuran	Ave	0.0701	0.0638	0.0010	91.0	100	-9.0	30.0
1,1,1-Trichloroethane	Ave	0.3944	0.4217	0.0500	53.5	50.0	6.9	30.0
Cyclohexane	Ave	0.3989	0.4192	0.0100	52.5	50.0	5.1	30.0
1,1-Dichloropropene	Ave	0.3679	0.3969	0.0100	53.9	50.0	7.9	30.0
Carbon tetrachloride	Ave	0.3213	0.3726	0.1000	58.0	50.0	16.0	30.0
Isobutyl alcohol	Ave	0.0069	0.0070	0.0010	1270	1250	1.7	30.0
Benzene	Ave	1.100	1.141	0.2000	51.9	50.0	3.8	30.0
1,2-Dichloroethane	Ave	0.3644	0.3588	0.0700	49.2	50.0	-1.5	30.0
n-Heptane	Ave	0.2573	0.2602		50.6	50.0	1.1	20.0
Trichloroethene	Ave	1.160	1.142	0.2000	49.2	50.0	-1.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657950/23 | Calibration Date: 06/24/2024 17:50

Instrument ID: VMS_P | Calib Start Date: 06/24/2024 14:25

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/24/2024 17:10

Lab File ID: P86610.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	0.1729	0.1655	0.0010	153	160	-4.2	30.0
1,2-Dichloropropane	Ave	0.2865	0.2908	0.1000	50.8	50.0	1.5	30.0
Methylcyclohexane	Ave	0.3087	0.3167	0.0500	51.3	50.0	2.6	30.0
Dibromomethane	Ave	0.1944	0.1923	0.0100	49.5	50.0	-1.1	30.0
1,4-Dioxane	Ave	0.0038	0.0039	0.0010	1020	1000	2.2	30.0
Dichlorobromomethane	Ave	0.3550	0.3805	0.2000	53.6	50.0	7.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1655	0.1674	0.0100	50.6	50.0	1.1	30.0
cis-1,3-Dichloropropene	Ave	1.738	1.883	0.2000	54.2	50.0	8.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2358	0.2352	0.0300	200	200	-0.2	30.0
Toluene	Ave	1.262	1.254	0.3000	49.7	50.0	-0.6	30.0
trans-1,3-Dichloropropene	Ave	0.4176	0.4354	0.2000	52.1	50.0	4.3	30.0
Ethyl methacrylate	Ave	1.290	1.388	0.0100	53.8	50.0	7.6	30.0
1,1,2-Trichloroethane	Ave	0.2497	0.2599	0.1000	52.0	50.0	4.1	30.0
Tetrachloroethene	Ave	0.8898	0.9267	0.1000	52.1	50.0	4.1	30.0
1,3-Dichloropropane	Ave	1.734	1.753	0.0100	50.6	50.0	1.1	30.0
2-Hexanone	Ave	0.6746	0.6469	0.0100	192	200	-4.1	30.0
Chlorodibromomethane	Ave	1.077	1.180	0.1000	54.8	50.0	9.6	30.0
1,2-Dibromoethane	Ave	1.090	1.128	0.1000	51.8	50.0	3.5	30.0
1-Chlorohexane	Ave	1.673	1.654	0.0100	39.5	40.0	-1.1	30.0
Chlorobenzene	Ave	3.224	3.247	0.3000	50.4	50.0	0.7	30.0
1,1,1,2-Tetrachloroethane	Ave	1.067	1.173	0.0100	55.0	50.0	9.9	30.0
Ethylbenzene	Ave	1.713	1.804	0.3000	52.7	50.0	5.3	30.0
m-Xylene & p-Xylene	Ave	2.078	2.141	0.1000	51.5	50.0	3.1	30.0
o-Xylene	Ave	2.087	2.206	0.2000	52.9	50.0	5.7	30.0
Styrene	Ave	3.604	3.764	0.2000	52.2	50.0	4.4	30.0
Bromoform	Ave	0.7048	0.8270	0.1000	58.7	50.0	17.3	30.0
Isopropylbenzene	Ave	3.193	3.176	0.3000	49.7	50.0	-0.5	30.0
Cyclohexanone	Ave	0.0659	0.0551	0.0010	1250	1500	-16.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8685	0.8705	0.3000	50.1	50.0	0.2	30.0
Bromobenzene	Ave	0.8454	0.8481	0.0100	50.2	50.0	0.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.2264	0.0100	47.7	50.0	-4.5	30.0
1,2,3-Trichloropropane	Ave	0.2529	0.2534	0.0100	50.1	50.0	0.2	30.0
N-Propylbenzene	Ave	0.8828	0.9217	0.0100	52.2	50.0	4.4	30.0
2-Chlorotoluene	Ave	0.7748	0.7918	0.0100	51.1	50.0	2.2	30.0
1,3,5-Trimethylbenzene	Ave	2.646	2.705	0.0100	51.1	50.0	2.2	30.0
4-Chlorotoluene	Ave	0.8135	0.8441	0.0100	51.9	50.0	3.8	30.0
tert-Butylbenzene	Ave	2.241	2.295	0.0100	51.2	50.0	2.4	30.0
1,2,4-Trimethylbenzene	Ave	2.721	2.817	0.3000	51.8	50.0	3.5	30.0
sec-Butylbenzene	Ave	0.6687	0.7009	0.0100	52.4	50.0	4.8	30.0
1,3-Dichlorobenzene	Ave	1.582	1.618	0.5000	51.1	50.0	2.2	30.0
4-Isopropyltoluene	Ave	2.836	3.028	0.0100	53.4	50.0	6.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-657950/23 Calibration Date: 06/24/2024 17:50

Instrument ID: VMS_P Calib Start Date: 06/24/2024 14:25

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/24/2024 17:10

Lab File ID: P86610.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	1.650	1.630	0.5000	49.4	50.0	-1.2	30.0
n-Butylbenzene	Ave	2.717	2.766	0.0100	50.9	50.0	1.8	30.0
1,2-Dichlorobenzene	Ave	1.499	1.505	0.5000	50.2	50.0	0.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1316	0.1556	0.0100	59.1	50.0	18.2	30.0
1,2,4-Trichlorobenzene	Ave	0.8201	0.8210	0.2000	50.1	50.0	0.1	30.0
Hexachlorobutadiene	Ave	0.3314	0.3279	0.0100	49.5	50.0	-1.1	30.0
Naphthalene	Ave	1.828	1.767	0.0100	48.3	50.0	-3.4	30.0
1,2,3-Trichlorobenzene	Ave	0.5289	0.5250	0.3000	49.6	50.0	-0.7	30.0
Dibromofluoromethane (Surr)	Ave	0.2584	0.2596	0.0100	50.2	50.0	0.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2538	0.2432	0.0100	47.9	50.0	-4.2	30.0
Toluene-d8 (Surr)	Ave	4.036	3.958	0.0100	49.0	50.0	-1.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8193	0.7679	0.0100	46.9	50.0	-6.3	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86610.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2024 17:50:30 ALS Bottle#: 12 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: BJ Instrument ID: VMS_P
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2024 13:47:16 Calib Date: 24-Jun-2024 17:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1624

First Level Reviewer: RWB2 Date: 25-Jun-2024 13:47:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1248543	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.443	0.000	84	313287	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	94	540168	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	324071	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	303681	50.0	47.9	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1239958	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	94	414793	50.0	46.9	
9 Dichlorodifluoromethane	85	1.626	1.632	-0.006	86	114727	50.0	55.5	
10 Chloromethane	50	1.801	1.801	0.000	99	424040	50.0	52.4	
11 Vinyl chloride	62	1.883	1.883	0.000	98	600661	50.0	55.0	
12 Bromomethane	94	2.150	2.150	0.000	92	687131	50.0	60.6	
13 Chloroethane	64	2.232	2.232	0.000	99	280667	50.0	52.0	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	625496	50.0	48.5	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	446711	50.0	51.0	
17 Ethyl ether	59	2.663	2.663	0.000	87	258100	50.0	51.2	
18 Acrolein	56	2.750	2.756	-0.006	99	182348	493.8	233.4	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	329561	50.0	53.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.827	2.826	0.001	90	268786	50.0	56.6	
21 Acetone	43	2.870	2.870	0.000	99	318959	200.0	185.9	
23 Iodomethane	142	2.936	2.936	0.000	99	329173	50.0	44.7	
24 Carbon disulfide	76	2.996	2.996	0.000	100	1083202	50.0	54.1	
26 3-Chloro-1-propene	41	3.078	3.077	0.001	80	351474	50.0	50.6	
25 Methyl acetate	43	3.083	3.088	-0.005	96	403336	100.0	95.7	
28 Methylene Chloride	84	3.170	3.170	0.000	88	372453	50.0	48.3	
29 2-Methyl-2-propanol	59	3.268	3.268	0.000	99	339559	500.0	534.4	
30 Acrylonitrile	53	3.329	3.334	-0.006	99	1278200	500.0	505.2	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	368005	50.0	53.2	
31 Methyl tert-butyl ether	73	3.389	3.389	0.001	93	984180	50.0	50.7	
33 Hexane	57	3.552	3.552	0.000	88	462561	50.0	55.2	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1283200	100.0	121.8	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	627786	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
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	80	413344	50.0	52.8	
39 2-Butanone (MEK)	43	4.081	4.081	0.000	98	551666	200.0	182.6	
42 2,2-Dichloropropane	77	4.081	4.087	-0.006	88	560283	50.0	54.4	
44 sec-Butyl Alcohol	45	4.212	4.212	0.000	98	560234	1200.0	1112.6	
46 Chlorobromomethane	128	4.245	4.245	0.000	90	182345	50.0	53.0	
48 Chloroform	83	4.305	4.305	0.000	94	616850	50.0	50.3	
47 Tetrahydrofuran	42	4.316	4.316	0.000	80	159290	100.0	91.0	
49 1,1,1-Trichloroethane	97	4.453	4.452	0.001	98	526570	50.0	53.5	
50 Cyclohexane	56	4.513	4.513	0.000	87	523403	50.0	52.5	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	98	495554	50.0	53.9	
52 Carbon tetrachloride	117	4.573	4.573	0.000	96	465254	50.0	58.0	
55 Isobutyl alcohol	41	4.622	4.622	0.000	92	218469	1250.0	1270.8	
53 Benzene	78	4.714	4.714	0.000	95	1425208	50.0	51.9	
54 1,2-Dichloroethane	62	4.736	4.736	0.000	97	447938	50.0	49.2	
57 n-Heptane	43	4.900	4.900	0.000	84	324810	50.0	50.6	
59 Trichloroethene	95	5.200	5.200	0.000	97	357761	50.0	49.2	
60 2-Pentanone	43	5.326	5.326	0.000	97	661346	160.0	153.2	
61 Methylcyclohexane	55	5.391	5.391	0.000	87	395358	50.0	51.3	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	93	363125	50.0	50.8	
65 Dibromomethane	93	5.467	5.467	0.000	95	240137	50.0	49.5	
64 1,4-Dioxane	88	5.500	5.500	0.000	87	97738	1000.0	1022.4	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	475018	50.0	53.6	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	209015	50.0	50.6	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	590032	50.0	54.2	
70 4-Methyl-2-pentanone (MIBK)	43	6.068	6.068	0.000	95	1174735	200.0	199.6	
71 Toluene	91	6.231	6.231	0.000	98	1565600	50.0	49.7	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	543616	50.0	52.1	
73 Ethyl methacrylate	69	6.450	6.450	0.000	85	434955	50.0	53.8	
74 1,1,2-Trichloroethane	97	6.570	6.570	0.000	91	324500	50.0	52.0	
75 Tetrachloroethene	164	6.679	6.679	0.000	96	290315	50.0	52.1	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	549312	50.0	50.6	
77 2-Hexanone	43	6.766	6.766	0.000	93	810646	200.0	191.8	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	369792	50.0	54.8	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	353400	50.0	51.8	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	414647	40.0	39.5	
81 Chlorobenzene	112	7.470	7.470	0.000	96	1017332	50.0	50.4	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	96	367478	50.0	55.0	
83 Ethylbenzene	106	7.546	7.546	0.000	98	565109	50.0	52.7	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	670884	50.0	51.5	
85 o-Xylene	106	8.026	8.026	0.000	96	691221	50.0	52.9	
86 Styrene	104	8.043	8.043	0.000	95	1179067	50.0	52.2	
87 Bromoform	173	8.217	8.217	0.000	94	259082	50.0	58.7	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1715467	50.0	49.7	
90 Cyclohexanone	55	8.490	8.490	0.000	90	517720	1500.0	1253.1	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	470240	50.0	50.1	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	64	122318	50.0	47.7	
94 Bromobenzene	156	8.687	8.687	0.000	96	458107	50.0	50.2	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	136871	50.0	50.1	
96 N-Propylbenzene	120	8.769	8.768	0.000	99	497861	50.0	52.2	
97 2-Chlorotoluene	126	8.867	8.867	0.000	97	427698	50.0	51.1	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1461284	50.0	51.1	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	455941	50.0	51.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 tert-Butylbenzene	119	9.249	9.249	0.000	92	1239537	50.0	51.2	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	97	1521649	50.0	51.8	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	378619	50.0	52.4	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	99	873808	50.0	51.1	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1635646	50.0	53.4	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	880586	50.0	49.4	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1493957	50.0	50.9	
108 1,2-Dichlorobenzene	146	10.051	10.056	-0.005	98	813045	50.0	50.2	
109 1,2-Dibromo-3-Chloropropane	157	10.826	10.826	0.000	88	84043	50.0	59.1	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	443486	50.0	50.1	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	177116	50.0	49.5	
113 Naphthalene	128	11.928	11.928	0.000	97	954217	50.0	48.3	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	283568	50.0	49.6	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	106.0	
S 119 Xylenes, Total (URS)	1				0		100.0	104.4	
S 120 Trihalomethanes, Total	1				0		200.0	217.4	
S 122 Xylenes, Total	106				0		100.0	104.4	
S 123 1,2-Dichloroethene, Total	1				0		100.0	106.0	
S 124 1,3-Dichloropropene, Total	1				0		100.0	106.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00191	Amount Added: 10.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

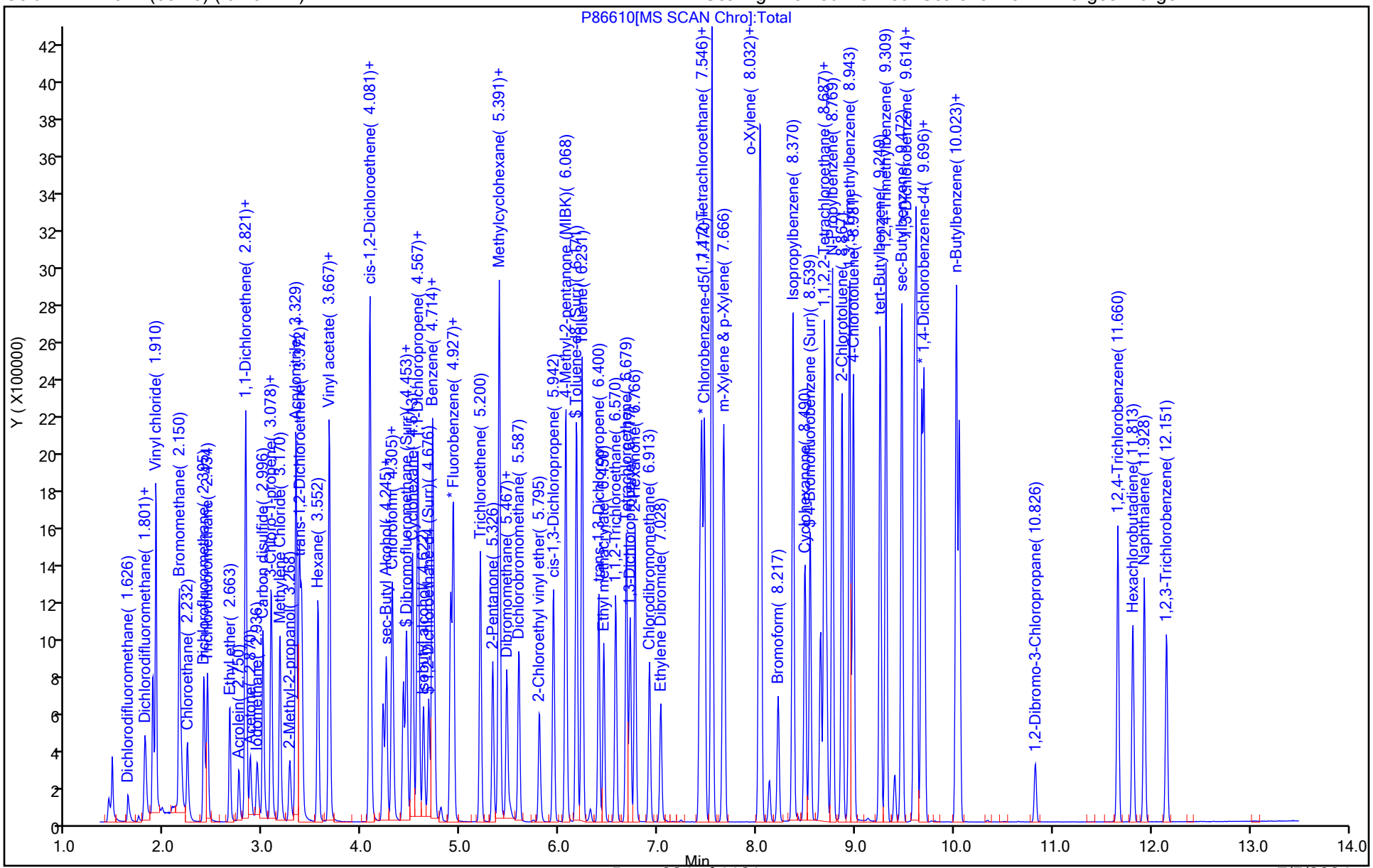
Report Date: 25-Jun-2024 13:47:17 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86610.D

Injection Date:	24-Jun-2024 17:50:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	ICV			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-658360/24 | Calibration Date: 06/26/2024 11:02

Instrument ID: VMS_P | Calib Start Date: 06/25/2024 18:27

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/25/2024 21:11

Lab File ID: P86675.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		0.1793	0.1000	38.7	50.0	-22.6	30.0
Chloromethane	Lin1		0.4113	0.1000	40.5	50.0	-19.1	30.0
Vinyl chloride	Lin1		0.5257	0.0100	41.4	50.0	-17.2	30.0
Bromomethane	Lin2		0.4724	0.0100	41.4	50.0	-17.2	30.0
Chloroethane	Lin1		0.2076	0.0100	41.0	50.0	-17.9	30.0
Dichlorofluoromethane	Ave	0.5459	0.4615	0.0100	42.3	50.0	-15.5	30.0
Trichlorofluoromethane	Ave	0.3972	0.3234	0.0100	40.7	50.0	-18.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1564	0.1560	0.0100	49.9	50.0	-0.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2654	0.2574	0.0100	48.5	50.0	-3.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2481	0.2441	0.0100	49.2	50.0	-1.6	30.0
Toluene-d8 (Surr)	Ave	4.056	4.046	0.0100	49.9	50.0	-0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7679	0.8324	0.0100	54.2	50.0	8.4	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86675.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 26-Jun-2024 11:02:30 ALS Bottle#: 2 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: GAS
Operator ID: GO Instrument ID: VMS_P
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 26-Jun-2024 11:34:42 Calib Date: 25-Jun-2024 21:11:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86670.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: Q2ZS Date: 26-Jun-2024 11:19:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1080136	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.448	7.448	0.000	84	265758	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	398988	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	278055	50.0	48.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	263689	50.0	49.2	
$ 6 Toluene-d8 (Surr)	98	6.171	6.177	-0.006	93	1075376	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.545	-0.006	95	332101	50.0	54.2	
9 Dichlorodifluoromethane	85	1.626	1.631	-0.005	87	193690	50.0	38.7	
10 Chloromethane	50	1.806	1.801	0.005	99	444306	50.0	40.5	
11 Vinyl chloride	62	1.882	1.882	0.000	98	567814	50.0	41.4	
12 Bromomethane	94	2.161	2.155	0.006	93	510224	50.0	41.4	
13 Chloroethane	64	2.232	2.232	0.000	99	224188	50.0	41.0	
14 Dichlorofluoromethane	67	2.395	2.401	-0.006	97	498457	50.0	42.3	
15 Trichlorofluoromethane	101	2.434	2.433	0.001	98	349338	50.0	40.7	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	89	168503	50.0	49.9	

QC Flag Legend
Processing Flags

Reagents:
MV-Gas A_00191 Amount Added: 10.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

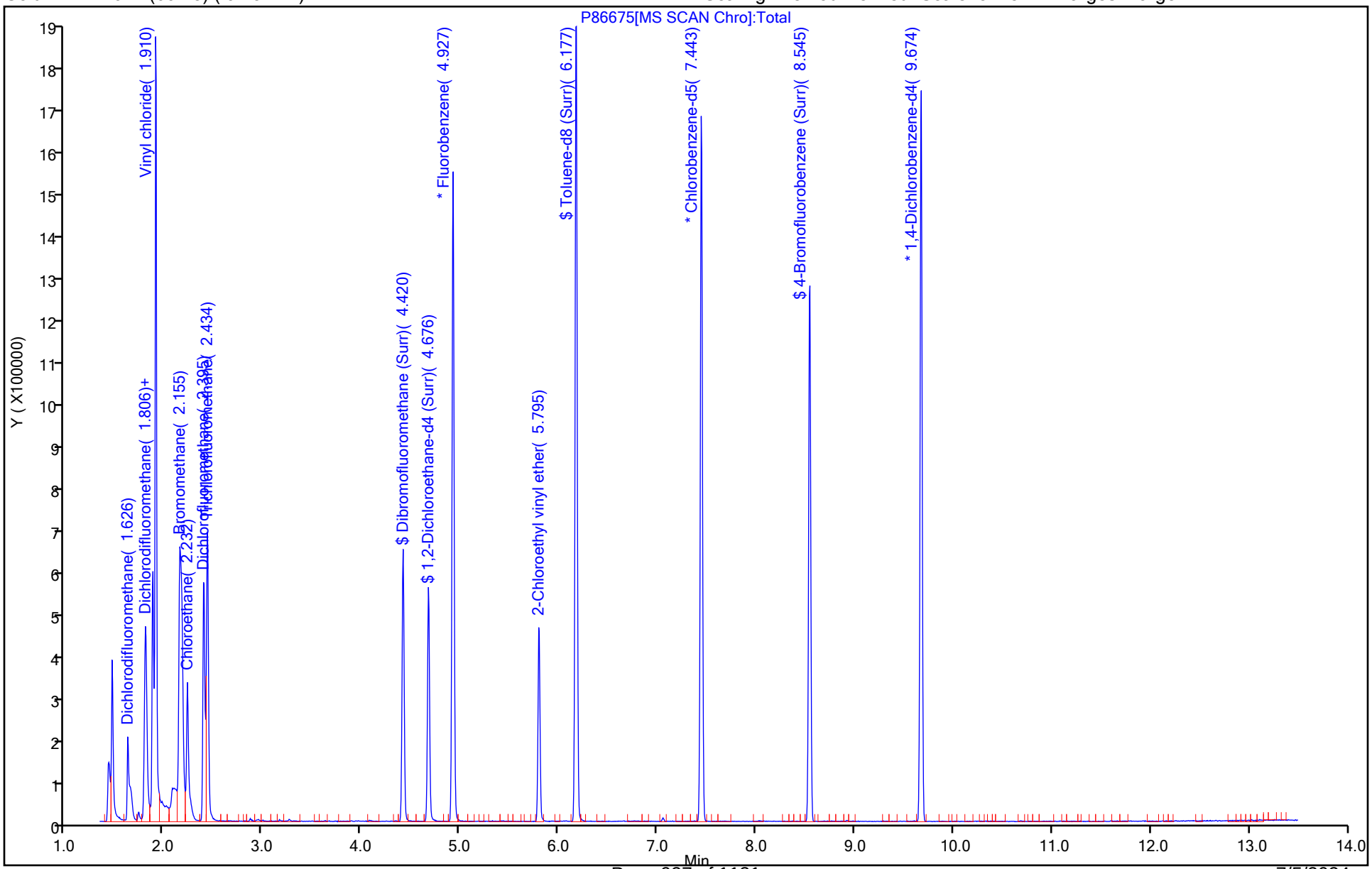
Report Date: 26-Jun-2024 11:34:44 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240625-134884.b\P86675.D

Injection Date:	26-Jun-2024 11:02:30	Instrument ID:	VMS_P	Operator ID:	GO
Lims ID:	icv			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: ICV 280-658449/21 Calibration Date: 06/26/2024 19:44

Instrument ID: VMS_P Calib Start Date: 06/26/2024 13:21

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/26/2024 19:03

Lab File ID: P86693.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	0.0025	0.0024*	0.0100	2870	3000	-4.3	30.0
Isopropyl alcohol	Ave	0.0141	0.0130	0.0100	459	500	-8.2	30.0
Acetonitrile	Lin2		0.0273	0.0100	521	500	4.2	30.0
Isopropyl ether	Ave	0.2238	0.2445	0.0100	54.6	50.0	9.2	30.0
Chloroprene	Ave	0.3349	0.3404	0.0100	50.8	50.0	1.7	30.0
Tert-butyl ethyl ether	Ave	0.6863	0.7241	0.0100	52.8	50.0	5.5	30.0
Ethyl acetate	Ave	0.2271	0.2167	0.0100	95.4	100	-4.6	30.0
Propionitrile	Ave	0.0360	0.0380	0.0100	529	500	5.7	30.0
Methacrylonitrile	Ave	0.1352	0.1404	0.0100	519	500	3.8	30.0
Tert-amyl methyl ether	Ave	0.7252	0.7808	0.0100	53.8	50.0	7.7	30.0
n-Butanol	Ave	0.0066	0.0067*	0.0100	1260	1250	0.7	30.0
Methyl methacrylate	Ave	0.0772	0.0783	0.0100	101	100	1.5	30.0
2-Nitropropane	Ave	0.0517	0.0570	0.0100	110	100	10.4	30.0
cis-1,4-Dichloro-2-butene	Ave	0.2211	0.2150	0.0100	97.2	100	-2.8	30.0
1,2,3-Trimethylbenzene	Ave	2.654	2.809	0.0100	52.9	50.0	5.9	30.0
1,3,5-Trichlorobenzene	Ave	0.9709	1.027	0.0100	52.9	50.0	5.7	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86693.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 26-Jun-2024 19:44:30 ALS Bottle#: 14 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: COULTER Instrument ID: VMS_P
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 27-Jun-2024 13:35:13 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1023021	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.443	-0.001	85	254354	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	407567	50.0	50.0	
16 Ethanol	45	2.597	2.597	0.000	99	146275	3000.0	2872.4	
22 Isopropyl alcohol	45	2.974	2.979	-0.005	98	132733	500.0	459.2	
27 Acetonitrile	41	3.050	3.050	0.000	99	279527	500.0	520.9	
35 Isopropyl ether	87	3.699	3.700	-0.001	90	250083	50.0	54.6	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	90	348268	50.0	50.8	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	740772	50.0	52.8	
40 Ethyl acetate	43	4.098	4.098	0.000	98	443282	100.0	95.4	
43 Propionitrile	54	4.109	4.109	0.000	99	389090	500.0	528.6	
45 Methacrylonitrile	41	4.218	4.212	0.006	83	1436370	500.0	519.1	
56 Tert-amyl methyl ether	73	4.812	4.813	-0.001	97	798763	50.0	53.8	
58 n-Butanol	56	5.118	5.118	0.000	82	171088	1250.0	1258.5	
63 Methyl methacrylate	100	5.429	5.429	0.000	79	160240	100.0	101.5	
67 2-Nitropropane	41	5.751	5.751	0.000	99	116706	100.0	110.4	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	93	175233	100.0	97.2	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	1144985	50.0	52.9	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	97	418402	50.0	52.9	

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp A_00091 Amount Added: 50.00 Units: uL

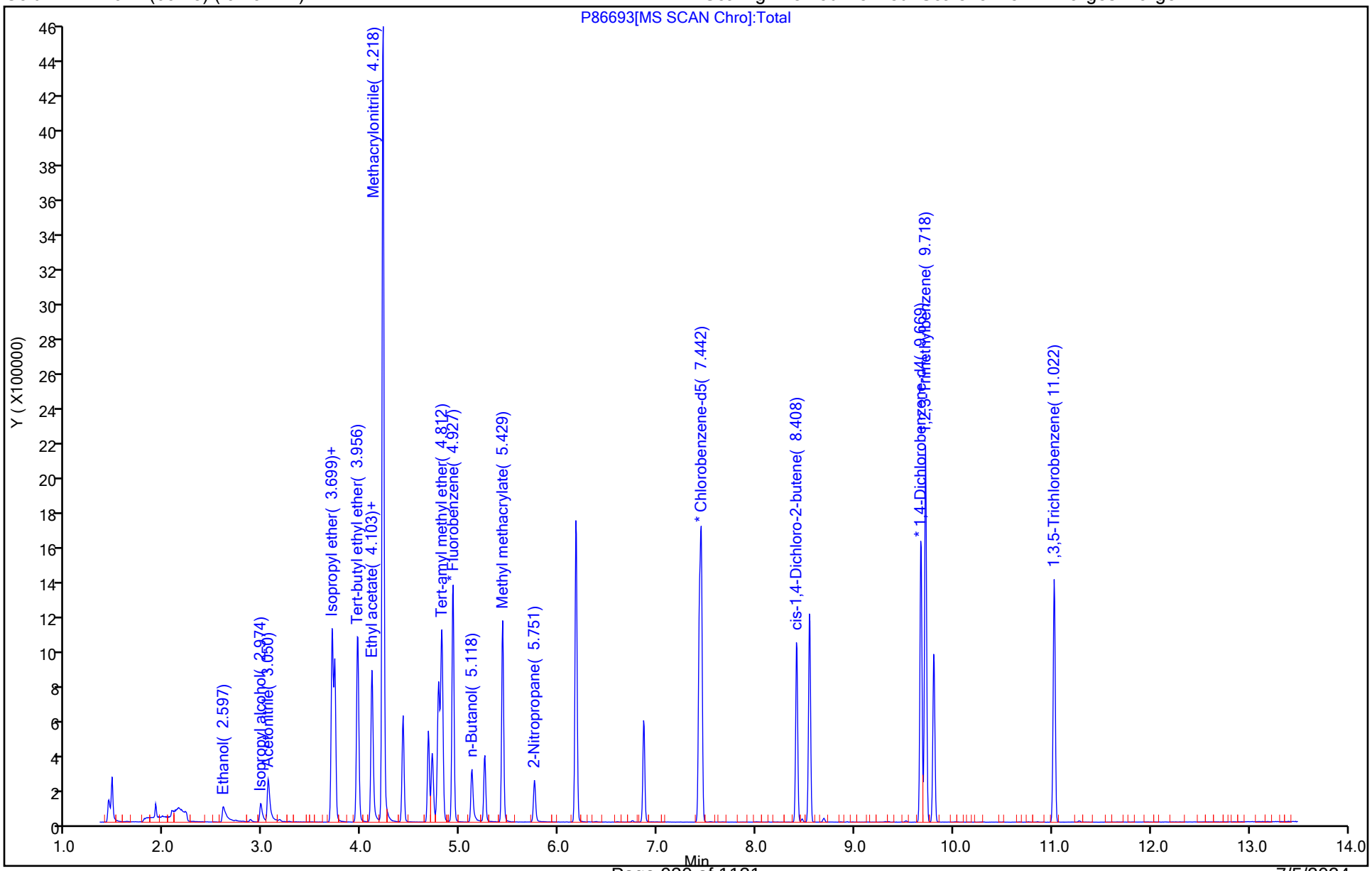
Report Date: 27-Jun-2024 13:35:16 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86693.D

Injection Date:	26-Jun-2024 19:44:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658893/2 Calibration Date: 07/01/2024 10:24

Instrument ID: VMS_P Calib Start Date: 06/24/2024 14:25

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/24/2024 17:10

Lab File ID: P86869.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
Ethyl ether	Ave	0.2019	0.1767	0.0100	43.8	50.0	-12.5	20.0
Acrolein	Ave	0.0313	0.0258	0.0010	408	494	-17.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1902	0.1762	0.0500	46.3	50.0	-7.4	20.0
1,1-Dichloroethene	Ave	0.2472	0.2325	0.0600	47.0	50.0	-6.0	20.0
Acetone	Lin2		0.0551	0.0100	160	200	-20.2*	20.0
Iodomethane	Lin1		0.2331	0.0100	40.0	50.0	-20.0	20.0
Carbon disulfide	Ave	0.8011	0.7686	0.1000	48.0	50.0	-4.1	20.0
Allyl chloride	Ave	0.2783	0.2363	0.0100	42.4	50.0	-15.1	20.0
Methyl acetate	Ave	0.1688	0.1321	0.0100	78.3	100	-21.7*	20.0
Methylene Chloride	Ave	0.3086	0.2652	0.0100	43.0	50.0	-14.1	20.0
2-Methyl-2-propanol	Ave	0.0254	0.0205	0.0010	402	500	-19.5	20.0
Acrylonitrile	Ave	0.1013	0.0860	0.0100	424	500	-15.2	20.0
trans-1,2-Dichloroethene	Ave	0.2771	0.2581	0.1000	46.6	50.0	-6.8	20.0
Methyl tert-butyl ether	Ave	0.7780	0.6725	0.1000	43.2	50.0	-13.6	20.0
Hexane	Ave	1.336	1.314	0.0100	49.2	50.0	-1.7	20.0
Vinyl acetate	Ave	0.4220	0.3748	0.0100	88.8	100	-11.2	20.0
1,1-Dichloroethane	Ave	0.4834	0.4426	0.1000	45.8	50.0	-8.5	20.0
2-Butanone (MEK)	Ave	0.1210	0.0901	0.0100	149	200	-25.5*	20.0
cis-1,2-Dichloroethene	Ave	0.3137	0.2876	0.1000	45.8	50.0	-8.3	20.0
2,2-Dichloropropane	Ave	0.4124	0.3721	0.0100	45.1	50.0	-9.8	20.0
sec-Butyl Alcohol	Lin1		0.0144	0.0100	862	1200	-28.2*	20.0
Chlorobromomethane	Ave	0.1377	0.1243	0.0500	45.1	50.0	-9.7	20.0
Chloroform	Ave	0.4908	0.4413	0.2000	45.0	50.0	-10.1	20.0
Tetrahydrofuran	Ave	0.0701	0.0519	0.0010	74.0	100	-26.0*	20.0
1,1,1-Trichloroethane	Ave	0.3944	0.3689	0.0500	46.8	50.0	-6.5	20.0
Cyclohexane	Ave	0.3989	0.3653	0.0100	45.8	50.0	-8.4	20.0
1,1-Dichloropropene	Ave	0.3679	0.3470	0.0100	47.2	50.0	-5.7	20.0
Carbon tetrachloride	Ave	0.3213	0.3250	0.1000	50.6	50.0	1.1	20.0
Isobutyl alcohol	Ave	0.0069	0.0059	0.0010	1070	1250	-14.1	20.0
Benzene	Ave	1.100	1.029	0.2000	46.8	50.0	-6.4	20.0
1,2-Dichloroethane	Ave	0.3644	0.3178	0.0700	43.6	50.0	-12.8	20.0
n-Heptane	Ave	0.2573	0.2151		41.8	50.0	-16.4	
Trichloroethene	Ave	1.160	1.081	0.2000	46.6	50.0	-6.8	20.0
2-Pentanone	Ave	0.1729	0.1345	0.0010	125	160	-22.2*	20.0
1,2-Dichloropropane	Ave	0.2865	0.2587	0.1000	45.2	50.0	-9.7	20.0
Methylcyclohexane	Ave	0.3087	0.2743	0.0500	44.4	50.0	-11.1	20.0
Dibromomethane	Ave	0.1944	0.1726	0.0100	44.4	50.0	-11.2	20.0
1,4-Dioxane	Ave	0.0038	0.0029	0.0010	747	1000	-25.3*	20.0
Dichlorobromomethane	Ave	0.3550	0.3405	0.2000	48.0	50.0	-4.1	20.0
cis-1,3-Dichloropropene	Ave	1.738	1.637	0.2000	47.1	50.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658893/2 | Calibration Date: 07/01/2024 10:24

Instrument ID: VMS_P | Calib Start Date: 06/24/2024 14:25

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/24/2024 17:10

Lab File ID: P86869.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
4-Methyl-2-pentanone (MIBK)	Ave	0.2358	0.1894	0.0300	161	200	-19.7	20.0
Toluene	Ave	1.262	1.104	0.3000	43.7	50.0	-12.5	20.0
trans-1,3-Dichloropropene	Ave	0.4176	0.3824	0.2000	45.8	50.0	-8.4	20.0
Ethyl methacrylate	Ave	1.290	1.317	0.0100	51.1	50.0	2.1	20.0
1,1,2-Trichloroethane	Ave	0.2497	0.2238	0.1000	44.8	50.0	-10.4	20.0
Tetrachloroethene	Ave	0.8898	0.8239	0.1000	46.3	50.0	-7.4	20.0
1,3-Dichloropropane	Ave	1.734	1.664	0.0100	48.0	50.0	-4.1	20.0
2-Hexanone	Ave	0.6746	0.5671	0.0100	168	200	-15.9	20.0
Chlorodibromomethane	Ave	1.077	1.092	0.1000	50.7	50.0	1.3	20.0
1,2-Dibromoethane	Ave	1.090	0.9814	0.1000	45.0	50.0	-9.9	20.0
1-Chlorohexane	Ave	1.673	1.487	0.0100	35.6	40.0	-11.1	20.0
Chlorobenzene	Ave	3.224	2.936	0.3000	45.5	50.0	-8.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.067	1.068	0.0100	50.1	50.0	0.1	20.0
Ethylbenzene	Ave	1.713	1.620	0.3000	47.3	50.0	-5.4	20.0
m-Xylene & p-Xylene	Ave	2.078	1.897	0.1000	45.6	50.0	-8.7	20.0
o-Xylene	Ave	2.087	1.887	0.2000	45.2	50.0	-9.6	20.0
Styrene	Ave	3.604	3.361	0.2000	46.6	50.0	-6.7	20.0
Bromoform	Ave	0.7048	0.7189	0.1000	51.0	50.0	2.0	20.0
Isopropylbenzene	Ave	3.193	3.195	0.3000	50.0	50.0	0.0	20.0
Cyclohexanone	Ave	0.0659	0.0417	0.0010	948	1500	-36.8*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8685	0.8419	0.3000	48.5	50.0	-3.1	20.0
Bromobenzene	Ave	0.8454	0.7883	0.0100	46.6	50.0	-6.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.1940	0.0100	40.9	50.0	-18.2	20.0
1,2,3-Trichloropropane	Ave	0.2529	0.2423	0.0100	47.9	50.0	-4.2	20.0
N-Propylbenzene	Ave	0.8828	0.8592	0.0100	48.7	50.0	-2.7	20.0
2-Chlorotoluene	Ave	0.7748	0.7418	0.0100	47.9	50.0	-4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.646	2.511	0.0100	47.5	50.0	-5.1	20.0
4-Chlorotoluene	Ave	0.8135	0.7814	0.0100	48.0	50.0	-4.0	20.0
tert-Butylbenzene	Ave	2.241	2.133	0.0100	47.6	50.0	-4.8	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.585	0.3000	47.5	50.0	-5.0	20.0
sec-Butylbenzene	Ave	0.6687	0.6394	0.0100	47.8	50.0	-4.4	20.0
1,3-Dichlorobenzene	Ave	1.582	1.478	0.5000	46.7	50.0	-6.6	20.0
4-Isopropyltoluene	Ave	2.836	2.726	0.0100	48.1	50.0	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.650	1.509	0.5000	45.7	50.0	-8.5	20.0
n-Butylbenzene	Ave	2.717	2.596	0.0100	47.8	50.0	-4.4	20.0
1,2-Dichlorobenzene	Ave	1.499	1.378	0.5000	46.0	50.0	-8.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1316	0.1241	0.0100	47.2	50.0	-5.7	20.0
1,2,4-Trichlorobenzene	Ave	0.8201	0.6902	0.2000	42.1	50.0	-15.8	20.0
Hexachlorobutadiene	Ave	0.3314	0.2949	0.0100	44.5	50.0	-11.0	20.0
Naphthalene	Ave	1.828	1.461	0.0100	40.0	50.0	-20.1*	20.0
1,2,3-Trichlorobenzene	Ave	0.5289	0.4086	0.3000	38.6	50.0	-22.7*	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 10:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB/PRIME
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:42 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1608491	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	378426	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	586226	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	405991	50.0	47.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	413507	50.0	51.8	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	94	1602140	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	474021	50.0	52.6	
9 Dichlorodifluoromethane	85	1.626	1.626	0.000	88	414337	50.0	55.6	
10 Chloromethane	50	1.806	1.806	0.000	99	852918	50.0	52.3	
11 Vinyl chloride	62	1.882	1.882	0.000	98	1091650	50.0	53.5	
12 Bromomethane	94	2.150	2.150	0.000	92	1178522	50.0	64.3	
13 Chloroethane	64	2.232	2.232	0.000	99	575262	50.0	70.8	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	856743	50.0	48.8	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	631713	50.0	49.4	
17 Ethyl ether	59	2.657	2.657	0.000	86	284253	50.0	43.8	
18 Acrolein	56	2.750	2.750	0.000	99	410573	493.8	408.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	373950	50.0	47.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.000	71	283365	50.0	46.3	
21 Acetone	43	2.865	2.865	0.000	99	354397	200.0	159.6	
23 Iodomethane	142	2.936	2.936	0.000	99	374988	50.0	40.0	
24 Carbon disulfide	76	2.996	2.996	0.000	99	1236323	50.0	48.0	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	81	380014	50.0	42.4	
25 Methyl acetate	43	3.083	3.083	0.000	96	424825	100.0	78.3	
28 Methylene Chloride	84	3.170	3.170	0.000	88	426593	50.0	43.0	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	329298	500.0	402.3	
30 Acrylonitrile	53	3.328	3.328	0.000	98	1382925	500.0	424.2	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	97	415170	50.0	46.6	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	1081700	50.0	43.2	
33 Hexane	57	3.552	3.552	0.000	87	497140	50.0	49.2	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1205589	100.0	88.8	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	95	711902	50.0	45.8	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	88	579791	200.0	148.9	

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	4.076	4.076	0.000	80	462585	50.0	45.8	
42 2,2-Dichloropropane	77	4.081	4.081	0.000	86	598470	50.0	45.1	
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	97	554958	1200.0	862.0	
46 Chlorobromomethane	128	4.245	4.245	0.000	92	199857	50.0	45.1	
48 Chloroform	83	4.305	4.305	0.000	94	709801	50.0	45.0	
47 Tetrahydrofuran	42	4.311	4.311	0.000	80	166949	100.0	74.0	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	99	593295	50.0	46.8	
50 Cyclohexane	56	4.512	4.512	0.000	86	587507	50.0	45.8	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	98	558203	50.0	47.2	
52 Carbon tetrachloride	117	4.572	4.572	0.000	95	522697	50.0	50.6	
55 Isobutyl alcohol	41	4.616	4.616	0.000	91	237722	1250.0	1073.4	
53 Benzene	78	4.714	4.714	0.000	95	1655818	50.0	46.8	
54 1,2-Dichloroethane	62	4.731	4.731	0.000	97	511216	50.0	43.6	
57 n-Heptane	43	4.900	4.900	0.000	81	345985	50.0	41.8	
59 Trichloroethene	95	5.200	5.200	0.000	97	409084	50.0	46.6	
60 2-Pentanone	43	5.320	5.320	0.000	97	692543	160.0	124.5	
61 Methylcyclohexane	55	5.391	5.391	0.000	88	441173	50.0	44.4	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	94	416194	50.0	45.2	
65 Dibromomethane	93	5.467	5.467	0.000	93	277626	50.0	44.4	
64 1,4-Dioxane	88	5.489	5.489	0.000	87	91977	1000.0	746.9	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	547701	50.0	48.0	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	240033	50.0	47.7	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	619382	50.0	47.1	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	95	1218647	200.0	160.7	
71 Toluene	91	6.231	6.231	0.000	97	1775423	50.0	43.7	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	615018	50.0	45.8	
73 Ethyl methacrylate	69	6.449	6.449	0.000	83	498513	50.0	51.1	
74 1,1,2-Trichloroethane	97	6.569	6.569	0.000	90	359944	50.0	44.8	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	311777	50.0	46.3	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	629580	50.0	48.0	
77 2-Hexanone	43	6.766	6.766	0.000	93	858351	200.0	168.1	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	413103	50.0	50.7	
79 Ethylene Dibromide	107	7.028	7.028	0.000	99	371393	50.0	45.0	
80 1-Chlorohexane	91	7.426	7.426	0.000	89	450306	40.0	35.6	
81 Chlorobenzene	112	7.470	7.470	0.000	95	1111129	50.0	45.5	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	404261	50.0	50.1	
83 Ethylbenzene	106	7.552	7.552	0.000	98	613150	50.0	47.3	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	717760	50.0	45.6	
85 o-Xylene	106	8.026	8.026	0.000	97	713919	50.0	45.2	
86 Styrene	104	8.043	8.043	0.000	95	1271972	50.0	46.6	
87 Bromoform	173	8.217	8.217	0.000	93	272049	50.0	51.0	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1873022	50.0	50.0	
90 Cyclohexanone	55	8.485	8.485	0.000	90	472911	1500.0	947.6	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	493552	50.0	48.5	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	64	113708	50.0	40.9	
94 Bromobenzene	156	8.687	8.687	0.000	94	462121	50.0	46.6	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	86	142017	50.0	47.9	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	503680	50.0	48.7	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	434884	50.0	47.9	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1472176	50.0	47.5	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	458056	50.0	48.0	
100 tert-Butylbenzene	119	9.254	9.254	0.000	92	1250240	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1515414	50.0	47.5	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	374838	50.0	47.8	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	866392	50.0	46.7	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1598061	50.0	48.1	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	884894	50.0	45.7	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1522110	50.0	47.8	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	97	808079	50.0	46.0	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.825	0.000	86	72768	50.0	47.2	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	404642	50.0	42.1	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	96	172863	50.0	44.5	
113 Naphthalene	128	11.928	11.928	0.000	97	856328	50.0	40.0	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	239530	50.0	38.6	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.4	
S 119 Xylenes, Total (URS)	1				0		100.0	90.8	
S 120 Trihalomethanes, Total	1				0		200.0	194.6	
S 122 Xylenes, Total	106				0		100.0	90.8	
S 123 1,2-Dichloroethene, Total	1				0		100.0	92.4	
S 124 1,3-Dichloropropene, Total	1				0		100.0	92.9	
S 125 Total BTEX	1				0			228.7	

Reagents:

MV-MegaMain B_00105	Amount Added:	25.00	Units: uL	
MV-Gas B_00165	Amount Added:	10.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

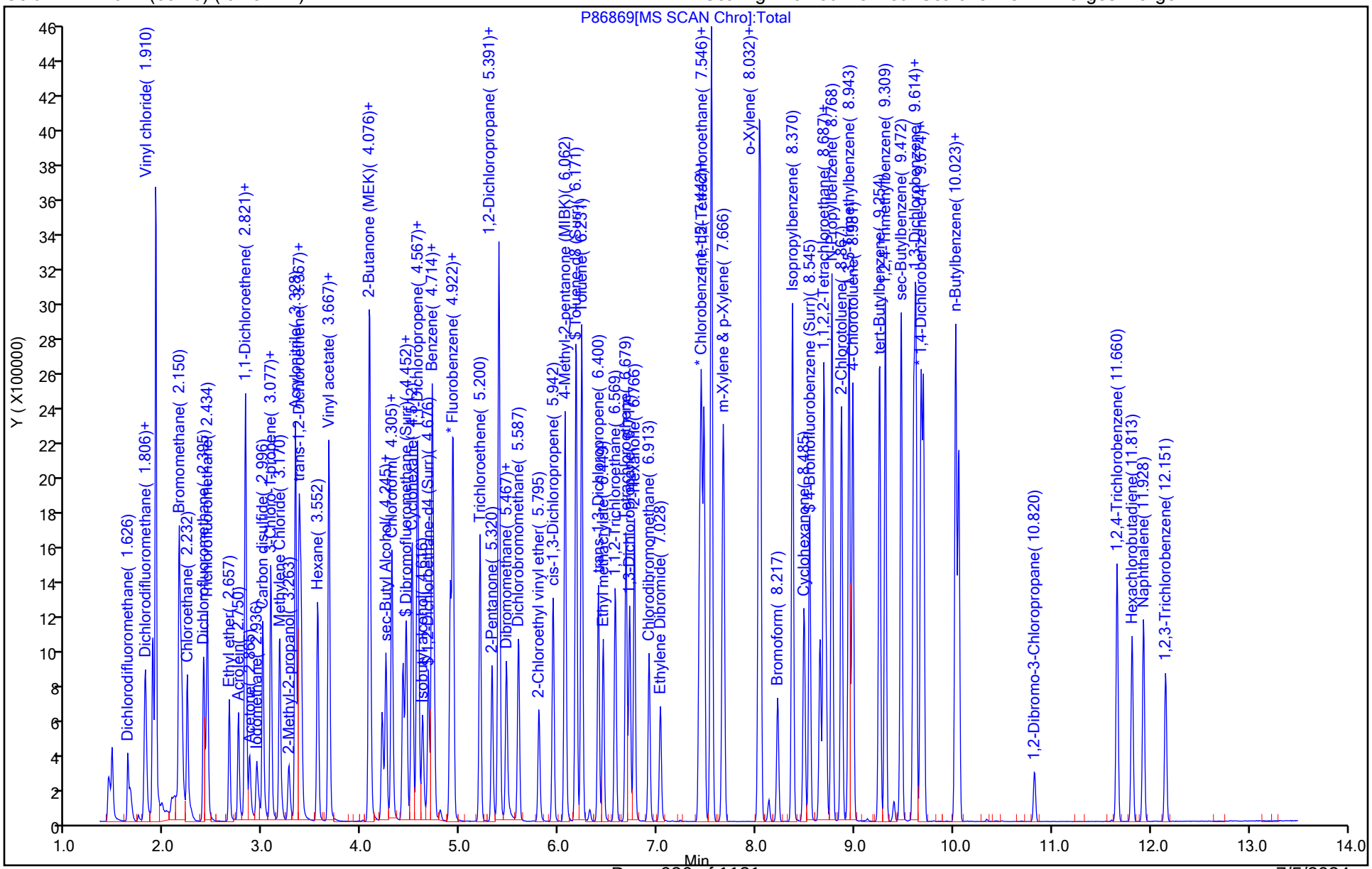
Report Date: 01-Jul-2024 13:15:42 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869.D

Injection Date:	01-Jul-2024 10:24:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_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.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658893/2 | Calibration Date: 07/01/2024 10:24

Instrument ID: VMS_P | Calib Start Date: 06/25/2024 18:27

GC Column: DB-624 (60.25) ID: 0.25(mm) | Calib End Date: 06/25/2024 21:11

Lab File ID: P86869.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		0.2576	0.1000	55.6	50.0	11.3	20.0
Chloromethane	Lin1		0.5303	0.1000	52.3	50.0	4.5	20.0
Vinyl chloride	Lin1		0.6787	0.0100	53.5	50.0	7.0	20.0
Bromomethane	Lin2		0.7327	0.0100	64.3	50.0	28.6*	20.0
Chloroethane	Lin1		0.3576	0.0100	70.8	50.0	41.6*	20.0
Dichlorofluoromethane	Ave	0.5459	0.5326	0.0100	48.8	50.0	-2.4	20.0
Trichlorofluoromethane	Ave	0.3972	0.3927	0.0100	49.4	50.0	-1.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1564	0.1492	0.0100	47.7	50.0	-4.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2654	0.2524	0.0100	47.6	50.0	-4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2481	0.2571	0.0100	51.8	50.0	3.6	20.0
Toluene-d8 (Surr)	Ave	4.056	4.234	0.0100	52.2	50.0	4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7679	0.8086	0.0100	52.6	50.0	5.3	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 10:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB/PRIME
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:42 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1608491	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	378426	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.674	0.000	95	586226	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	405991	50.0	47.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	413507	50.0	51.8	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	94	1602140	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	474021	50.0	52.6	
9 Dichlorodifluoromethane	85	1.626	1.626	0.000	88	414337	50.0	55.6	
10 Chloromethane	50	1.806	1.806	0.000	99	852918	50.0	52.3	
11 Vinyl chloride	62	1.882	1.882	0.000	98	1091650	50.0	53.5	
12 Bromomethane	94	2.150	2.150	0.000	92	1178522	50.0	64.3	
13 Chloroethane	64	2.232	2.232	0.000	99	575262	50.0	70.8	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	856743	50.0	48.8	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	631713	50.0	49.4	
17 Ethyl ether	59	2.657	2.657	0.000	86	284253	50.0	43.8	
18 Acrolein	56	2.750	2.750	0.000	99	410573	493.8	408.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	373950	50.0	47.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.000	71	283365	50.0	46.3	
21 Acetone	43	2.865	2.865	0.000	99	354397	200.0	159.6	
23 Iodomethane	142	2.936	2.936	0.000	99	374988	50.0	40.0	
24 Carbon disulfide	76	2.996	2.996	0.000	99	1236323	50.0	48.0	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	81	380014	50.0	42.4	
25 Methyl acetate	43	3.083	3.083	0.000	96	424825	100.0	78.3	
28 Methylene Chloride	84	3.170	3.170	0.000	88	426593	50.0	43.0	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	329298	500.0	402.3	
30 Acrylonitrile	53	3.328	3.328	0.000	98	1382925	500.0	424.2	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	97	415170	50.0	46.6	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	1081700	50.0	43.2	
33 Hexane	57	3.552	3.552	0.000	87	497140	50.0	49.2	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1205589	100.0	88.8	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	95	711902	50.0	45.8	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	88	579791	200.0	148.9	

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	4.076	4.076	0.000	80	462585	50.0	45.8	
42 2,2-Dichloropropane	77	4.081	4.081	0.000	86	598470	50.0	45.1	
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	97	554958	1200.0	862.0	
46 Chlorobromomethane	128	4.245	4.245	0.000	92	199857	50.0	45.1	
48 Chloroform	83	4.305	4.305	0.000	94	709801	50.0	45.0	
47 Tetrahydrofuran	42	4.311	4.311	0.000	80	166949	100.0	74.0	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	99	593295	50.0	46.8	
50 Cyclohexane	56	4.512	4.512	0.000	86	587507	50.0	45.8	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	98	558203	50.0	47.2	
52 Carbon tetrachloride	117	4.572	4.572	0.000	95	522697	50.0	50.6	
55 Isobutyl alcohol	41	4.616	4.616	0.000	91	237722	1250.0	1073.4	
53 Benzene	78	4.714	4.714	0.000	95	1655818	50.0	46.8	
54 1,2-Dichloroethane	62	4.731	4.731	0.000	97	511216	50.0	43.6	
57 n-Heptane	43	4.900	4.900	0.000	81	345985	50.0	41.8	
59 Trichloroethene	95	5.200	5.200	0.000	97	409084	50.0	46.6	
60 2-Pentanone	43	5.320	5.320	0.000	97	692543	160.0	124.5	
61 Methylcyclohexane	55	5.391	5.391	0.000	88	441173	50.0	44.4	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	94	416194	50.0	45.2	
65 Dibromomethane	93	5.467	5.467	0.000	93	277626	50.0	44.4	
64 1,4-Dioxane	88	5.489	5.489	0.000	87	91977	1000.0	746.9	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	547701	50.0	48.0	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	240033	50.0	47.7	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	619382	50.0	47.1	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	95	1218647	200.0	160.7	
71 Toluene	91	6.231	6.231	0.000	97	1775423	50.0	43.7	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	615018	50.0	45.8	
73 Ethyl methacrylate	69	6.449	6.449	0.000	83	498513	50.0	51.1	
74 1,1,2-Trichloroethane	97	6.569	6.569	0.000	90	359944	50.0	44.8	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	311777	50.0	46.3	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	629580	50.0	48.0	
77 2-Hexanone	43	6.766	6.766	0.000	93	858351	200.0	168.1	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	413103	50.0	50.7	
79 Ethylene Dibromide	107	7.028	7.028	0.000	99	371393	50.0	45.0	
80 1-Chlorohexane	91	7.426	7.426	0.000	89	450306	40.0	35.6	
81 Chlorobenzene	112	7.470	7.470	0.000	95	1111129	50.0	45.5	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	404261	50.0	50.1	
83 Ethylbenzene	106	7.552	7.552	0.000	98	613150	50.0	47.3	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	717760	50.0	45.6	
85 o-Xylene	106	8.026	8.026	0.000	97	713919	50.0	45.2	
86 Styrene	104	8.043	8.043	0.000	95	1271972	50.0	46.6	
87 Bromoform	173	8.217	8.217	0.000	93	272049	50.0	51.0	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1873022	50.0	50.0	
90 Cyclohexanone	55	8.485	8.485	0.000	90	472911	1500.0	947.6	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	493552	50.0	48.5	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	64	113708	50.0	40.9	
94 Bromobenzene	156	8.687	8.687	0.000	94	462121	50.0	46.6	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	86	142017	50.0	47.9	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	503680	50.0	48.7	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	434884	50.0	47.9	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1472176	50.0	47.5	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	458056	50.0	48.0	
100 tert-Butylbenzene	119	9.254	9.254	0.000	92	1250240	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1515414	50.0	47.5	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	374838	50.0	47.8	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	866392	50.0	46.7	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1598061	50.0	48.1	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	884894	50.0	45.7	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1522110	50.0	47.8	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	97	808079	50.0	46.0	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.825	0.000	86	72768	50.0	47.2	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	404642	50.0	42.1	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	96	172863	50.0	44.5	
113 Naphthalene	128	11.928	11.928	0.000	97	856328	50.0	40.0	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	239530	50.0	38.6	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.4	
S 119 Xylenes, Total (URS)	1				0		100.0	90.8	
S 120 Trihalomethanes, Total	1				0		200.0	194.6	
S 122 Xylenes, Total	106				0		100.0	90.8	
S 123 1,2-Dichloroethene, Total	1				0		100.0	92.4	
S 124 1,3-Dichloropropene, Total	1				0		100.0	92.9	
S 125 Total BTEX	1				0			228.7	

Reagents:

MV-MegaMain B_00105	Amount Added:	25.00	Units: uL	
MV-Gas B_00165	Amount Added:	10.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 01-Jul-2024 13:15:42 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869.D

Injection Date: 01-Jul-2024 10:24:30 Instrument ID: VMS_P Operator ID: COULTER

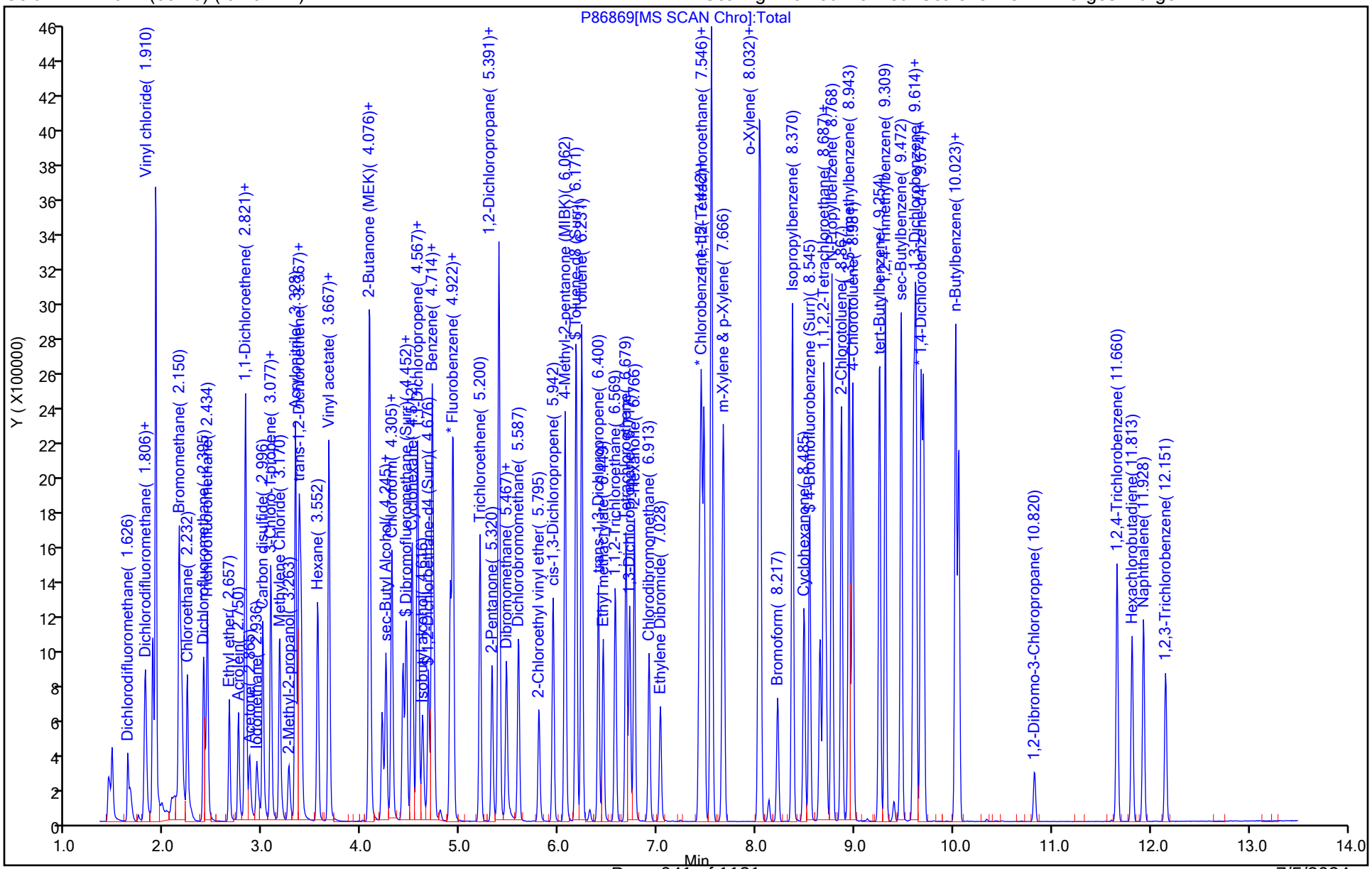
Lims ID: CCV Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658893/3 Calibration Date: 07/01/2024 10:44

Instrument ID: VMS_P Calib Start Date: 06/25/2024 18:27

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/25/2024 21:11

Lab File ID: P86870.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	0.2654	0.2623	0.0100	49.4	50.0	-1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2481	0.2530	0.0100	51.0	50.0	2.0	20.0
Toluene-d8 (Surr)	Ave	4.056	4.142	0.0100	51.1	50.0	2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7679	0.8003	0.0100	52.1	50.0	4.2	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 10:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub215

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1379275	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	86	324122	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	521880	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	361797	50.0	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	348950	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1342534	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	417647	50.0	52.1	
16 Ethanol	45	2.592	2.592	0.000	100	87019	1500.0	1267.4	
22 Isopropyl alcohol	45	2.974	2.974	0.000	97	74098	250.0	190.1	
27 Acetonitrile	41	3.050	3.050	0.000	99	154619	250.0	208.3	
35 Isopropyl ether	87	3.699	3.699	0.000	91	136543	25.0	22.1	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	222605	25.0	24.1	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	430166	25.0	22.7	
40 Ethyl acetate	43	4.098	4.098	0.000	99	258916	50.0	41.3	
43 Propionitrile	54	4.103	4.103	0.000	99	218390	250.0	220.1	
45 Methacrylonitrile	41	4.212	4.212	0.000	86	797851	250.0	213.9	
56 Tert-amyl methyl ether	73	4.812	4.812	0.000	98	438601	25.0	21.9	
58 n-Butanol	56	5.113	5.113	0.000	82	94685	625.0	516.6	
63 Methyl methacrylate	100	5.429	5.429	0.000	80	88795	50.0	41.7	
67 2-Nitropropane	41	5.751	5.751	0.000	99	65186	50.0	45.7	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	92	81663	50.0	35.4	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	672316	25.0	24.3	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	234803	25.0	23.2	

Reagents:

MV-Supp B_00072 Amount Added: 25.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

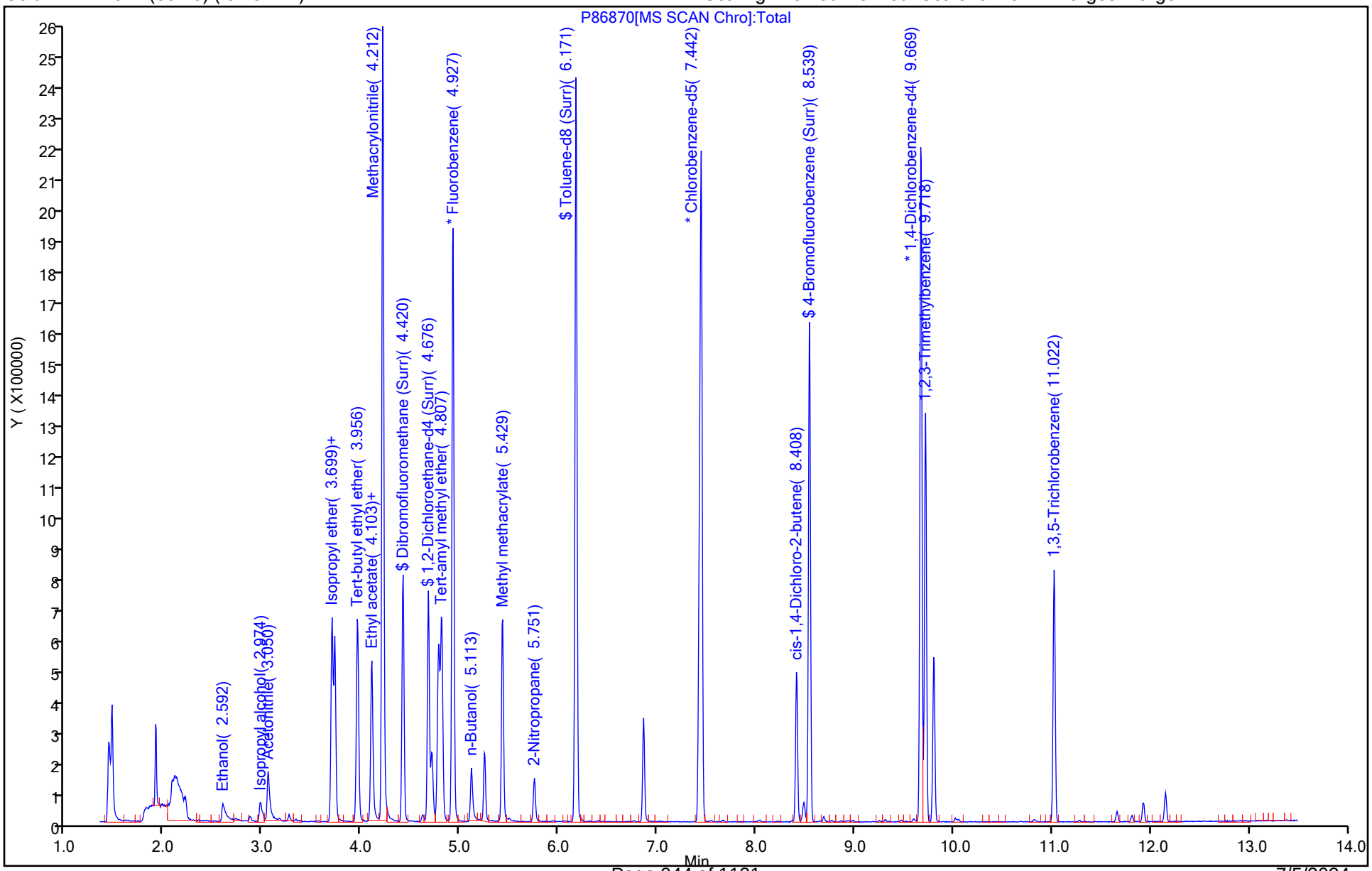
Report Date: 01-Jul-2024 13:15:44 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870.D

Injection Date:	01-Jul-2024 10:44:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Lab Sample ID: CCV 280-658893/3 Calibration Date: 07/01/2024 10:44

Instrument ID: VMS_P Calib Start Date: 06/26/2024 13:21

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/26/2024 19:03

Lab File ID: P86870.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	0.0025	0.0021*	0.0100	1270	1500	-15.5	20.0
Isopropyl alcohol	Ave	0.0141	0.0107	0.0100	190	250	-23.9*	20.0
Acetonitrile	Lin2		0.0224	0.0100	208	250	-16.7	20.0
Isopropyl ether	Ave	0.2238	0.1980	0.0100	22.1	25.0	-11.5	20.0
Chloroprene	Ave	0.3349	0.3228	0.0100	24.1	25.0	-3.6	20.0
Tert-butyl ethyl ether	Ave	0.6863	0.6238	0.0100	22.7	25.0	-9.1	20.0
Ethyl acetate	Ave	0.2271	0.1877	0.0100	41.3	50.0	-17.3	20.0
Propionitrile	Ave	0.0360	0.0317	0.0100	220	250	-12.0	20.0
Methacrylonitrile	Ave	0.1352	0.1157	0.0100	214	250	-14.5	20.0
Tert-amyl methyl ether	Ave	0.7252	0.6360	0.0100	21.9	25.0	-12.3	20.0
n-Butanol	Ave	0.0066	0.0055*	0.0100	517	625	-17.3	20.0
Methyl methacrylate	Ave	0.0772	0.0644	0.0100	41.7	50.0	-16.6	20.0
2-Nitropropane	Ave	0.0517	0.0473	0.0100	45.7	50.0	-8.5	20.0
cis-1,4-Dichloro-2-butene	Ave	0.2211	0.1565	0.0100	35.4	50.0	-29.2*	20.0
1,2,3-Trimethylbenzene	Ave	2.654	2.577	0.0100	24.3	25.0	-2.9	20.0
1,3,5-Trichlorobenzene	Ave	0.9709	0.8998	0.0100	23.2	25.0	-7.3	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2024 10:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub215

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.927	4.927	0.000	99	1379275	50.0	50.0	
*	2 Chlorobenzene-d5	119	7.442	7.442	0.000	86	324122	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	521880	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	361797	50.0	49.4	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	348950	50.0	51.0	
$	6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1342534	50.0	51.1	
$	7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	417647	50.0	52.1	
	16 Ethanol	45	2.592	2.592	0.000	100	87019	1500.0	1267.4	
	22 Isopropyl alcohol	45	2.974	2.974	0.000	97	74098	250.0	190.1	
	27 Acetonitrile	41	3.050	3.050	0.000	99	154619	250.0	208.3	
	35 Isopropyl ether	87	3.699	3.699	0.000	91	136543	25.0	22.1	
	37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	222605	25.0	24.1	
	38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	430166	25.0	22.7	
	40 Ethyl acetate	43	4.098	4.098	0.000	99	258916	50.0	41.3	
	43 Propionitrile	54	4.103	4.103	0.000	99	218390	250.0	220.1	
	45 Methacrylonitrile	41	4.212	4.212	0.000	86	797851	250.0	213.9	
	56 Tert-amyl methyl ether	73	4.812	4.812	0.000	98	438601	25.0	21.9	
	58 n-Butanol	56	5.113	5.113	0.000	82	94685	625.0	516.6	
	63 Methyl methacrylate	100	5.429	5.429	0.000	80	88795	50.0	41.7	
	67 2-Nitropropane	41	5.751	5.751	0.000	99	65186	50.0	45.7	
	89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	92	81663	50.0	35.4	
	106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	672316	25.0	24.3	
	110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	234803	25.0	23.2	

Reagents:

MV-Supp B_00072 Amount Added: 25.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

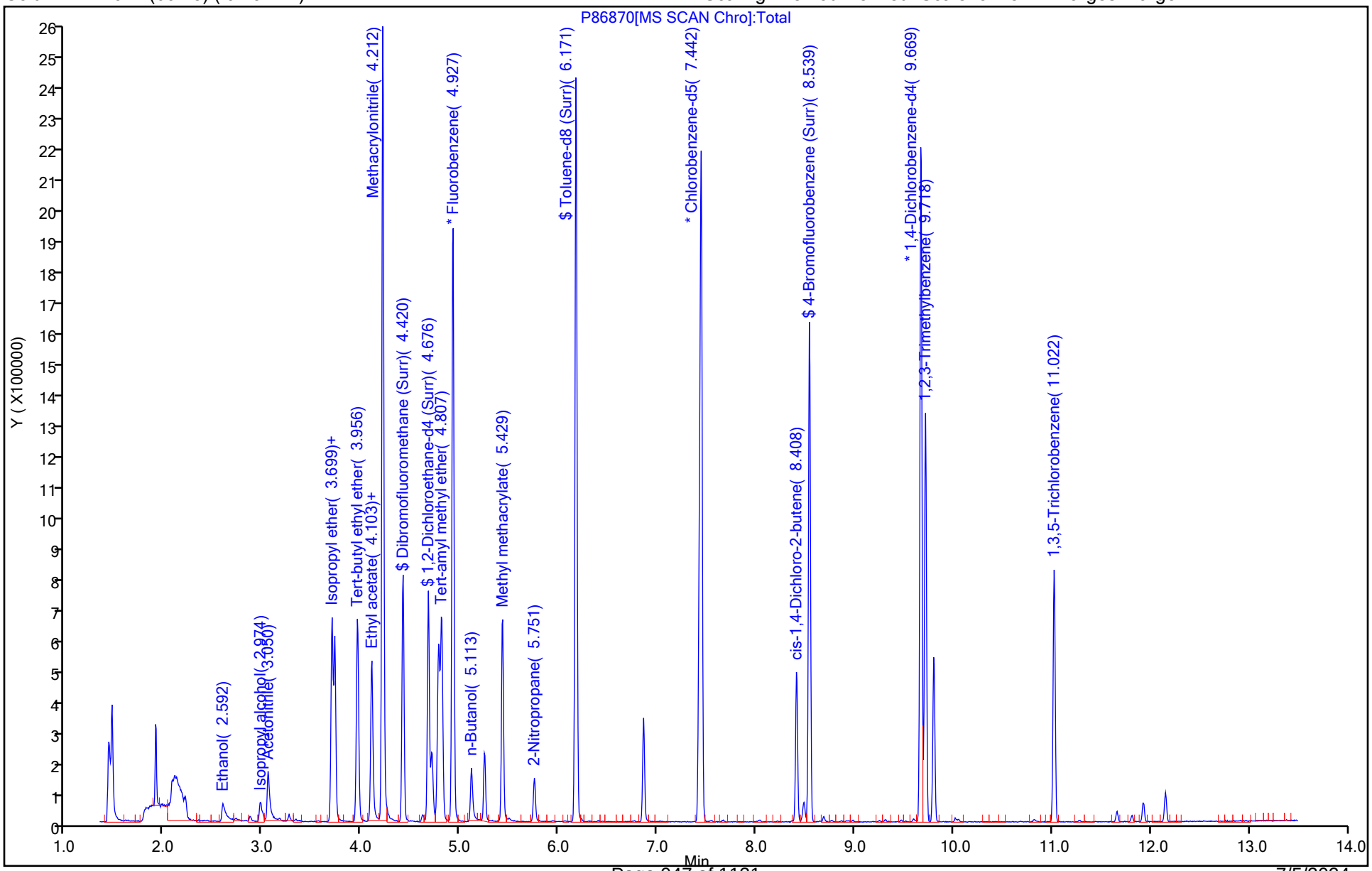
Report Date: 01-Jul-2024 13:15:44 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870.D

Injection Date:	01-Jul-2024 10:44:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2271.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Apr-2024 08:35:30	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\20240405-131907.b\AQ_VMS1_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	22-May-2024 16:57:23	Calib Date:	05-Apr-2024 14:08:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2286.D				
Column 1 :	DB-624 (60.25) (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	9.900	9.900	0.000	0	631689	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

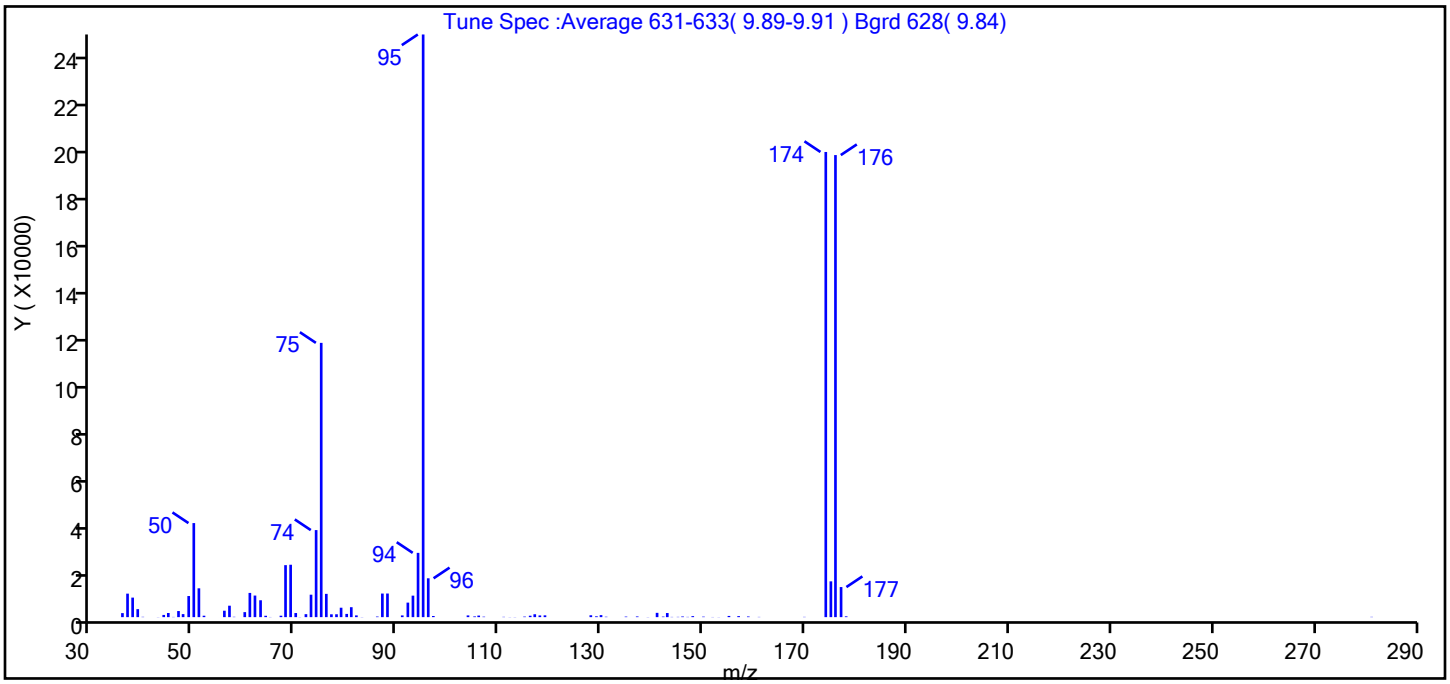
mv-Cent BFB_00008 Amount Added: 5.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2271.D
Injection Date: 05-Apr-2024 08:35:30 Instrument ID: VMS_MS1
Lims ID: BFB
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	16.1
75	30 to 60% of m/z 95	47.1
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	79.8
175	5 to 9% of m/z 174	6.1 (7.7)
176	Greater than 95% but less than 101% of m/z 174	79.3 (99.3)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2271.D\AQ_VMS1_8260.rslt\spectra.c
Injection Date: 05-Apr-2024 08:35:30
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: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1659	65.00	67	94.00	26504	142.00	222
37.00	9691	67.00	588	95.00	240256	143.00	1696
38.00	8055	68.00	21440	96.00	16020	144.00	96
39.00	3293	69.00	21608	97.00	469	145.00	112
40.00	128	70.00	1695	104.00	710	146.00	270
43.00	51	71.00	55	105.00	300	147.00	102
44.00	914	72.00	1228	106.00	641	148.00	417
45.00	1709	73.00	9257	107.00	193	150.00	204
46.00	88	74.00	35896	111.00	122	152.00	67
47.00	2515	75.00	113096	112.00	52	153.00	50
48.00	1253	76.00	9600	113.00	58	155.00	495
49.00	8704	77.00	1171	115.00	226	157.00	421
50.00	38784	78.00	1189	116.00	590	159.00	273
51.00	11886	79.00	3887	117.00	1194	161.00	97
52.00	588	80.00	1334	118.00	698	170.00	109
55.00	3	81.00	4102	119.00	743	174.00	191808
56.00	2650	82.00	722	128.00	772	175.00	14761
57.00	4719	83.00	60	129.00	343	176.00	190528
58.00	140	86.00	245	130.00	837	177.00	12405
60.00	2070	87.00	9731	131.00	165	178.00	329
61.00	9987	88.00	9739	135.00	228	281.00	119
62.00	8900	91.00	708	137.00	289		
63.00	6961	92.00	5990	139.00	57		
64.00	567	93.00	8863	141.00	1772		

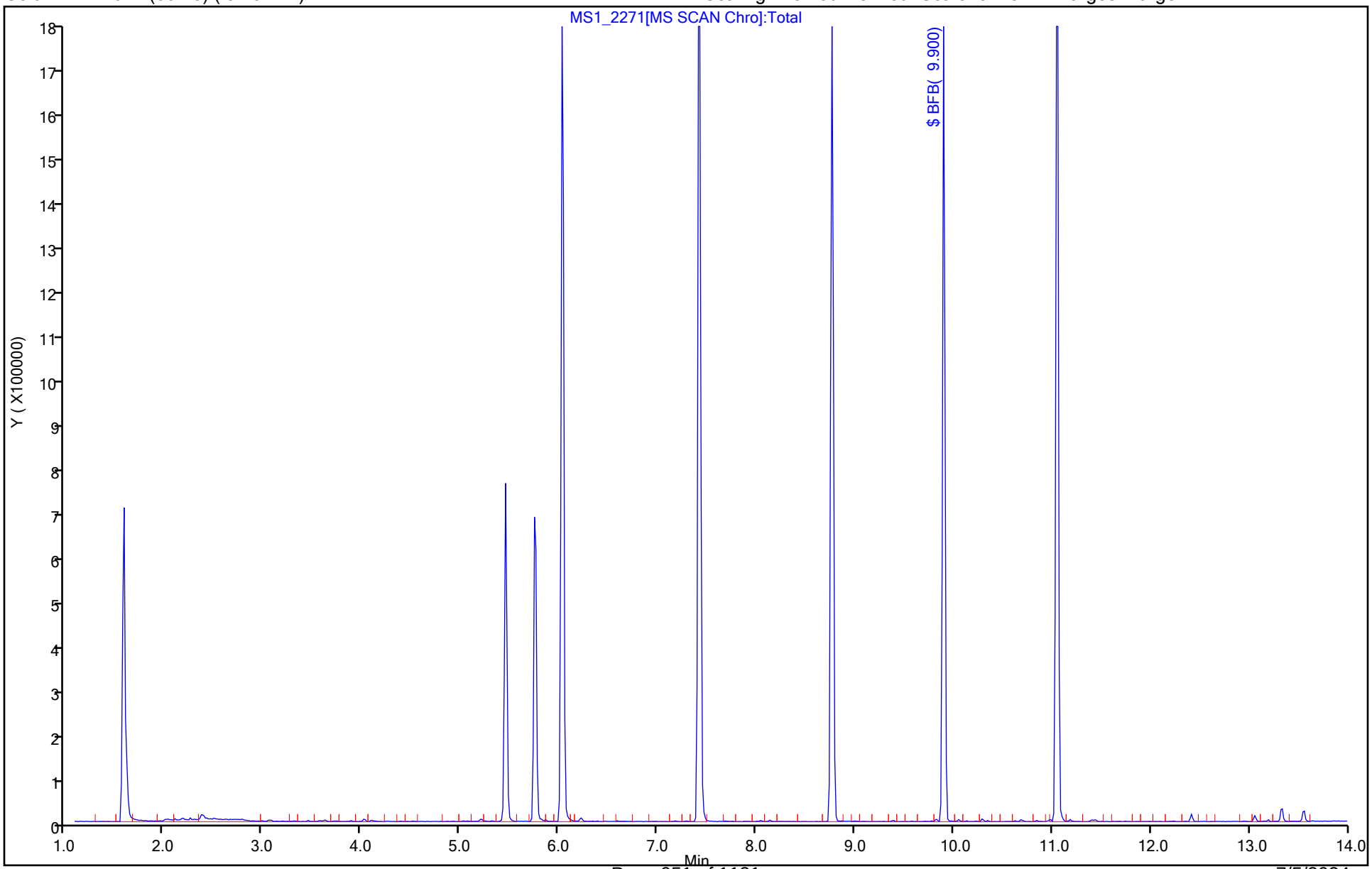
Report Date: 22-May-2024 16:57:24 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240405-131907.b\MS1_2271.D

Injection Date:	05-Apr-2024 08:35:30	Instrument ID:	VMS_MS1	Operator ID:	wickhamt
Lims ID:	BFB			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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5583.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Jun-2024 20:16:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 20-Jun-2024 07:09:59 Calib Date: 19-Jun-2024 23:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5569.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1688

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	9.899	9.899	0.000	0	731074	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

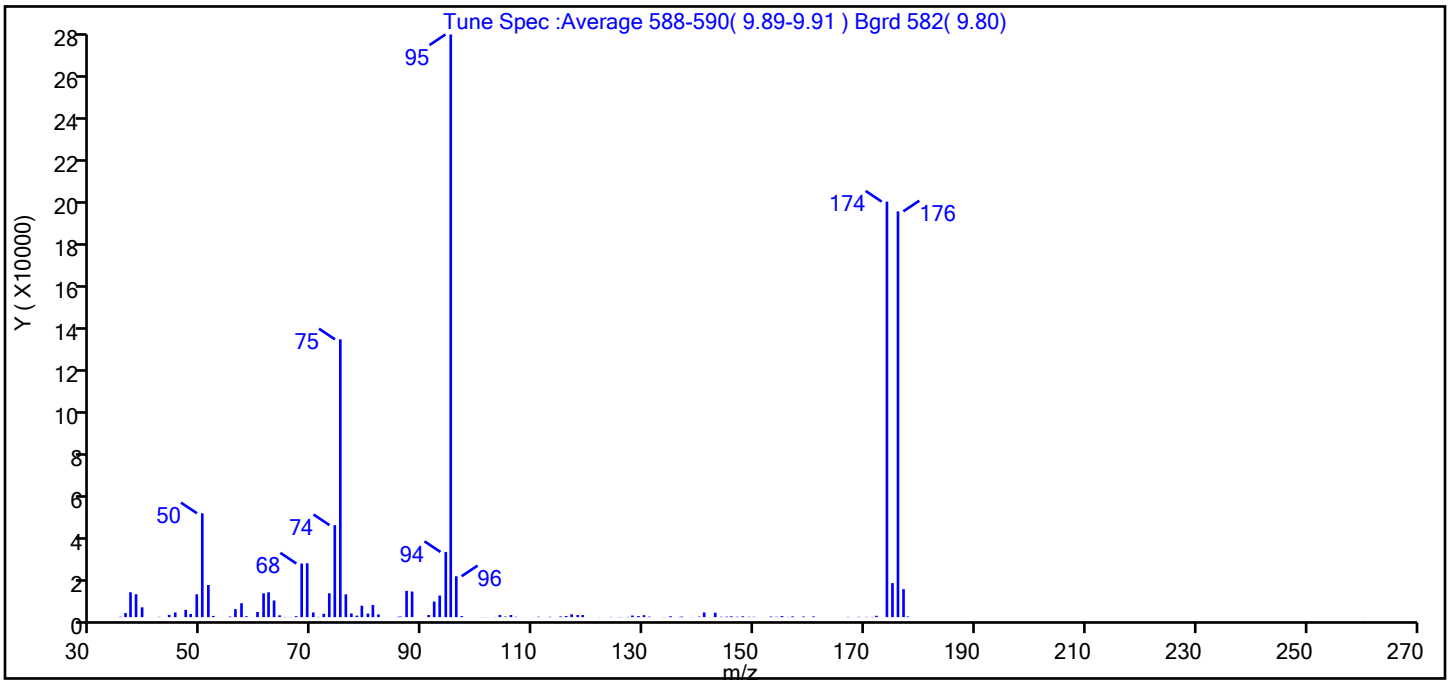
mv-Cent BFB_00007 Amount Added: 5.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5583.D
Injection Date: 19-Jun-2024 20:16:30 Instrument ID: VMS_MS1
Lims ID: BFB
Client ID:
Operator ID: bj ALS Bottle#: 1 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	17.8
75	30 to 60% of m/z 95	47.7
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	71.3
175	5 to 9% of m/z 174	5.8 (8.2)
176	Greater than 95% but less than 101% of m/z 174	69.6 (97.6)
177	5 to 9% of m/z 176	4.8 (6.9)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5583.D\AQ_VMS1_8260.rslt\spectra.c
Injection Date: 19-Jun-2024 20:16:30
Spectrum: Tune Spec :Average 588-590(9.89-9.91) Bgrd 582(9.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	196	70.00	2215	105.00	278	143.00	2126
36.00	1945	71.00	134	106.00	1002	144.00	194
37.00	11889	72.00	1589	107.00	177	145.00	243
38.00	10944	73.00	11389	110.00	38	146.00	403
39.00	4699	74.00	43944	111.00	204	147.00	184
42.00	141	75.00	132672	113.00	174	148.00	400
44.00	1058	76.00	10896	115.00	327	149.00	160
45.00	2229	77.00	1763	116.00	573	150.00	177
47.00	3508	78.00	730	117.00	1339	153.00	295
48.00	1523	79.00	5457	118.00	1004	154.00	181
49.00	10902	80.00	1714	119.00	997	155.00	521
50.00	49600	81.00	5788	122.00	61	156.00	111
51.00	15351	82.00	1295	124.00	111	157.00	353
52.00	596	86.00	165	126.00	72	159.00	328
55.00	309	86.00	272	126.00	62	161.00	364
56.00	3837	87.00	12559	127.00	116	167.00	126
57.00	6639	88.00	12240	128.00	762	169.00	158
58.00	417	91.00	1013	129.00	537	170.00	125
60.00	2472	92.00	7435	130.00	944	171.00	119
61.00	11370	93.00	10320	131.00	239	172.00	651
62.00	11887	94.00	31128	134.00	79	174.00	198464
63.00	7969	95.00	278272	135.00	431	175.00	16254
64.00	888	96.00	19528	137.00	144	176.00	193792
65.00	88	97.00	501	137.00	236	177.00	13377
66.00	88	101.00	75	139.00	63	178.00	308
67.00	475	101.00	55	140.00	249	261.00	52
68.00	25608	103.00	78	141.00	2244		
69.00	25736	104.00	1068	142.00	73		

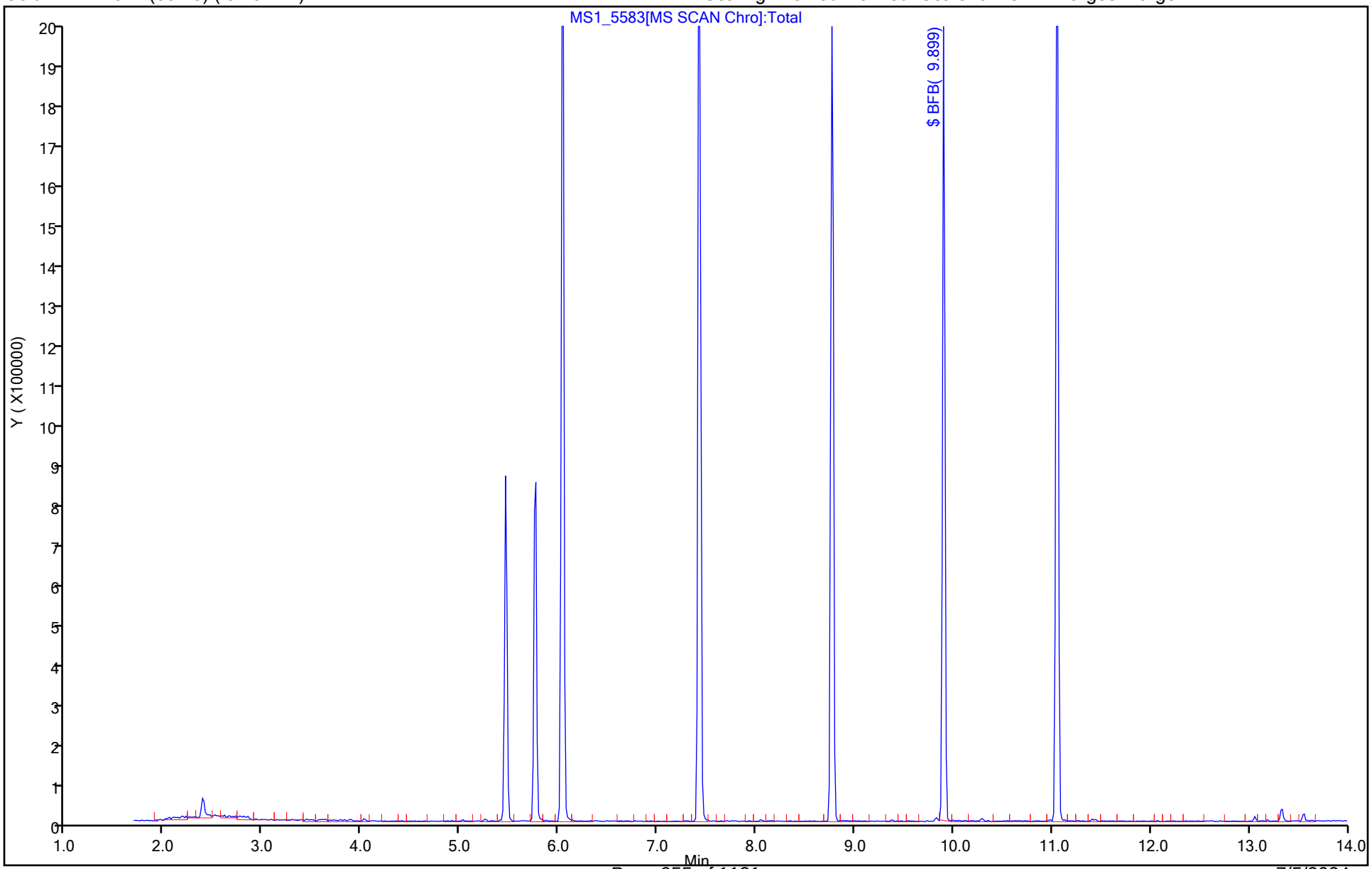
Report Date: 20-Jun-2024 07:09:59 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240619-134653.b\MS1_5583.D

Injection Date:	19-Jun-2024 20:16:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079a.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Jul-2024 22:22:30 ALS Bottle#: 31 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:39 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 02-Jul-2024 01:16:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	9.899	9.899	0.000	0	729707	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

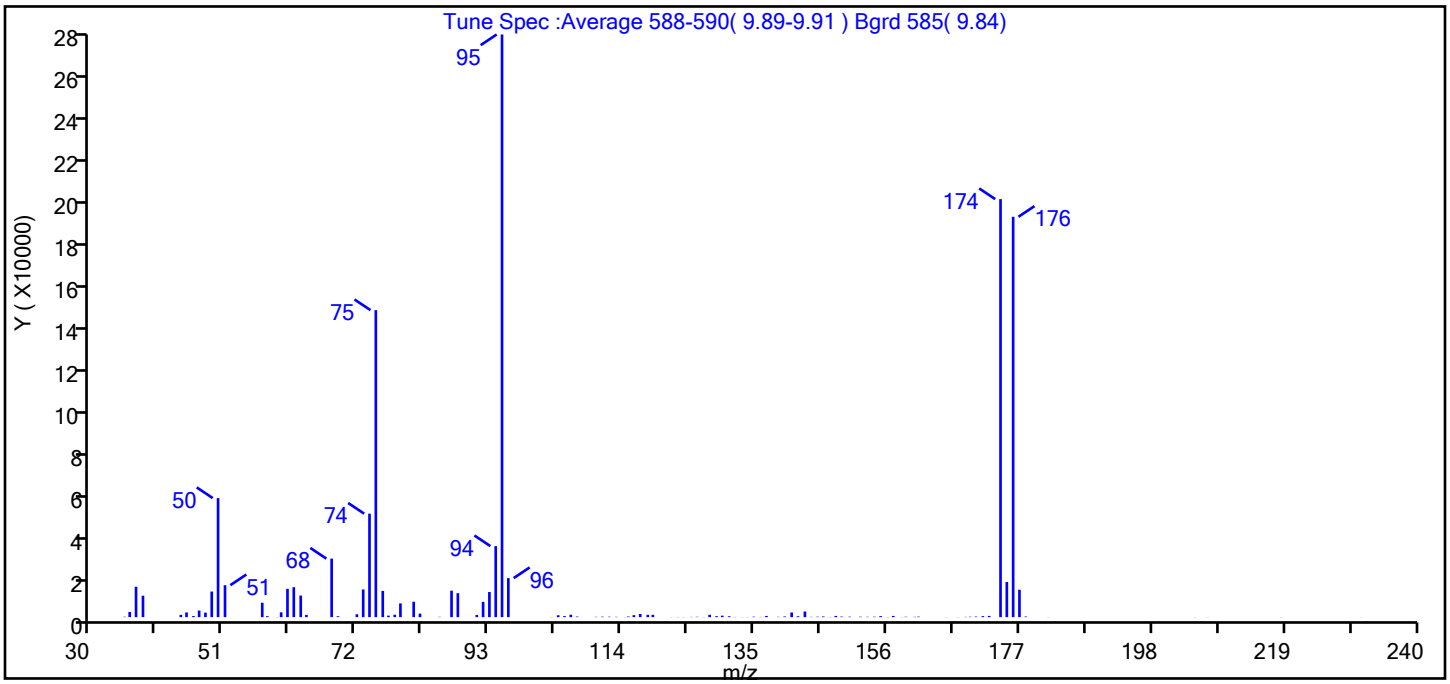
mv-Cent BFB_00007 Amount Added: 5.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079a.D
Injection Date: 01-Jul-2024 22:22:30 Instrument ID: VMS_MS1
Lims ID: BFB
Client ID:
Operator ID: go ALS Bottle#: 31 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	20.4
75	30 to 60% of m/z 95	52.7
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	71.7
175	5 to 9% of m/z 174	6.0 (8.4)
176	Greater than 95% but less than 101% of m/z 174	68.7 (95.8)
177	5 to 9% of m/z 176	4.7 (6.8)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079a.D\AQ_VMS1_8260.rslt\spectra
Injection Date: 01-Jul-2024 22:22:30
Spectrum: Tune Spec :Average 588-590(9.89-9.91) Bgrd 585(9.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	178	78.00	1149	122.00	61	152.00	218
36.00	2467	79.00	6566	123.00	87	153.00	170
37.00	14525	81.00	7366	124.00	65	154.00	211
38.00	10239	82.00	1693	125.00	107	155.00	483
44.00	1079	85.00	146	126.00	173	156.00	82
45.00	2261	87.00	12646	127.00	57	157.00	587
46.00	514	88.00	11463	128.00	1120	158.00	71
47.00	3163	91.00	1040	129.00	470	159.00	187
48.00	2155	92.00	7311	130.00	706	160.00	140
49.00	12236	93.00	12004	131.00	424	161.00	246
50.00	56888	94.00	33936	132.00	88	165.00	50
51.00	15270	95.00	278400	133.00	50	167.00	60
57.00	6888	96.00	18656	134.00	77	168.00	125
58.00	459	103.00	53	135.00	221	169.00	195
59.00	85	104.00	895	136.00	94	170.00	270
60.00	2297	105.00	500	137.00	577	171.00	483
61.00	13527	106.00	1154	139.00	137	172.00	579
62.00	14321	107.00	276	140.00	328	174.00	199744
63.00	10316	110.00	151	141.00	2230	175.00	16792
64.00	1067	111.00	225	142.00	420	176.00	191296
68.00	27968	112.00	208	143.00	2695	177.00	13095
69.00	437	113.00	158	144.00	127	178.00	284
72.00	1371	114.00	59	145.00	201	182.00	58
73.00	13221	115.00	301	146.00	326	205.00	57
74.00	49440	116.00	949	147.00	86	207.00	58
75.00	146688	117.00	1505	148.00	569	218.00	63
76.00	12530	118.00	1103	149.00	257	231.00	52
77.00	725	119.00	1123	150.00	231		

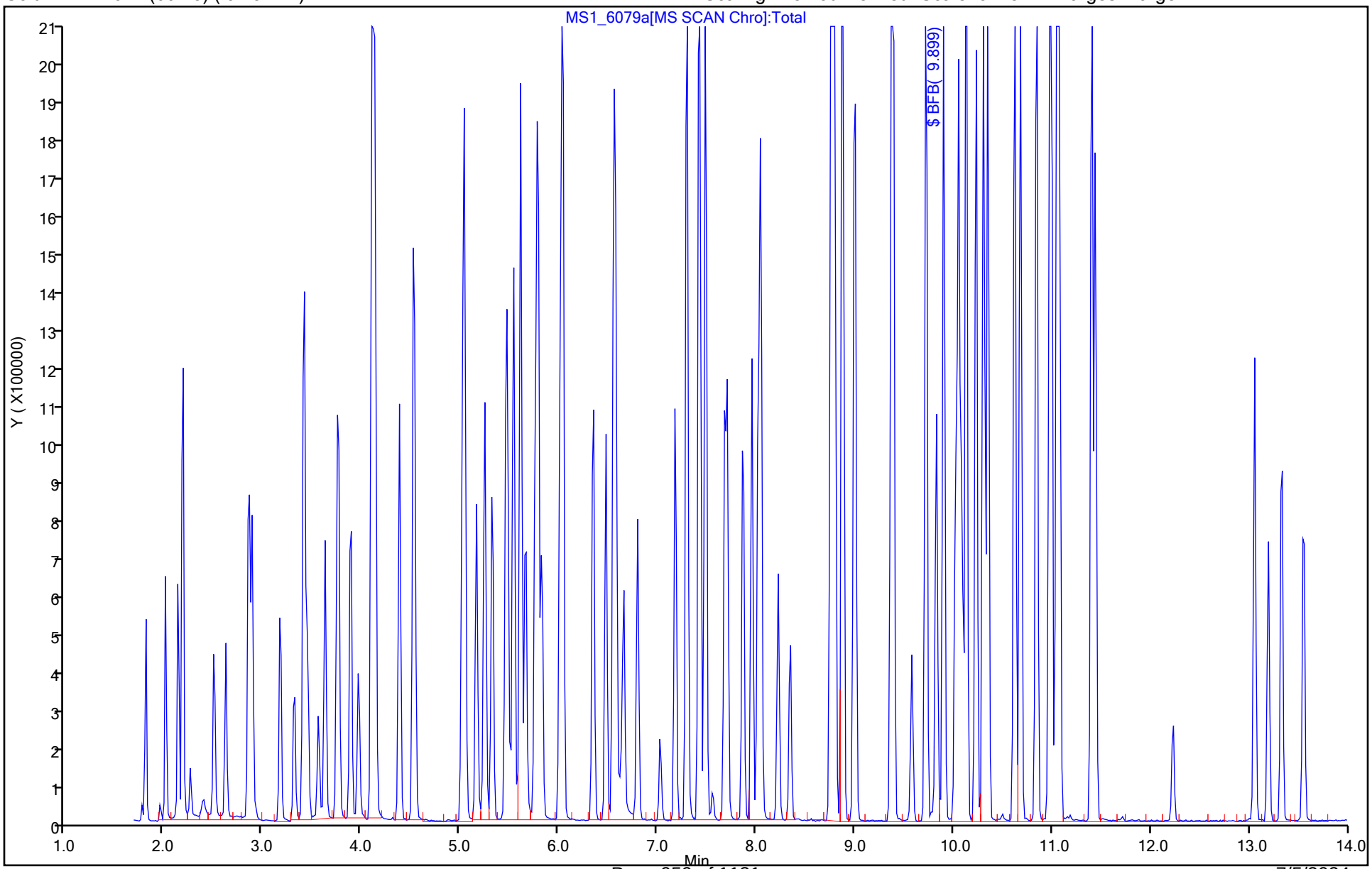
Report Date: 02-Jul-2024 01:27:39 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079a.D

Injection Date:	01-Jul-2024 22:22:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	31
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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_bfb.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Jul-2024 08:01:30 ALS Bottle#: 21 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: CCVC
Operator ID: bj Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:12 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 09:18:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	9.900	9.900	0.000	0	646158	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

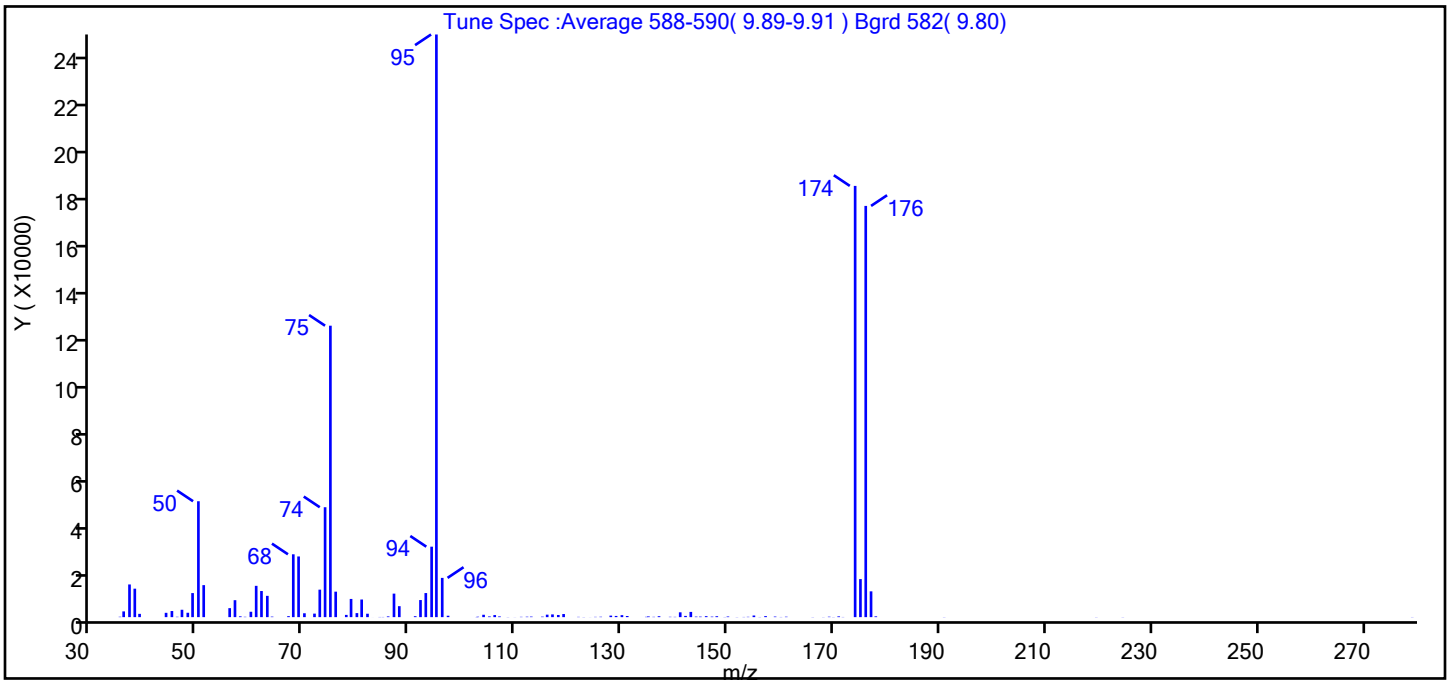
mv-Cent BFB_00007 Amount Added: 5.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_bfb.D
Injection Date: 02-Jul-2024 08:01:30 Instrument ID: VMS_MS1
Lims ID: BFB
Client ID:
Operator ID: bj ALS Bottle#: 21 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	19.9
75	30 to 60% of m/z 95	50.0
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	74.0
175	5 to 9% of m/z 174	6.5 (8.8)
176	Greater than 95% but less than 101% of m/z 174	70.6 (95.4)
177	5 to 9% of m/z 176	4.4 (6.3)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_bfb.D\AQ_VMS1_8260.rslt\spec
Injection Date: 02-Jul-2024 08:01:30
Spectrum: Tune Spec :Average 588-590(9.89-9.91) Bgrd 582(9.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	159	75.00	123056	112.00	189	148.00	395
36.00	2429	76.00	10759	113.00	233	149.00	64
37.00	13803	78.00	949	115.00	212	150.00	273
38.00	12021	79.00	7686	116.00	1048	152.00	55
39.00	1388	80.00	1702	117.00	1157	153.00	81
44.00	1826	81.00	7448	118.00	917	154.00	140
45.00	2580	82.00	1445	119.00	1315	155.00	688
46.00	152	83.00	10	122.00	118	156.00	67
47.00	3116	84.00	76	123.00	57	157.00	436
48.00	1849	85.00	76	124.00	26	159.00	245
49.00	10160	86.00	312	125.00	120	160.00	72
50.00	48936	87.00	9931	126.00	167	161.00	186
51.00	13516	88.00	4633	128.00	642	166.00	60
56.00	3798	91.00	397	129.00	509	168.00	50
57.00	7161	92.00	7219	130.00	838	169.00	187
58.00	338	93.00	10169	131.00	483	170.00	57
59.00	141	94.00	29752	135.00	136	171.00	323
60.00	2275	95.00	246016	135.00	305	172.00	73
61.00	13218	96.00	16576	136.00	133	174.00	182080
62.00	11029	97.00	595	137.00	396	175.00	16064
63.00	8988	103.00	53	139.00	146	176.00	173632
64.00	221	103.00	182	140.00	119	177.00	10894
67.00	414	104.00	1006	141.00	2039	178.00	333
68.00	26536	105.00	294	142.00	523	191.00	57
69.00	25624	106.00	872	143.00	2212	220.00	56
70.00	1638	107.00	298	144.00	219	224.00	53
72.00	1486	108.00	52	145.00	223	279.00	63
73.00	11607	110.00	29	146.00	416		
74.00	46408	111.00	131	147.00	222		

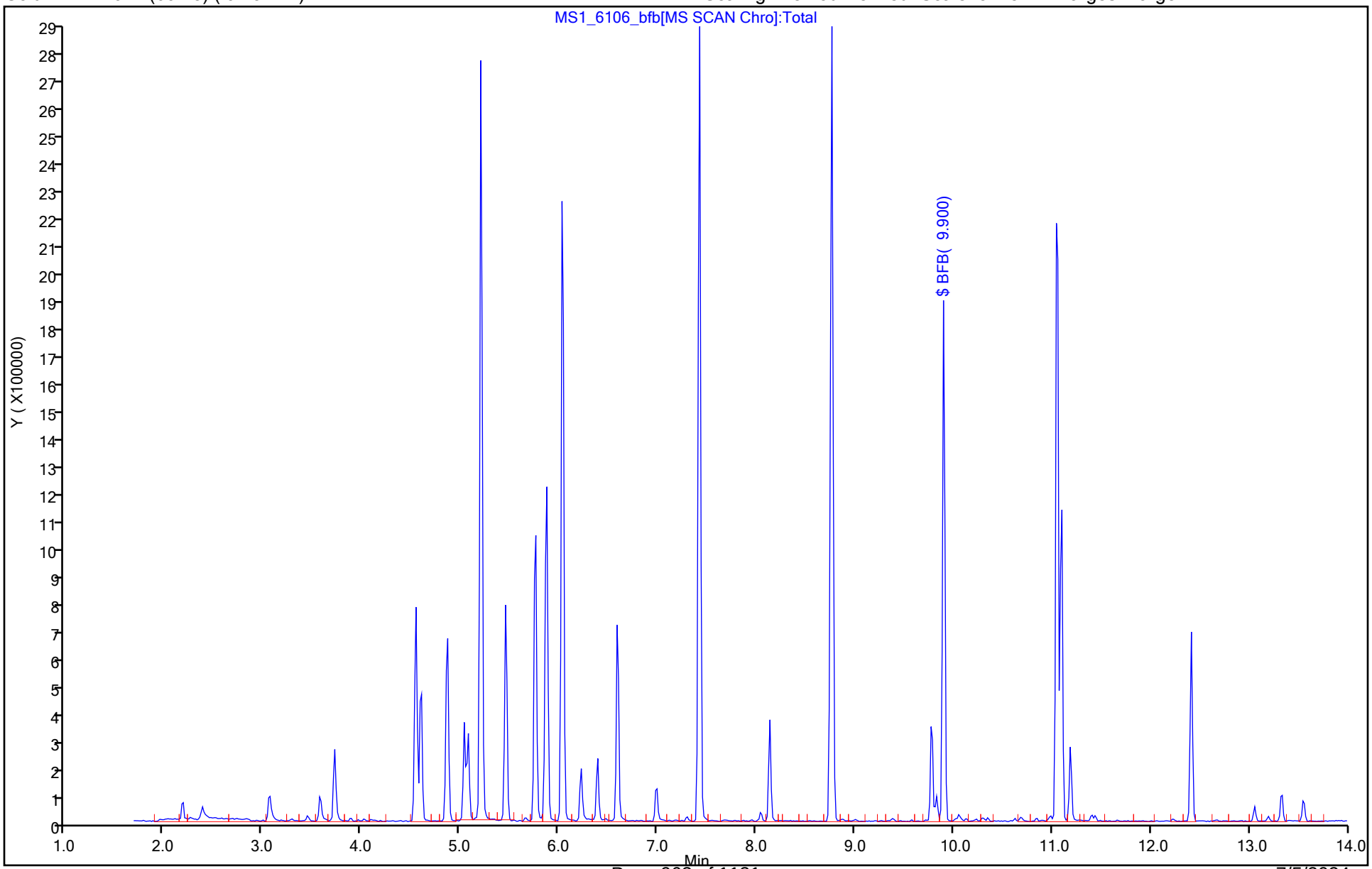
Report Date: 02-Jul-2024 15:56:12 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6106_bfb.D

Injection Date:	02-Jul-2024 08:01:30	Instrument ID:	VMS_MS1	Operator ID:	bj
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86599.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Jun-2024 14:05:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	2.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	BJ	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	25-Jun-2024 13:45:37	Calib Date:	24-Jun-2024 17:10:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86608.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1624				
First Level Reviewer: V8PV		Date:	25-Jun-2024 01:02:49		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.545	8.545	0.000	90	629501	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

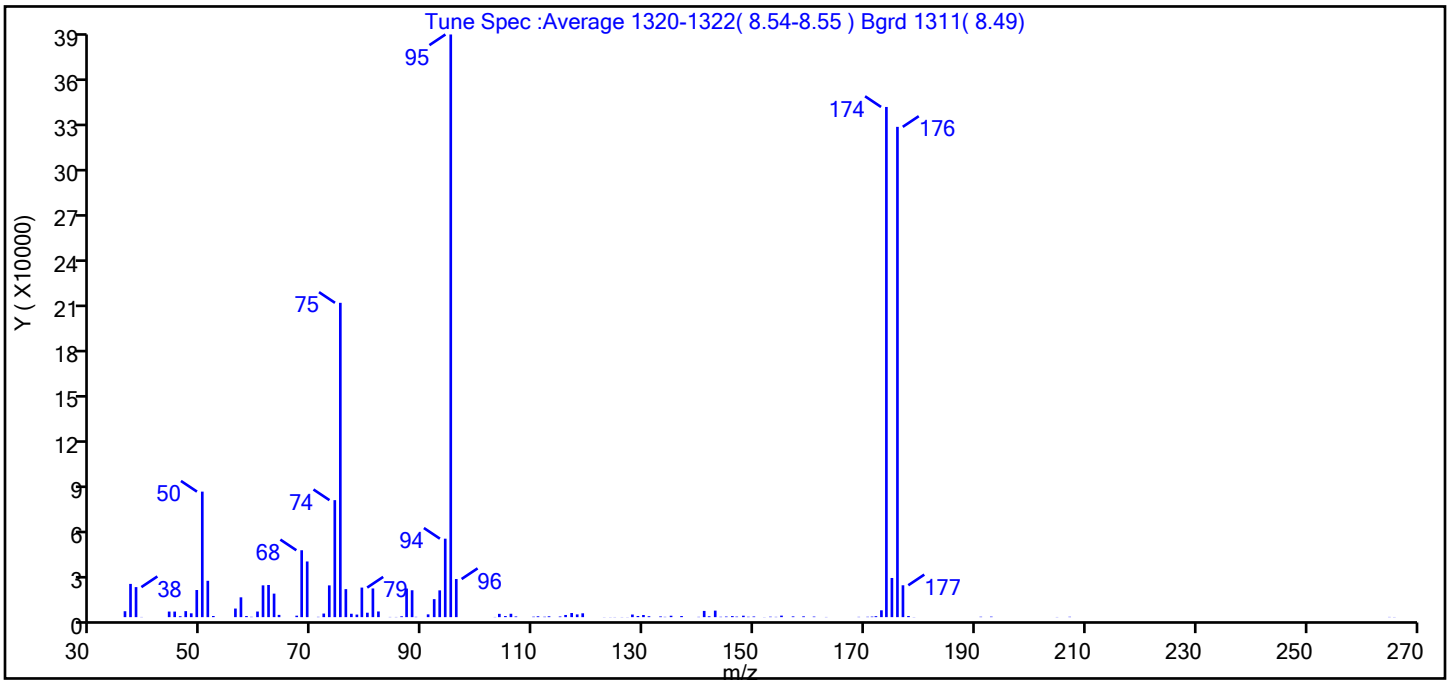
mv-Cent BFB_00008 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86599.D
Injection Date: 24-Jun-2024 14:05:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: BJ ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_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	21.5
75	30 to 60% of m/z 95	53.9
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.2 (1.3)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	6.7 (7.7)
176	Greater than 95% but less than 101% of m/z 174	84.1 (96.1)
177	5 to 9% of m/z 176	5.5 (6.5)

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86599.D\AQ_VMSP_8260.rslt\spectra.d
Injection Date: 24-Jun-2024 14:05:30
Spectrum: Tune Spec :Average 1320-1322(8.54-8.55) Bgrd 1311(8.49)
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	3916	74.00	77488	112.00	275	148.00	950
37.00	22016	75.00	208192	113.00	568	149.00	254
38.00	19896	76.00	18552	115.00	430	150.00	435
39.00	125	77.00	2245	116.00	1439	152.00	88
44.00	3701	78.00	1705	117.00	2741	153.00	295
45.00	3683	79.00	19584	118.00	1818	154.00	187
46.00	603	80.00	2933	119.00	2548	155.00	1007
47.00	3977	81.00	19000	123.00	84	157.00	496
48.00	2542	82.00	3766	124.00	83	159.00	523
49.00	17968	84.00	133	125.00	100	161.00	375
50.00	83136	85.00	122	126.00	99	163.00	120
51.00	24072	86.00	559	127.00	84	169.00	184
52.00	755	87.00	18936	128.00	1727	170.00	242
56.00	5693	88.00	17808	129.00	764	171.00	365
57.00	13130	89.00	195	130.00	1419	172.00	650
58.00	726	91.00	1840	131.00	602	173.00	4533
59.00	221	92.00	11927	133.00	483	174.00	337920
60.00	3718	93.00	17744	134.00	198	175.00	25944
61.00	21056	94.00	51968	135.00	928	176.00	324736
62.00	21296	95.00	385920	137.00	722	177.00	21112
63.00	15578	96.00	25248	140.00	192	178.00	723
64.00	1495	103.00	119	141.00	4131	179.00	98
67.00	973	104.00	2185	142.00	558	191.00	265
68.00	44304	105.00	740	143.00	4313	193.00	329
69.00	36872	106.00	2242	144.00	241	205.00	109
71.00	194	107.00	469	145.00	400	207.00	237
72.00	2379	110.00	307	146.00	699	265.00	139
73.00	21032	111.00	565	147.00	356	266.00	101

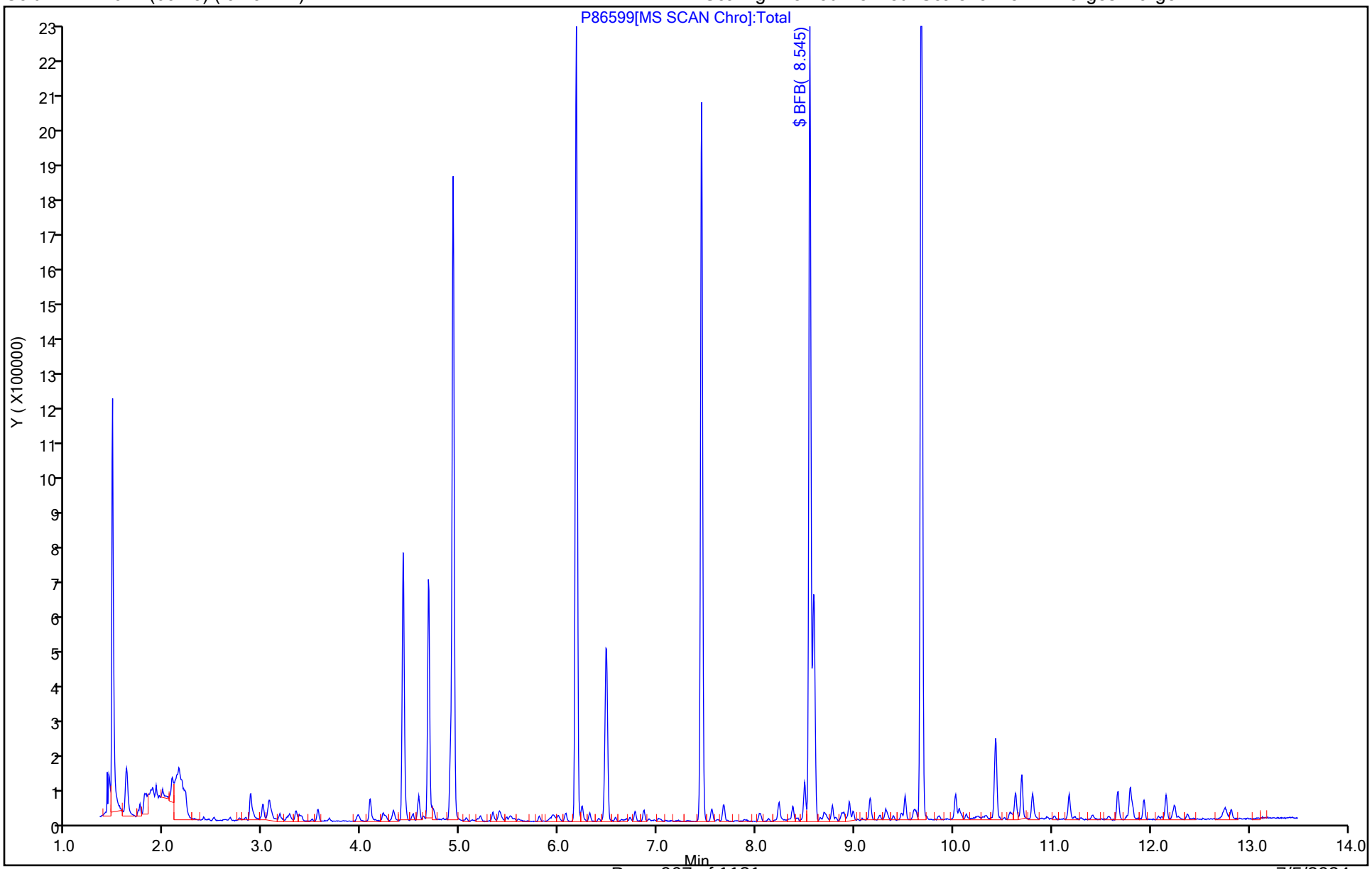
Report Date: 25-Jun-2024 13:45:38 Chrom Revision: 2.3 23-Jun-2024 11:08:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240621-134755.b\P86599.D

Injection Date:	24-Jun-2024 14:05:30	Instrument ID:	VMS_P	Operator ID:	BJ
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86674_BFB.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Jun-2024 10:36:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: GAS
Operator ID: GO Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 27-Jun-2024 13:35:13 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1607

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.545	8.545	0.000	95	315519	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

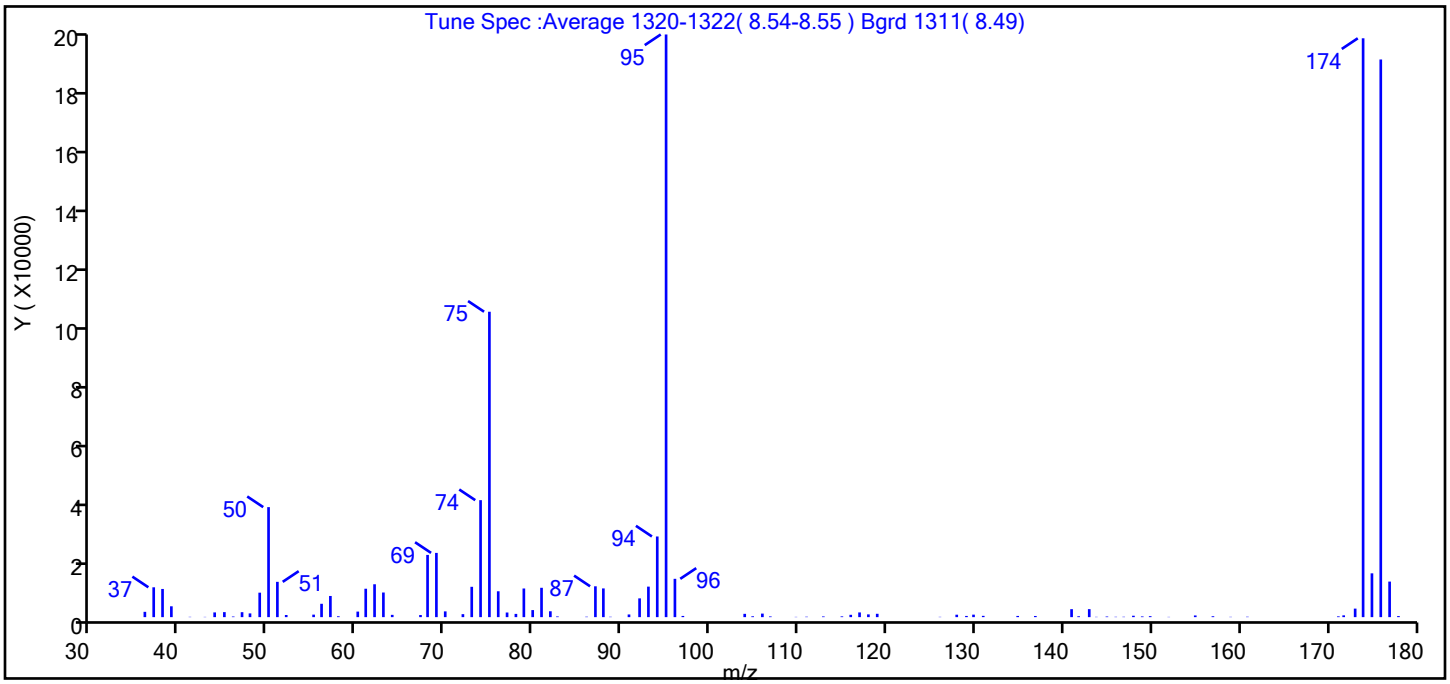
mv-Cent BFB_00008 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86674_BFB.D
Injection Date: 26-Jun-2024 10:36:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: GO ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_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	18.9
75	30 to 60% of m/z 95	52.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.5 (1.5)
174	50 to 120% of m/z 95	99.3
175	5 to 9% of m/z 174	7.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	95.7 (96.3)
177	5 to 9% of m/z 176	6.1 (6.4)

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86674_BFB.D\AQ_VMSP_8260.rslt\spectra.c
Injection Date: 26-Jun-2024 10:36:30
Spectrum: Tune Spec :Average 1320-1322(8.54-8.55) Bgrd 1311(8.49)
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	1781	67.00	705	95.00	195328	143.00	2681
37.00	10005	68.00	20864	96.00	12847	144.00	101
38.00	9448	69.00	21536	97.00	404	145.00	212
39.00	3637	70.00	1930	104.00	1109	146.00	117
41.00	103	72.00	1002	105.00	291	147.00	125
43.00	84	73.00	10169	106.00	1190	148.00	471
44.00	1587	74.00	39216	107.00	233	149.00	235
45.00	1683	75.00	102384	110.00	88	150.00	324
46.00	206	76.00	8672	111.00	143	152.00	84
47.00	1662	77.00	1553	113.00	232	155.00	563
48.00	1255	78.00	1089	115.00	259	157.00	300
49.00	8203	79.00	9605	116.00	783	159.00	100
50.00	36880	80.00	2367	117.00	1579	161.00	138
51.00	11834	81.00	9843	118.00	925	171.00	260
52.00	719	82.00	1969	119.00	1126	172.00	600
55.00	844	83.00	231	126.00	99	173.00	2858
56.00	4477	86.00	146	128.00	817	174.00	194048
57.00	7098	87.00	10342	129.00	404	175.00	14686
58.00	287	88.00	9630	130.00	839	176.00	186944
60.00	1860	89.00	125	131.00	433	177.00	11919
61.00	9525	91.00	899	135.00	405	178.00	353
62.00	11023	92.00	6294	137.00	390		
63.00	8259	93.00	10231	141.00	2678		
64.00	769	94.00	27040	142.00	293		

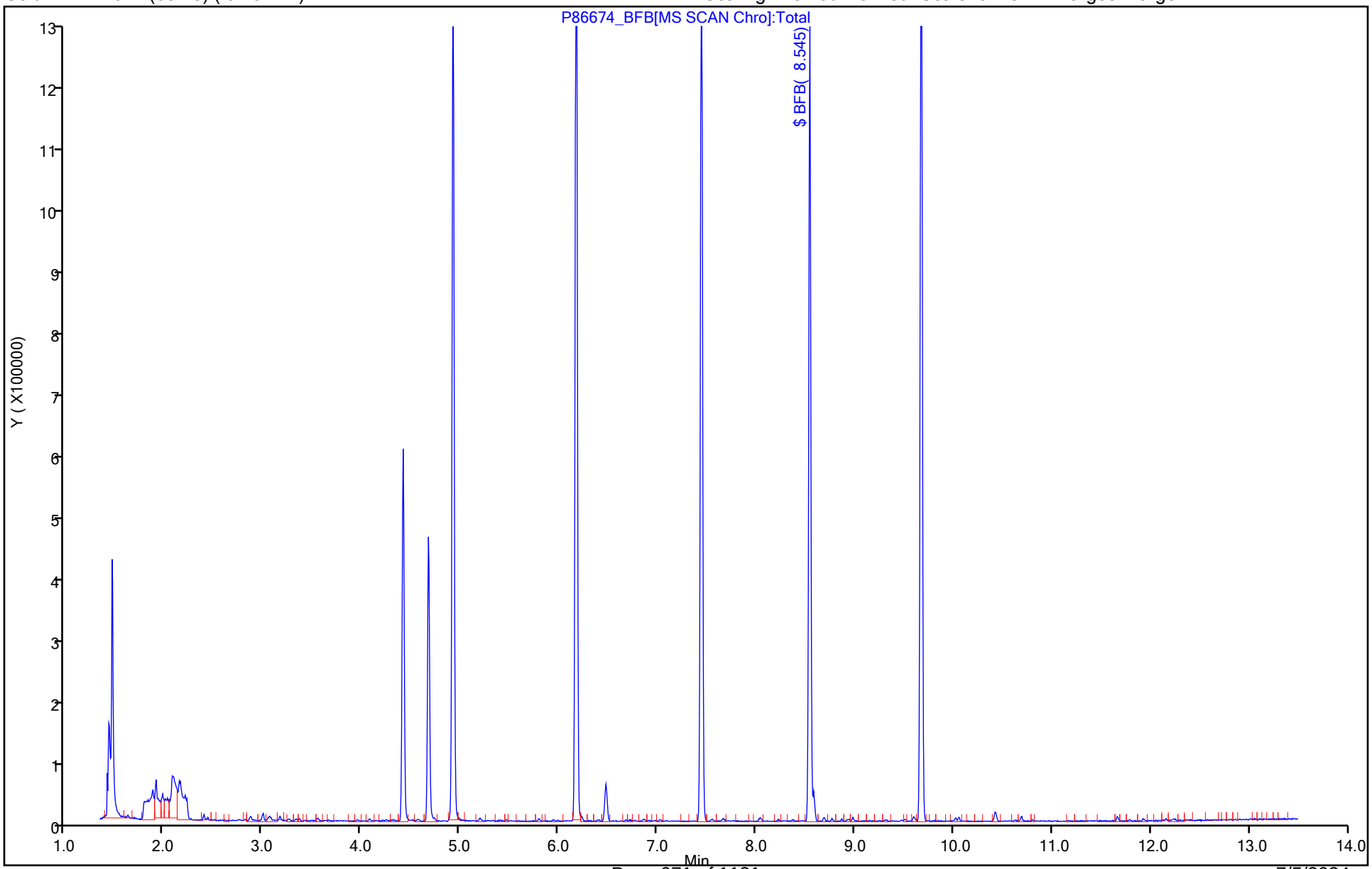
Report Date: 27-Jun-2024 13:35:14 Chrom Revision: 2.3 24-Jun-2024 12:25:02

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86674_BFB.D

Injection Date:	26-Jun-2024 10:36:30	Instrument ID:	VMS_P	Operator ID:	GO
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86867.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Jul-2024 09:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB/PRIME
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:40 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	8.539	8.539	0.000	90	405071	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

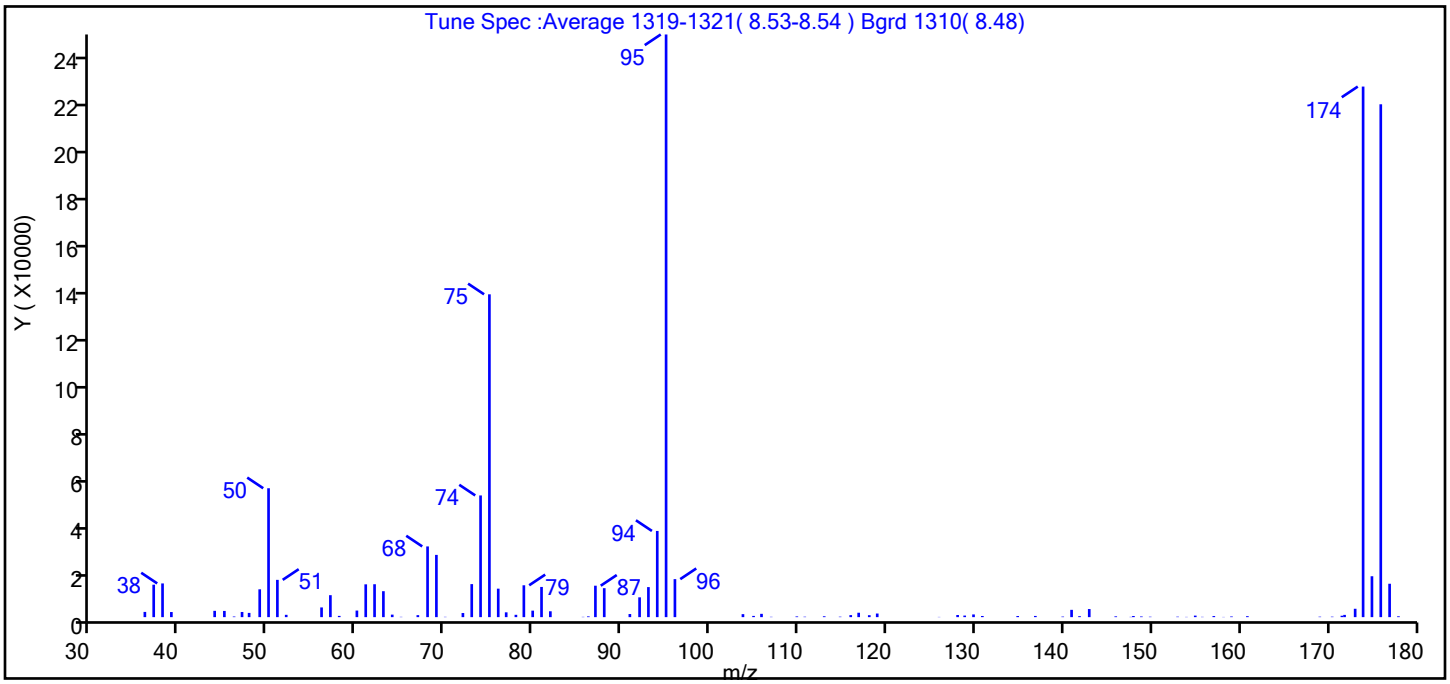
mv-Cent BFB_00008 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86867.D
Injection Date: 01-Jul-2024 09:21:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: COULTER ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_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	22.1
75	30 to 60% of m/z 95	55.4
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.4 (1.6)
174	50 to 120% of m/z 95	91.1
175	5 to 9% of m/z 174	7.0 (7.7)
176	Greater than 95% but less than 101% of m/z 174	88.0 (96.7)
177	5 to 9% of m/z 176	5.7 (6.5)

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86867.D\AQ_VMSP_8260.rslt\spectra.d
Injection Date: 01-Jul-2024 09:21:30
Spectrum: Tune Spec :Average 1319-1321(8.53-8.54) Bgrd 1310(8.48)
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	2209	69.00	26312	105.00	519	148.00	476
37.00	13719	70.00	126	106.00	1399	149.00	280
38.00	14249	72.00	1741	107.00	136	150.00	179
39.00	2160	73.00	13963	110.00	308	153.00	195
44.00	2665	74.00	51440	111.00	181	154.00	103
45.00	2624	75.00	136448	113.00	364	155.00	645
46.00	259	76.00	12039	115.00	196	156.00	124
47.00	2182	77.00	2037	116.00	859	157.00	455
48.00	1790	78.00	988	117.00	1863	158.00	86
49.00	11763	79.00	13468	118.00	824	159.00	278
50.00	54480	80.00	2752	119.00	1527	161.00	406
51.00	15758	81.00	12760	126.00	94	169.00	198
52.00	980	82.00	2480	128.00	908	170.00	200
56.00	4107	86.00	117	129.00	664	172.00	596
57.00	9283	86.00	321	130.00	1145	172.00	952
58.00	531	87.00	13289	131.00	489	173.00	3538
60.00	2782	88.00	12246	135.00	468	174.00	224256
61.00	13868	91.00	1319	137.00	507	175.00	17288
62.00	13910	92.00	8370	140.00	231	176.00	216768
63.00	10969	93.00	12698	141.00	3088	177.00	14115
64.00	1068	94.00	36432	142.00	405	178.00	351
65.00	125	95.00	246272	143.00	3419		
67.00	844	96.00	16065	146.00	334		
68.00	29888	104.00	1268	148.00	113		

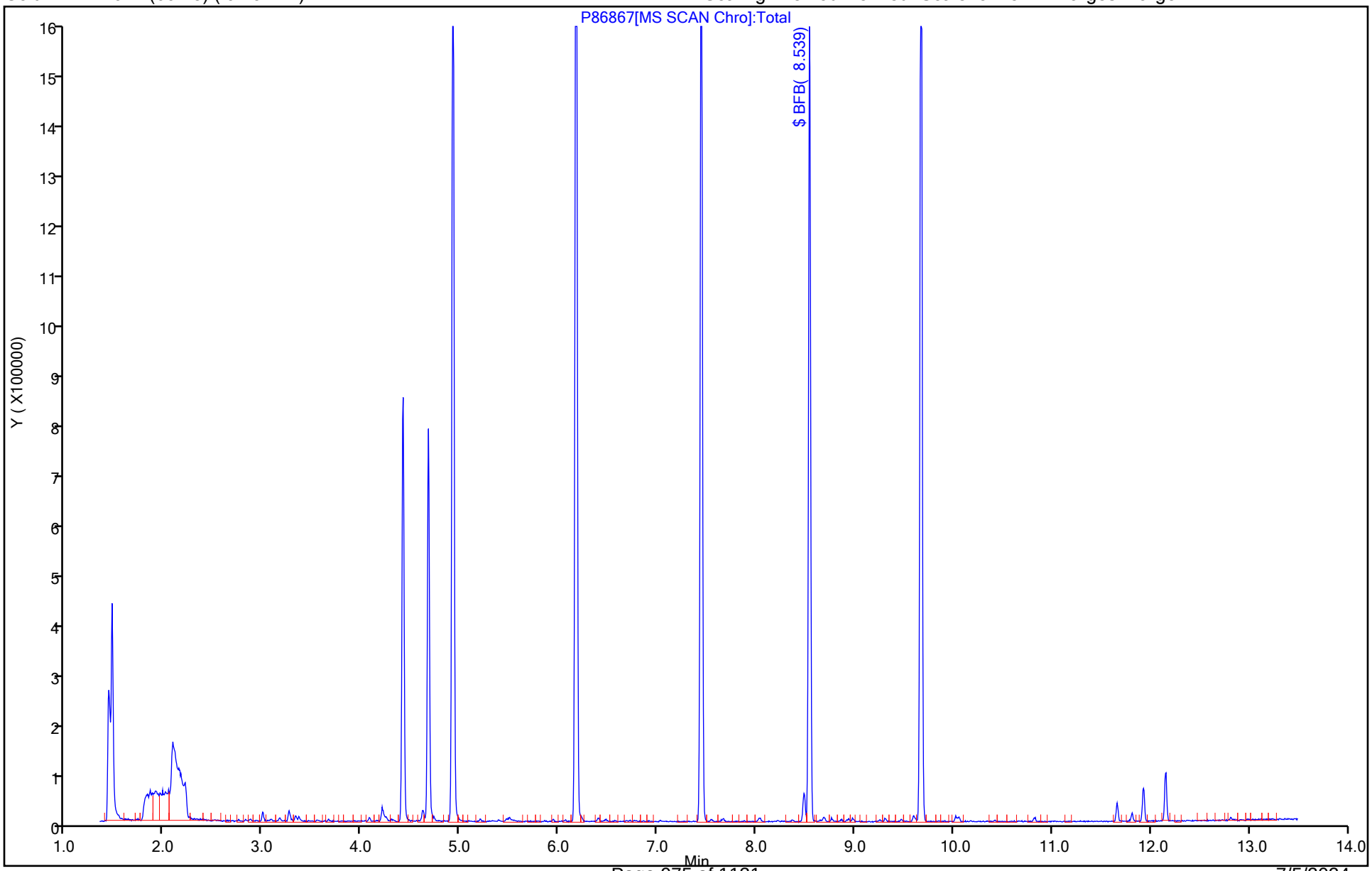
Report Date: 01-Jul-2024 13:15:41 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86867.D

Injection Date:	01-Jul-2024 09:21:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658893/9

Matrix: Water | Lab File ID: P86874.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:06

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658893/9

Matrix: Water | Lab File ID: P86874.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:06

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658893/9

Matrix: Water | Lab File ID: P86874.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 12:06

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.: 658893 | Units: ug/L

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)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86874.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2024 12:06:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: NNS5 Date: 01-Jul-2024 13:15:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1376679	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	317867	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	522192	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	91	362997	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	350476	50.0	51.3	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1336511	50.0	51.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	410263	50.0	51.2	
$ 8 BFB	95	8.539	8.539	0.000	91	410263		NR	
9 Dichlorodifluoromethane	85		1.626					ND	
10 Chloromethane	50		1.806					ND	
11 Vinyl chloride	62		1.882					ND	
12 Bromomethane	94		2.150					ND	7
13 Chloroethane	64		2.232					ND	
14 Dichlorofluoromethane	67		2.395					ND	
15 Trichlorofluoromethane	101		2.434					ND	
16 Ethanol	45		2.592					ND	
17 Ethyl ether	59		2.657					ND	
18 Acrolein	56		2.750					ND	
19 1,1-Dichloroethene	96		2.821					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.821					ND	
21 Acetone	43	2.870	2.865	0.005	98	11945		0.7983	
23 Iodomethane	142		2.936					ND	
22 Isopropyl alcohol	45		2.974					ND	
24 Carbon disulfide	76	2.996	2.996	0.000	78	3524		0.1598	
27 Acetonitrile	41		3.050					ND	7
26 3-Chloro-1-propene	41		3.077					ND	U
25 Methyl acetate	43		3.083					ND	
28 Methylene Chloride	84	3.165	3.170	-0.005	81	1585		0.1865	
29 2-Methyl-2-propanol	59		3.263					ND	
30 Acrylonitrile	53		3.328					ND	
32 trans-1,2-Dichloroethene	96		3.367					ND	
31 Methyl tert-butyl ether	73		3.383					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		3.552					ND	
34 Vinyl acetate	43		3.667					ND	
36 1,1-Dichloroethane	63		3.672					ND	
35 Isopropyl ether	87		3.699					ND	
37 2-Chloro-1,3-butadiene	53		3.727					ND	
38 Tert-butyl ethyl ether	59		3.956					ND	
39 2-Butanone (MEK)	43		4.076					ND	
41 cis-1,2-Dichloroethene	96		4.076					ND	
42 2,2-Dichloropropane	77		4.081					ND	
40 Ethyl acetate	43		4.098					ND	
43 Propionitrile	54		4.103					ND	
44 sec-Butyl Alcohol	45		4.207					ND	
45 Methacrylonitrile	41		4.212					ND	
46 Chlorobromomethane	128		4.245					ND	
48 Chloroform	83		4.305					ND	
47 Tetrahydrofuran	42		4.311					ND	
49 1,1,1-Trichloroethane	97		4.452					ND	
50 Cyclohexane	56		4.512					ND	
51 1,1-Dichloropropene	75		4.562					ND	
52 Carbon tetrachloride	117		4.572					ND	
55 Isobutyl alcohol	41		4.616					ND	U
53 Benzene	78		4.714					ND	
54 1,2-Dichloroethane	62		4.731					ND	
56 Tert-amyl methyl ether	73		4.812					ND	
57 n-Heptane	43		4.900					ND	
58 n-Butanol	56		5.113					ND	
59 Trichloroethene	95		5.200					ND	
60 2-Pentanone	43		5.320					ND	
61 Methylcyclohexane	55		5.391					ND	
62 1,2-Dichloropropane	63		5.391					ND	
63 Methyl methacrylate	100		5.429					ND	
65 Dibromomethane	93		5.467					ND	
64 1,4-Dioxane	88		5.489					ND	
66 Dichlorobromomethane	83		5.587					ND	
67 2-Nitropropane	41		5.751					ND	
68 2-Chloroethyl vinyl ether	63		5.795					ND	
69 cis-1,3-Dichloropropene	75		5.942					ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.062					ND	
71 Toluene	91		6.231					ND	
72 trans-1,3-Dichloropropene	75		6.400					ND	
73 Ethyl methacrylate	69		6.449					ND	
74 1,1,2-Trichloroethane	97		6.569					ND	
75 Tetrachloroethene	164		6.679					ND	
76 1,3-Dichloropropane	76		6.717					ND	
77 2-Hexanone	43		6.766					ND	
78 Chlorodibromomethane	129		6.913					ND	
79 Ethylene Dibromide	107		7.028					ND	
80 1-Chlorohexane	91		7.426					ND	U
81 Chlorobenzene	112		7.470					ND	
82 1,1,1,2-Tetrachloroethane	131		7.541					ND	
83 Ethylbenzene	106		7.552					ND	
84 m-Xylene & p-Xylene	106		7.666					ND	7

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		8.026				ND		
86 Styrene	104		8.043				ND		
87 Bromoform	173		8.217				ND		
88 Isopropylbenzene	105		8.370				ND		
89 cis-1,4-Dichloro-2-butene	53		8.408				ND		
90 Cyclohexanone	55		8.485				ND		U
92 1,1,2,2-Tetrachloroethane	83		8.648				ND		
93 trans-1,4-Dichloro-2-butene	53		8.687				ND		
94 Bromobenzene	156		8.687				ND		
95 1,2,3-Trichloropropane	110		8.708				ND		
96 N-Propylbenzene	120		8.768				ND		
97 2-Chlorotoluene	126		8.867				ND		
98 1,3,5-Trimethylbenzene	105		8.943				ND		
99 4-Chlorotoluene	126		8.981				ND		
100 tert-Butylbenzene	119		9.254				ND		
91 Pentachloroethane	167		9.298				ND		
101 1,2,4-Trimethylbenzene	105		9.309				ND		
102 sec-Butylbenzene	134		9.472				ND		
103 1,3-Dichlorobenzene	146		9.598				ND		
104 4-Isopropyltoluene	119		9.620				ND		
105 1,4-Dichlorobenzene	146		9.696				ND		
106 1,2,3-Trimethylbenzene	105		9.718				ND		
107 n-Butylbenzene	91		10.023				ND		
108 1,2-Dichlorobenzene	146		10.056				ND		
109 1,2-Dibromo-3-Chloropropane	157		10.825				ND		
110 1,3,5-Trichlorobenzene	180		11.022				ND		
111 1,2,4-Trichlorobenzene	180		11.660				ND		
112 Hexachlorobutadiene	225		11.813				ND		
113 Naphthalene	128		11.928				ND		
114 1,2,3-Trichlorobenzene	180		12.151				ND		
115 Ethylene oxide TIC	1		0.000				ND		
116 Tetrahydrothiophene TIC	1		0.000				ND		
117 Propene oxide TIC	58		3.357				ND		
S 118 1,2-Dichloroethene, Total (URS)	96		2.000				ND		7
S 119 Xylenes, Total (URS)	1		0.000				ND		7
S 120 Trihalomethanes, Total	1		0.000				ND		7
S 121 TAH	1				0			0	7
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 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_00077 Amount Added: 5.00 Units: uL Run Reagent

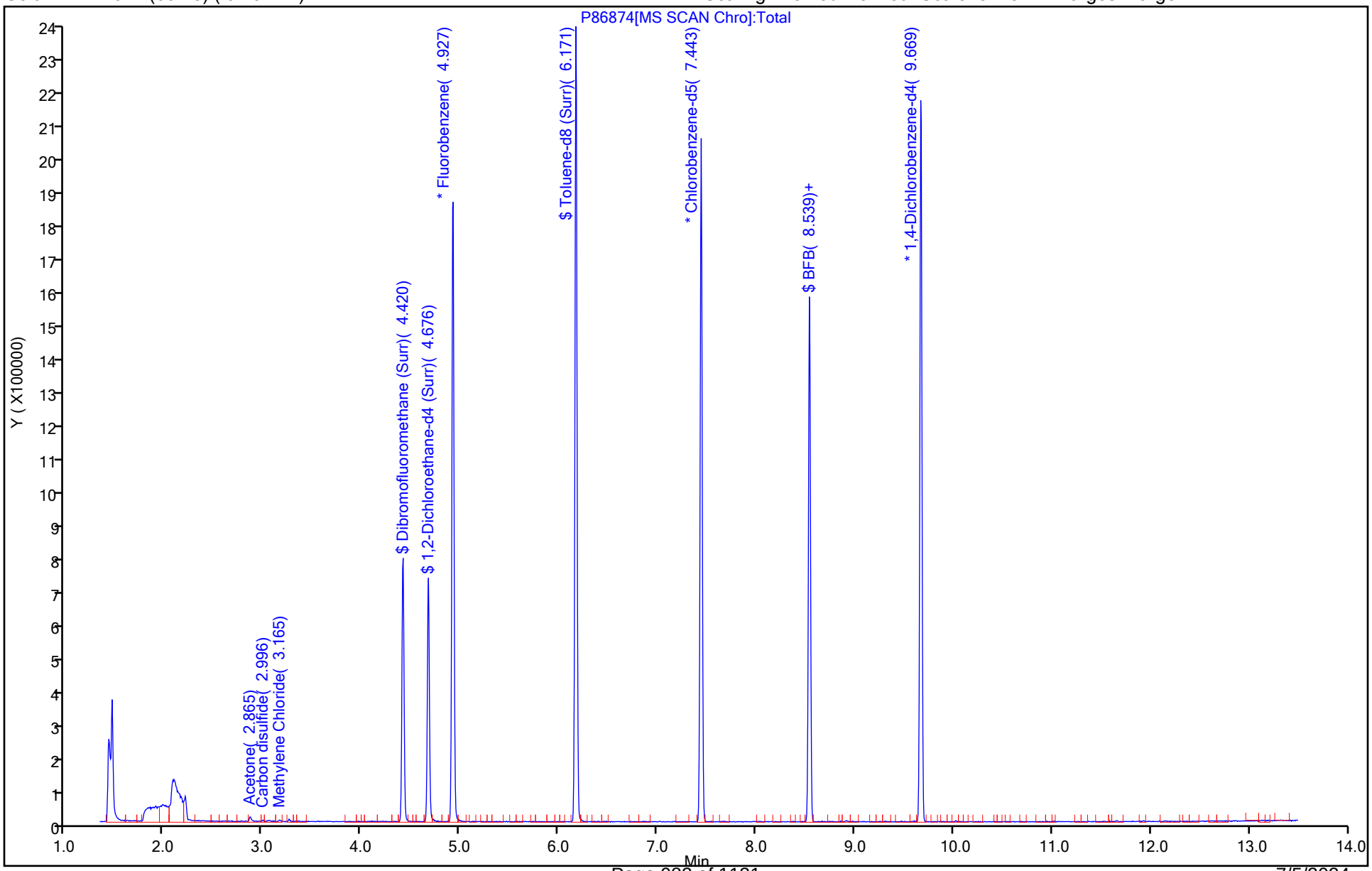
Report Date: 01-Jul-2024 13:16:02 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86874.D

Injection Date:	01-Jul-2024 12:06:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86874.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2024 12:06:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

First Level Reviewer: NNS5 Date: 01-Jul-2024 13:15:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.7	99.35
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.62
$ 6 Toluene-d8 (Surr)	50.0	51.8	103.66
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.2	102.31

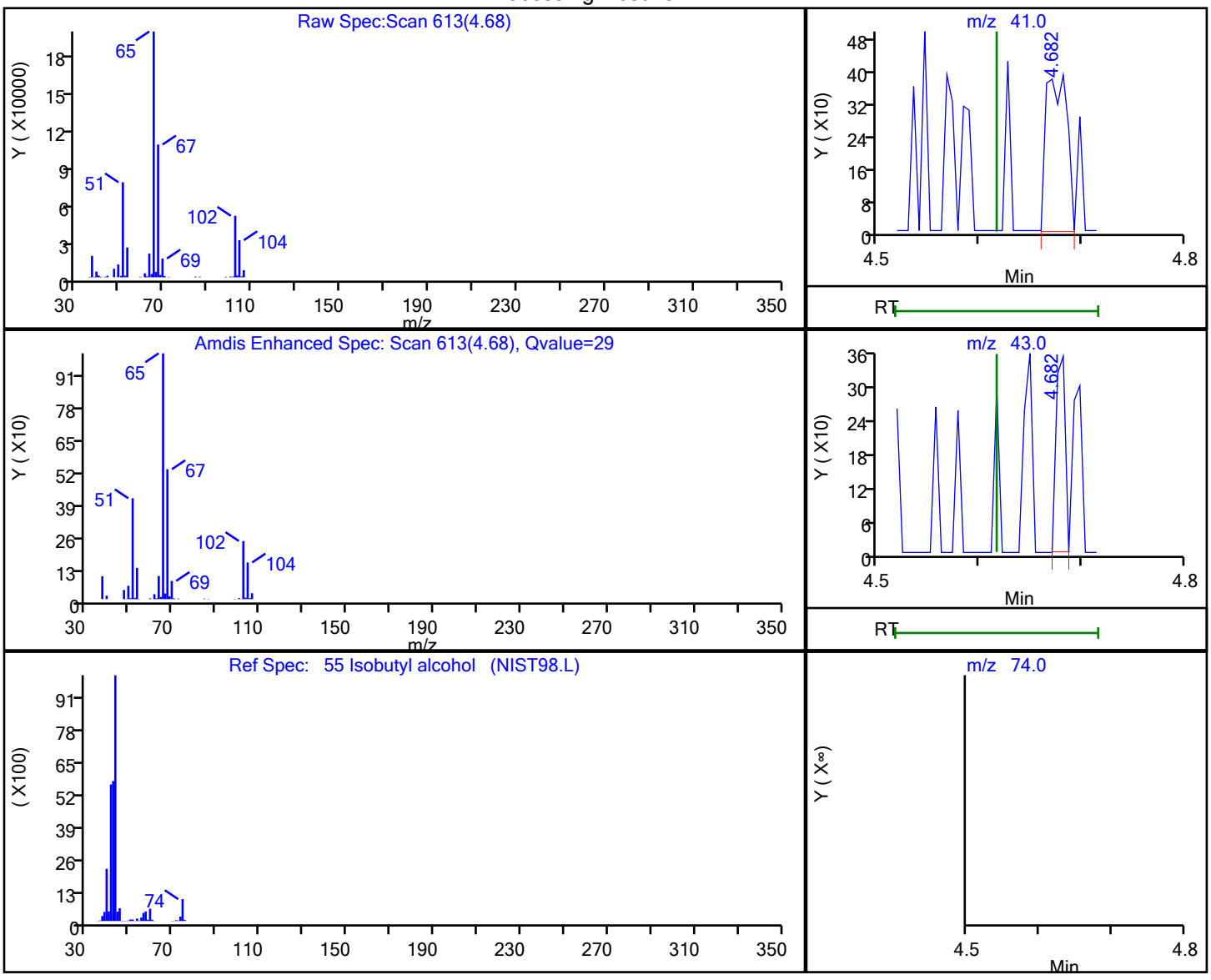
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86874.D				
Injection Date:	01-Jul-2024 12:06:30	Instrument ID:	VMS_P		
Lims ID:	MB				
Client ID:					
Operator ID:	COULTER	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

55 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.68	41.00	553	2.917356
4.68	43.00	220	
4.62	74.00	0	

Reviewer: NNS5, 01-Jul-2024 13:14:26 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

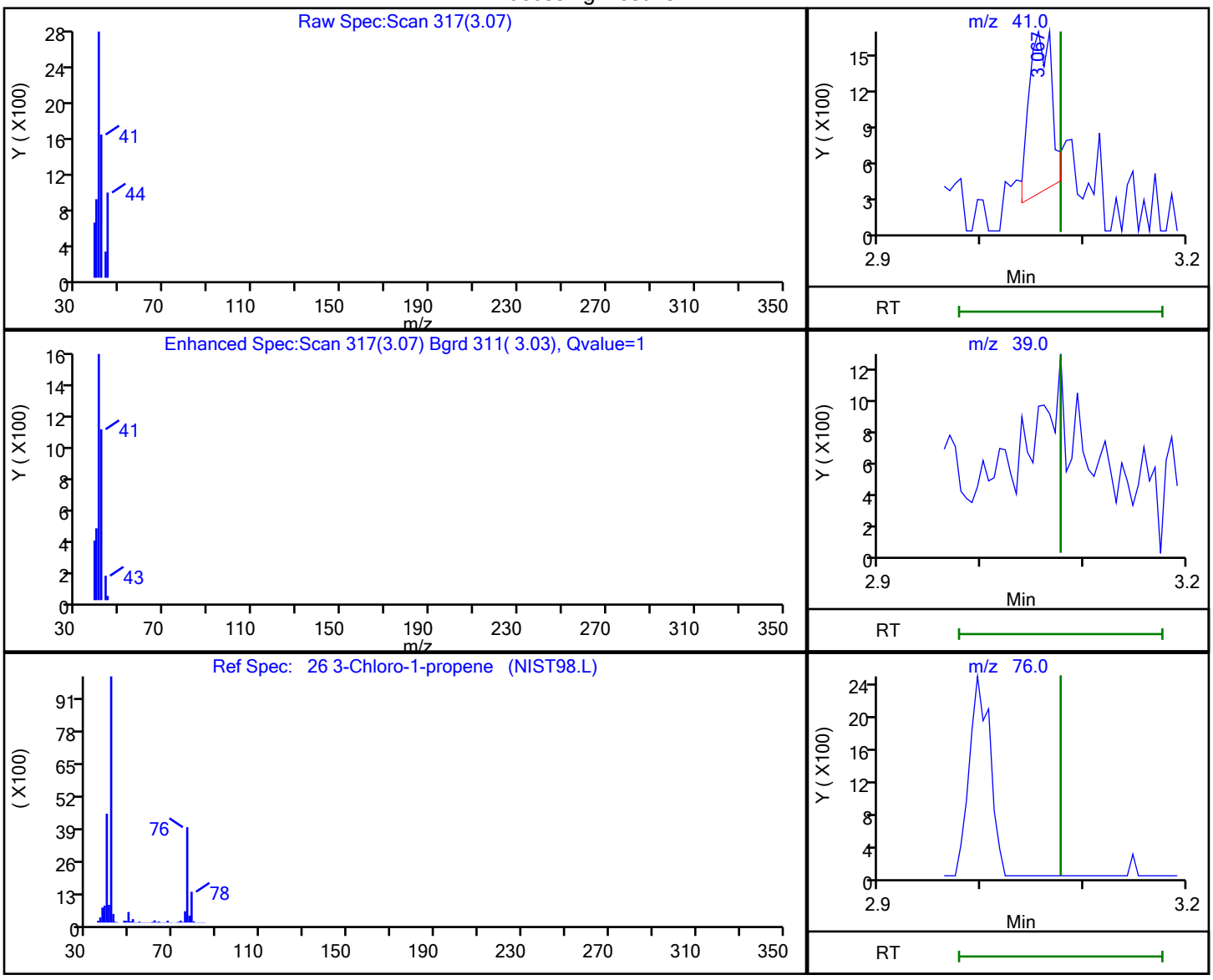
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86874.D
Injection Date: 01-Jul-2024 12:06:30 Instrument ID: VMS_P
Lims ID: MB
Client ID:
Operator ID: COULTER ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

26 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.07	41.00	2036	0.265677
3.08	39.00	0	
3.08	76.00	0	

Reviewer: NNS5, 01-Jul-2024 13:14:12 -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.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658996/9

Matrix: Water | Lab File ID: MS1_6085.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 00:29

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658996/9

Matrix: Water | Lab File ID: MS1_6085.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 00:29

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-658996/9

Matrix: Water | Lab File ID: MS1_6085.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 00:29

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.: 658996 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Jul-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: V8PV Date: 02-Jul-2024 01:18:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1877002	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	426602	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	656749	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	91	436340	50.0	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.765	0.001	0	554471	50.0	50.2	
$ 6 Toluene-d8 (Surr)	98	7.428	7.427	0.001	94	1876548	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.899	0.001	84	635776	50.0	50.3	
$ 8 BFB	95	9.900	9.899	0.001	81	635776		NR	
9 Dichlorodifluoromethane	85		1.813					ND	
10 Chloromethane	50		2.009					ND	
11 Vinyl chloride	62		2.134					ND	
12 Ethylene oxide	43	2.260	2.260	0.000	91	2352		NC	
13 Bromomethane	94		2.497					ND	U
14 Chloroethane	64		2.623					ND	
15 Dichlorofluoromethane	67		2.861					ND	
16 Trichlorofluoromethane	101		2.888					ND	
17 Ethanol	45		3.070					ND	
18 Ethyl ether	59		3.168					ND	
19 Propene oxide	58		3.238					ND	
20 Acrolein	56		3.321					ND	U
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419					ND	
22 1,1-Dichloroethene	96		3.419					ND	
23 Acetone	43	3.447	3.447	0.000	99	25434		1.62	
24 Iodomethane	142		3.559					ND	
25 Isopropyl alcohol	45		3.573					ND	U
26 Carbon disulfide	76	3.629	3.629	0.000	95	3159		0.1701	
27 Acetonitrile	41		3.726					ND	U
28 Methyl acetate	43		3.740					ND	
29 3-Chloro-1-propene	41		3.768					ND	7
30 Methylene Chloride	84	3.894	3.894	0.000	91	4219		0.5449	
31 2-Methyl-2-propanol	59		3.964					ND	
32 Acrylonitrile	53		4.103					ND	U

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		4.131					ND	
34 trans-1,2-Dichloroethene	96		4.131					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		4.522					ND	7
39 1,1-Dichloroethane	63		4.536					ND	
40 Isopropyl ether	87		4.550					ND	
41 2-Chloro-1,3-butadiene	53		4.606					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737					ND	
43 Tert-butyl ethyl ether	59		4.871					ND	
44 2-Butanone (MEK)	43		5.011					ND	
47 Ethyl acetate	43		5.039					ND	U
46 2,2-Dichloropropane	77		5.039					ND	
45 cis-1,2-Dichloroethene	96		5.039					ND	
48 Propionitrile	54		5.081					ND	
49 sec-Butyl Alcohol	45		5.165					ND	
50 Methacrylonitrile	41		5.207					ND	
51 Chlorobromomethane	128		5.249					ND	
52 Tetrahydrofuran	42		5.249					ND	
53 Chloroform	83		5.319					ND	
54 1,1,1-Trichloroethane	97		5.472					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		5.542					ND	
59 Carbon tetrachloride	117		5.612					ND	
58 1,1-Dichloropropene	75		5.612					ND	
60 Isobutyl alcohol	41		5.668					ND	U
61 Benzene	78		5.793					ND	
62 1,2-Dichloroethane	62		5.821					ND	
63 Tert-amyl methyl ether	73		5.877					ND	
64 n-Heptane	43		6.003					ND	U
66 Trichloroethene	95		6.352					ND	
65 n-Butanol	56		6.394					ND	
67 2-Pentanone	43		6.478					ND	
68 Methylcyclohexane	55		6.562					ND	
69 1,2-Dichloropropane	63		6.576					ND	
70 Methyl methacrylate	100		6.603					ND	
71 1,4-Dioxane	88		6.631					ND	
72 Dibromomethane	93		6.659					ND	
73 Dichlorobromomethane	83		6.799					ND	
74 2-Nitropropane	41		6.994					ND	U
75 2-Chloroethyl vinyl ether	63		7.022					ND	
76 cis-1,3-Dichloropropene	75		7.176					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		7.483					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		7.860					ND	
87 3-Methylhexane	43		7.903					ND	
88 2,3-Dimethylpentane	56		7.949					ND	
89 Tetrachloroethene	164		7.958					ND	
90 1,3-Dichloropropane	76		8.014					ND	
91 2-Hexanone	43		8.042					ND	
92 3-Ethylpentane	43		8.214					ND	
93 Chlorodibromomethane	129		8.224					ND	
94 Tetrahydrothiophene	60		8.224					ND	
95 Ethylene Dibromide	107		8.349					ND	
96 1-Chlorohexane	91		8.754					ND	U
97 Chlorobenzene	112		8.796					ND	U
99 1,1,1,2-Tetrachloroethane	131		8.880					ND	
98 Ethylbenzene	106		8.880					ND	
100 m-Xylene & p-Xylene	106		9.006					ND	
101 o-Xylene	106		9.369					ND	
102 Dimethyl disulfide	94		9.388					ND	
103 Styrene	104		9.397					ND	
104 Bromoform	173		9.578					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		10.025					ND	
109 Bromobenzene	156		10.053					ND	
110 trans-1,4-Dichloro-2-butene	53		10.053					ND	
111 1,2,3-Trichloropropane	110		10.081					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		10.346					ND	
116 tert-Butylbenzene	119		10.626					ND	
117 1,2,4-Trimethylbenzene	105		10.682					ND	
118 sec-Butylbenzene	134		10.849					ND	
119 1,3-Dichlorobenzene	146		10.975					ND	U
120 4-Isopropyltoluene	119		10.989					ND	
121 1,4-Dichlorobenzene	146		11.073					ND	7
122 1,2,3-Trimethylbenzene	105		11.100					ND	7
123 Pentachloroethane	167		11.283					ND	
124 n-Butylbenzene	91		11.408					ND	7
125 1,2-Dichlorobenzene	146		11.436					ND	
126 1,2-Dibromo-3-Chloropropane	157		12.232					ND	
127 1,3,5-Trichlorobenzene	180		12.413					ND	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	87	1677		0.2542	
129 Hexachlorobutadiene	225		13.196					ND	
130 Naphthalene	128	13.321	13.335	-0.014	96	7600		0.4764	
131 n-Nonyl Aldehyde	57		13.340					ND	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	82	1749		0.3497	
140 n-Nonane TIC	1		0.000					ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	1		0.000				ND		
137 1-Chlorohexane TIC	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		
142 Ethyl acrylate	55		0.000				ND		
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND		
136 4-Bromofluorobenzene	95		0.000				ND		
138 Pentachloroethane TIC	1		0.000				ND		
135 t-Amyl alcohol	1		0.000				ND		
S 147 1,2-Dichloroethene, Total (URS)	96		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
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

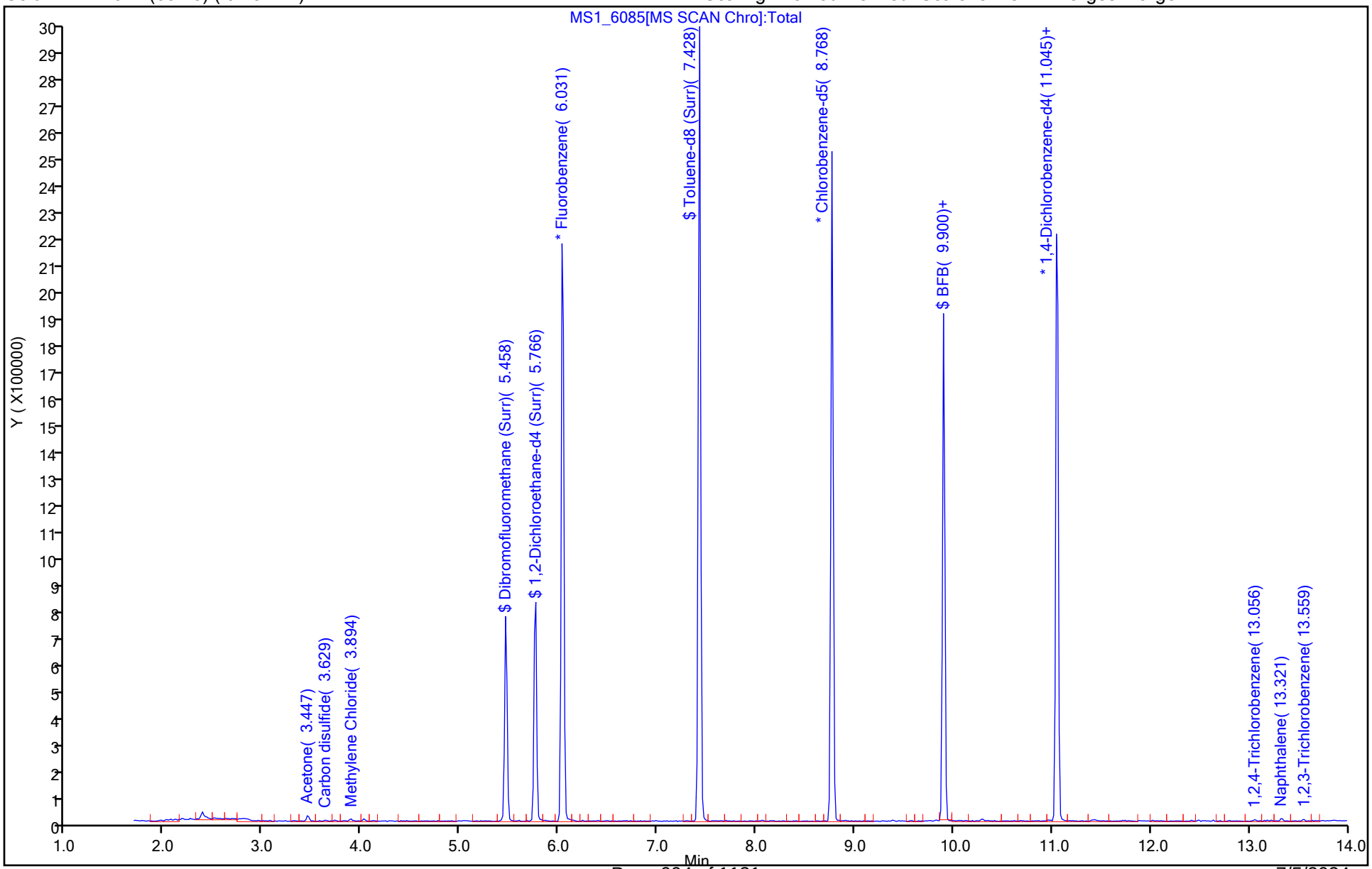
Report Date: 02-Jul-2024 16:26:44 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D

Injection Date:	02-Jul-2024 00:29:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Jul-2024 00:29:30 ALS Bottle#: 37 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:26:05 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: V8PV Date: 02-Jul-2024 01:18:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.56
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.35
$ 6 Toluene-d8 (Surr)	50.0	49.9	99.84
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.3	100.60

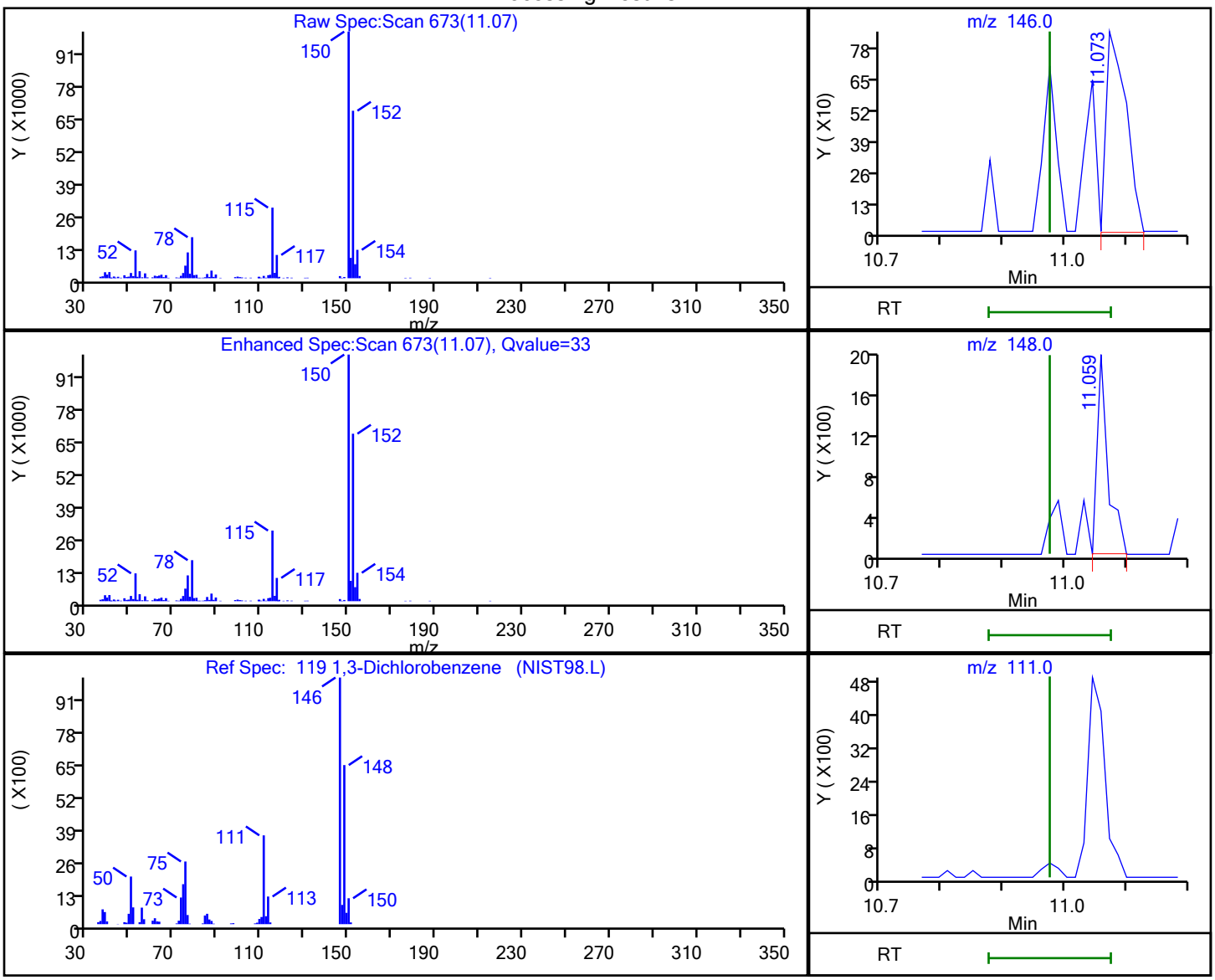
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Injection Date: 02-Jul-2024 00:29:30 Instrument ID: VMS_MS1
Lims ID: MB
Client ID:
Operator ID: go ALS Bottle#: 37 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

119 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
11.07	146.00	1917	0.140228
11.06	148.00	2372	
10.97	111.00	0	

Reviewer: V8PV, 02-Jul-2024 01:18:22 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

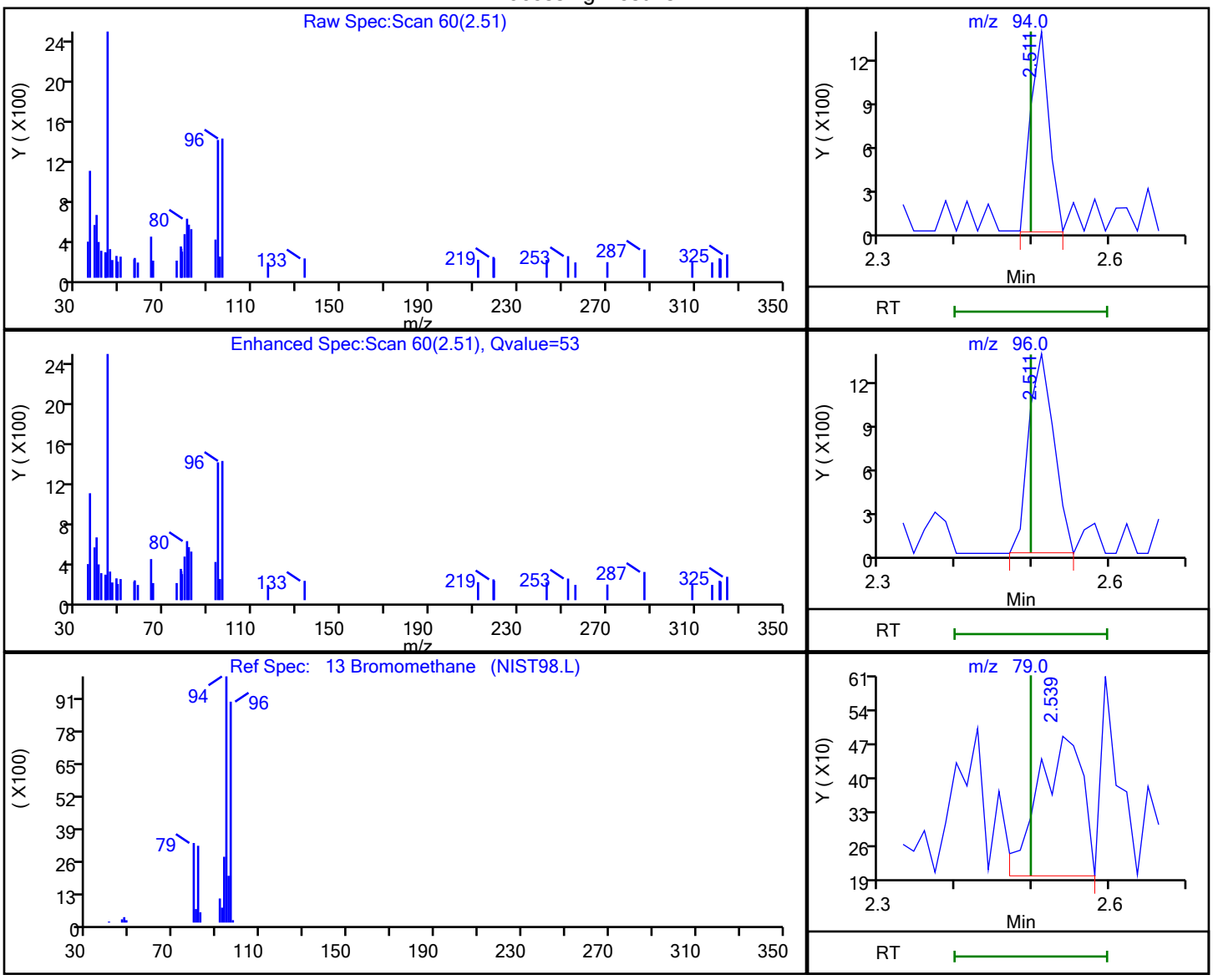
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Injection Date: 02-Jul-2024 00:29:30 Instrument ID: VMS_MS1
Lims ID: MB
Client ID:
Operator ID: go ALS Bottle#: 37 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

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.51	94.00	2295	0.849688
2.51	96.00	3211	
2.54	79.00	1150	

Reviewer: V8PV, 02-Jul-2024 01:18:53 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

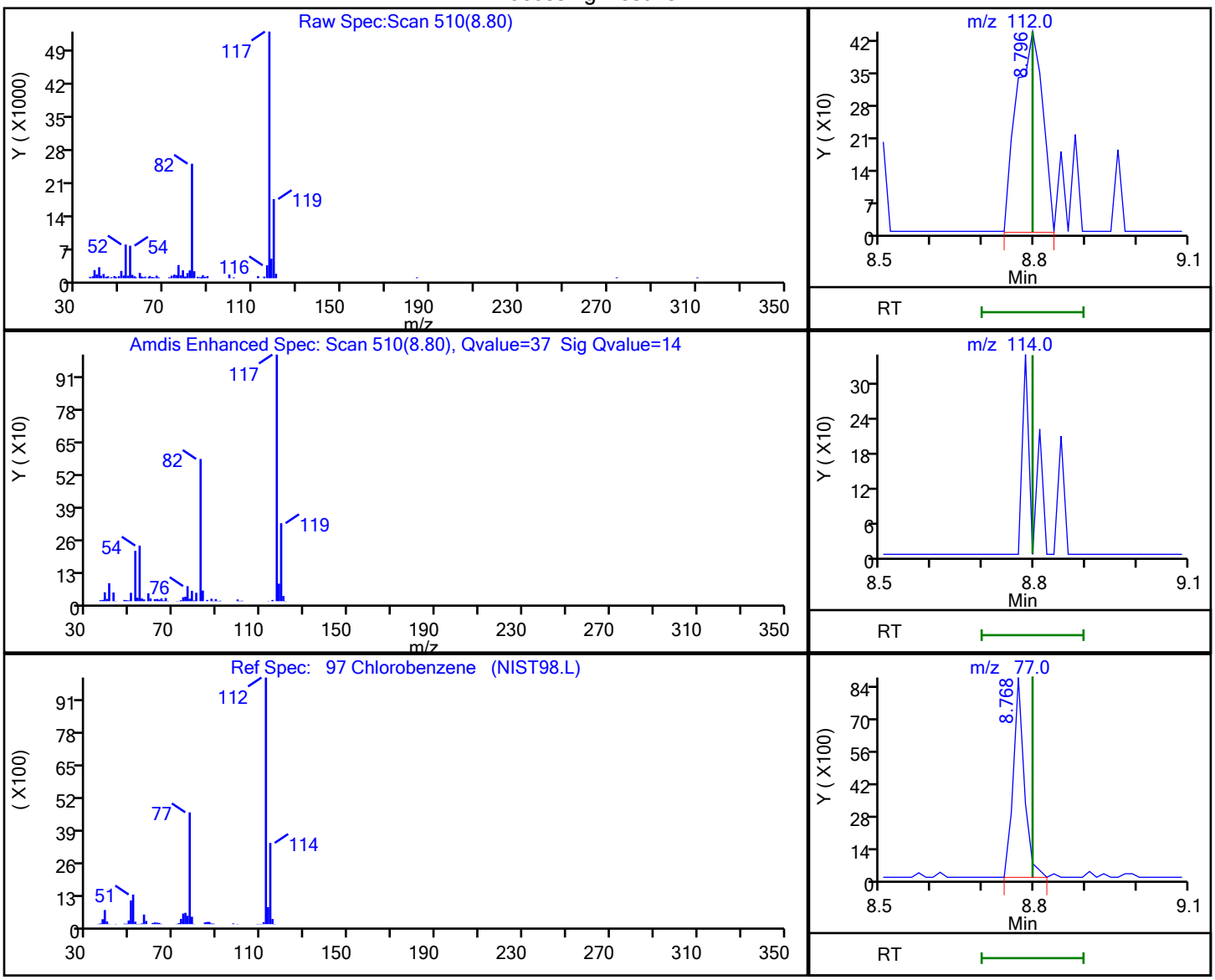
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Injection Date: 02-Jul-2024 00:29:30 Instrument ID: VMS_MS1
Lims ID: MB
Client ID:
Operator ID: go ALS Bottle#: 37 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

97 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
8.80	112.00	1529	0.081427
8.80	114.00	0	
8.77	77.00	13142	

Reviewer: V8PV, 02-Jul-2024 01:18:31 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

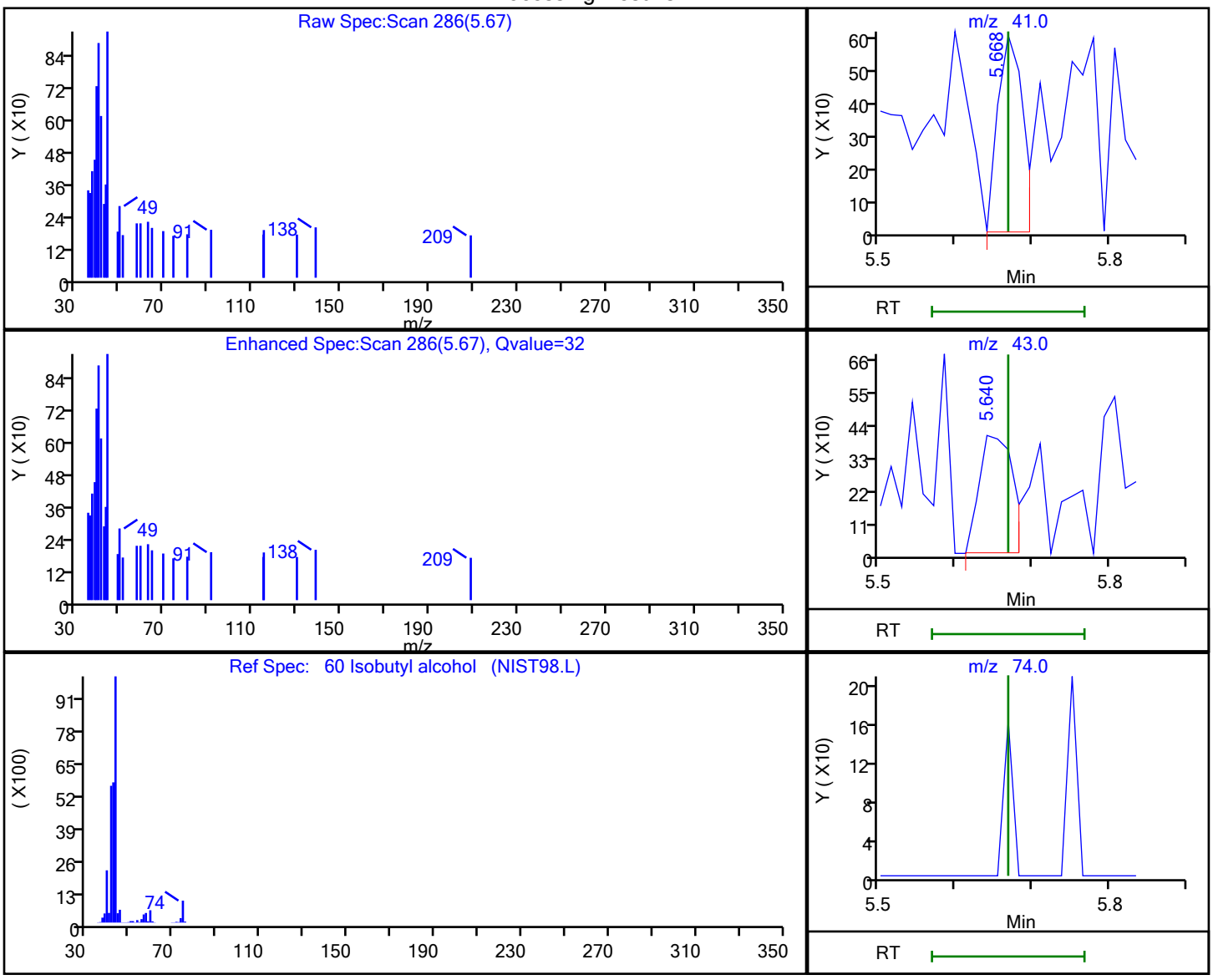
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D				
Injection Date:	02-Jul-2024 00:29:30	Instrument ID:	VMS_MS1		
Lims ID:	MB				
Client ID:					
Operator ID:	go	ALS Bottle#:	37	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		

60 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
5.67	41.00	1411	6.062639
5.64	43.00	1236	
5.67	74.00	0	

Reviewer: V8PV, 02-Jul-2024 01:18:36 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

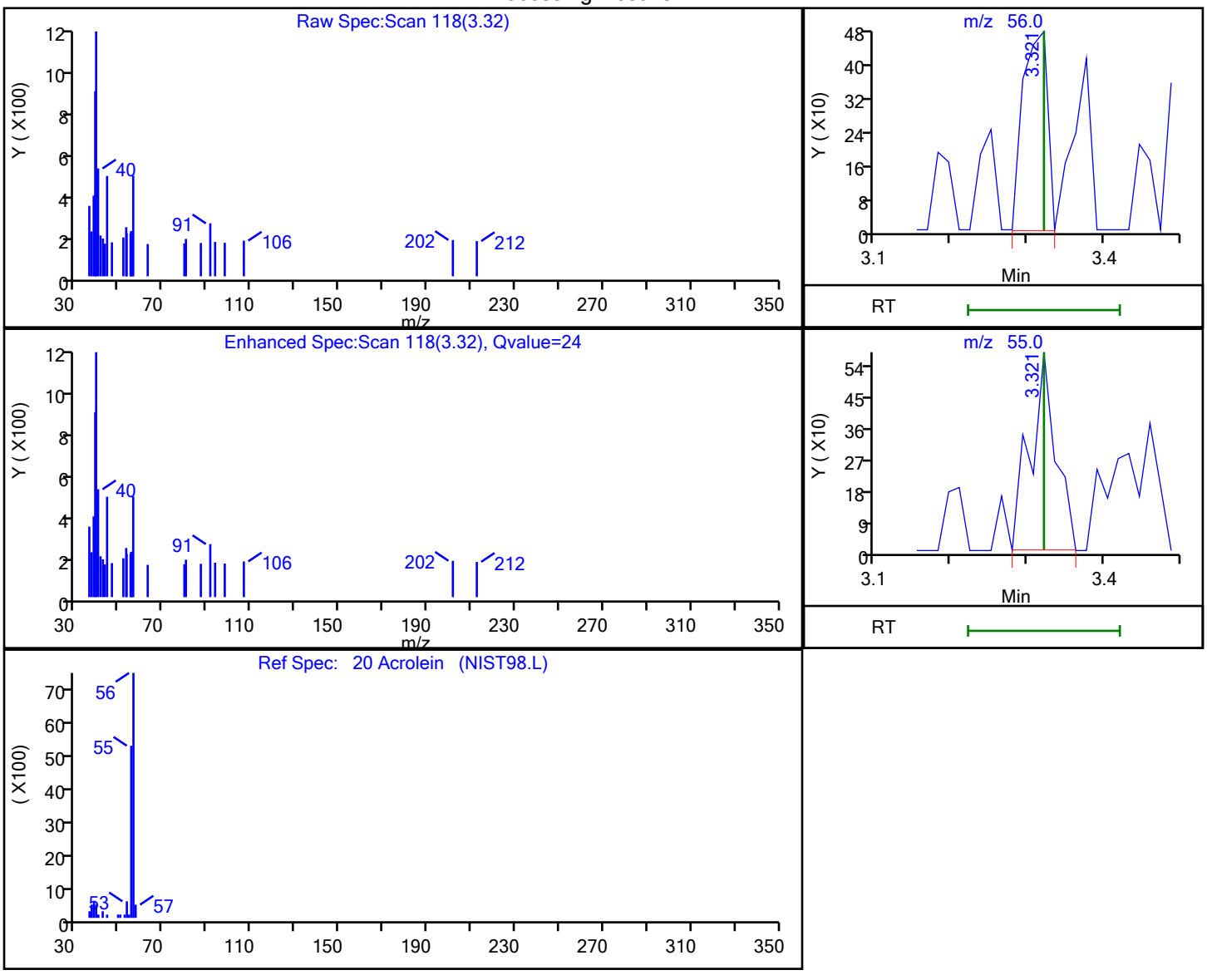
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D
Injection Date: 02-Jul-2024 00:29:30 Instrument ID: VMS_MS1
Lims ID: MB
Client ID:
Operator ID: go ALS Bottle#: 37 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

20 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
3.32	56.00	1063	2.152071
3.32	55.00	1337	

Reviewer: V8PV, 02-Jul-2024 01:18:50 -06:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

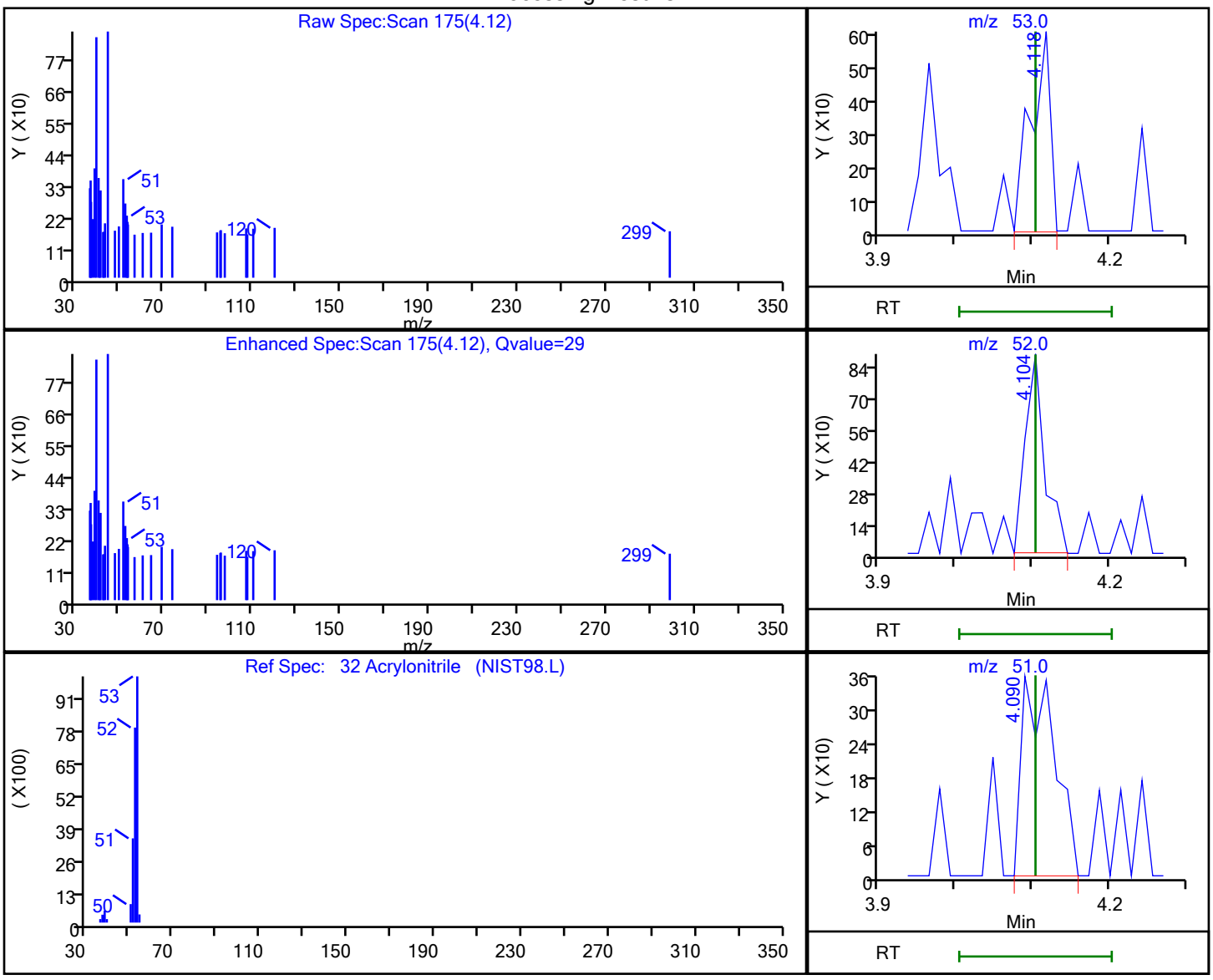
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D				
Injection Date:	02-Jul-2024 00:29:30	Instrument ID:	VMS_MS1		
Lims ID:	MB				
Client ID:					
Operator ID:	go	ALS Bottle#:	37	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		

32 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
4.12	53.00	1063	0.348428
4.10	52.00	1601	
4.09	51.00	1067	

Reviewer: V8PV, 02-Jul-2024 01:18:40 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

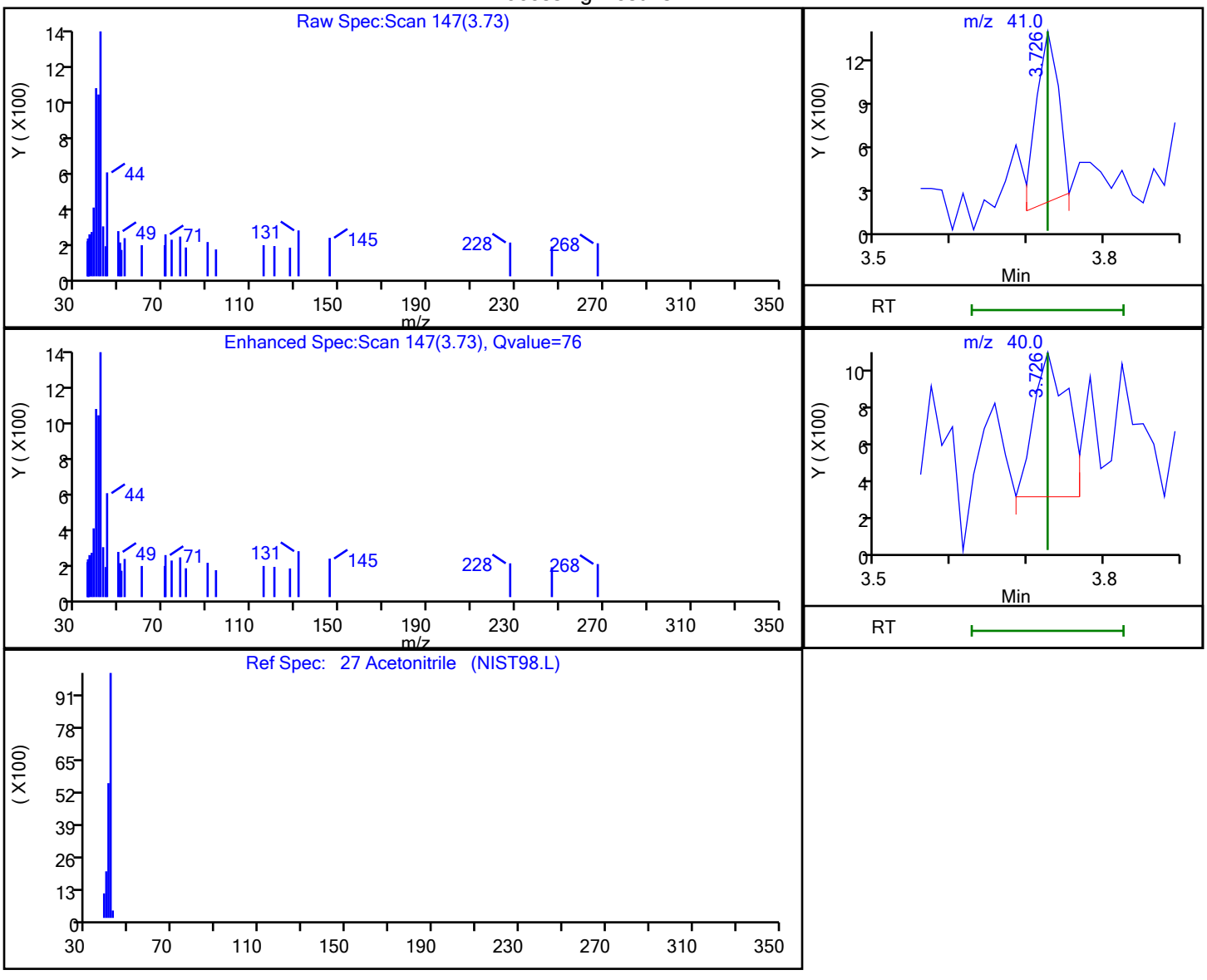
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6085.D				
Injection Date:	02-Jul-2024 00:29:30	Instrument ID:	VMS_MS1		
Lims ID:	MB				
Client ID:					
Operator ID:	go	ALS Bottle#:	37	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	2452	2.353097
3.73	40.00	2354	

Reviewer: V8PV, 02-Jul-2024 01:18:45 -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.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-659045/9

Matrix: Water | Lab File ID: MS1_6118.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:50

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
591-78-6	2-Hexanone	ND		5.0	0.81
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	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-659045/9

Matrix: Water | Lab File ID: MS1_6118.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:50

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.14
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	0.11
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11
78-93-3	2-Butanone (MEK)	ND		10	4.6
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.46
126-99-8	Chloroprene	ND		3.0	0.79
75-05-8	Acetonitrile	ND		30	14
97-63-2	Ethyl methacrylate	ND		3.0	0.19
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	0.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-659045/9

Matrix: Water | Lab File ID: MS1_6118.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 12:50

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.: 659045 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Jul-2024 12:50:30 ALS Bottle#: 62 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:38:48 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:35:18

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	1849559	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	424018	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.001	97	641393	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	426952	50.0	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	547201	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1840091	50.0	49.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	633846	50.0	51.4	
$ 8 BFB	95	9.899	9.900	-0.001	80	633846		NR	
9 Dichlorodifluoromethane	85		1.813					ND	
10 Chloromethane	50		2.008					ND	
11 Vinyl chloride	62		2.134					ND	
12 Ethylene oxide	43	2.260	2.260	0.000	98	1264		NC	
13 Bromomethane	94		2.497					ND	U
14 Chloroethane	64		2.623					ND	
15 Dichlorofluoromethane	67		2.860					ND	
16 Trichlorofluoromethane	101		2.888					ND	
17 Ethanol	45		3.070					ND	
18 Ethyl ether	59		3.168					ND	
19 Propene oxide	58		3.238					ND	
20 Acrolein	56		3.321					ND	
22 1,1-Dichloroethene	96		3.405					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.419					ND	
23 Acetone	43	3.447	3.447	0.000	99	25001		1.59	
24 Iodomethane	142		3.559					ND	
25 Isopropyl alcohol	45		3.573					ND	
26 Carbon disulfide	76		3.628					ND	7
27 Acetonitrile	41		3.726					ND	U
28 Methyl acetate	43		3.740					ND	
29 3-Chloro-1-propene	41		3.768					ND	7
30 Methylene Chloride	84	3.894	3.894	0.000	87	2467		0.3234	
31 2-Methyl-2-propanol	59		3.964					ND	
32 Acrylonitrile	53		4.103					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		4.131					ND	
34 trans-1,2-Dichloroethene	96		4.131					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		4.522					ND	
39 1,1-Dichloroethane	63		4.536					ND	
40 Isopropyl ether	87		4.550					ND	
41 2-Chloro-1,3-butadiene	53		4.606					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		5.011					ND	
45 cis-1,2-Dichloroethene	96		5.039					ND	
46 2,2-Dichloropropane	77		5.039					ND	
47 Ethyl acetate	43		5.039					ND	U
48 Propionitrile	54		5.081					ND	
49 sec-Butyl Alcohol	45		5.165					ND	
50 Methacrylonitrile	41		5.207					ND	
51 Chlorobromomethane	128		5.249					ND	
52 Tetrahydrofuran	42		5.249					ND	
53 Chloroform	83		5.318					ND	
54 1,1,1-Trichloroethane	97		5.472					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		5.542					ND	
59 Carbon tetrachloride	117		5.612					ND	
58 1,1-Dichloropropene	75		5.612					ND	
60 Isobutyl alcohol	41		5.654					ND	U
61 Benzene	78		5.793					ND	
62 1,2-Dichloroethane	62		5.821					ND	
63 Tert-amyl methyl ether	73		5.877					ND	
64 n-Heptane	43		6.017					ND	U
66 Trichloroethene	95		6.352					ND	
65 n-Butanol	56		6.394					ND	
67 2-Pentanone	43		6.478					ND	
68 Methylcyclohexane	55		6.561					ND	
69 1,2-Dichloropropane	63		6.575					ND	
70 Methyl methacrylate	100		6.590					ND	
71 1,4-Dioxane	88		6.631					ND	
72 Dibromomethane	93		6.659					ND	
73 Dichlorobromomethane	83		6.799					ND	
74 2-Nitropropane	41		6.995					ND	U
75 2-Chloroethyl vinyl ether	63		7.022					ND	
76 cis-1,3-Dichloropropene	75		7.176					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		7.483					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		7.860					ND	
87 3-Methylhexane	43		7.903					ND	
88 2,3-Dimethylpentane	56		7.949					ND	
89 Tetrachloroethene	164		7.958					ND	
90 1,3-Dichloropropane	76		8.014					ND	
91 2-Hexanone	43		8.042					ND	
92 3-Ethylpentane	43		8.214					ND	
93 Chlorodibromomethane	129		8.223					ND	
94 Tetrahydrothiophene	60		8.224					ND	
95 Ethylene Dibromide	107		8.349					ND	
96 1-Chlorohexane	91		8.754					ND	U
97 Chlorobenzene	112		8.796					ND	
99 1,1,1,2-Tetrachloroethane	131		8.880					ND	
98 Ethylbenzene	106		8.880					ND	
100 m-Xylene & p-Xylene	106		9.005					ND	
101 o-Xylene	106		9.369					ND	
102 Dimethyl disulfide	94		9.388					ND	
103 Styrene	104		9.397					ND	
104 Bromoform	173		9.578					ND	
105 Isopropylbenzene	105		9.718					ND	
106 cis-1,4-Dichloro-2-butene	53		9.774					ND	
107 Cyclohexanone	55		9.829					ND	U
108 1,1,2,2-Tetrachloroethane	83		10.025					ND	
109 Bromobenzene	156		10.053					ND	
110 trans-1,4-Dichloro-2-butene	53		10.053					ND	
111 1,2,3-Trichloropropane	110		10.081					ND	
112 N-Propylbenzene	120		10.137					ND	
113 2-Chlorotoluene	126		10.234					ND	
114 1,3,5-Trimethylbenzene	105		10.304					ND	
115 4-Chlorotoluene	126		10.346					ND	
116 tert-Butylbenzene	119		10.626					ND	
117 1,2,4-Trimethylbenzene	105		10.681					ND	
118 sec-Butylbenzene	134		10.849					ND	
119 1,3-Dichlorobenzene	146		10.975					ND	
120 4-Isopropyltoluene	119		10.989					ND	
121 1,4-Dichlorobenzene	146		11.072					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		12.413					ND	
128 1,2,4-Trichlorobenzene	180		13.056					ND	
129 Hexachlorobutadiene	225		13.195					ND	
130 Naphthalene	128		13.335					ND	
131 n-Nonyl Aldehyde	57		13.340					ND	
132 1,2,3-Trichlorobenzene	180		13.558					ND	
140 n-Nonane TIC	1		0.000					ND	
135 t-Amyl alcohol	1		0.000					ND	
134 1,3-Dibromobenzene	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
145 4-Chlorobenzotrifluoride	1		0.000				ND		
137 1-Chlorohexane TIC	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		
142 Ethyl acrylate	55		0.000				ND		
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND		
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND		
138 Pentachloroethane TIC	1		0.000				ND		
136 4-Bromofluorobenzene	95		0.000				ND		
S 147 1,2-Dichloroethene, Total (URS)	96		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
- NR - Missing Quant Standard
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

mv-IS_SS_00080 Amount Added: 5.00 Units: uL Run Reagent

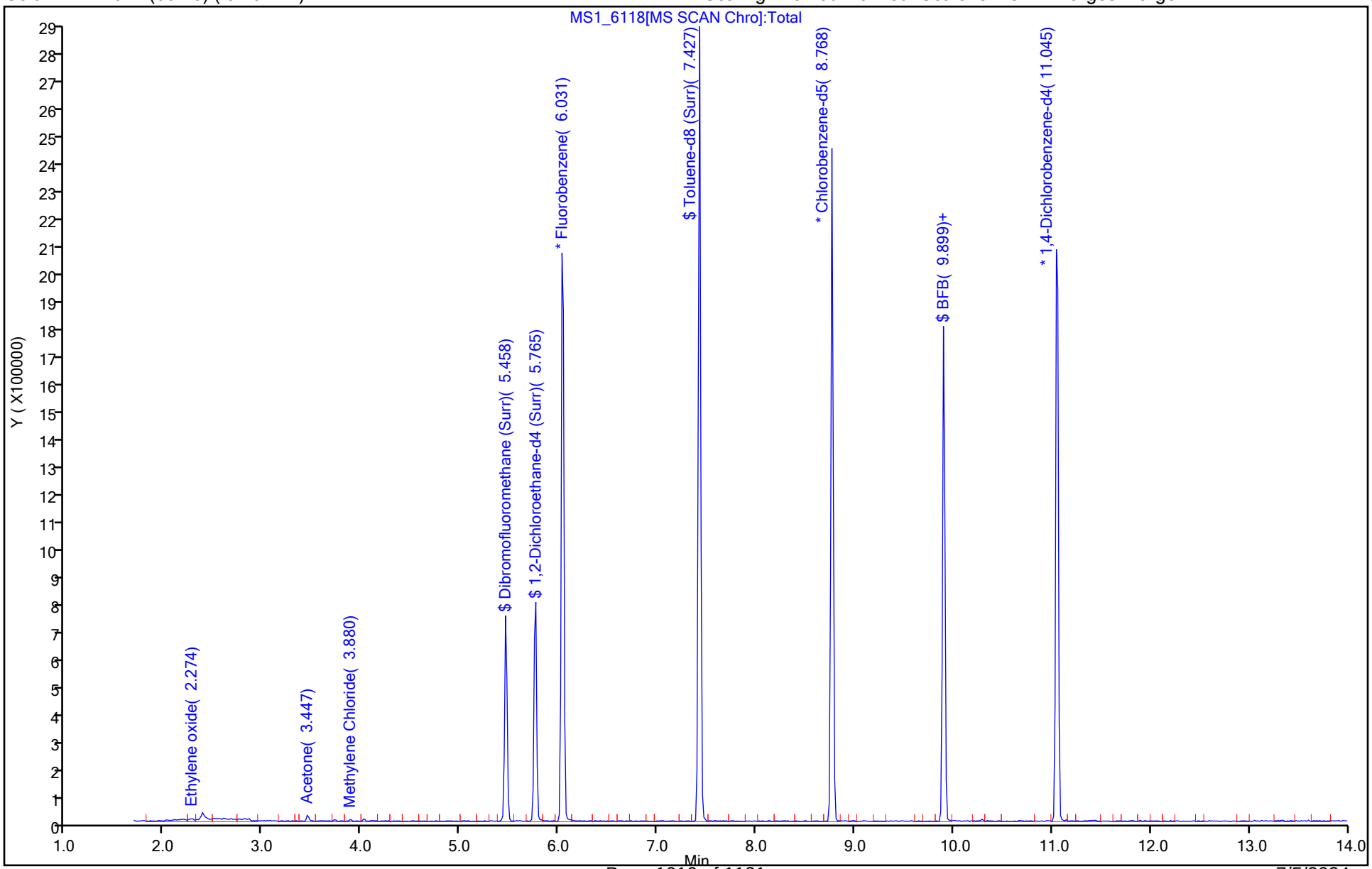
Report Date: 02-Jul-2024 16:42:46 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D

Injection Date:	02-Jul-2024 12:50:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	62
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Jul-2024 12:50:30 ALS Bottle#: 62 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 16:38:48 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 16:35:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.9	99.86
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.50
$ 6 Toluene-d8 (Surr)	50.0	49.2	98.49
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.70

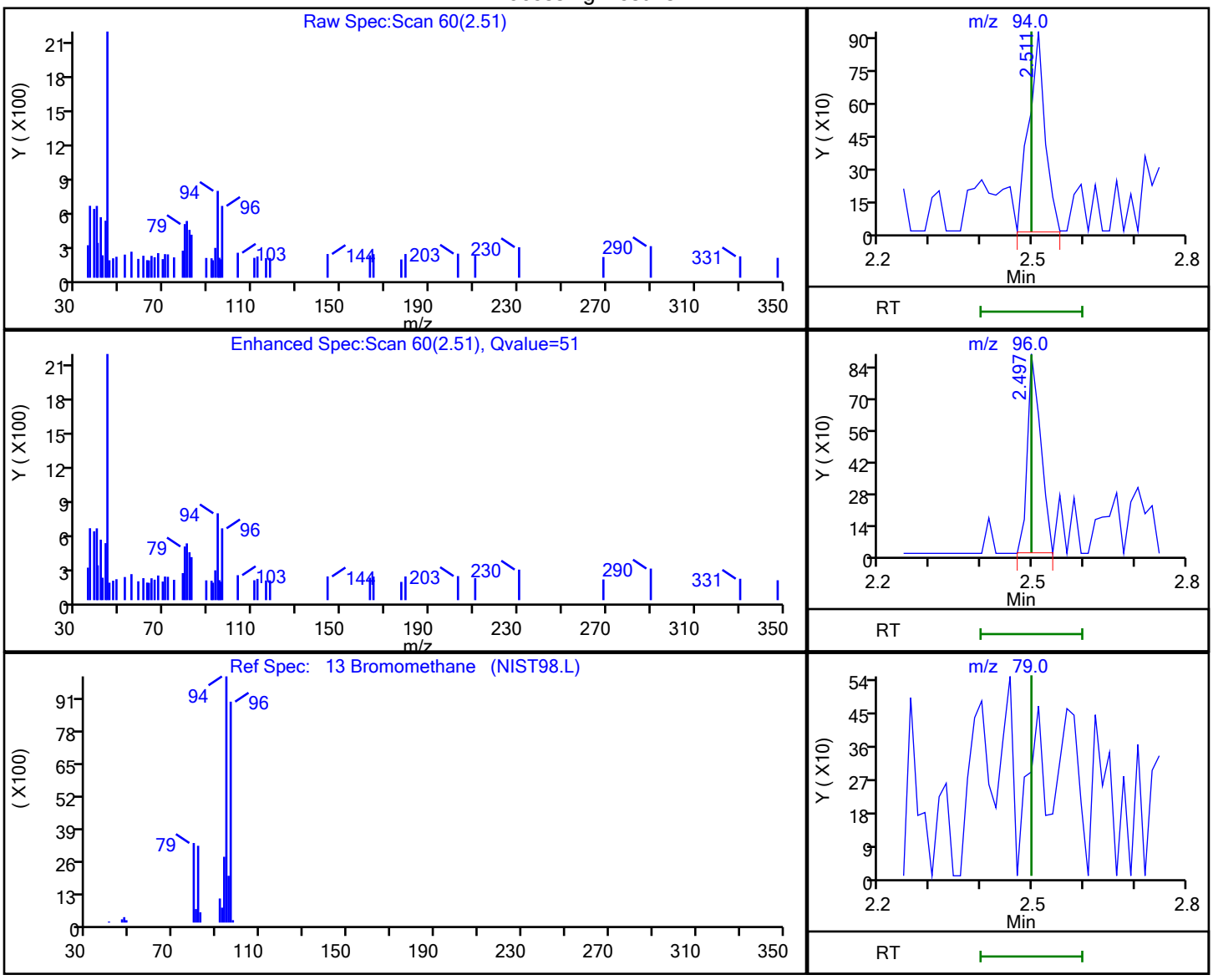
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D				
Injection Date:	02-Jul-2024 12:50:30	Instrument ID:	VMS_MS1		
Lims ID:	MB				
Client ID:					
Operator ID:	go	ALS Bottle#:	62	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		

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.51	94.00	2039	0.806047
2.50	96.00	1617	
2.50	79.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:34:33 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

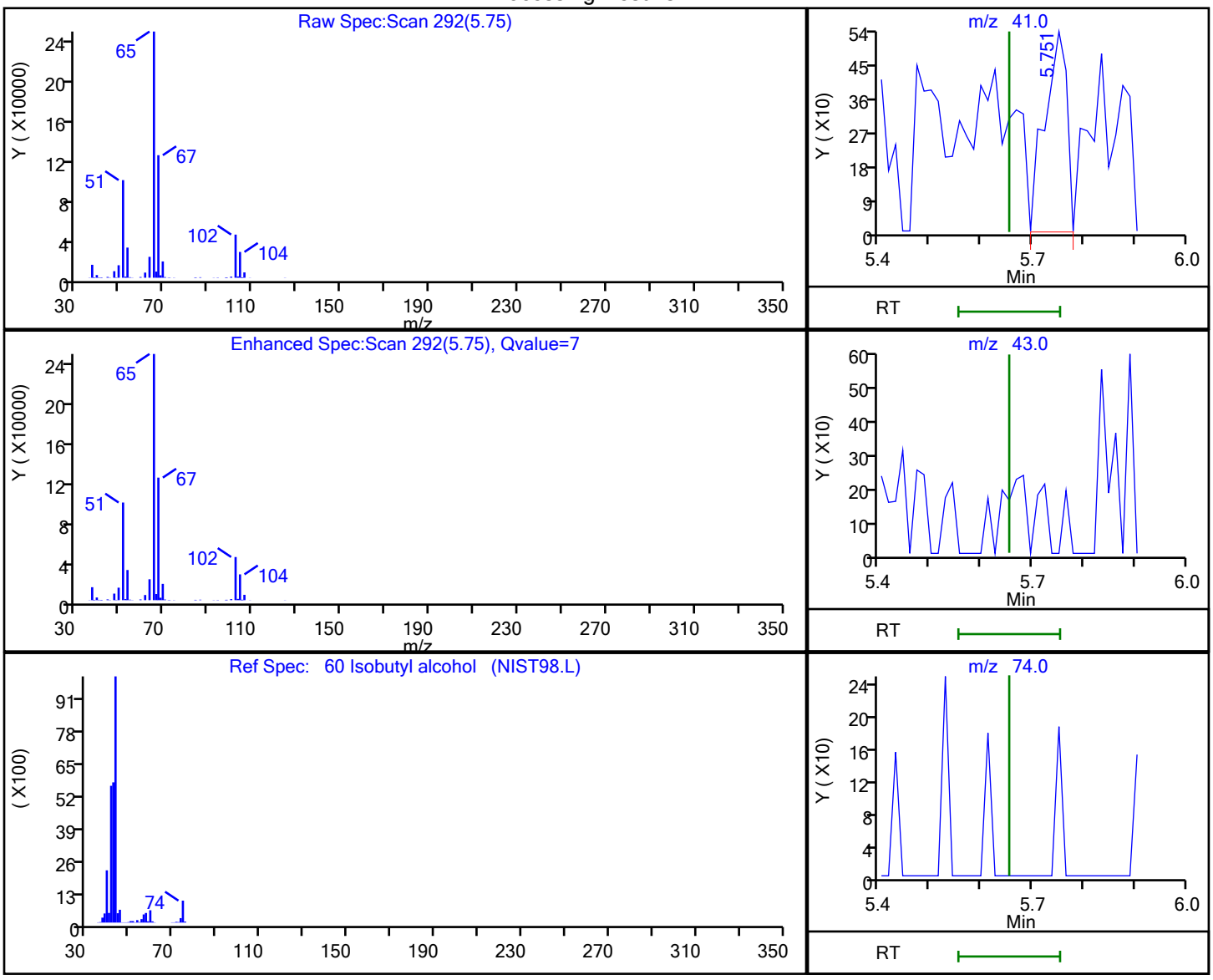
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D				
Injection Date:	02-Jul-2024 12:50:30	Instrument ID:	VMS_MS1		
Lims ID:	MB				
Client ID:					
Operator ID:	go	ALS Bottle#:	62	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		

60 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
5.75	41.00	1591	6.937475
5.65	43.00	0	
5.65	74.00	0	

Reviewer: Q2ZS, 02-Jul-2024 16:34:49 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

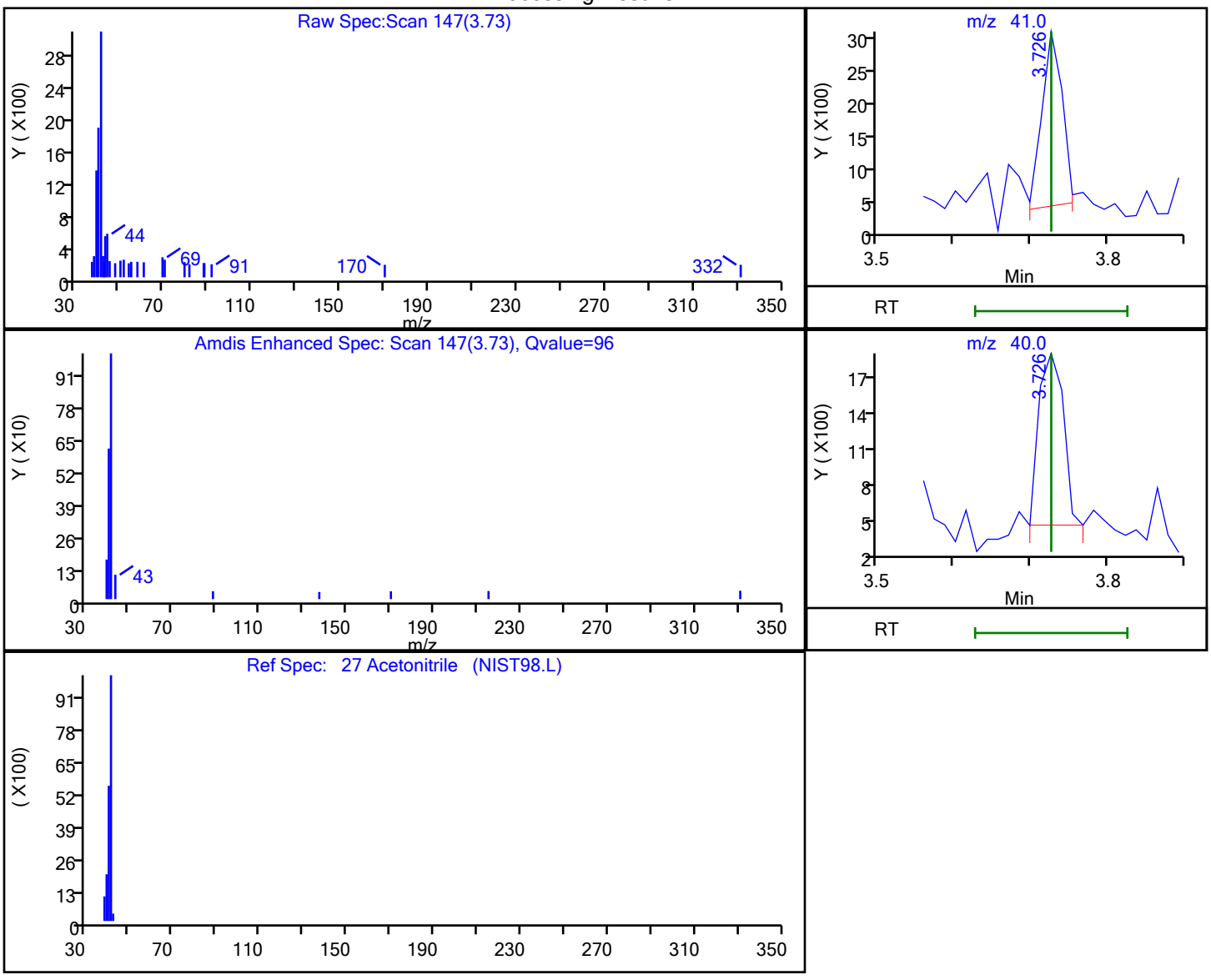
User Disabled Compound Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6118.D
Injection Date: 02-Jul-2024 12:50:30 Instrument ID: VMS_MS1
Lims ID: MB
Client ID:
Operator ID: go ALS Bottle#: 62 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	4886	4.758493
3.73	40.00	3101	

Reviewer: Q2ZS, 02-Jul-2024 16:34:40 -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.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658893/4

Matrix: Water | Lab File ID: P86869A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 10:24

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	50.1		1.0	0.16
71-55-6	1,1,1-Trichloroethane	46.8		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	44.8		1.0	0.27
75-34-3	1,1-Dichloroethane	45.8		1.0	0.22
75-35-4	1,1-Dichloroethene	47.0		1.0	0.23
563-58-6	1,1-Dichloropropene	47.2		1.0	0.19
96-18-4	1,2,3-Trichloropropane	47.9		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	47.2		5.0	0.42
95-50-1	1,2-Dichlorobenzene	46.0		1.0	0.14
107-06-2	1,2-Dichloroethane	43.6		1.0	0.28
78-87-5	1,2-Dichloropropane	45.2		1.0	0.24
541-73-1	1,3-Dichlorobenzene	46.7		1.0	0.33
142-28-9	1,3-Dichloropropane	48.0		1.0	0.17
106-46-7	1,4-Dichlorobenzene	45.7		1.0	0.39
594-20-7	2,2-Dichloropropane	45.1		1.0	0.17
591-78-6	2-Hexanone	168		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	161		5.0	0.98
67-64-1	Acetone	160		15	6.6
71-43-2	Benzene	46.8		1.0	0.14
75-25-2	Bromoform	51.0		2.0	0.25
74-83-9	Bromomethane	64.3		5.0	2.4
75-15-0	Carbon disulfide	48.0		2.0	0.26
56-23-5	Carbon tetrachloride	50.6		1.0	0.23
108-90-7	Chlorobenzene	45.5		1.0	0.092
74-97-5	Chlorobromomethane	45.1		1.0	0.40
124-48-1	Chlorodibromomethane	50.7		1.0	0.28
75-00-3	Chloroethane	70.8		2.0	0.64
67-66-3	Chloroform	45.0		1.0	0.36
74-87-3	Chloromethane	52.3		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	45.8		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	47.1		1.0	0.16
74-95-3	Dibromomethane	44.4		1.0	0.34
75-27-4	Dichlorobromomethane	48.0		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658893/4

Matrix: Water | Lab File ID: P86869A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 10:24

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	55.6		2.0	0.30
100-41-4	Ethylbenzene	47.3		1.0	0.14
74-88-4	Iodomethane	40.0		5.0	2.6
78-83-1	Isobutyl alcohol	1070		110	37
75-09-2	Methylene Chloride	43.0		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	45.6		2.0	0.36
95-47-6	o-Xylene	45.2		1.0	0.11
100-42-5	Styrene	46.6		1.0	0.13
127-18-4	Tetrachloroethene	46.3		1.0	0.40
108-88-3	Toluene	43.7		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.6		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	45.8		1.0	0.14
79-01-6	Trichloroethene	46.6		1.0	0.30
75-69-4	Trichlorofluoromethane	49.4		2.0	0.20
108-05-4	Vinyl acetate	88.8		3.0	0.36
75-01-4	Vinyl chloride	53.5		1.0	0.23
1330-20-7	Xylenes, Total	90.8		1.0	0.11
78-93-3	2-Butanone (MEK)	149		10	4.6
107-02-8	Acrolein	408		20	4.9
107-13-1	Acrylonitrile	424		20	1.7
106-93-4	1,2-Dibromoethane	45.0		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	42.1		1.0	0.58
107-05-1	Allyl chloride	42.4		2.0	0.46
97-63-2	Ethyl methacrylate	51.1		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	40.9		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		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)	95		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 10:24:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1608491	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	378426	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	586226	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	405991	50.0	47.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	413507	50.0	51.8	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	94	1602140	50.0	52.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	474021	50.0	52.6	
9 Dichlorodifluoromethane	85	1.626	1.626	0.000	88	414337	50.0	55.6	
10 Chloromethane	50	1.806	1.806	0.000	99	852918	50.0	52.3	
11 Vinyl chloride	62	1.882	1.882	0.000	98	1091650	50.0	53.5	
12 Bromomethane	94	2.150	2.150	0.000	92	1178522	50.0	64.3	
13 Chloroethane	64	2.232	2.232	0.000	99	575262	50.0	70.8	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	856743	50.0	48.8	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	631713	50.0	49.4	
17 Ethyl ether	59	2.657	2.657	0.000	86	284253	50.0	43.8	
18 Acrolein	56	2.750	2.750	0.000	99	410573	493.8	408.0	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	373950	50.0	47.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.000	71	283365	50.0	46.3	
21 Acetone	43	2.865	2.865	0.000	99	354397	200.0	159.6	
23 Iodomethane	142	2.936	2.936	0.000	99	374988	50.0	40.0	
24 Carbon disulfide	76	2.996	2.996	0.000	99	1236323	50.0	48.0	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	81	380014	50.0	42.4	
25 Methyl acetate	43	3.083	3.083	0.000	96	424825	100.0	78.3	
28 Methylene Chloride	84	3.170	3.170	0.000	88	426593	50.0	43.0	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	329298	500.0	402.3	
30 Acrylonitrile	53	3.328	3.328	0.000	98	1382925	500.0	424.2	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	97	415170	50.0	46.6	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	1081700	50.0	43.2	
33 Hexane	57	3.552	3.552	0.000	87	497140	50.0	49.2	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1205589	100.0	88.8	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	95	711902	50.0	45.8	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	88	579791	200.0	148.9	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	80	462585	50.0	45.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	4.081	4.081	0.000	86	598470	50.0	45.1	
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	97	554958	1200.0	862.0	
46 Chlorobromomethane	128	4.245	4.245	0.000	92	199857	50.0	45.1	
48 Chloroform	83	4.305	4.305	0.000	94	709801	50.0	45.0	
47 Tetrahydrofuran	42	4.311	4.311	0.000	80	166949	100.0	74.0	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	99	593295	50.0	46.8	
50 Cyclohexane	56	4.512	4.512	0.000	86	587507	50.0	45.8	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	98	558203	50.0	47.2	
52 Carbon tetrachloride	117	4.572	4.572	0.000	95	522697	50.0	50.6	
55 Isobutyl alcohol	41	4.616	4.616	0.000	91	237722	1250.0	1073.4	
53 Benzene	78	4.714	4.714	0.000	95	1655818	50.0	46.8	
54 1,2-Dichloroethane	62	4.731	4.731	0.000	97	511216	50.0	43.6	
57 n-Heptane	43	4.900	4.900	0.000	81	345985	50.0	41.8	
59 Trichloroethene	95	5.200	5.200	0.000	97	409084	50.0	46.6	
60 2-Pentanone	43	5.320	5.320	0.000	97	692543	160.0	124.5	
61 Methylcyclohexane	55	5.391	5.391	0.000	88	441173	50.0	44.4	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	94	416194	50.0	45.2	
65 Dibromomethane	93	5.467	5.467	0.000	93	277626	50.0	44.4	
64 1,4-Dioxane	88	5.489	5.489	0.000	87	91977	1000.0	746.9	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	547701	50.0	48.0	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	90	240033	50.0	47.7	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	96	619382	50.0	47.1	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	95	1218647	200.0	160.7	
71 Toluene	91	6.231	6.231	0.000	97	1775423	50.0	43.7	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	615018	50.0	45.8	
73 Ethyl methacrylate	69	6.449	6.449	0.000	83	498513	50.0	51.1	
74 1,1,2-Trichloroethane	97	6.569	6.569	0.000	90	359944	50.0	44.8	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	311777	50.0	46.3	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	629580	50.0	48.0	
77 2-Hexanone	43	6.766	6.766	0.000	93	858351	200.0	168.1	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	413103	50.0	50.7	
79 Ethylene Dibromide	107	7.028	7.028	0.000	99	371393	50.0	45.0	
80 1-Chlorohexane	91	7.426	7.426	0.000	89	450306	40.0	35.6	
81 Chlorobenzene	112	7.470	7.470	0.000	95	1111129	50.0	45.5	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	404261	50.0	50.1	
83 Ethylbenzene	106	7.552	7.552	0.000	98	613150	50.0	47.3	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	717760	50.0	45.6	
85 o-Xylene	106	8.026	8.026	0.000	97	713919	50.0	45.2	
86 Styrene	104	8.043	8.043	0.000	95	1271972	50.0	46.6	
87 Bromoform	173	8.217	8.217	0.000	93	272049	50.0	51.0	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1873022	50.0	50.0	
90 Cyclohexanone	55	8.485	8.485	0.000	90	472911	1500.0	947.6	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	493552	50.0	48.5	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	64	113708	50.0	40.9	
94 Bromobenzene	156	8.687	8.687	0.000	94	462121	50.0	46.6	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	86	142017	50.0	47.9	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	503680	50.0	48.7	
97 2-Chlorotoluene	126	8.867	8.867	0.000	96	434884	50.0	47.9	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1472176	50.0	47.5	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	458056	50.0	48.0	
100 tert-Butylbenzene	119	9.254	9.254	0.000	92	1250240	50.0	47.6	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1515414	50.0	47.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	374838	50.0	47.8	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	866392	50.0	46.7	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1598061	50.0	48.1	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	884894	50.0	45.7	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1522110	50.0	47.8	
108 1,2-Dichlorobenzene	146	10.056	10.056	0.000	97	808079	50.0	46.0	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.825	0.000	86	72768	50.0	47.2	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	404642	50.0	42.1	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	96	172863	50.0	44.5	
113 Naphthalene	128	11.928	11.928	0.000	97	856328	50.0	40.0	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	239530	50.0	38.6	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.4	
S 119 Xylenes, Total (URS)	1				0		100.0	90.8	
S 120 Trihalomethanes, Total	1				0		200.0	194.6	
S 122 Xylenes, Total	106				0		100.0	90.8	
S 123 1,2-Dichloroethene, Total	1				0		100.0	92.4	
S 124 1,3-Dichloropropene, Total	1				0		100.0	92.9	

Reagents:

MV-Gas B_00165	Amount Added: 10.00	Units: uL	
MV-MegaMain B_00105	Amount Added: 25.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Jul-2024 13:15:46 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869A.D

Injection Date: 01-Jul-2024 10:24:30 Instrument ID: VMS_P Operator ID: COULTER

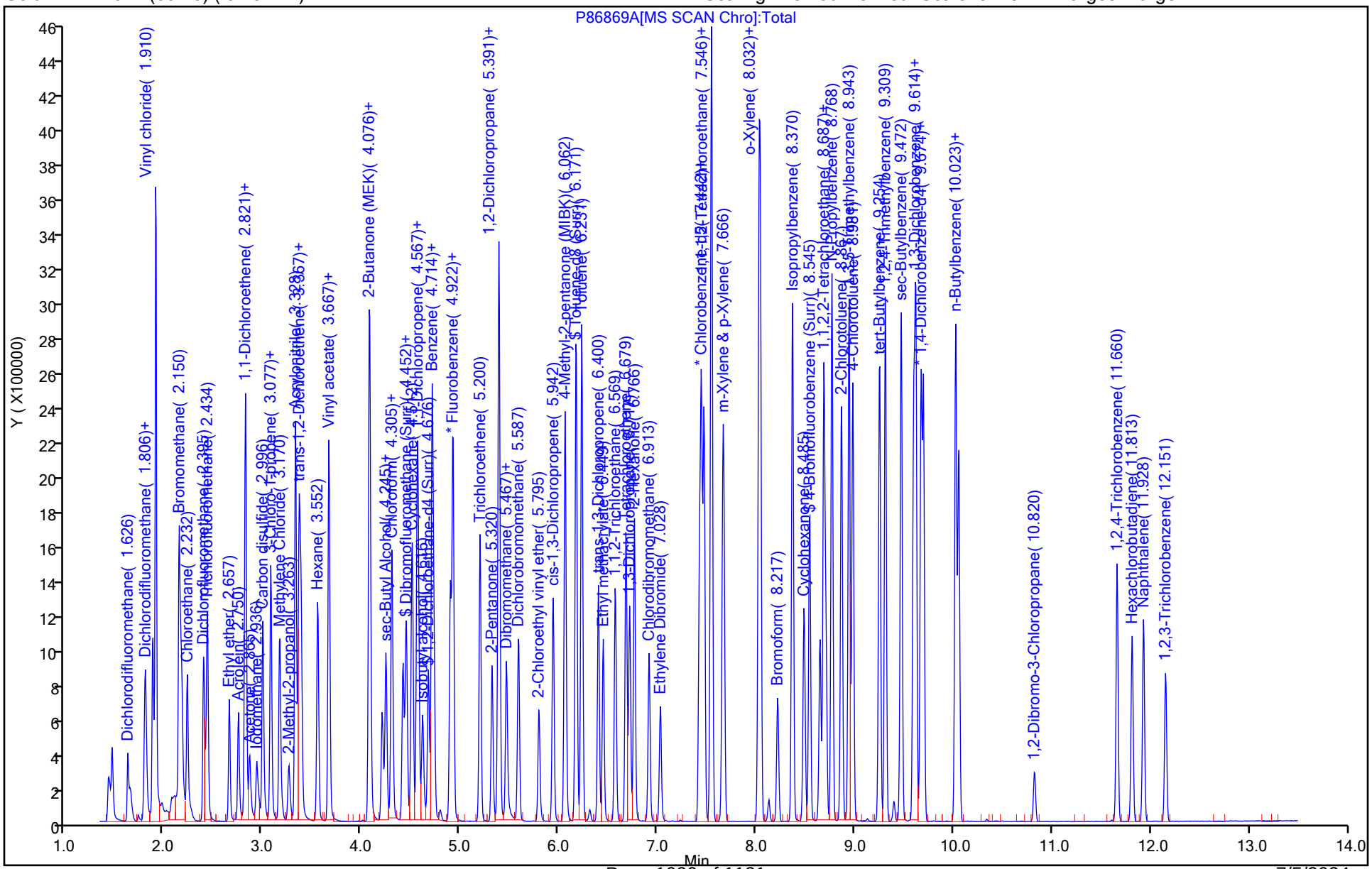
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86869A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 10:24:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	47.6	95.11
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.8	103.63
$ 6 Toluene-d8 (Surr)	50.0	52.2	104.38
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.6	105.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658893/6

Matrix: Water | Lab File ID: P86870B.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 10:44

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	24.1		3.0	0.79
75-05-8	Acetonitrile	208		30	14
126-98-7	Methacrylonitrile	214		15	5.3
80-62-6	Methyl methacrylate	41.7		4.0	1.1
107-12-0	Propionitrile	220		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)	104		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_P\20240701-135055.b\P86870B.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 10:44:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1379275	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	86	324122	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.669	9.669	0.000	95	521880	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	361797	50.0	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	348950	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1342534	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	417647	50.0	52.1	
16 Ethanol	45	2.592	2.592	0.000	100	87019	1500.0	1267.4	
22 Isopropyl alcohol	45	2.974	2.974	0.000	97	74098	250.0	190.1	
27 Acetonitrile	41	3.050	3.050	0.000	99	154619	250.0	208.3	
35 Isopropyl ether	87	3.699	3.699	0.000	91	136543	25.0	22.1	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	91	222605	25.0	24.1	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	430166	25.0	22.7	
40 Ethyl acetate	43	4.098	4.098	0.000	99	258916	50.0	41.3	
43 Propionitrile	54	4.103	4.103	0.000	99	218390	250.0	220.1	
45 Methacrylonitrile	41	4.212	4.212	0.000	86	797851	250.0	213.9	
56 Tert-amyl methyl ether	73	4.812	4.812	0.000	98	438601	25.0	21.9	
58 n-Butanol	56	5.113	5.113	0.000	82	94685	625.0	516.6	
63 Methyl methacrylate	100	5.429	5.429	0.000	80	88795	50.0	41.7	
67 2-Nitropropane	41	5.751	5.751	0.000	99	65186	50.0	45.7	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	92	81663	50.0	35.4	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	98	672316	25.0	24.3	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	234803	25.0	23.2	

Reagents:

MV-Supp B_00072 Amount Added: 25.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

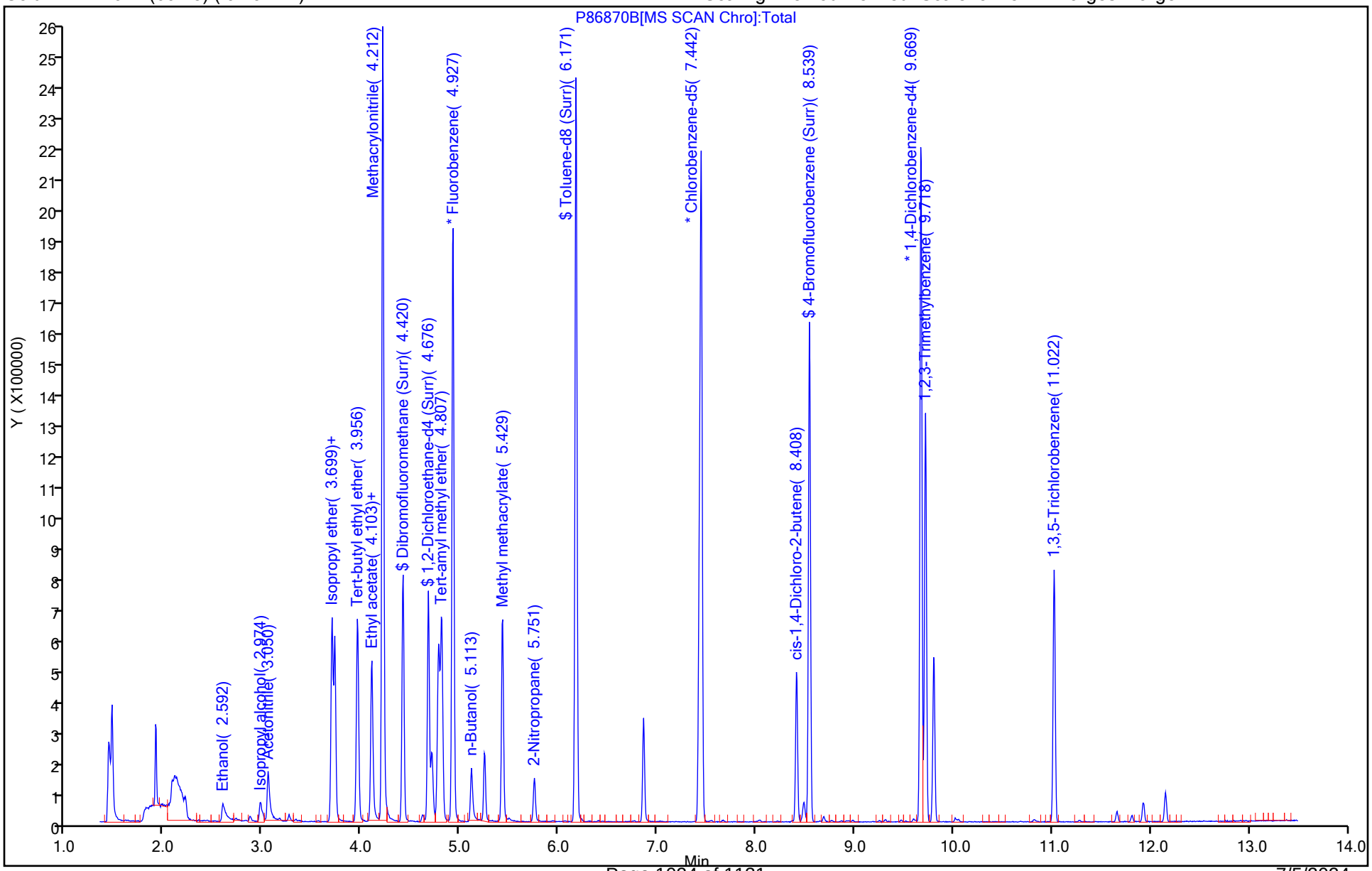
Report Date: 01-Jul-2024 13:15:58 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870B.D

Injection Date:	01-Jul-2024 10:44:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86870B.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 10:44:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.4	98.84
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	101.98
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.12
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.1	104.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658996/4

Matrix: Water | Lab File ID: MS1_6079c.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 22:22

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.2		1.0	0.16
71-55-6	1,1,1-Trichloroethane	50.7		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	48.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.2		1.0	0.27
75-34-3	1,1-Dichloroethane	48.1		1.0	0.22
75-35-4	1,1-Dichloroethene	44.5		1.0	0.23
563-58-6	1,1-Dichloropropene	47.0		1.0	0.19
96-18-4	1,2,3-Trichloropropane	46.1		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	46.9		5.0	0.42
95-50-1	1,2-Dichlorobenzene	51.8		1.0	0.14
107-06-2	1,2-Dichloroethane	52.1		1.0	0.28
78-87-5	1,2-Dichloropropane	47.0		1.0	0.24
541-73-1	1,3-Dichlorobenzene	49.5		1.0	0.33
142-28-9	1,3-Dichloropropane	48.9		1.0	0.17
106-46-7	1,4-Dichlorobenzene	49.5		1.0	0.39
594-20-7	2,2-Dichloropropane	47.0		1.0	0.17
591-78-6	2-Hexanone	212		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	213		5.0	0.98
67-64-1	Acetone	187		15	6.6
71-43-2	Benzene	47.1		1.0	0.14
75-25-2	Bromoform	52.8		2.0	0.25
74-83-9	Bromomethane	48.5		5.0	2.4
75-15-0	Carbon disulfide	44.6		2.0	0.26
56-23-5	Carbon tetrachloride	52.6		1.0	0.23
108-90-7	Chlorobenzene	48.9		1.0	0.092
74-97-5	Chlorobromomethane	46.6		1.0	0.40
124-48-1	Chlorodibromomethane	53.5		1.0	0.28
75-00-3	Chloroethane	44.5		2.0	0.64
67-66-3	Chloroform	49.1		1.0	0.36
74-87-3	Chloromethane	43.9		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	46.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	50.7		1.0	0.16
74-95-3	Dibromomethane	50.0		1.0	0.34
75-27-4	Dichlorobromomethane	53.3		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658996/4

Matrix: Water | Lab File ID: MS1_6079c.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 22:22

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	40.6		2.0	0.30
100-41-4	Ethylbenzene	48.1		1.0	0.14
74-88-4	Iodomethane	38.4		5.0	2.6
78-83-1	Isobutyl alcohol	1380		110	37
75-09-2	Methylene Chloride	42.0		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.4		2.0	0.36
95-47-6	o-Xylene	51.6		1.0	0.11
100-42-5	Styrene	52.4		1.0	0.13
127-18-4	Tetrachloroethene	46.9		1.0	0.40
108-88-3	Toluene	48.6		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	54.7		1.0	0.14
79-01-6	Trichloroethene	48.6		1.0	0.30
75-69-4	Trichlorofluoromethane	47.8		2.0	0.20
108-05-4	Vinyl acetate	97.5		3.0	0.36
75-01-4	Vinyl chloride	45.7		1.0	0.23
1330-20-7	Xylenes, Total	101		1.0	0.11
78-93-3	2-Butanone (MEK)	189		10	4.6
107-02-8	Acrolein	538		20	4.9
107-13-1	Acrylonitrile	447		20	1.7
106-93-4	1,2-Dibromoethane	49.0		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	47.5		1.0	0.58
107-05-1	Allyl chloride	47.6		2.0	0.46
97-63-2	Ethyl methacrylate	52.1		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	56.4		3.0	0.51

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)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 22:22:30 ALS Bottle#: 31 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:26 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

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	2056383	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	473597	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	745170	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	486586	50.0	51.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	618336	50.0	51.1	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2086557	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	728805	50.0	50.8	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	354818	50.0	40.6	
10 Chloromethane	50	2.009	2.009	0.000	98	471105	50.0	43.9	
11 Vinyl chloride	62	2.134	2.134	0.000	98	522615	50.0	45.7	
13 Bromomethane	94	2.497	2.497	0.000	91	272428	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	332246	50.0	44.5	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	848269	50.0	43.7	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	594697	50.0	47.8	
18 Ethyl ether	59	3.168	3.168	0.000	93	302626	50.0	47.1	
20 Acrolein	56	3.321	3.321	0.000	99	290963	493.8	537.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	221545	50.0	44.9	
22 1,1-Dichloroethene	96	3.419	3.419	0.000	97	296892	50.0	44.5	
23 Acetone	43	3.447	3.447	0.000	99	480122	200.0	186.5	
24 Iodomethane	142	3.559	3.559	0.000	99	282634	50.0	38.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	907202	50.0	44.6	
28 Methyl acetate	43	3.740	3.740	0.000	98	559415	100.0	90.7	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	529991	50.0	47.6	
30 Methylene Chloride	84	3.894	3.894	0.000	94	355926	50.0	42.0	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	403498	500.0	569.7	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1493346	500.0	446.8	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	96	1069457	50.0	50.7	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	337503	50.0	46.2	
36 Hexane	57	4.383	4.383	0.000	94	457169	50.0	42.9	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1400778	100.0	97.5	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	97	667214	50.0	48.1	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	761542	200.0	189.4	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	89	452993	50.0	47.0	

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	5.039	5.039	0.000	83	389453	50.0	46.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	775445	1200.0	1138.6	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	176987	50.0	46.6	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257475	100.0	93.7	
53 Chloroform	83	5.319	5.319	0.000	95	628549	50.0	49.1	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	518896	50.0	50.7	
57 Cyclohexane	56	5.542	5.542	0.000	92	636294	50.0	47.0	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	418420	50.0	52.6	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	501160	50.0	47.0	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	351608	1250.0	1379.0	
61 Benzene	78	5.793	5.793	0.000	97	1504461	50.0	47.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	515316	50.0	52.1	
64 n-Heptane	43	6.003	6.003	0.000	95	393735	50.0	43.6	
66 Trichloroethene	95	6.352	6.352	0.000	98	365186	50.0	48.6	
67 2-Pentanone	43	6.478	6.478	0.000	99	954475	160.0	160.4	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	483095	50.0	48.6	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	392502	50.0	47.0	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	111469	1000.0	911.1	
72 Dibromomethane	93	6.659	6.659	0.000	92	225187	50.0	50.0	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	478180	50.0	53.3	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	91	89813	50.0	60.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	584623	50.0	50.7	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1592538	200.0	212.6	
80 Toluene	91	7.483	7.483	0.000	97	1662148	50.0	48.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	534114	50.0	54.7	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	503372	50.0	52.1	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	92	338543	50.0	48.2	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	262059	50.0	46.9	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	616276	50.0	48.9	
91 2-Hexanone	43	8.042	8.042	0.000	96	1108634	200.0	212.3	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	333497	50.0	53.5	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	334919	50.0	49.0	
96 1-Chlorohexane	91	8.754	8.754	0.000	98	384983	40.0	36.4	
97 Chlorobenzene	112	8.796	8.796	0.000	94	1020221	50.0	48.9	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	321750	50.0	52.2	
98 Ethylbenzene	106	8.880	8.880	0.000	99	560034	50.0	48.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	694048	50.0	49.4	
101 o-Xylene	106	9.369	9.369	0.000	97	708527	50.0	51.6	
103 Styrene	104	9.397	9.397	0.000	95	1165110	50.0	52.4	
104 Bromoform	173	9.578	9.578	0.000	94	195941	50.0	52.8	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1755023	50.0	51.4	
107 Cyclohexanone	55	9.830	9.830	0.000	94	451669	1500.0	1033.2	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	468296	50.0	48.6	
109 Bromobenzene	156	10.053	10.053	0.000	97	398360	50.0	50.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	83	117773	50.0	56.4	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	87	138251	50.0	46.1	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	484286	50.0	50.1	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	394579	50.0	48.5	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1452365	50.0	51.2	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	430159	50.0	51.0	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1218984	50.0	51.2	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	1544706	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
118 sec-Butylbenzene	134	10.849	10.849	0.000	95	354161	50.0	50.8	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	768404	50.0	49.5	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1527327	50.0	52.3	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	781956	50.0	49.5	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1384984	50.0	53.1	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	724766	50.0	51.8	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	70709	50.0	46.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	355810	50.0	47.5	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	95	129542	50.0	45.4	
130 Naphthalene	128	13.335	13.335	0.000	97	867535	50.0	47.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	268636	50.0	47.3	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	92.6	
S 154 1,3-Dichloropropene, Total	1				0		100.0	105.4	
S 153 1,2-Dichloroethene, Total	1				0		100.0	92.6	
S 152 Trihalomethanes, Total	1				0		200.0	208.7	
S 150 Xylenes, Total (URS)	1				0		100.0	101.0	
S 148 Xylenes, Total	106				0		100.0	101.0	

Reagents:

MV-MegaMainA_00110	Amount Added: 25.00	Units: uL	
MV-Gas A_00191	Amount Added: 10.00	Units: uL	
mv-IS_SS_00080	Amount Added: 5.00	Units: uL	Run Reagent

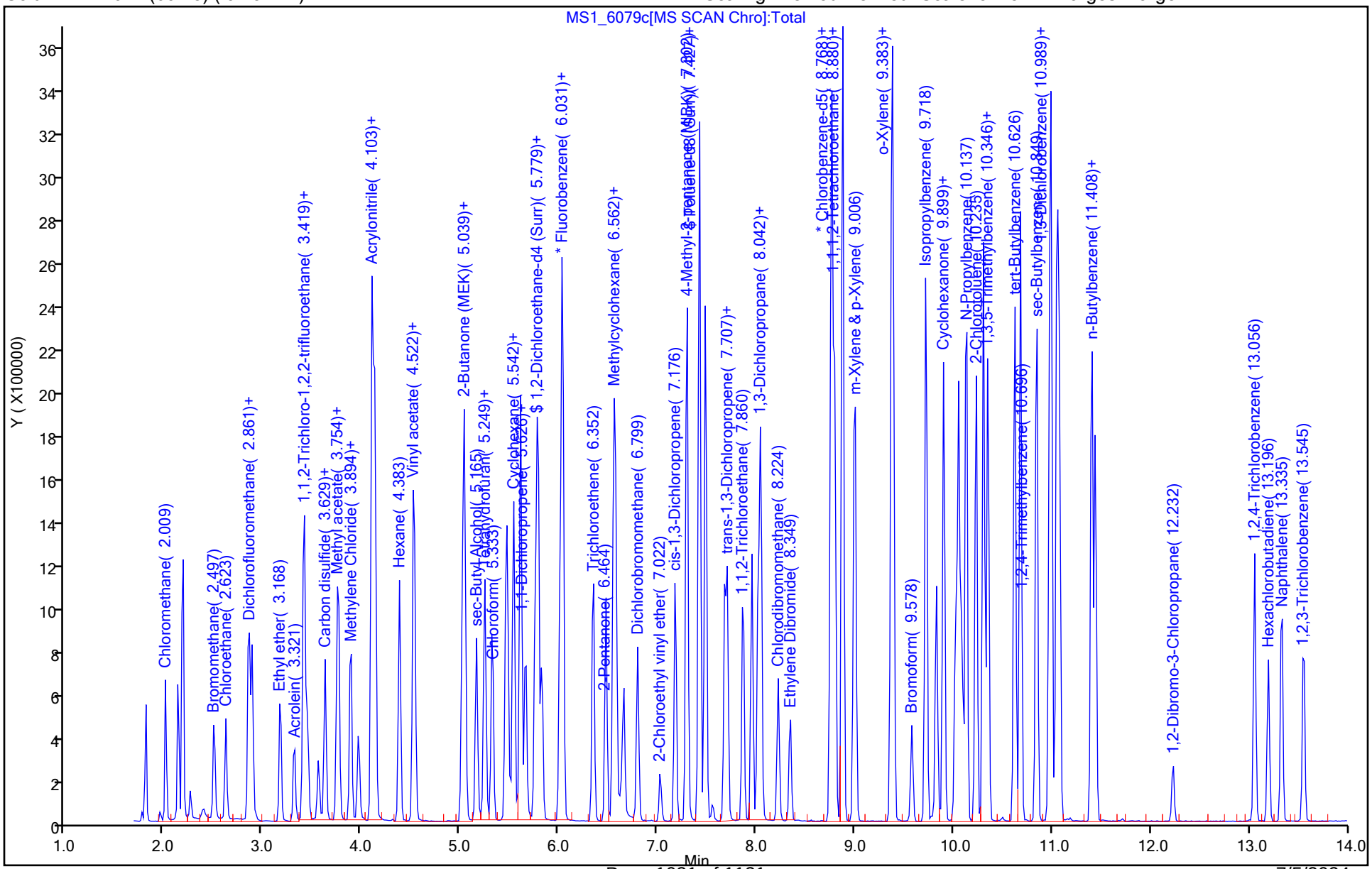
Report Date: 02-Jul-2024 01:27:36 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079c.D

Injection Date:	01-Jul-2024 22:22:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6079c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 22:22:30 ALS Bottle#: 31 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:26 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	51.2	102.36
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.1	102.15
$ 6 Toluene-d8 (Surr)	50.0	50.0	99.99
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.8	101.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-658996/5

Matrix: Water | Lab File ID: MS1_6080c.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 22:43

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	25.5		3.0	0.79
75-05-8	Acetonitrile	244		30	14
126-98-7	Methacrylonitrile	267		15	5.3
80-62-6	Methyl methacrylate	44.1		4.0	1.1
107-12-0	Propionitrile	232		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 22:43:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: V8PV Date: 02-Jul-2024 01:27:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1985939	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	443554	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	678734	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	451102	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	583413	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1997288	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	682966	50.0	52.3	
17 Ethanol	45	3.070	3.070	0.000	100	145238	1500.0	1470.5	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	116138	250.0	245.7	
27 Acetonitrile	41	3.726	3.726	0.000	98	268736	250.0	243.7	
40 Isopropyl ether	87	4.550	4.550	0.000	93	152827	25.0	21.2	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	299642	25.0	25.5	
43 Tert-butyl ethyl ether	59	4.871	4.871	0.000	98	557579	25.0	25.8	
47 Ethyl acetate	43	5.039	5.039	0.000	99	366566	50.0	53.9	
48 Propionitrile	54	5.081	5.081	0.000	99	284815	250.0	232.2	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1234236	250.0	266.6	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	506935	25.0	24.6	
65 n-Butanol	56	6.226	6.226	0.000	86	117199	625.0	571.7	a
70 Methyl methacrylate	100	6.603	6.603	0.000	91	99211	50.0	44.1	
74 2-Nitropropane	41	6.994	6.994	0.000	97	81184	50.0	67.3	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	106721	50.0	68.0	
122 1,2,3-Trimethylbenzene	105	11.100	11.100	0.000	98	724540	25.0	25.1	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	95	193901	25.0	19.2	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Report Date: 03-Jul-2024 20:17:19 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Review Flags

a - User Assigned ID

Reagents:

MV-Supp A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

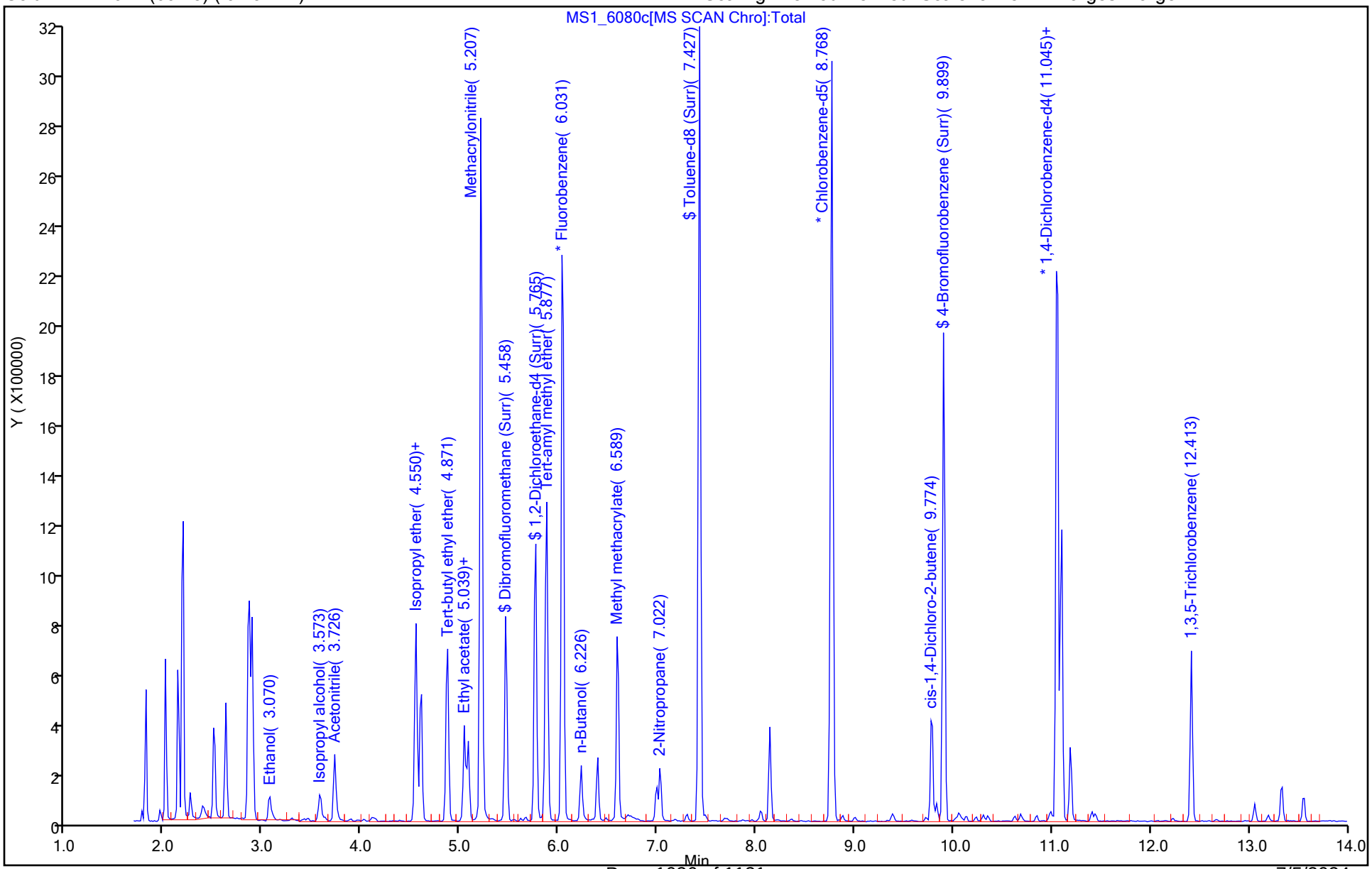
Report Date: 03-Jul-2024 20:17:20 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6080c.D

Injection Date:	01-Jul-2024 22:43:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
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\20240701-135083.b\MS1_6080c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2024 22:43:30 ALS Bottle#: 32 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: V8PV Date: 02-Jul-2024 01:27:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.26
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.9	99.79
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.20
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.3	104.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-659045/4

Matrix: Water | Lab File ID: MS1_6108_LCS.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 09:17

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	56.8		1.0	0.16
71-55-6	1,1,1-Trichloroethane	57.6		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	48.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.9		1.0	0.27
75-34-3	1,1-Dichloroethane	53.0		1.0	0.22
75-35-4	1,1-Dichloroethene	51.0		1.0	0.23
563-58-6	1,1-Dichloropropene	54.1		1.0	0.19
96-18-4	1,2,3-Trichloropropane	45.4		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	44.9		5.0	0.42
95-50-1	1,2-Dichlorobenzene	53.4		1.0	0.14
107-06-2	1,2-Dichloroethane	58.4		1.0	0.28
78-87-5	1,2-Dichloropropane	52.2		1.0	0.24
541-73-1	1,3-Dichlorobenzene	51.7		1.0	0.33
142-28-9	1,3-Dichloropropane	52.2		1.0	0.17
106-46-7	1,4-Dichlorobenzene	52.3		1.0	0.39
594-20-7	2,2-Dichloropropane	61.7		1.0	0.17
591-78-6	2-Hexanone	207		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	215		5.0	0.98
67-64-1	Acetone	200		15	6.6
71-43-2	Benzene	52.1		1.0	0.14
75-25-2	Bromoform	55.6		2.0	0.25
74-83-9	Bromomethane	48.5		5.0	2.4
75-15-0	Carbon disulfide	51.8		2.0	0.26
56-23-5	Carbon tetrachloride	59.3		1.0	0.23
108-90-7	Chlorobenzene	52.7		1.0	0.092
74-97-5	Chlorobromomethane	50.1		1.0	0.40
124-48-1	Chlorodibromomethane	55.8		1.0	0.28
75-00-3	Chloroethane	46.1		2.0	0.64
67-66-3	Chloroform	55.5		1.0	0.36
74-87-3	Chloromethane	47.6		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	52.3		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	55.6		1.0	0.16
74-95-3	Dibromomethane	54.7		1.0	0.34
75-27-4	Dichlorobromomethane	57.6		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-659045/4

Matrix: Water | Lab File ID: MS1_6108_LCS.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 09:17

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	54.2		2.0	0.30
100-41-4	Ethylbenzene	52.8		1.0	0.14
74-88-4	Iodomethane	53.7		5.0	2.6
78-83-1	Isobutyl alcohol	1330		110	37
75-09-2	Methylene Chloride	47.5		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	54.8		2.0	0.36
95-47-6	o-Xylene	54.6		1.0	0.11
100-42-5	Styrene	56.0		1.0	0.13
127-18-4	Tetrachloroethene	52.4		1.0	0.40
108-88-3	Toluene	53.6		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	52.8		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	61.0		1.0	0.14
79-01-6	Trichloroethene	51.9		1.0	0.30
75-69-4	Trichlorofluoromethane	49.8		2.0	0.20
108-05-4	Vinyl acetate	119		3.0	0.36
75-01-4	Vinyl chloride	49.2		1.0	0.23
1330-20-7	Xylenes, Total	109		1.0	0.11
78-93-3	2-Butanone (MEK)	201		10	4.6
107-02-8	Acrolein	616		20	4.9
107-13-1	Acrylonitrile	479		20	1.7
106-93-4	1,2-Dibromoethane	53.6		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	47.9		1.0	0.58
107-05-1	Allyl chloride	54.1		2.0	0.46
97-63-2	Ethyl methacrylate	53.7		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	55.5		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-127
460-00-4	4-Bromofluorobenzene (Surr)	99		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_MS1\20240702-135101.b\MS1_6108_LCS.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Jul-2024 09:17:30 ALS Bottle#: 52 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv/lcs
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

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	2055066	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	482097	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	95	784656	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	480512	50.0	50.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	621289	50.0	51.3	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2118753	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	751158	50.0	49.7	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	472768	50.0	54.2	
10 Chloromethane	50	2.008	2.008	0.000	99	510813	50.0	47.6	
11 Vinyl chloride	62	2.134	2.134	0.000	98	563126	50.0	49.2	
13 Bromomethane	94	2.497	2.497	0.000	91	272481	50.0	48.5	
14 Chloroethane	64	2.623	2.623	0.000	100	343804	50.0	46.1	
15 Dichlorofluoromethane	67	2.860	2.860	0.000	97	895779	50.0	46.1	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	99	619162	50.0	49.8	
18 Ethyl ether	59	3.168	3.168	0.000	91	328010	50.0	51.1	
20 Acrolein	56	3.321	3.321	0.000	98	333030	493.8	615.8	
22 1,1-Dichloroethene	96	3.405	3.405	0.000	97	339853	50.0	51.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	95	261076	50.0	52.9	
23 Acetone	43	3.447	3.447	0.000	99	512885	200.0	200.0	
24 Iodomethane	142	3.559	3.559	0.000	99	403276	50.0	53.7	
26 Carbon disulfide	76	3.628	3.628	0.000	100	1053895	50.0	51.8	
28 Methyl acetate	43	3.740	3.740	0.000	98	604253	100.0	98.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	601947	50.0	54.1	
30 Methylene Chloride	84	3.894	3.894	0.000	94	402541	50.0	47.5	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	382345	500.0	540.2	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1598471	500.0	478.5	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	97	1160439	50.0	55.0	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	385977	50.0	52.8	
36 Hexane	57	4.383	4.383	0.000	94	591565	50.0	54.6	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1706978	100.0	118.9	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	96	735943	50.0	53.0	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	99	806241	200.0	200.7	
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	83	438355	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
46 2,2-Dichloropropane	77	5.039	5.039	0.000	91	593720	50.0	61.7	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	731316	1200.0	1075.2	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	190090	50.0	50.1	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	257638	100.0	93.8	
53 Chloroform	83	5.318	5.318	0.000	95	710654	50.0	55.5	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	589413	50.0	57.6	
57 Cyclohexane	56	5.542	5.542	0.000	92	732815	50.0	54.2	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	471797	50.0	59.3	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	576535	50.0	54.1	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	338861	1250.0	1329.8	
61 Benzene	78	5.793	5.793	0.000	97	1663849	50.0	52.1	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	577867	50.0	58.4	
64 n-Heptane	43	6.017	6.017	0.000	92	515578	50.0	57.1	
66 Trichloroethene	95	6.352	6.352	0.000	97	396983	50.0	51.9	
67 2-Pentanone	43	6.478	6.478	0.000	99	983508	160.0	165.4	
68 Methylcyclohexane	55	6.561	6.561	0.000	92	562978	50.0	56.7	
69 1,2-Dichloropropane	63	6.575	6.575	0.000	94	435645	50.0	52.2	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	109969	1000.0	899.4	
72 Dibromomethane	93	6.659	6.659	0.000	93	246001	50.0	54.7	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	516378	50.0	57.6	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	93	79355	50.0	53.4	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	652739	50.0	55.6	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1606619	200.0	214.6	
80 Toluene	91	7.483	7.483	0.000	97	1831572	50.0	53.6	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	595079	50.0	61.0	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	529005	50.0	53.7	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	91	364440	50.0	51.9	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	298305	50.0	52.4	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	94	669362	50.0	52.2	
91 2-Hexanone	43	8.042	8.042	0.000	96	1097856	200.0	206.5	
93 Chlorodibromomethane	129	8.223	8.223	0.000	90	353889	50.0	55.8	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	373154	50.0	53.6	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	444251	40.0	41.2	
97 Chlorobenzene	112	8.796	8.796	0.000	93	1118457	50.0	52.7	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	356452	50.0	56.8	
98 Ethylbenzene	106	8.880	8.880	0.000	99	625802	50.0	52.8	
100 m-Xylene & p-Xylene	106	9.005	9.005	0.000	0	783122	50.0	54.8	
101 o-Xylene	106	9.369	9.369	0.000	97	762493	50.0	54.6	
103 Styrene	104	9.397	9.397	0.000	95	1266645	50.0	56.0	
104 Bromoform	173	9.578	9.578	0.000	94	210091	50.0	55.6	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1909743	50.0	53.1	
107 Cyclohexanone	55	9.829	9.829	0.000	93	630432	1500.0	1416.7	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	490267	50.0	48.4	
109 Bromobenzene	156	10.053	10.053	0.000	97	438981	50.0	52.3	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	73	121965	50.0	55.5	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	143559	50.0	45.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	535893	50.0	52.7	
113 2-Chlorotoluene	126	10.234	10.234	0.000	96	441957	50.0	51.6	
114 1,3,5-Trimethylbenzene	105	10.304	10.304	0.000	93	1660845	50.0	55.6	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	471962	50.0	53.1	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1354946	50.0	54.0	
117 1,2,4-Trimethylbenzene	105	10.681	10.681	0.000	97	1702006	50.0	55.9	

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	10.849	10.849	0.000	94	390050	50.0	53.1	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	844378	50.0	51.7	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1678508	50.0	54.6	
121 1,4-Dichlorobenzene	146	11.072	11.072	0.000	94	870098	50.0	52.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1528769	50.0	55.7	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	787816	50.0	53.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	79	71170	50.0	44.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	93	377128	50.0	47.9	
129 Hexachlorobutadiene	225	13.195	13.195	0.000	96	143496	50.0	47.8	
130 Naphthalene	128	13.335	13.335	0.000	97	872261	50.0	45.8	
132 1,2,3-Trichlorobenzene	180	13.558	13.558	0.000	95	260296	50.0	43.6	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	105.1	
S 154 1,3-Dichloropropene, Total	1				0		100.0	116.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	105.1	
S 152 Trihalomethanes, Total	1				0		200.0	224.6	
S 150 Xylenes, Total (URS)	1				0		100.0	109.3	
S 148 Xylenes, Total	106				0		100.0	109.3	

Reagents:

MV-MegaMainA_00110	Amount Added:	25.00	Units: uL	
MV-Gas A_00191	Amount Added:	10.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

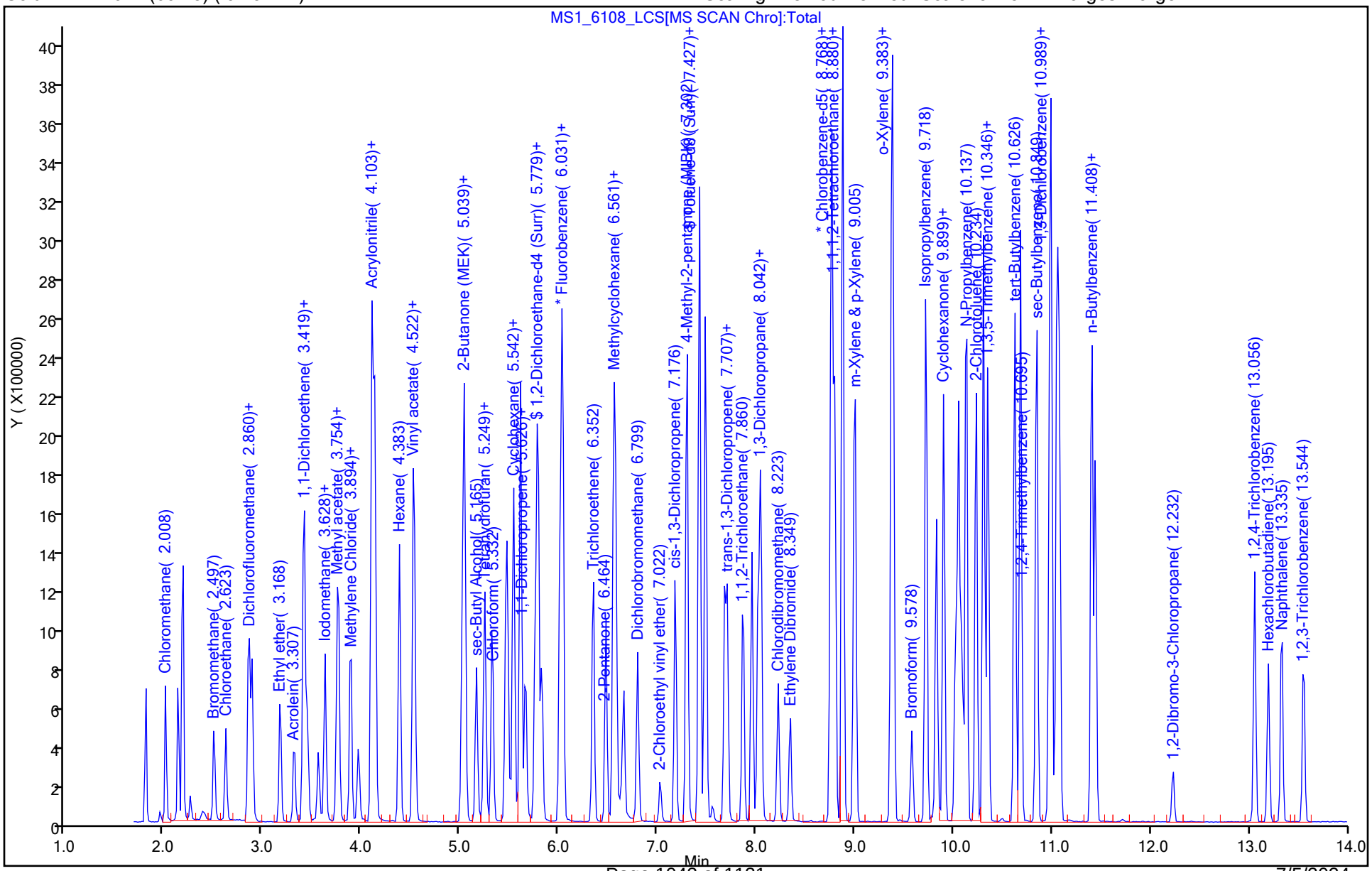
Report Date: 02-Jul-2024 15:56:17 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108_LCS.D

Injection Date:	02-Jul-2024 09:17:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6108_LCS.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Jul-2024 09:17:30 ALS Bottle#: 52 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv/lcs
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.6	101.15
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.70
$ 6 Toluene-d8 (Surr)	50.0	49.9	99.75
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.7	99.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-659045/5

Matrix: Water | Lab File ID: MS1_6109.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 09:39

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	25.2		3.0	0.79
75-05-8	Acetonitrile	247		30	14
126-98-7	Methacrylonitrile	269		15	5.3
80-62-6	Methyl methacrylate	44.2		4.0	1.1
107-12-0	Propionitrile	238		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		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\20240702-135101.b\MS1_6109.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Jul-2024 09:39:30 ALS Bottle#: 53 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:35:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1983298	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	458427	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.001	97	700836	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	461608	50.0	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	584413	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	2006268	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	84	681470	50.0	50.5	
17 Ethanol	45	3.070	3.070	0.000	99	143592	1500.0	1455.8	
25 Isopropyl alcohol	45	3.573	3.573	0.000	97	110312	250.0	233.7	
27 Acetonitrile	41	3.726	3.726	0.000	100	271933	250.0	247.0	
40 Isopropyl ether	87	4.550	4.550	0.000	93	159072	25.0	22.1	
41 2-Chloro-1,3-butadiene	53	4.592	4.606	-0.014	93	295420	25.0	25.2	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	549684	25.0	25.5	
47 Ethyl acetate	43	5.039	5.039	0.000	99	373632	50.0	55.0	
48 Propionitrile	54	5.081	5.081	0.000	99	291518	250.0	237.9	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1243700	250.0	269.0	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	93	501969	25.0	24.4	
65 n-Butanol	56	6.394	6.394	0.000	22	31000	625.0	151.4	
70 Methyl methacrylate	100	6.589	6.590	-0.001	90	99340	50.0	44.2	
74 2-Nitropropane	41	6.995	6.995	-0.001	98	87242	50.0	72.4	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	95806	50.0	59.2	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	729301	25.0	24.5	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	94	197564	25.0	19.0	
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_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

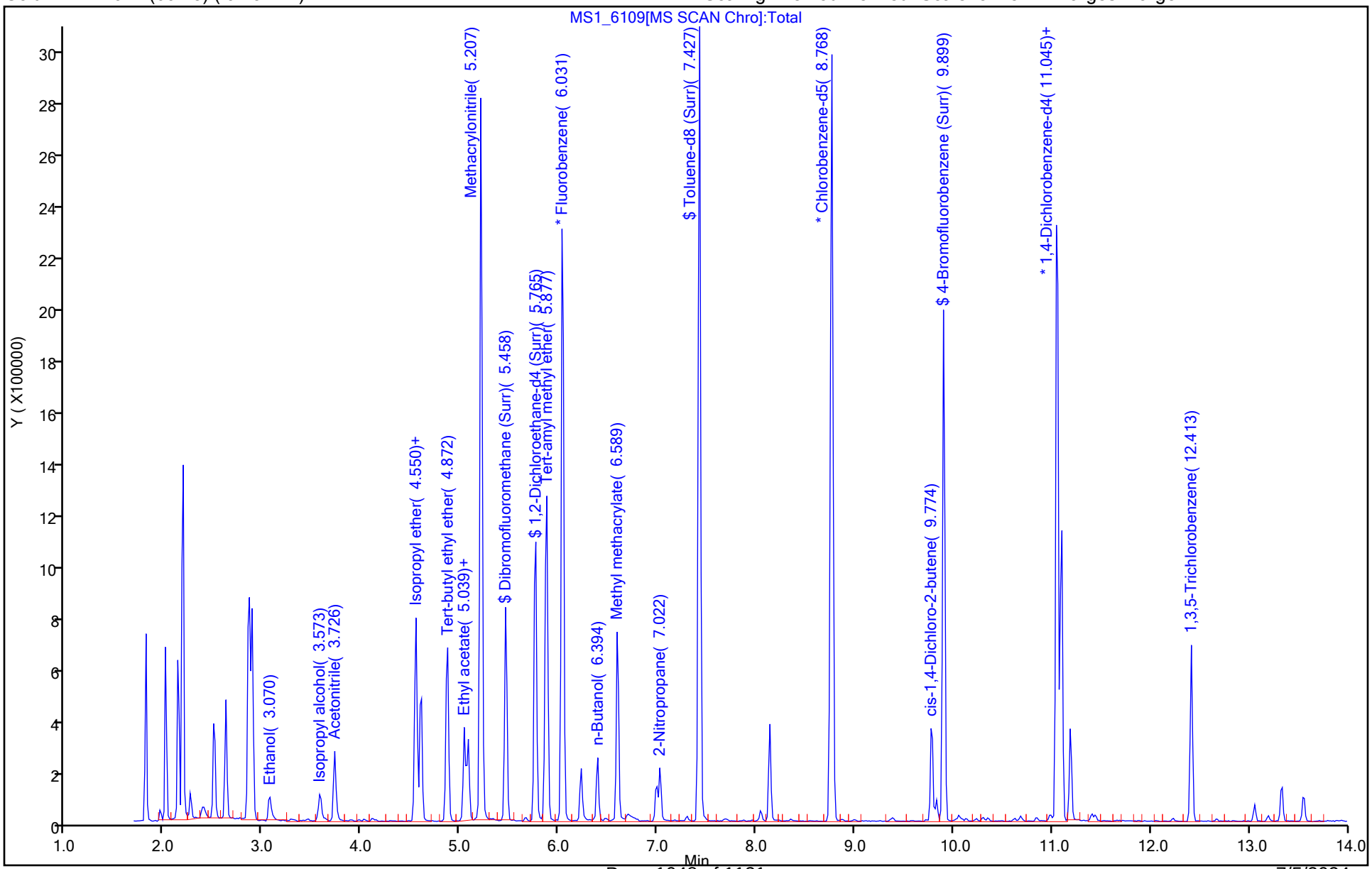
Report Date: 02-Jul-2024 15:56:22 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6109.D

Injection Date:	02-Jul-2024 09:39:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
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\20240702-135101.b\MS1_6109.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Jul-2024 09:39:30 ALS Bottle#: 53 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:35:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.68
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	100.10
$ 6 Toluene-d8 (Surr)	50.0	49.7	99.33
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	101.05

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658893/5

Matrix: Water | Lab File ID: P86871.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 11:05

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	53.2		1.0	0.16
71-55-6	1,1,1-Trichloroethane	49.5		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	48.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.7		1.0	0.27
75-34-3	1,1-Dichloroethane	48.7		1.0	0.22
75-35-4	1,1-Dichloroethene	48.5		1.0	0.23
563-58-6	1,1-Dichloropropene	49.0		1.0	0.19
96-18-4	1,2,3-Trichloropropane	48.8		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	52.1		5.0	0.42
95-50-1	1,2-Dichlorobenzene	48.8		1.0	0.14
107-06-2	1,2-Dichloroethane	47.3		1.0	0.28
78-87-5	1,2-Dichloropropane	48.3		1.0	0.24
541-73-1	1,3-Dichlorobenzene	49.5		1.0	0.33
142-28-9	1,3-Dichloropropane	50.1		1.0	0.17
106-46-7	1,4-Dichlorobenzene	48.3		1.0	0.39
594-20-7	2,2-Dichloropropane	45.7		1.0	0.17
591-78-6	2-Hexanone	172		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	172		5.0	0.98
67-64-1	Acetone	174		15	6.6
71-43-2	Benzene	50.0		1.0	0.14
75-25-2	Bromoform	56.7		2.0	0.25
74-83-9	Bromomethane	76.8		5.0	2.4
75-15-0	Carbon disulfide	50.2		2.0	0.26
56-23-5	Carbon tetrachloride	52.0		1.0	0.23
108-90-7	Chlorobenzene	48.7		1.0	0.092
74-97-5	Chlorobromomethane	47.8		1.0	0.40
124-48-1	Chlorodibromomethane	53.8		1.0	0.28
75-00-3	Chloroethane	60.3		2.0	0.64
67-66-3	Chloroform	47.9		1.0	0.36
74-87-3	Chloromethane	60.4		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	49.1		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	48.4		1.0	0.16
74-95-3	Dibromomethane	48.3		1.0	0.34
75-27-4	Dichlorobromomethane	51.0		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658893/5

Matrix: Water | Lab File ID: P86871.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 11:05

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	55.4		2.0	0.30
100-41-4	Ethylbenzene	50.3		1.0	0.14
74-88-4	Iodomethane	46.0		5.0	2.6
78-83-1	Isobutyl alcohol	1180		110	37
75-09-2	Methylene Chloride	47.0		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	48.6		2.0	0.36
95-47-6	o-Xylene	49.9		1.0	0.11
100-42-5	Styrene	51.4		1.0	0.13
127-18-4	Tetrachloroethene	48.8		1.0	0.40
108-88-3	Toluene	46.6		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.6		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	48.2		1.0	0.14
79-01-6	Trichloroethene	48.6		1.0	0.30
75-69-4	Trichlorofluoromethane	49.3		2.0	0.20
108-05-4	Vinyl acetate	84.7		3.0	0.36
75-01-4	Vinyl chloride	58.8		1.0	0.23
1330-20-7	Xylenes, Total	98.5		1.0	0.11
78-93-3	2-Butanone (MEK)	162		10	4.6
107-02-8	Acrolein	428		20	4.9
107-13-1	Acrylonitrile	458		20	1.7
106-93-4	1,2-Dibromoethane	49.1		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	46.3		1.0	0.58
107-05-1	Allyl chloride	44.3		2.0	0.46
97-63-2	Ethyl methacrylate	51.8		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	39.5		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		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)	96		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86871.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 11:05:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1452621	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	86	353363	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	599045	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	368922	50.0	47.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	371829	50.0	51.6	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1437713	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	472199	50.0	51.3	
9 Dichlorodifluoromethane	85	1.631	1.626	0.005	88	372677	50.0	55.4	
10 Chloromethane	50	1.801	1.806	-0.005	99	889225	50.0	60.4	
11 Vinyl chloride	62	1.882	1.882	0.000	98	1083301	50.0	58.8	
12 Bromomethane	94	2.150	2.150	0.000	91	1269873	50.0	76.8	
13 Chloroethane	64	2.232	2.232	0.000	99	442367	50.0	60.3	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	806474	50.0	50.9	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	569177	50.0	49.3	
17 Ethyl ether	59	2.657	2.657	0.000	87	275233	50.0	46.9	
18 Acrolein	56	2.750	2.750	0.000	99	388833	493.8	427.8	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	98	348390	50.0	48.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.000	96	260001	50.0	47.0	
21 Acetone	43	2.865	2.865	0.000	99	348444	200.0	174.2	
23 Iodomethane	142	2.935	2.936	-0.001	100	395339	50.0	46.0	
24 Carbon disulfide	76	2.996	2.996	0.000	100	1168655	50.0	50.2	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	80	357943	50.0	44.3	
25 Methyl acetate	43	3.083	3.083	0.000	96	414418	100.0	84.5	
28 Methylene Chloride	84	3.170	3.170	0.000	87	421142	50.0	47.0	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	335646	500.0	454.0	
30 Acrylonitrile	53	3.328	3.328	0.000	98	1348860	500.0	458.2	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	96	399277	50.0	49.6	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	1047891	50.0	46.4	
33 Hexane	57	3.552	3.552	0.000	87	447762	50.0	47.4	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1039133	100.0	84.7	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	684365	50.0	48.7	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	92	567920	200.0	161.5	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	81	447501	50.0	49.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	4.081	4.081	0.000	86	547756	50.0	45.7	
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	98	562400	1200.0	963.9	
46 Chlorobromomethane	128	4.245	4.245	0.000	91	191149	50.0	47.8	
48 Chloroform	83	4.305	4.305	0.000	94	682364	50.0	47.9	
47 Tetrahydrofuran	42	4.311	4.311	-0.001	78	161330	100.0	79.2	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	98	566607	50.0	49.5	
50 Cyclohexane	56	4.512	4.512	0.000	86	540203	50.0	46.6	
51 1,1-Dichloropropene	75	4.561	4.562	-0.001	97	523584	50.0	49.0	
52 Carbon tetrachloride	117	4.572	4.572	0.000	95	484922	50.0	52.0	
55 Isobutyl alcohol	41	4.616	4.616	0.000	91	235828	1250.0	1179.1	
53 Benzene	78	4.714	4.714	0.000	95	1598310	50.0	50.0	
54 1,2-Dichloroethane	62	4.731	4.731	0.000	97	500418	50.0	47.3	
57 n-Heptane	43	4.900	4.900	0.000	81	309169	50.0	41.4	
59 Trichloroethene	95	5.200	5.200	0.000	97	398725	50.0	48.6	
60 2-Pentanone	43	5.320	5.320	0.000	97	665634	160.0	132.5	
61 Methylcyclohexane	55	5.391	5.391	0.000	87	397814	50.0	44.4	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	95	401867	50.0	48.3	
65 Dibromomethane	93	5.467	5.467	0.000	93	272546	50.0	48.3	
64 1,4-Dioxane	88	5.489	5.489	0.000	88	103561	1000.0	931.1	
66 Dichlorobromomethane	83	5.587	5.587	0.000	98	525931	50.0	51.0	
68 2-Chloroethyl vinyl ether	63	5.795	5.795	0.000	89	230515	50.0	50.7	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	97	594574	50.0	48.4	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	94	1181333	200.0	172.5	
71 Toluene	91	6.231	6.231	0.000	98	1708444	50.0	46.6	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	585188	50.0	48.2	
73 Ethyl methacrylate	69	6.449	6.449	0.000	84	472534	50.0	51.8	
74 1,1,2-Trichloroethane	97	6.569	6.569	0.000	91	353500	50.0	48.7	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	306922	50.0	48.8	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	614427	50.0	50.1	
77 2-Hexanone	43	6.766	6.766	0.000	93	819931	200.0	172.0	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	409263	50.0	53.8	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	377914	50.0	49.1	
80 1-Chlorohexane	91	7.426	7.426	0.000	90	428389	40.0	36.2	
81 Chlorobenzene	112	7.470	7.470	0.000	96	1108678	50.0	48.7	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	96	401117	50.0	53.2	
83 Ethylbenzene	106	7.546	7.552	-0.006	98	608612	50.0	50.3	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	712944	50.0	48.6	
85 o-Xylene	106	8.026	8.026	0.000	97	735752	50.0	49.9	
86 Styrene	104	8.043	8.043	0.000	96	1309144	50.0	51.4	
87 Bromoform	173	8.217	8.217	0.000	93	282313	50.0	56.7	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1885197	50.0	49.3	
90 Cyclohexanone	55	8.485	8.485	0.000	90	485305	1500.0	1041.4	
92 1,1,2,2-Tetrachloroethane	83	8.643	8.648	-0.005	94	502900	50.0	48.3	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	-0.001	58	112303	50.0	39.5	
94 Bromobenzene	156	8.687	8.687	-0.001	93	486294	50.0	48.0	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	84	147943	50.0	48.8	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	529163	50.0	50.0	
97 2-Chlorotoluene	126	8.867	8.867	0.000	97	463828	50.0	50.0	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1591868	50.0	50.2	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	486732	50.0	49.9	
100 tert-Butylbenzene	119	9.249	9.254	-0.005	93	1328758	50.0	49.5	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1632241	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
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	400804	50.0	50.0	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	99	938558	50.0	49.5	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1731746	50.0	51.0	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	94	955173	50.0	48.3	
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1638875	50.0	50.4	
108 1,2-Dichlorobenzene	146	10.051	10.056	-0.005	98	877327	50.0	48.8	
109 1,2-Dibromo-3-Chloropropane	157	10.825	10.825	0.000	86	82121	50.0	52.1	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	454647	50.0	46.3	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	96	179867	50.0	45.3	
113 Naphthalene	128	11.928	11.928	0.000	97	956905	50.0	43.7	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	286823	50.0	45.3	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	98.7	
S 119 Xylenes, Total (URS)	1				0		100.0	98.4	
S 120 Trihalomethanes, Total	1				0		200.0	209.3	
S 122 Xylenes, Total	106				0		100.0	98.4	
S 123 1,2-Dichloroethene, Total	1				0		100.0	98.7	
S 124 1,3-Dichloropropene, Total	1				0		100.0	96.6	

Reagents:

MV-Gas B_00165	Amount Added:	10.00	Units: uL	
MV-MegaMain B_00105	Amount Added:	25.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

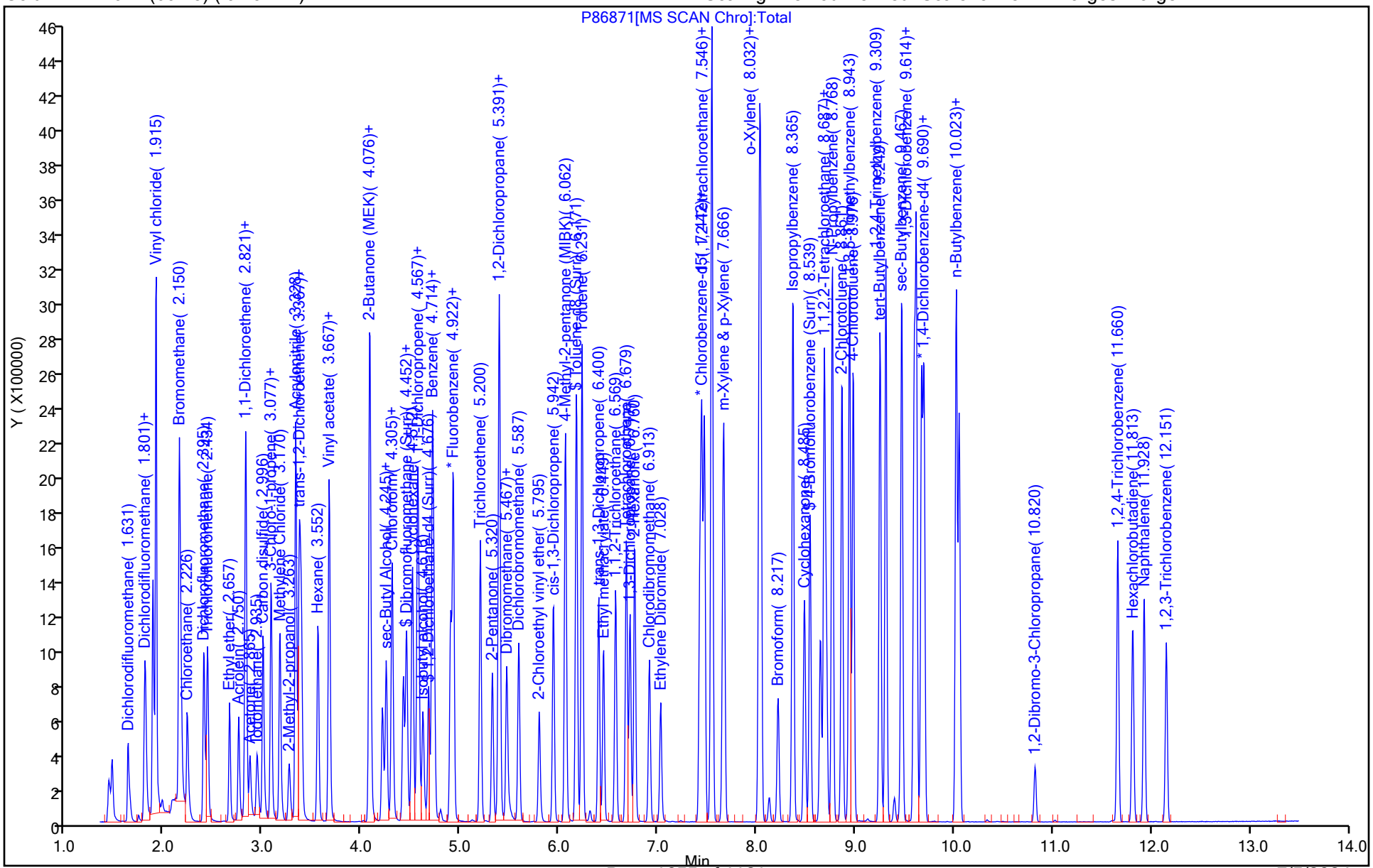
Report Date: 01-Jul-2024 13:15:51 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86871.D

Injection Date:	01-Jul-2024 11:05:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86871.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 11:05:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	47.8	95.70
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.18
$ 6 Toluene-d8 (Surr)	50.0	50.2	100.31
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658893/7

Matrix: Water | Lab File ID: P86872.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 11:25

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	25.1		3.0	0.79
75-05-8	Acetonitrile	232		30	14
126-98-7	Methacrylonitrile	218		15	5.3
80-62-6	Methyl methacrylate	42.7		4.0	1.1
107-12-0	Propionitrile	236		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
2037-26-5	Toluene-d8 (Surr)	106		80-125
1868-53-7	Dibromofluoromethane (Surr)	96		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86872.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 11:25:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD S
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1417682	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	318133	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	95	511999	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	361928	50.0	48.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	355180	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	94	1367181	50.0	53.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	423889	50.0	53.9	
16 Ethanol	45	2.592	2.592	0.000	100	101912	1500.0	1444.1	
22 Isopropyl alcohol	45	2.974	2.974	0.000	98	82844	250.0	206.8	
27 Acetonitrile	41	3.050	3.050	0.000	99	176256	250.0	232.0	
35 Isopropyl ether	87	3.699	3.699	0.000	89	147304	25.0	23.2	
37 2-Chloro-1,3-butadiene	53	3.727	3.727	0.000	90	238558	25.0	25.1	
38 Tert-butyl ethyl ether	59	3.956	3.956	0.000	96	461466	25.0	23.7	
40 Ethyl acetate	43	4.098	4.098	0.000	99	264784	50.0	41.1	
43 Propionitrile	54	4.109	4.103	0.006	100	241018	250.0	236.3	
45 Methacrylonitrile	41	4.212	4.212	0.000	84	836662	250.0	218.2	
56 Tert-amyl methyl ether	73	4.813	4.812	0.001	98	463289	25.0	22.5	
58 n-Butanol	56	5.113	5.113	0.000	86	99801	625.0	529.8	
63 Methyl methacrylate	100	5.429	5.429	0.000	80	93459	50.0	42.7	
67 2-Nitropropane	41	5.751	5.751	0.000	99	68720	50.0	46.9	
89 cis-1,4-Dichloro-2-butene	53	8.408	8.408	0.000	93	88489	50.0	39.1	
106 1,2,3-Trimethylbenzene	105	9.718	9.718	0.000	99	717714	25.0	26.4	
110 1,3,5-Trichlorobenzene	180	11.022	11.022	0.000	96	242694	25.0	24.4	

Reagents:

MV-Supp B_00072 Amount Added: 25.00 Units: uL
mv-IS_SS_00077 Amount Added: 5.00 Units: uL Run Reagent

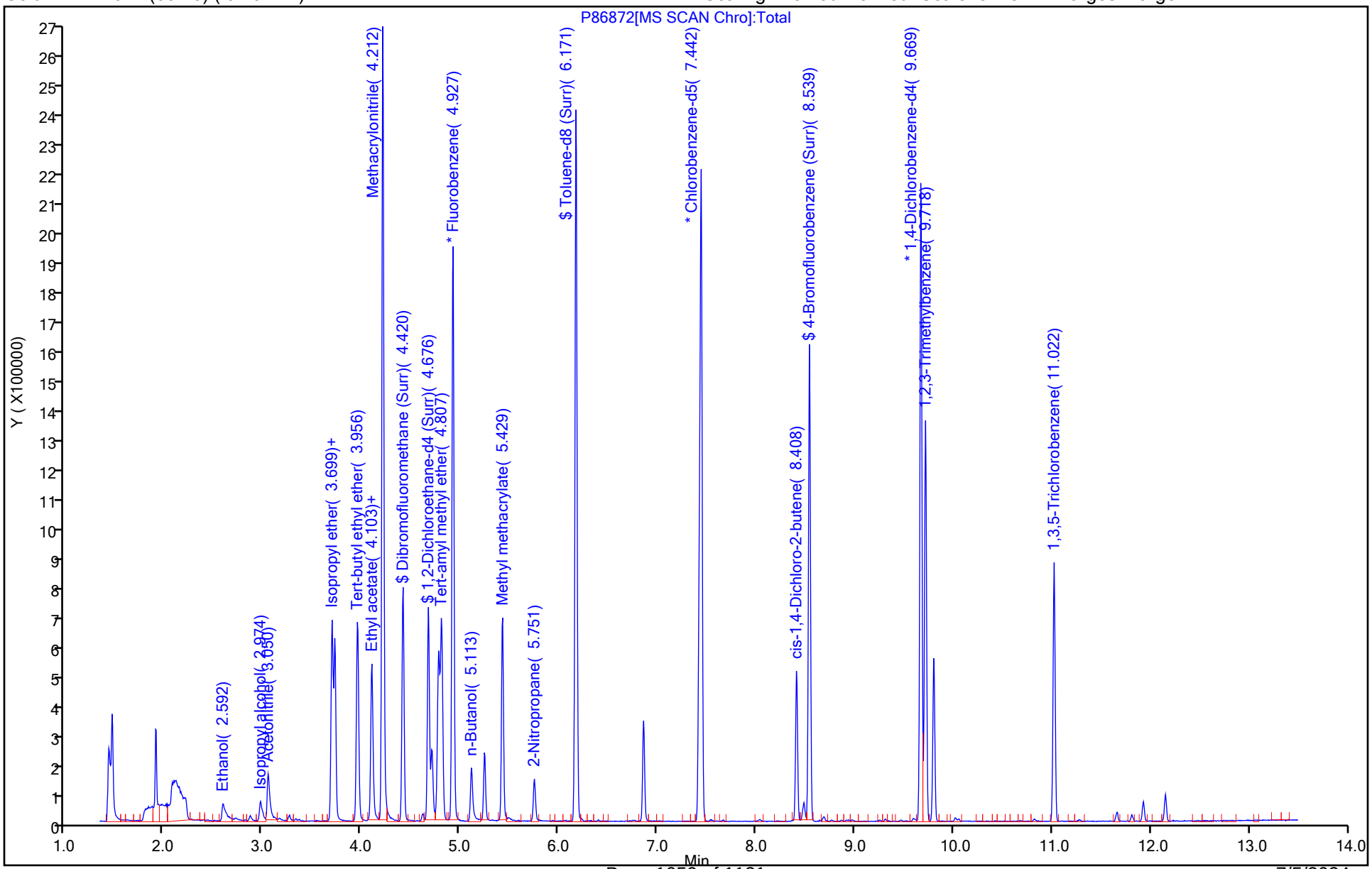
Report Date: 01-Jul-2024 13:16:00 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86872.D

Injection Date:	01-Jul-2024 11:25:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	LCSD			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86872.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 11:25:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD S
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 13:15:44 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1656

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.1	96.19
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	100.99
$ 6 Toluene-d8 (Surr)	50.0	53.0	105.95
$ 7 4-Bromofluorobenzene (Surr)	50.0	53.9	107.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658996/6

Matrix: Water | Lab File ID: MS1_6081.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 23:04

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	55.3		1.0	0.16
71-55-6	1,1,1-Trichloroethane	55.1		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	47.2		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.5		1.0	0.27
75-34-3	1,1-Dichloroethane	50.5		1.0	0.22
75-35-4	1,1-Dichloroethene	46.2		1.0	0.23
563-58-6	1,1-Dichloropropene	51.0		1.0	0.19
96-18-4	1,2,3-Trichloropropane	48.4		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	47.1		5.0	0.42
95-50-1	1,2-Dichlorobenzene	56.0		1.0	0.14
107-06-2	1,2-Dichloroethane	56.4		1.0	0.28
78-87-5	1,2-Dichloropropane	50.4		1.0	0.24
541-73-1	1,3-Dichlorobenzene	52.7		1.0	0.33
142-28-9	1,3-Dichloropropane	50.4		1.0	0.17
106-46-7	1,4-Dichlorobenzene	53.3		1.0	0.39
594-20-7	2,2-Dichloropropane	50.1		1.0	0.17
591-78-6	2-Hexanone	216		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	224		5.0	0.98
67-64-1	Acetone	200		15	6.6
71-43-2	Benzene	49.8		1.0	0.14
75-25-2	Bromoform	55.4		2.0	0.25
74-83-9	Bromomethane	53.9		5.0	2.4
75-15-0	Carbon disulfide	46.4		2.0	0.26
56-23-5	Carbon tetrachloride	55.9		1.0	0.23
108-90-7	Chlorobenzene	51.7		1.0	0.092
74-97-5	Chlorobromomethane	47.6		1.0	0.40
124-48-1	Chlorodibromomethane	57.0		1.0	0.28
75-00-3	Chloroethane	45.6		2.0	0.64
67-66-3	Chloroform	52.9		1.0	0.36
74-87-3	Chloromethane	44.5		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	49.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	54.0		1.0	0.16
74-95-3	Dibromomethane	53.3		1.0	0.34
75-27-4	Dichlorobromomethane	57.2		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658996/6

Matrix: Water | Lab File ID: MS1_6081.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 23:04

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	40.6		2.0	0.30
100-41-4	Ethylbenzene	51.6		1.0	0.14
74-88-4	Iodomethane	42.1		5.0	2.6
78-83-1	Isobutyl alcohol	1430		110	37
75-09-2	Methylene Chloride	45.1		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	51.8		2.0	0.36
95-47-6	o-Xylene	54.3		1.0	0.11
100-42-5	Styrene	55.4		1.0	0.13
127-18-4	Tetrachloroethene	49.6		1.0	0.40
108-88-3	Toluene	52.2		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.4		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	59.6		1.0	0.14
79-01-6	Trichloroethene	53.7		1.0	0.30
75-69-4	Trichlorofluoromethane	49.8		2.0	0.20
108-05-4	Vinyl acetate	74.2		3.0	0.36
75-01-4	Vinyl chloride	46.4		1.0	0.23
1330-20-7	Xylenes, Total	106		1.0	0.11
78-93-3	2-Butanone (MEK)	201		10	4.6
107-02-8	Acrolein	560		20	4.9
107-13-1	Acrylonitrile	475		20	1.7
106-93-4	1,2-Dibromoethane	52.0		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	49.3		1.0	0.58
107-05-1	Allyl chloride	50.5		2.0	0.46
97-63-2	Ethyl methacrylate	54.4		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	60.5		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		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_MS1\20240701-135083.b\MS1_6081.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 23:04:30 ALS Bottle#: 33 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:26 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

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	2041361	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	479176	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	749322	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	91	469297	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	612826	50.0	51.0	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2081668	50.0	49.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	727600	50.0	50.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	352152	50.0	40.6	
10 Chloromethane	50	2.008	2.009	-0.001	99	474738	50.0	44.5	
11 Vinyl chloride	62	2.134	2.134	0.000	98	527185	50.0	46.4	
13 Bromomethane	94	2.497	2.497	0.000	91	301062	50.0	53.9	
14 Chloroethane	64	2.623	2.623	0.000	100	337991	50.0	45.6	
15 Dichlorofluoromethane	67	2.860	2.861	0.000	97	935210	50.0	48.5	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	615390	50.0	49.8	
18 Ethyl ether	59	3.168	3.168	0.000	92	321112	50.0	50.4	
20 Acrolein	56	3.321	3.321	0.000	98	301039	493.8	560.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	95	231846	50.0	47.3	
22 1,1-Dichloroethene	96	3.405	3.419	-0.014	96	306227	50.0	46.2	
23 Acetone	43	3.447	3.447	0.000	99	510245	200.0	200.4	
24 Iodomethane	142	3.559	3.559	0.000	99	309089	50.0	42.1	
26 Carbon disulfide	76	3.629	3.629	0.000	100	936646	50.0	46.4	
28 Methyl acetate	43	3.754	3.740	0.014	98	579999	100.0	94.8	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	557901	50.0	50.5	
30 Methylene Chloride	84	3.894	3.894	0.000	94	379561	50.0	45.1	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	420896	500.0	598.6	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1574543	500.0	474.5	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	97	1142121	50.0	54.5	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	97	358573	50.0	49.4	
36 Hexane	57	4.383	4.383	0.000	94	489821	50.0	45.5	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1058849	100.0	74.2	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	96	695811	50.0	50.5	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	801792	200.0	200.9	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	91	479110	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
45 cis-1,2-Dichloroethene	96	5.039	5.039	0.000	84	411264	50.0	49.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	788996	1200.0	1166.7	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	179586	50.0	47.6	
52 Tetrahydrofuran	42	5.249	5.249	0.000	86	265457	100.0	97.3	
53 Chloroform	83	5.318	5.319	-0.001	95	673092	50.0	52.9	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	560259	50.0	55.1	
57 Cyclohexane	56	5.542	5.542	0.000	91	661576	50.0	49.3	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	442188	50.0	55.9	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	540276	50.0	51.0	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	363194	1250.0	1434.9	
61 Benzene	78	5.793	5.793	0.000	97	1578861	50.0	49.8	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	554360	50.0	56.4	
64 n-Heptane	43	6.017	6.003	0.014	92	412473	50.0	46.0	
66 Trichloroethene	95	6.352	6.352	0.000	98	408077	50.0	53.7	
67 2-Pentanone	43	6.478	6.478	0.000	99	1003032	160.0	169.8	
68 Methylcyclohexane	55	6.561	6.562	-0.001	92	512024	50.0	51.9	
69 1,2-Dichloropropane	63	6.575	6.576	-0.001	95	418000	50.0	50.4	
71 1,4-Dioxane	88	6.631	6.631	0.000	96	107415	1000.0	884.4	
72 Dibromomethane	93	6.659	6.659	0.000	93	238108	50.0	53.3	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	508699	50.0	57.2	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	93	84038	50.0	56.9	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	630631	50.0	54.0	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1663087	200.0	223.7	
80 Toluene	91	7.483	7.483	0.000	98	1771476	50.0	52.2	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	577551	50.0	59.6	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	531937	50.0	54.4	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	91	359676	50.0	51.5	
89 Tetrachloroethene	164	7.958	7.958	0.000	94	280483	50.0	49.6	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	97	642483	50.0	50.4	
91 2-Hexanone	43	8.042	8.042	0.000	96	1143334	200.0	216.4	
93 Chlorodibromomethane	129	8.223	8.224	-0.001	90	359535	50.0	57.0	
95 Ethylene Dibromide	107	8.349	8.349	0.000	99	359775	50.0	52.0	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	415268	40.0	38.8	
97 Chlorobenzene	112	8.796	8.796	0.000	93	1089749	50.0	51.7	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	344588	50.0	55.3	
98 Ethylbenzene	106	8.880	8.880	0.000	99	608680	50.0	51.6	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	736542	50.0	51.8	
101 o-Xylene	106	9.369	9.369	0.000	97	753578	50.0	54.3	
103 Styrene	104	9.397	9.397	0.000	95	1246615	50.0	55.4	
104 Bromoform	173	9.578	9.578	0.000	94	207955	50.0	55.4	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	1876672	50.0	54.6	
107 Cyclohexanone	55	9.830	9.830	0.000	94	579438	1500.0	1310.0	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	457143	50.0	47.2	
109 Bromobenzene	156	10.053	10.053	0.000	98	432956	50.0	54.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	79	127031	50.0	60.5	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	145980	50.0	48.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	513657	50.0	52.9	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	428783	50.0	52.4	
114 1,3,5-Trimethylbenzene	105	10.304	10.305	0.000	94	1575128	50.0	55.2	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	444093	50.0	52.3	
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	1306383	50.0	54.5	
117 1,2,4-Trimethylbenzene	105	10.681	10.682	-0.001	98	1638676	50.0	56.3	

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	10.849	10.849	0.000	95	383424	50.0	54.7	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	822142	50.0	52.7	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1646267	50.0	56.1	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	847154	50.0	53.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1492002	50.0	56.9	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	788655	50.0	56.0	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	80	71346	50.0	47.1	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	370673	50.0	49.3	
129 Hexachlorobutadiene	225	13.195	13.196	-0.001	96	136741	50.0	47.7	
130 Naphthalene	128	13.335	13.335	0.000	97	805966	50.0	44.3	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	94	249479	50.0	43.7	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	98.8	
S 154 1,3-Dichloropropene, Total	1				0		100.0	113.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	98.8	
S 152 Trihalomethanes, Total	1				0		200.0	222.5	
S 150 Xylenes, Total (URS)	1				0		100.0	106.1	
S 148 Xylenes, Total	106				0		100.0	106.1	

Reagents:

MV-MegaMainA_00110	Amount Added:	25.00	Units: uL	
MV-Gas A_00191	Amount Added:	10.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

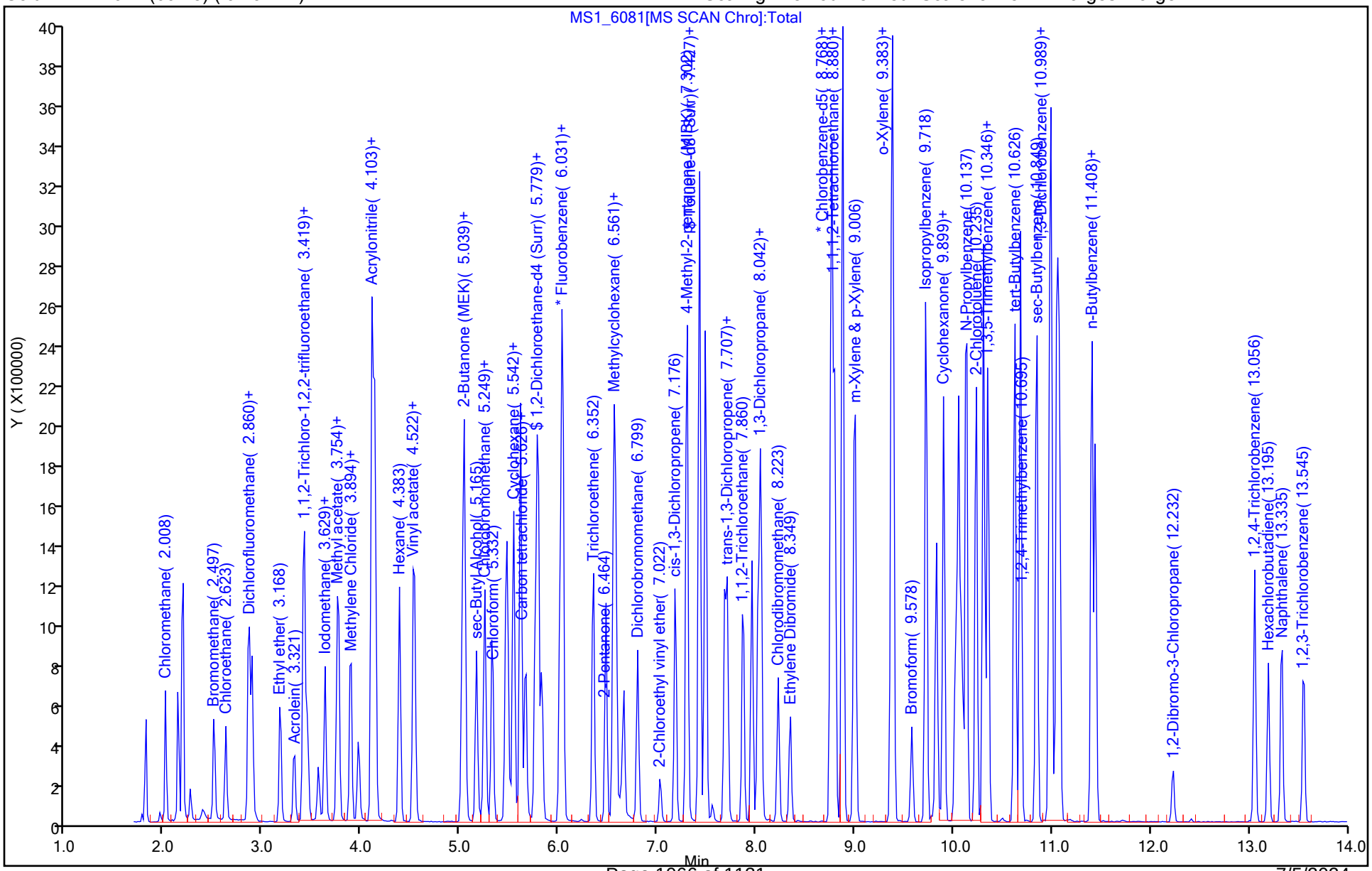
Report Date: 02-Jul-2024 01:27:33 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6081.D

Injection Date:	01-Jul-2024 23:04:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6081.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 23:04:30 ALS Bottle#: 33 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 01:27:26 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.7	99.45
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	101.98
$ 6 Toluene-d8 (Surr)	50.0	49.3	98.60
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	100.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-658996/7

Matrix: Water | Lab File ID: MS1_6082.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 23:26

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.: 658996 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	27.1		3.0	0.79
75-05-8	Acetonitrile	247		30	14
126-98-7	Methacrylonitrile	274		15	5.3
80-62-6	Methyl methacrylate	45.6		4.0	1.1
107-12-0	Propionitrile	235		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		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)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6082.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 23:26:30 ALS Bottle#: 34 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: V8PV Date: 02-Jul-2024 01:27:26

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	2024577	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	449486	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	684010	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	475433	50.0	50.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	591546	50.0	49.6	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	93	2002498	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	684999	50.0	52.0	
17 Ethanol	45	3.070	3.070	0.000	99	140866	1500.0	1399.0	
25 Isopropyl alcohol	45	3.587	3.573	0.014	98	120626	250.0	250.3	
27 Acetonitrile	41	3.726	3.726	0.000	99	277729	250.0	247.1	
40 Isopropyl ether	87	4.550	4.550	0.000	93	163290	25.0	22.2	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	92	324174	25.0	27.1	
43 Tert-butyl ethyl ether	59	4.872	4.871	0.001	97	570731	25.0	25.9	
47 Ethyl acetate	43	5.039	5.039	0.000	99	393971	50.0	56.8	
48 Propionitrile	54	5.081	5.081	0.000	99	294486	250.0	235.5	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1294185	250.0	274.3	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	511589	25.0	24.3	
65 n-Butanol	56	6.226	6.226	0.000	89	125667	625.0	601.3	a
70 Methyl methacrylate	100	6.589	6.603	-0.014	91	104628	50.0	45.6	
74 2-Nitropropane	41	6.994	6.994	0.000	100	85603	50.0	69.6	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	114831	50.0	72.7	
122 1,2,3-Trimethylbenzene	105	11.100	11.100	0.000	98	751926	25.0	25.9	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	96	207928	25.0	20.4	
135 t-Amyl alcohol	1		0.000				ND	ND	
142 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 A_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

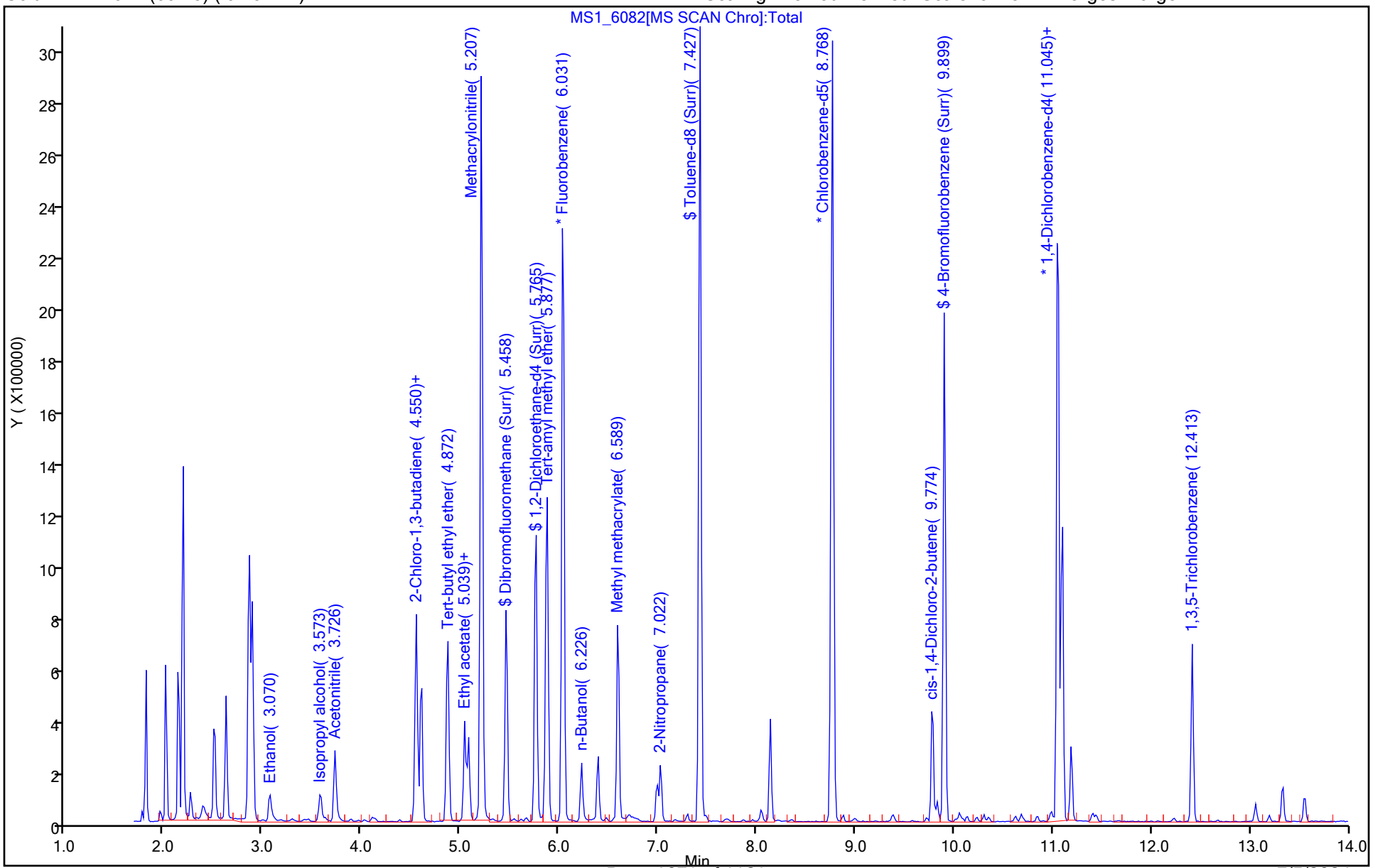
Report Date: 03-Jul-2024 20:17:20 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\MS1_6082.D

Injection Date:	01-Jul-2024 23:26:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCSD			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
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\20240701-135083.b\MS1_6082.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2024 23:26:30 ALS Bottle#: 34 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240701-135083.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Jul-2024 20:17:18 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: V8PV Date: 02-Jul-2024 01:27:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.8	101.59
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.25
$ 6 Toluene-d8 (Surr)	50.0	50.6	101.11
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.0	104.07

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-659045/6

Matrix: Water | Lab File ID: MS1_6110.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 10:00

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	54.8		1.0	0.16
71-55-6	1,1,1-Trichloroethane	56.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	48.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	50.9		1.0	0.27
75-34-3	1,1-Dichloroethane	52.5		1.0	0.22
75-35-4	1,1-Dichloroethene	49.5		1.0	0.23
563-58-6	1,1-Dichloropropene	53.9		1.0	0.19
96-18-4	1,2,3-Trichloropropane	46.0		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	42.9		5.0	0.42
95-50-1	1,2-Dichlorobenzene	53.6		1.0	0.14
107-06-2	1,2-Dichloroethane	59.1		1.0	0.28
78-87-5	1,2-Dichloropropane	50.1		1.0	0.24
541-73-1	1,3-Dichlorobenzene	51.0		1.0	0.33
142-28-9	1,3-Dichloropropane	51.4		1.0	0.17
106-46-7	1,4-Dichlorobenzene	51.4		1.0	0.39
594-20-7	2,2-Dichloropropane	60.7		1.0	0.17
591-78-6	2-Hexanone	203		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	213		5.0	0.98
67-64-1	Acetone	201		15	6.6
71-43-2	Benzene	52.3		1.0	0.14
75-25-2	Bromoform	55.1		2.0	0.25
74-83-9	Bromomethane	58.9		5.0	2.4
75-15-0	Carbon disulfide	50.5		2.0	0.26
56-23-5	Carbon tetrachloride	58.8		1.0	0.23
108-90-7	Chlorobenzene	51.5		1.0	0.092
74-97-5	Chlorobromomethane	49.9		1.0	0.40
124-48-1	Chlorodibromomethane	55.9		1.0	0.28
75-00-3	Chloroethane	49.2		2.0	0.64
67-66-3	Chloroform	53.9		1.0	0.36
74-87-3	Chloromethane	51.0		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	51.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	55.3		1.0	0.16
74-95-3	Dibromomethane	53.0		1.0	0.34
75-27-4	Dichlorobromomethane	56.7		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-659045/6

Matrix: Water | Lab File ID: MS1_6110.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 10:00

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	57.3		2.0	0.30
100-41-4	Ethylbenzene	53.1		1.0	0.14
74-88-4	Iodomethane	43.4		5.0	2.6
78-83-1	Isobutyl alcohol	1240		110	37
75-09-2	Methylene Chloride	48.2		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	53.6		2.0	0.36
95-47-6	o-Xylene	53.1		1.0	0.11
100-42-5	Styrene	55.1		1.0	0.13
127-18-4	Tetrachloroethene	52.0		1.0	0.40
108-88-3	Toluene	52.9		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	52.7		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	59.9		1.0	0.14
79-01-6	Trichloroethene	52.7		1.0	0.30
75-69-4	Trichlorofluoromethane	52.0		2.0	0.20
108-05-4	Vinyl acetate	119		3.0	0.36
75-01-4	Vinyl chloride	51.7		1.0	0.23
1330-20-7	Xylenes, Total	107		1.0	0.11
78-93-3	2-Butanone (MEK)	197		10	4.6
107-02-8	Acrolein	607		20	4.9
107-13-1	Acrylonitrile	469		20	1.7
106-93-4	1,2-Dibromoethane	51.7		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	46.7		1.0	0.58
107-05-1	Allyl chloride	52.9		2.0	0.46
97-63-2	Ethyl methacrylate	53.2		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	55.0		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		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)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6110.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Jul-2024 10:00:30 ALS Bottle#: 54 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:42:14

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	2011873	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	88	473712	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.001	96	755452	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	473034	50.0	50.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	599325	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	2078803	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	83	746710	50.0	51.4	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	100	489322	50.0	57.3	
10 Chloromethane	50	2.008	2.008	0.000	99	535656	50.0	51.0	
11 Vinyl chloride	62	2.134	2.134	0.000	98	578359	50.0	51.7	
13 Bromomethane	94	2.497	2.497	0.000	92	324078	50.0	58.9	
14 Chloroethane	64	2.623	2.623	0.000	100	358921	50.0	49.2	
15 Dichlorofluoromethane	67	2.860	2.860	0.000	97	877058	50.0	46.1	
16 Trichlorofluoromethane	101	2.888	2.888	0.000	98	633231	50.0	52.0	
18 Ethyl ether	59	3.168	3.168	0.000	93	323392	50.0	51.5	
20 Acrolein	56	3.321	3.321	0.000	99	321227	493.8	606.7	
22 1,1-Dichloroethene	96	3.419	3.405	0.014	97	323183	50.0	49.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.419	3.419	0.000	93	250538	50.0	51.9	
23 Acetone	43	3.447	3.447	0.000	99	504345	200.0	201.0	
24 Iodomethane	142	3.559	3.559	0.000	99	315267	50.0	43.4	
26 Carbon disulfide	76	3.628	3.628	0.000	100	1005845	50.0	50.5	
28 Methyl acetate	43	3.754	3.740	0.014	97	579683	100.0	96.1	
29 3-Chloro-1-propene	41	3.768	3.768	0.000	89	576464	50.0	52.9	
30 Methylene Chloride	84	3.894	3.894	0.000	94	399798	50.0	48.2	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	361814	500.0	522.1	
32 Acrylonitrile	53	4.103	4.103	0.000	98	1534876	500.0	469.4	
33 Methyl tert-butyl ether	73	4.131	4.131	0.000	97	1125939	50.0	54.5	
34 trans-1,2-Dichloroethene	96	4.131	4.131	0.000	98	376967	50.0	52.7	
36 Hexane	57	4.383	4.383	0.000	93	576307	50.0	54.1	
38 Vinyl acetate	43	4.522	4.522	0.000	98	1672976	100.0	119.0	
39 1,1-Dichloroethane	63	4.536	4.536	0.000	96	712736	50.0	52.5	
44 2-Butanone (MEK)	43	5.011	5.011	0.000	100	774995	200.0	197.0	

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	5.039	5.039	0.000	83	422054	50.0	51.4	
46 2,2-Dichloropropane	77	5.039	5.039	0.000	91	572388	50.0	60.7	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	98	697915	1200.0	1048.5	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	185323	50.0	49.9	
52 Tetrahydrofuran	42	5.249	5.249	0.000	86	254697	100.0	94.8	
53 Chloroform	83	5.318	5.318	0.000	95	675695	50.0	53.9	
54 1,1,1-Trichloroethane	97	5.472	5.472	0.000	98	563742	50.0	56.3	
57 Cyclohexane	56	5.542	5.542	0.000	92	703827	50.0	53.2	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	457797	50.0	58.8	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	561938	50.0	53.9	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	310385	1250.0	1244.2	
61 Benzene	78	5.793	5.793	0.000	97	1634092	50.0	52.3	
62 1,2-Dichloroethane	62	5.821	5.821	0.000	97	571860	50.0	59.1	
64 n-Heptane	43	6.017	6.017	0.000	92	506474	50.0	57.3	
66 Trichloroethene	95	6.352	6.352	0.000	98	396123	50.0	52.7	
67 2-Pentanone	43	6.478	6.478	0.000	99	958153	160.0	164.6	
68 Methylcyclohexane	55	6.561	6.561	0.000	93	548009	50.0	56.4	
69 1,2-Dichloropropane	63	6.575	6.575	0.000	94	409558	50.0	50.1	
71 1,4-Dioxane	88	6.631	6.631	0.000	95	100532	1000.0	839.9	
72 Dibromomethane	93	6.659	6.659	0.000	93	233355	50.0	53.0	
73 Dichlorobromomethane	83	6.799	6.799	0.000	98	497188	50.0	56.7	
75 2-Chloroethyl vinyl ether	63	7.022	7.022	0.000	91	84305	50.0	58.0	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	637689	50.0	55.3	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1560294	200.0	212.9	
80 Toluene	91	7.483	7.483	0.000	98	1768410	50.0	52.9	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	97	572472	50.0	59.9	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	514479	50.0	53.2	
86 1,1,2-Trichloroethane	97	7.860	7.860	0.000	92	349898	50.0	50.9	
89 Tetrachloroethene	164	7.958	7.958	0.000	95	290893	50.0	52.0	
90 1,3-Dichloropropane	76	8.028	8.014	0.014	94	646893	50.0	51.4	
91 2-Hexanone	43	8.042	8.042	0.000	96	1059311	200.0	202.8	
93 Chlorodibromomethane	129	8.223	8.223	0.000	91	348180	50.0	55.9	
95 Ethylene Dibromide	107	8.349	8.349	0.000	98	353683	50.0	51.7	
96 1-Chlorohexane	91	8.754	8.754	0.000	97	429740	40.0	40.6	
97 Chlorobenzene	112	8.796	8.796	0.000	93	1074159	50.0	51.5	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	337675	50.0	54.8	
98 Ethylbenzene	106	8.880	8.880	0.000	98	619373	50.0	53.1	
100 m-Xylene & p-Xylene	106	9.005	9.005	0.000	0	752532	50.0	53.6	
101 o-Xylene	106	9.369	9.369	0.000	97	728651	50.0	53.1	
103 Styrene	104	9.397	9.397	0.000	95	1225702	50.0	55.1	
104 Bromoform	173	9.578	9.578	0.000	94	204585	50.0	55.1	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1856303	50.0	53.6	
107 Cyclohexanone	55	9.829	9.829	0.000	94	599462	1500.0	1371.0	
108 1,1,2,2-Tetrachloroethane	83	10.025	10.025	0.000	94	472562	50.0	48.4	
109 Bromobenzene	156	10.053	10.053	0.000	97	422981	50.0	52.4	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.053	0.000	72	116494	50.0	55.0	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	139879	50.0	46.0	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	524991	50.0	53.6	
113 2-Chlorotoluene	126	10.235	10.234	0.000	96	426264	50.0	51.7	
114 1,3,5-Trimethylbenzene	105	10.304	10.304	0.000	94	1551990	50.0	54.0	
115 4-Chlorotoluene	126	10.346	10.346	0.000	99	447617	50.0	52.3	
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	1267831	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
117 1,2,4-Trimethylbenzene	105	10.681	10.681	0.000	97	1614603	50.0	55.0	
118 sec-Butylbenzene	134	10.849	10.849	0.000	95	376854	50.0	53.3	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	802358	50.0	51.0	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1642710	50.0	55.5	
121 1,4-Dichlorobenzene	146	11.072	11.072	0.000	94	822668	50.0	51.4	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	1476075	50.0	55.8	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	761151	50.0	53.6	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	79	65538	50.0	42.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	354097	50.0	46.7	
129 Hexachlorobutadiene	225	13.195	13.195	0.000	96	141631	50.0	49.0	
130 Naphthalene	128	13.335	13.335	0.000	97	722793	50.0	39.4	
132 1,2,3-Trichlorobenzene	180	13.558	13.558	0.000	94	228405	50.0	39.7	
S 147 1,2-Dichloroethene, Total (URS)	96				0		100.0	104.1	
S 154 1,3-Dichloropropene, Total	1				0		100.0	115.2	
S 153 1,2-Dichloroethene, Total	1				0		100.0	104.1	
S 152 Trihalomethanes, Total	1				0		200.0	221.6	
S 150 Xylenes, Total (URS)	1				0		100.0	106.6	
S 148 Xylenes, Total	106				0		100.0	106.6	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00110	Amount Added:	25.00	Units: uL	
MV-Gas A_00191	Amount Added:	10.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 02-Jul-2024 15:56:24 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6110.D

Injection Date:	02-Jul-2024 10:00:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	54
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6110.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Jul-2024 10:00:30 ALS Bottle#: 54 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 10:42:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.9	101.71
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.6	101.19
$ 6 Toluene-d8 (Surr)	50.0	49.8	99.60
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-659045/7

Matrix: Water | Lab File ID: MS1_6111.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/02/2024 10:21

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.: 659045 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	26.3		3.0	0.79
75-05-8	Acetonitrile	253		30	14
126-98-7	Methacrylonitrile	278		15	5.3
80-62-6	Methyl methacrylate	46.1		4.0	1.1
107-12-0	Propionitrile	244		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6111.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Jul-2024 10:21:30 ALS Bottle#: 55 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 12:26:31

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	1977201	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.768	8.768	0.000	89	441170	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.001	96	678781	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	5.458	5.458	0.000	92	461342	50.0	50.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.765	5.765	0.000	0	581601	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	7.427	7.427	0.000	94	1963896	50.0	50.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.899	9.899	0.000	84	674143	50.0	51.6	
17 Ethanol	45	3.070	3.070	0.000	100	144419	1500.0	1468.7	
25 Isopropyl alcohol	45	3.587	3.573	0.014	98	115842	250.0	246.2	
27 Acetonitrile	41	3.726	3.726	0.000	99	278029	250.0	253.3	
40 Isopropyl ether	87	4.550	4.550	0.000	92	164535	25.0	22.9	
41 2-Chloro-1,3-butadiene	53	4.606	4.606	0.000	93	307801	25.0	26.3	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	98	567885	25.0	26.4	
47 Ethyl acetate	43	5.039	5.039	0.000	99	368345	50.0	54.4	
48 Propionitrile	54	5.081	5.081	0.000	99	297627	250.0	243.7	
50 Methacrylonitrile	41	5.207	5.207	0.000	93	1283048	250.0	278.4	
63 Tert-amyl methyl ether	73	5.877	5.877	0.000	86	511779	25.0	24.9	
65 n-Butanol	56	6.394	6.394	0.000	22	32700	625.0	160.2	
70 Methyl methacrylate	100	6.589	6.590	-0.001	92	103258	50.0	46.1	
74 2-Nitropropane	41	6.995	6.995	-0.001	100	84250	50.0	70.1	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	105799	50.0	67.5	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	745996	25.0	25.9	
127 1,3,5-Trichlorobenzene	180	12.413	12.413	0.000	96	213371	25.0	21.1	
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_00091	Amount Added:	25.00	Units: uL	
mv-IS_SS_00080	Amount Added:	5.00	Units: uL	Run Reagent

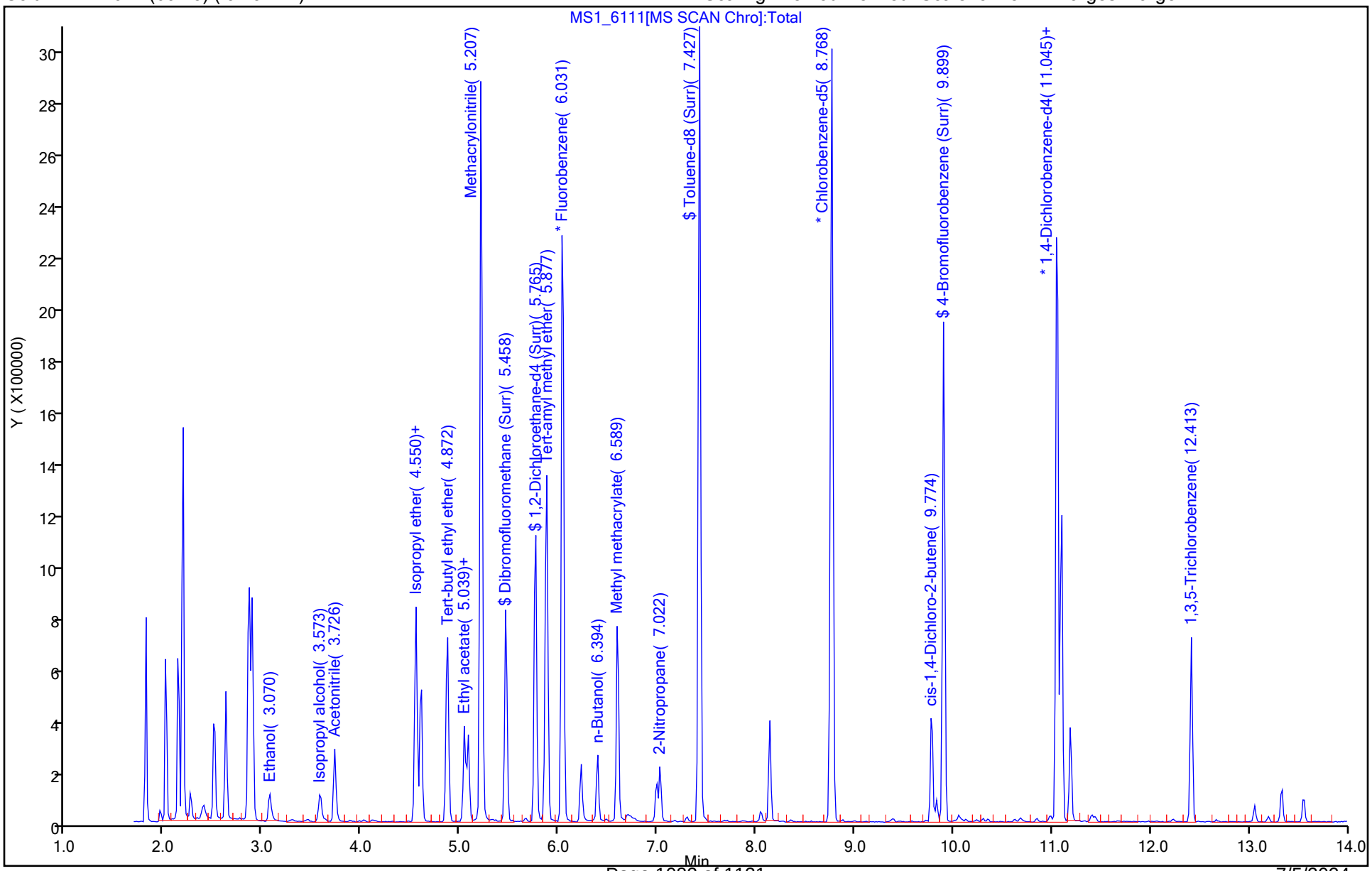
Report Date: 02-Jul-2024 15:56:28 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6111.D

Injection Date:	02-Jul-2024 10:21:30	Instrument ID:	VMS_MS1	Operator ID:	go
Lims ID:	LCSD			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\MS1_6111.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Jul-2024 10:21:30 ALS Bottle#: 55 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: go Instrument ID: VMS_MS1

Method: \\chromfs\Denver\ChromData\VMS_MS1\20240702-135101.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jul-2024 15:56:15 Calib Date: 26-Jun-2024 06:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20240626-134885.b\MS1_5864.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: Q2ZS Date: 02-Jul-2024 12:26:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.5	100.94
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	99.92
$ 6 Toluene-d8 (Surr)	50.0	50.5	101.03
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.6	103.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 MS | Lab Sample ID: 280-193176-2 MS

Matrix: Water | Lab File ID: P86892.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 18:19

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	53.5		1.0	0.16
71-55-6	1,1,1-Trichloroethane	49.8		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	50.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	49.5		1.0	0.27
75-34-3	1,1-Dichloroethane	48.3		1.0	0.22
75-35-4	1,1-Dichloroethene	48.7		1.0	0.23
563-58-6	1,1-Dichloropropene	48.5		1.0	0.19
96-18-4	1,2,3-Trichloropropane	49.3		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	51.8		5.0	0.42
95-50-1	1,2-Dichlorobenzene	49.4		1.0	0.14
107-06-2	1,2-Dichloroethane	47.0		1.0	0.28
78-87-5	1,2-Dichloropropane	47.1		1.0	0.24
541-73-1	1,3-Dichlorobenzene	48.8		1.0	0.33
142-28-9	1,3-Dichloropropane	50.0		1.0	0.17
106-46-7	1,4-Dichlorobenzene	48.2		1.0	0.39
594-20-7	2,2-Dichloropropane	41.9		1.0	0.17
591-78-6	2-Hexanone	167		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	164		5.0	0.98
67-64-1	Acetone	159		15	6.6
71-43-2	Benzene	49.7		1.0	0.14
75-25-2	Bromoform	57.0		2.0	0.25
74-83-9	Bromomethane	67.7		5.0	2.4
75-15-0	Carbon disulfide	49.5		2.0	0.26
56-23-5	Carbon tetrachloride	53.2		1.0	0.23
108-90-7	Chlorobenzene	49.2		1.0	0.092
74-97-5	Chlorobromomethane	49.1		1.0	0.40
124-48-1	Chlorodibromomethane	53.9		1.0	0.28
75-00-3	Chloroethane	62.9		2.0	0.64
67-66-3	Chloroform	48.9		1.0	0.36
74-87-3	Chloromethane	52.4		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	50.6		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	45.8		1.0	0.16
74-95-3	Dibromomethane	48.3		1.0	0.34
75-27-4	Dichlorobromomethane	50.6		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 MS | Lab Sample ID: 280-193176-2 MS

Matrix: Water | Lab File ID: P86892.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 18:19

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	52.5		2.0	0.30
100-41-4	Ethylbenzene	50.2		1.0	0.14
74-88-4	Iodomethane	40.6		5.0	2.6
78-83-1	Isobutyl alcohol	1120		110	37
75-09-2	Methylene Chloride	46.3		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.2		2.0	0.36
95-47-6	o-Xylene	50.7		1.0	0.11
100-42-5	Styrene	51.4		1.0	0.13
127-18-4	Tetrachloroethene	49.6		1.0	0.40
108-88-3	Toluene	46.4		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.9		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	46.8		1.0	0.14
79-01-6	Trichloroethene	47.4		1.0	0.30
75-69-4	Trichlorofluoromethane	49.6		2.0	0.20
108-05-4	Vinyl acetate	95.4		3.0	0.36
75-01-4	Vinyl chloride	53.7		1.0	0.23
1330-20-7	Xylenes, Total	99.9		1.0	0.11
78-93-3	2-Butanone (MEK)	153		10	4.6
107-02-8	Acrolein	430		20	4.9
107-13-1	Acrylonitrile	449		20	1.7
106-93-4	1,2-Dibromoethane	48.3		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	45.3		1.0	0.58
107-05-1	Allyl chloride	41.5		2.0	0.46
97-63-2	Ethyl methacrylate	50.3		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	38.2		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	97		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86892.D
Lims ID: 280-193176-C-2 MS
Client ID: RW-2213F-20240618
Sample Type: MS
Inject. Date: 01-Jul-2024 18:19:30 ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-c-2 ms
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:47:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	99	1331647	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.442	7.442	0.000	85	320928	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	94	551460	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	91	344135	50.0	48.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	329558	50.0	49.9	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1301655	50.0	50.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	93	414666	50.0	49.0	
$ 8 BFB	95	8.539	8.539	0.000	92	414666		NR	
9 Dichlorodifluoromethane	85	1.631	1.626	0.005	88	323996	50.0	52.5	
10 Chloromethane	50	1.801	1.806	-0.006	99	708676	50.0	52.4	
11 Vinyl chloride	62	1.882	1.882	0.000	98	907521	50.0	53.7	
12 Bromomethane	94	2.144	2.150	-0.006	91	1026189	50.0	67.7	
13 Chloroethane	64	2.226	2.232	-0.006	99	422999	50.0	62.9	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	722229	50.0	49.7	
15 Trichlorofluoromethane	101	2.433	2.434	-0.001	98	524578	50.0	49.6	
16 Ethanol	45		2.592					ND	
17 Ethyl ether	59	2.657	2.657	0.000	86	241378	50.0	44.9	
18 Acrolein	56	2.750	2.750	0.000	99	358406	493.8	430.2	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	97	320567	50.0	48.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.826	2.821	0.005	90	248035	50.0	49.0	
21 Acetone	43	2.865	2.865	-0.001	99	292036	200.0	158.8	
23 Iodomethane	142	2.935	2.936	-0.001	100	315526	50.0	40.6	
22 Isopropyl alcohol	45	2.990	2.974	0.016	24	6265		16.7	
24 Carbon disulfide	76	2.995	2.996	-0.001	100	1056283	50.0	49.5	
27 Acetonitrile	41		3.050					ND	
26 3-Chloro-1-propene	41	3.077	3.077	0.000	75	307336	50.0	41.5	
25 Methyl acetate	43	3.083	3.083	0.000	95	346243	100.0	77.0	
28 Methylene Chloride	84	3.170	3.170	0.000	85	380730	50.0	46.3	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	276634	500.0	408.2	
30 Acrylonitrile	53	3.328	3.328	0.000	98	1212252	500.0	449.2	
32 trans-1,2-Dichloroethene	96	3.366	3.367	-0.001	95	368550	50.0	49.9	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	934944	50.0	45.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.552	3.552	0.000	88	377148	50.0	44.0	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1072048	100.0	95.4	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	621434	50.0	48.3	
35 Isopropyl ether	87		3.699					ND	U
37 2-Chloro-1,3-butadiene	53		3.727					ND	
38 Tert-butyl ethyl ether	59		3.956					ND	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	91	494562	200.0	153.4	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	80	422559	50.0	50.6	
42 2,2-Dichloropropane	77	4.081	4.081	0.000	86	460648	50.0	41.9	
40 Ethyl acetate	43		4.098					ND	
43 Propionitrile	54		4.103					ND	U
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	97	469032	1200.0	879.4	
45 Methacrylonitrile	41		4.212					ND	
46 Chlorobromomethane	128	4.250	4.245	0.005	88	180017	50.0	49.1	
48 Chloroform	83	4.305	4.305	0.000	94	638594	50.0	48.9	
47 Tetrahydrofuran	42	4.310	4.311	-0.001	77	139847	100.0	74.9	
49 1,1,1-Trichloroethane	97	4.452	4.452	0.000	98	523114	50.0	49.8	
50 Cyclohexane	56	4.512	4.512	0.000	85	481269	50.0	45.3	
51 1,1-Dichloropropene	75	4.561	4.562	-0.001	97	475122	50.0	48.5	
52 Carbon tetrachloride	117	4.572	4.572	0.000	95	455099	50.0	53.2	
55 Isobutyl alcohol	41	4.616	4.616	0.000	90	205886	1250.0	1122.9	
53 Benzene	78	4.714	4.714	0.000	95	1454820	50.0	49.7	
54 1,2-Dichloroethane	62	4.736	4.731	0.005	97	455620	50.0	47.0	
56 Tert-amyl methyl ether	73		4.812					ND	
57 n-Heptane	43	4.900	4.900	0.000	81	255232	50.0	37.2	
58 n-Butanol	56		5.113					ND	
59 Trichloroethene	95	5.200	5.200	0.000	97	352926	50.0	47.4	
60 2-Pentanone	43	5.320	5.320	0.000	97	582813	160.0	126.6	
61 Methylcyclohexane	55	5.391	5.391	0.000	85	355464	50.0	43.2	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	80	359007	50.0	47.1	
63 Methyl methacrylate	100		5.429					ND	
65 Dibromomethane	93	5.467	5.467	0.000	94	250284	50.0	48.3	
64 1,4-Dioxane	88	5.489	5.489	0.000	88	88258	1000.0	865.6	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	478237	50.0	50.6	
67 2-Nitropropane	41		5.751					ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	ND	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	97	510794	50.0	45.8	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	94	1031669	200.0	164.3	
71 Toluene	91	6.231	6.231	0.000	98	1560996	50.0	46.4	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	91	520366	50.0	46.8	
73 Ethyl methacrylate	69	6.449	6.449	0.000	84	416164	50.0	50.3	
74 1,1,2-Trichloroethane	97	6.569	6.569	0.000	90	329157	50.0	49.5	
75 Tetrachloroethene	164	6.679	6.679	-0.001	95	283086	50.0	49.6	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	86	556490	50.0	50.0	
77 2-Hexanone	43	6.766	6.766	0.000	93	722860	200.0	166.9	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	372737	50.0	53.9	
79 Ethylene Dibromide	107	7.028	7.028	0.000	98	337752	50.0	48.3	
80 1-Chlorohexane	91	7.426	7.426	0.000	89	395081	40.0	36.8	
81 Chlorobenzene	112	7.470	7.470	0.000	96	1018727	50.0	49.2	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	96	366369	50.0	53.5	
83 Ethylbenzene	106	7.546	7.552	-0.006	98	552121	50.0	50.2	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	655817	50.0	49.2	

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	8.026	8.026	0.000	96	679417	50.0	50.7	
86 Styrene	104	8.043	8.043	0.000	96	1189617	50.0	51.4	
87 Bromoform	173	8.217	8.217	0.000	94	257647	50.0	57.0	
88 Isopropylbenzene	105	8.370	8.370	0.000	95	1721826	50.0	48.9	
89 cis-1,4-Dichloro-2-butene	53		8.408					ND	U
90 Cyclohexanone	55	8.485	8.485	0.000	89	341510	1500.0	806.9	
92 1,1,2,2-Tetrachloroethane	83	8.643	8.648	-0.005	94	484994	50.0	50.6	
93 trans-1,4-Dichloro-2-butene	53	8.686	8.687	-0.001	62	99857	50.0	38.2	
94 Bromobenzene	156	8.686	8.687	-0.001	92	451935	50.0	48.5	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	137536	50.0	49.3	
96 N-Propylbenzene	120	8.768	8.768	0.000	99	482412	50.0	49.5	
97 2-Chlorotoluene	126	8.867	8.867	-0.001	96	418898	50.0	49.0	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1448514	50.0	49.6	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	455643	50.0	50.8	
100 tert-Butylbenzene	119	9.248	9.254	-0.006	92	1220780	50.0	49.4	
91 Pentachloroethane	167		9.298					ND	
101 1,2,4-Trimethylbenzene	105	9.308	9.309	-0.001	98	1494210	50.0	49.8	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	371416	50.0	50.4	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	99	851387	50.0	48.8	
104 4-Isopropyltoluene	119	9.619	9.620	-0.001	97	1553062	50.0	49.7	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	876939	50.0	48.2	
106 1,2,3-Trimethylbenzene	105		9.718					ND	7
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1458036	50.0	48.7	
108 1,2-Dichlorobenzene	146	10.051	10.056	-0.005	98	817384	50.0	49.4	
109 1,2-Dibromo-3-Chloropropane	157	10.820	10.825	-0.005	88	75248	50.0	51.8	
110 1,3,5-Trichlorobenzene	180		11.022					ND	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	94	410031	50.0	45.3	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	165775	50.0	45.4	
113 Naphthalene	128	11.928	11.928	0.000	97	902707	50.0	44.8	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	268421	50.0	46.0	
115 Ethylene oxide TIC	1		0.000					ND	
116 Tetrahydrothiophene TIC	1		0.000					ND	
117 Propene oxide TIC	58	3.383	3.357	0.026	25	12944		NR	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	100.5	
S 119 Xylenes, Total (URS)	1				0		100.0	99.9	
S 120 Trihalomethanes, Total	1				0		200.0	210.3	
S 121 TAH	1				0			0	7
S 122 Xylenes, Total	106				0		100.0	99.9	
S 123 1,2-Dichloroethene, Total	1				0		100.0	100.5	
S 124 1,3-Dichloropropene, Total	1				0		100.0	92.6	
S 125 Total BTEX	1				0			246.2	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MV-MegaMain B_00105	Amount Added: 25.00	Units: uL	
MV-Gas B_00165	Amount Added: 10.00	Units: uL	
mv-IS_SS_00077	Amount Added: 5.00	Units: uL	Run Reagent

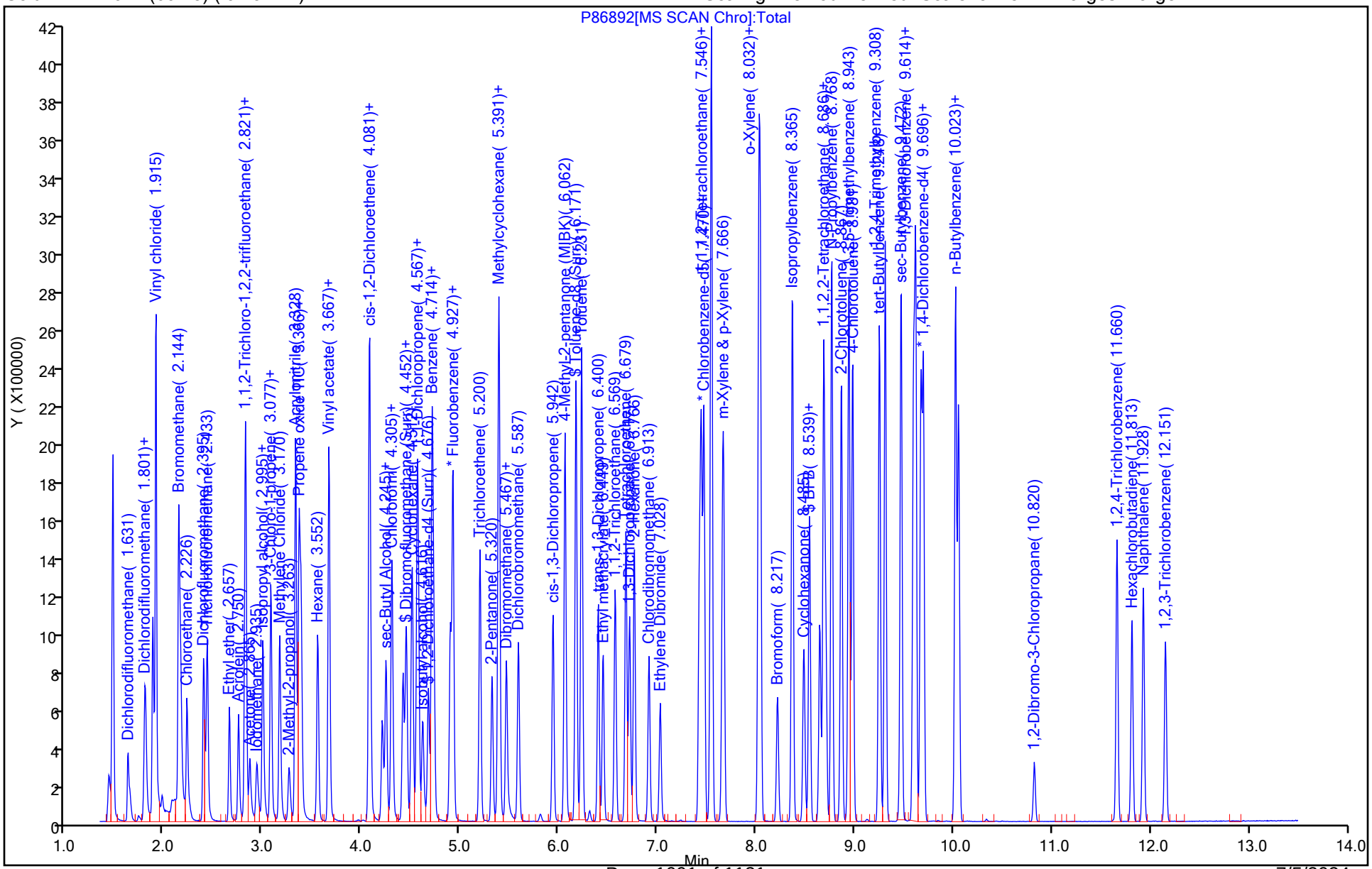
Report Date: 01-Jul-2024 21:50:46 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86892.D

Injection Date:	01-Jul-2024 18:19:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-C-2 MS			Worklist Smp#:	30
Client ID:	RW-2213F-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86892.D				
Lims ID:	280-193176-C-2 MS				
Client ID:	RW-2213F-20240618				
Sample Type:	MS				
Inject. Date:	01-Jul-2024 18:19:30	ALS Bottle#:	24	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-c-2 ms				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

First Level Reviewer: V8PV Date: 01-Jul-2024 21:47:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.7	97.37
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.9	99.76
$ 6 Toluene-d8 (Surr)	50.0	50.0	99.99
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.0	97.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 MSD | Lab Sample ID: 280-193176-2 MSD

Matrix: Water | Lab File ID: P86893.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 18:39

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	53.6		1.0	0.16
71-55-6	1,1,1-Trichloroethane	49.2		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	47.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.0		1.0	0.27
75-34-3	1,1-Dichloroethane	47.3		1.0	0.22
75-35-4	1,1-Dichloroethene	47.9		1.0	0.23
563-58-6	1,1-Dichloropropene	48.9		1.0	0.19
96-18-4	1,2,3-Trichloropropane	48.1		2.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	51.1		5.0	0.42
95-50-1	1,2-Dichlorobenzene	49.4		1.0	0.14
107-06-2	1,2-Dichloroethane	45.9		1.0	0.28
78-87-5	1,2-Dichloropropane	46.9		1.0	0.24
541-73-1	1,3-Dichlorobenzene	49.1		1.0	0.33
142-28-9	1,3-Dichloropropane	48.8		1.0	0.17
106-46-7	1,4-Dichlorobenzene	47.7		1.0	0.39
594-20-7	2,2-Dichloropropane	40.8		1.0	0.17
591-78-6	2-Hexanone	158		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	155		5.0	0.98
67-64-1	Acetone	156		15	6.6
71-43-2	Benzene	49.2		1.0	0.14
75-25-2	Bromoform	54.7		2.0	0.25
74-83-9	Bromomethane	71.5		5.0	2.4
75-15-0	Carbon disulfide	48.7		2.0	0.26
56-23-5	Carbon tetrachloride	52.8		1.0	0.23
108-90-7	Chlorobenzene	48.8		1.0	0.092
74-97-5	Chlorobromomethane	48.6		1.0	0.40
124-48-1	Chlorodibromomethane	53.3		1.0	0.28
75-00-3	Chloroethane	69.0		2.0	0.64
67-66-3	Chloroform	47.8		1.0	0.36
74-87-3	Chloromethane	60.8		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	49.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	45.6		1.0	0.16
74-95-3	Dibromomethane	46.9		1.0	0.34
75-27-4	Dichlorobromomethane	50.0		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-193176-1

SDG No.:

Client Sample ID: RW-2213F-20240618 MSD | Lab Sample ID: 280-193176-2 MSD

Matrix: Water | Lab File ID: P86893.D

Analysis Method: 8260D | Date Collected: 06/18/2024 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2024 18:39

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.: 658893 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	55.1		2.0	0.30
100-41-4	Ethylbenzene	50.4		1.0	0.14
74-88-4	Iodomethane	49.2		5.0	2.6
78-83-1	Isobutyl alcohol	1050		110	37
75-09-2	Methylene Chloride	46.1		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.1		2.0	0.36
95-47-6	o-Xylene	50.1		1.0	0.11
100-42-5	Styrene	50.8		1.0	0.13
127-18-4	Tetrachloroethene	49.1		1.0	0.40
108-88-3	Toluene	45.6		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	46.0		1.0	0.14
79-01-6	Trichloroethene	46.9		1.0	0.30
75-69-4	Trichlorofluoromethane	47.5		2.0	0.20
108-05-4	Vinyl acetate	92.9		3.0	0.36
75-01-4	Vinyl chloride	59.1		1.0	0.23
1330-20-7	Xylenes, Total	99.2		1.0	0.11
78-93-3	2-Butanone (MEK)	145		10	4.6
107-02-8	Acrolein	401		20	4.9
107-13-1	Acrylonitrile	423		20	1.7
106-93-4	1,2-Dibromoethane	47.7		1.0	0.18
120-82-1	1,2,4-Trichlorobenzene	46.1		1.0	0.58
107-05-1	Allyl chloride	42.4		2.0	0.46
97-63-2	Ethyl methacrylate	48.6		3.0	0.19
110-57-6	trans-1,4-Dichloro-2-butene	36.7		3.0	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	96		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86893.D
Lims ID: 280-193176-A-2 MSD
Client ID: RW-2213F-20240618
Sample Type: MSD
Inject. Date: 01-Jul-2024 18:39:30 ALS Bottle#: 25 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-193176-a-2 msd
Operator ID: COULTER Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jul-2024 21:49:50 Calib Date: 26-Jun-2024 19:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1617

First Level Reviewer: V8PV Date: 01-Jul-2024 21:47:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.927	4.927	0.000	100	1344902	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.443	7.442	0.001	85	324402	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.674	9.669	0.005	94	555802	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.420	4.420	0.000	92	342415	50.0	48.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.676	4.676	0.000	0	334360	50.0	50.1	
$ 6 Toluene-d8 (Surr)	98	6.171	6.171	0.000	93	1336013	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.539	8.539	0.000	92	432479	50.0	50.7	
$ 8 BFB	95	8.539	8.539	0.000	90	432479		NR	
9 Dichlorodifluoromethane	85	1.632	1.626	0.006	89	343009	50.0	55.1	
10 Chloromethane	50	1.801	1.806	-0.005	99	829270	50.0	60.8	
11 Vinyl chloride	62	1.883	1.882	0.001	98	1008649	50.0	59.1	
12 Bromomethane	94	2.150	2.150	0.000	92	1095771	50.0	71.5	
13 Chloroethane	64	2.232	2.232	0.000	100	468834	50.0	69.0	
14 Dichlorofluoromethane	67	2.395	2.395	0.000	97	774562	50.0	52.8	
15 Trichlorofluoromethane	101	2.434	2.434	0.000	98	507326	50.0	47.5	
16 Ethanol	45		2.592					ND	U
17 Ethyl ether	59	2.657	2.657	0.000	85	239178	50.0	44.0	
18 Acrolein	56	2.750	2.750	0.000	99	337260	493.8	400.8	
19 1,1-Dichloroethene	96	2.821	2.821	0.000	98	318399	50.0	47.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.821	2.821	0.000	91	231373	50.0	45.2	
21 Acetone	43	2.865	2.865	0.000	98	289747	200.0	155.9	
23 Iodomethane	142	2.936	2.936	0.000	99	394381	50.0	49.2	
22 Isopropyl alcohol	45		2.974					ND	U
24 Carbon disulfide	76	2.996	2.996	0.000	100	1050305	50.0	48.7	
27 Acetonitrile	41		3.050					ND	
26 3-Chloro-1-propene	41	3.078	3.077	0.001	79	317731	50.0	42.4	
25 Methyl acetate	43	3.083	3.083	0.000	95	329969	100.0	72.7	
28 Methylene Chloride	84	3.170	3.170	0.000	86	382766	50.0	46.1	
29 2-Methyl-2-propanol	59	3.263	3.263	0.000	99	271589	500.0	396.8	
30 Acrylonitrile	53	3.329	3.328	0.000	99	1154009	500.0	423.4	
32 trans-1,2-Dichloroethene	96	3.367	3.367	0.000	94	366652	50.0	49.2	
31 Methyl tert-butyl ether	73	3.383	3.383	0.000	93	925367	50.0	44.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.552	3.552	0.000	86	365293	50.0	42.1	
34 Vinyl acetate	43	3.667	3.667	0.000	98	1055084	100.0	92.9	
36 1,1-Dichloroethane	63	3.672	3.672	0.000	96	615434	50.0	47.3	
35 Isopropyl ether	87		3.699					ND	U
37 2-Chloro-1,3-butadiene	53		3.727					ND	
38 Tert-butyl ethyl ether	59		3.956					ND	
39 2-Butanone (MEK)	43	4.076	4.076	0.000	89	470665	200.0	144.6	
41 cis-1,2-Dichloroethene	96	4.076	4.076	0.000	80	415358	50.0	49.2	
42 2,2-Dichloropropane	77	4.081	4.081	0.000	87	452559	50.0	40.8	
40 Ethyl acetate	43		4.098					ND	
43 Propionitrile	54	4.076	4.103	-0.027	33	1522		1.57	
44 sec-Butyl Alcohol	45	4.207	4.207	0.000	97	457559	1200.0	850.4	
45 Methacrylonitrile	41		4.212					ND	
46 Chlorobromomethane	128	4.245	4.245	0.000	89	179928	50.0	48.6	
48 Chloroform	83	4.305	4.305	0.000	94	630518	50.0	47.8	
47 Tetrahydrofuran	42	4.311	4.311	0.000	78	132221	100.0	70.1	
49 1,1,1-Trichloroethane	97	4.453	4.452	0.001	98	521455	50.0	49.2	
50 Cyclohexane	56	4.513	4.512	0.001	85	466723	50.0	43.5	
51 1,1-Dichloropropene	75	4.562	4.562	0.000	98	484013	50.0	48.9	
52 Carbon tetrachloride	117	4.573	4.572	0.001	95	456628	50.0	52.8	
55 Isobutyl alcohol	41	4.616	4.616	0.000	91	193631	1250.0	1045.6	
53 Benzene	78	4.714	4.714	0.000	94	1457202	50.0	49.2	
54 1,2-Dichloroethane	62	4.731	4.731	0.000	97	449922	50.0	45.9	
56 Tert-amyl methyl ether	73		4.812					ND	
57 n-Heptane	43	4.900	4.900	0.000	81	241040	50.0	34.8	
58 n-Butanol	56		5.113					ND	
59 Trichloroethene	95	5.200	5.200	0.000	97	353179	50.0	46.9	
60 2-Pentanone	43	5.320	5.320	0.000	96	555085	160.0	119.4	
61 Methylcyclohexane	55	5.391	5.391	0.000	87	341374	50.0	41.1	
62 1,2-Dichloropropane	63	5.391	5.391	0.000	92	361410	50.0	46.9	
63 Methyl methacrylate	100		5.429					ND	
65 Dibromomethane	93	5.467	5.467	0.000	94	245391	50.0	46.9	
64 1,4-Dioxane	88	5.495	5.489	0.006	88	89508	1000.0	869.3	
66 Dichlorobromomethane	83	5.587	5.587	0.000	99	477817	50.0	50.0	
67 2-Nitropropane	41		5.751					ND	
68 2-Chloroethyl vinyl ether	63		5.795				ND	ND	
69 cis-1,3-Dichloropropene	75	5.942	5.942	0.000	97	513797	50.0	45.6	
70 4-Methyl-2-pentanone (MIBK)	43	6.062	6.062	0.000	94	982957	200.0	155.0	
71 Toluene	91	6.231	6.231	0.000	98	1547162	50.0	45.6	
72 trans-1,3-Dichloropropene	75	6.400	6.400	0.000	92	516710	50.0	46.0	
73 Ethyl methacrylate	69	6.450	6.449	0.001	83	406518	50.0	48.6	
74 1,1,2-Trichloroethane	97	6.570	6.569	0.001	91	322015	50.0	48.0	
75 Tetrachloroethene	164	6.679	6.679	0.000	95	283417	50.0	49.1	
76 1,3-Dichloropropane	76	6.717	6.717	0.000	85	549104	50.0	48.8	
77 2-Hexanone	43	6.761	6.766	-0.005	93	690039	200.0	157.7	
78 Chlorodibromomethane	129	6.913	6.913	0.000	89	372553	50.0	53.3	
79 Ethylene Dibromide	107	7.028	7.028	0.000	97	337433	50.0	47.7	
80 1-Chlorohexane	91	7.421	7.426	-0.005	89	387518	40.0	35.7	
81 Chlorobenzene	112	7.470	7.470	0.000	96	1019805	50.0	48.8	
82 1,1,1,2-Tetrachloroethane	131	7.541	7.541	0.000	95	370802	50.0	53.6	
83 Ethylbenzene	106	7.546	7.552	-0.006	98	559760	50.0	50.4	
84 m-Xylene & p-Xylene	106	7.666	7.666	0.000	0	661849	50.0	49.1	

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	8.026	8.026	0.000	97	678904	50.0	50.1	
86 Styrene	104	8.043	8.043	0.000	96	1188288	50.0	50.8	
87 Bromoform	173	8.217	8.217	0.000	94	249924	50.0	54.7	
88 Isopropylbenzene	105	8.365	8.370	-0.005	96	1719744	50.0	48.4	
89 cis-1,4-Dichloro-2-butene	53	8.370	8.408	-0.038	39	18058		7.35	
90 Cyclohexanone	55	8.485	8.485	0.000	89	354248	1500.0	828.1	
92 1,1,2,2-Tetrachloroethane	83	8.648	8.648	0.000	94	462922	50.0	47.9	
93 trans-1,4-Dichloro-2-butene	53	8.687	8.687	0.000	62	96668	50.0	36.7	
94 Bromobenzene	156	8.687	8.687	0.000	92	448681	50.0	47.7	
95 1,2,3-Trichloropropane	110	8.708	8.708	0.000	85	135237	50.0	48.1	
96 N-Propylbenzene	120	8.769	8.768	0.001	99	489769	50.0	49.9	
97 2-Chlorotoluene	126	8.861	8.867	-0.006	96	418593	50.0	48.6	
98 1,3,5-Trimethylbenzene	105	8.943	8.943	0.000	94	1460306	50.0	49.6	
99 4-Chlorotoluene	126	8.981	8.981	0.000	97	449744	50.0	49.7	
100 tert-Butylbenzene	119	9.249	9.254	-0.005	92	1227600	50.0	49.3	
91 Pentachloroethane	167		9.298					ND	
101 1,2,4-Trimethylbenzene	105	9.309	9.309	0.000	98	1503762	50.0	49.7	
102 sec-Butylbenzene	134	9.472	9.472	0.000	94	370706	50.0	49.9	
103 1,3-Dichlorobenzene	146	9.598	9.598	0.000	98	864197	50.0	49.1	
104 4-Isopropyltoluene	119	9.620	9.620	0.000	97	1575199	50.0	50.0	
105 1,4-Dichlorobenzene	146	9.696	9.696	0.000	95	875293	50.0	47.7	
106 1,2,3-Trimethylbenzene	105		9.718					ND	7
107 n-Butylbenzene	91	10.023	10.023	0.000	97	1476736	50.0	48.9	
108 1,2-Dichlorobenzene	146	10.051	10.056	-0.005	98	822484	50.0	49.4	
109 1,2-Dibromo-3-Chloropropane	157	10.820	10.825	-0.005	88	74811	50.0	51.1	
110 1,3,5-Trichlorobenzene	180		11.022					ND	
111 1,2,4-Trichlorobenzene	180	11.660	11.660	0.000	93	420672	50.0	46.1	
112 Hexachlorobutadiene	225	11.813	11.813	0.000	97	173132	50.0	47.0	
113 Naphthalene	128	11.928	11.928	0.000	97	909955	50.0	44.8	
114 1,2,3-Trichlorobenzene	180	12.151	12.151	0.000	95	278662	50.0	47.4	
115 Ethylene oxide TIC	1		0.000					ND	
116 Tetrahydrothiophene TIC	1		0.000					ND	
117 Propene oxide TIC	58	3.383	3.357	0.026	26	13059		NR	
S 118 1,2-Dichloroethene, Total (URS)	96				0		100.0	98.4	
S 119 Xylenes, Total (URS)	1				0		100.0	99.2	
S 120 Trihalomethanes, Total	1				0		200.0	205.8	
S 121 TAH	1				0			0	7
S 122 Xylenes, Total	106				0		100.0	99.2	
S 123 1,2-Dichloroethene, Total	1				0		100.0	98.4	
S 124 1,3-Dichloropropene, Total	1				0		100.0	91.6	
S 125 Total BTEX	1				0			244.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MV-MegaMain B_00105	Amount Added:	25.00	Units: uL	
MV-Gas B_00165	Amount Added:	10.00	Units: uL	
mv-IS_SS_00077	Amount Added:	5.00	Units: uL	Run Reagent

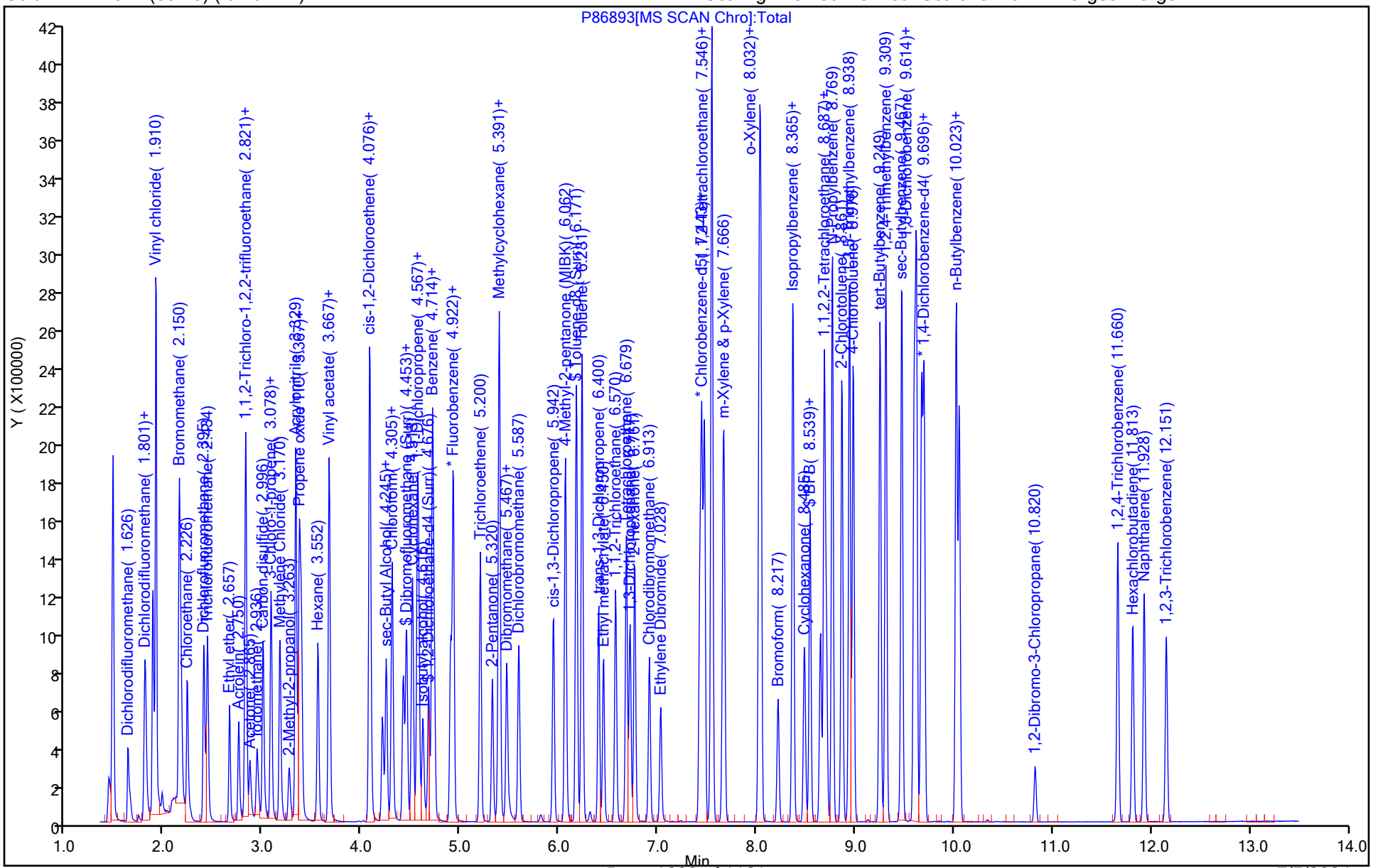
Report Date: 01-Jul-2024 21:50:48 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86893.D

Injection Date:	01-Jul-2024 18:39:30	Instrument ID:	VMS_P	Operator ID:	COULTER
Lims ID:	280-193176-A-2 MSD			Worklist Smp#:	31
Client ID:	RW-2213F-20240618				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	AQ_VMSP_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



7/5/2024
11:14:22 AM

Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\P86893.D				
Lims ID:	280-193176-A-2 MSD				
Client ID:	RW-2213F-20240618				
Sample Type:	MSD				
Inject. Date:	01-Jul-2024 18:39:30	ALS Bottle#:	25	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-193176-a-2 msd				
Operator ID:	COULTER	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20240701-135055.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Jul-2024 21:49:50	Calib Date:	26-Jun-2024 19:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20240626-134914.b\P86691.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1617				

First Level Reviewer: V8PV Date: 01-Jul-2024 21:47:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.0	95.93
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.1	100.21
$ 6 Toluene-d8 (Surr)	50.0	50.8	101.53
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.7	101.33

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 04/05/2024 08:35

Analysis Batch Number: 648392 End Date: 04/05/2024 14:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-648392/1		04/05/2024 08:35	1	MS1_2271.D	DB-624 (60.25) 0.25(mm)
IC 280-648392/13		04/05/2024 11:39	1	MS1_2279.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 11:39	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/14		04/05/2024 12:01	1	MS1_2280.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 12:01	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/15		04/05/2024 12:22	1	MS1_2281.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 12:22	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/16		04/05/2024 12:43	1	MS1_2282.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 12:43	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/17		04/05/2024 13:04	1	MS1_2283.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 13:04	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/18		04/05/2024 13:26	1	MS1_2284.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 13:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 13:26	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/19		04/05/2024 13:47	1	MS1_2285.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 13:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 13:47	1		DB-624 (60.25) 0.25(mm)
IC 280-648392/20		04/05/2024 14:08	1	MS1_2286.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 14:08	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		04/05/2024 14:08	1		DB-624 (60.25) 0.25(mm)
ICV 280-648392/21		04/05/2024 14:30	1	MS1_2287.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 06/19/2024 20:16

Analysis Batch Number: 657652 End Date: 06/20/2024 03:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-657652/1		06/19/2024 20:16	1	MS1_5583.D	DB-624 (60.25) 0.25(mm)
IC 280-657652/13		06/19/2024 20:59	1	MS1_5585.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/19/2024 20:59	1		DB-624 (60.25) 0.25(mm)
IC 280-657652/14		06/19/2024 21:20	1	MS1_5586.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/19/2024 21:20	1		DB-624 (60.25) 0.25(mm)
IC 280-657652/15		06/19/2024 21:41	1	MS1_5587.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/19/2024 21:41	1		DB-624 (60.25) 0.25(mm)
IC 280-657652/16		06/19/2024 22:02	1	MS1_5564.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/19/2024 22:02	1		DB-624 (60.25) 0.25(mm)
IC 280-657652/17		06/19/2024 22:24	1	MS1_5565.D	DB-624 (60.25) 0.25(mm)
ICIS 280-657652/18		06/19/2024 22:45	1	MS1_5566.D	DB-624 (60.25) 0.25(mm)
IC 280-657652/19		06/19/2024 23:06	1	MS1_5567.D	DB-624 (60.25) 0.25(mm)
IC 280-657652/20		06/19/2024 23:28	1	MS1_5568.D	DB-624 (60.25) 0.25(mm)
IC 280-657652/21		06/19/2024 23:49	1	MS1_5569.D	DB-624 (60.25) 0.25(mm)
ICV 280-657652/22		06/20/2024 00:31	1	MS1_5571.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 01:13	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 01:34	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 01:56	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 02:17	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 02:38	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 03:00	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/20/2024 03:21	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Start Date: 06/24/2024 14:05

Analysis Batch Number: 657950 End Date: 06/24/2024 18:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-657950/1		06/24/2024 14:05	1	P86599.D	DB-624 (60.25) 0.25(mm)
STD1 280-657950/14 IC		06/24/2024 14:25	1	P86600.D	DB-624 (60.25) 0.25(mm)
STD05 280-657950/13 IC		06/24/2024 14:46	1	P86601.D	DB-624 (60.25) 0.25(mm)
STD2 280-657950/15 IC		06/24/2024 15:06	1	P86602.D	DB-624 (60.25) 0.25(mm)
STD5 280-657950/16 IC		06/24/2024 15:27	1	P86603.D	DB-624 (60.25) 0.25(mm)
STD10 280-657950/17 IC		06/24/2024 15:47	1	P86604.D	DB-624 (60.25) 0.25(mm)
ICIS 280-657950/18		06/24/2024 16:08	1	P86605.D	DB-624 (60.25) 0.25(mm)
STD75 280-657950/19 IC		06/24/2024 16:28	1	P86606.D	DB-624 (60.25) 0.25(mm)
STD100 280-657950/20 IC		06/24/2024 16:49	1	P86607.D	DB-624 (60.25) 0.25(mm)
STD200 280-657950/21 IC		06/24/2024 17:10	1	P86608.D	DB-624 (60.25) 0.25(mm)
ICV 280-657950/23		06/24/2024 17:50	1	P86610.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2024 18:31	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2024 18:31	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Start Date: 06/25/2024 17:25

Analysis Batch Number: 658360 End Date: 06/26/2024 11:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658360/1		06/25/2024 17:25	1	P86659.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/13		06/25/2024 18:27	1	P86662.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/14		06/25/2024 18:47	1	P86663.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/15		06/25/2024 19:07	1	P86664.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/16		06/25/2024 19:28	1	P86665.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/17		06/25/2024 19:49	1	P86666.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/18		06/25/2024 20:09	1	P86667.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/19		06/25/2024 20:30	1	P86668.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/20		06/25/2024 20:50	1	P86669.D	DB-624 (60.25) 0.25(mm)
IC 280-658360/21		06/25/2024 21:11	1	P86670.D	DB-624 (60.25) 0.25(mm)
BFB 280-658360/23		06/26/2024 10:36	1		DB-624 (60.25) 0.25(mm)
ICV 280-658360/24		06/26/2024 11:02	1	P86675.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 06/26/2024 02:49

Analysis Batch Number: 658367 End Date: 06/26/2024 06:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658367/1		06/26/2024 02:49	1	MS1_5855.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/13		06/26/2024 03:10	1	MS1_5856.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/14		06/26/2024 03:32	1	MS1_5857.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/15		06/26/2024 03:53	1	MS1_5858.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/16		06/26/2024 04:14	1	MS1_5859.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/17		06/26/2024 04:36	1	MS1_5860.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/18		06/26/2024 04:57	1	MS1_5861.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/19		06/26/2024 05:18	1	MS1_5862.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/20		06/26/2024 05:40	1	MS1_5863.D	DB-624 (60.25) 0.25(mm)
IC 280-658367/21		06/26/2024 06:01	1	MS1_5864.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 06/26/2024 07:48

Analysis Batch Number: 658376 End Date: 06/26/2024 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658376/1		06/26/2024 07:48	1		DB-624 (60.25) 0.25(mm)
ICV 280-658376/13		06/26/2024 08:20	1	MS1_5869.D	DB-624 (60.25) 0.25(mm)
CCV 280-658376/3		06/26/2024 08:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 08:41	1		DB-624 (60.25) 0.25(mm)
CCV 280-658376/2		06/26/2024 09:02	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 09:02	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 09:23	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 09:45	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 10:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 11:10	1		DB-624 (60.25) 0.25(mm)
CCVC 280-658376/15		06/26/2024 11:32	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 12:36	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 12:58	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 13:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 13:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 14:03	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 14:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 14:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 15:09	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 15:30	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 15:52	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 16:14	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 16:36	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 16:57	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 17:19	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/26/2024 17:41	1		DB-624 (60.25) 0.25(mm)
CCVC 280-658376/31		06/26/2024 18:02	1		DB-624 (60.25) 0.25(mm)
CCVC 280-658376/32		06/26/2024 18:24	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Start Date: 06/26/2024 10:36

Analysis Batch Number: 658449 End Date: 06/26/2024 19:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658449/1		06/26/2024 10:36	1	P86674_BFB.D	DB-624 (60.25) 0.25(mm)
STD1 280-658449/13 IC		06/26/2024 13:21	1	P86680.D	DB-624 (60.25) 0.25(mm)
STD2 280-658449/14 IC		06/26/2024 13:41	1	P86681.D	DB-624 (60.25) 0.25(mm)
STD5 280-658449/15 IC		06/26/2024 14:02	1	P86682.D	DB-624 (60.25) 0.25(mm)
STD10 280-658449/16 IC		06/26/2024 14:22	1	P86683.D	DB-624 (60.25) 0.25(mm)
STD50 280-658449/17 IC		06/26/2024 14:43	1	P86684.D	DB-624 (60.25) 0.25(mm)
STD75 280-658449/18 IC		06/26/2024 15:03	1	P86685.D	DB-624 (60.25) 0.25(mm)
STD100 280-658449/19 IC		06/26/2024 15:24	1	P86686.D	DB-624 (60.25) 0.25(mm)
STD200 280-658449/20 IC		06/26/2024 19:03	1	P86691.D	DB-624 (60.25) 0.25(mm)
ICV 280-658449/21		06/26/2024 19:44	1	P86693.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_P Start Date: 07/01/2024 09:21

Analysis Batch Number: 658893 End Date: 07/01/2024 20:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658893/1		07/01/2024 09:21	1	P86867.D	DB-624 (60.25) 0.25(mm)
CCV 280-658893/2		07/01/2024 10:24	1	P86869.D	DB-624 (60.25) 0.25(mm)
LCS 280-658893/4		07/01/2024 10:24	1	P86869A.D	DB-624 (60.25) 0.25(mm)
CCV 280-658893/3		07/01/2024 10:44	1	P86870.D	DB-624 (60.25) 0.25(mm)
LCS 280-658893/6		07/01/2024 10:44	1	P86870B.D	DB-624 (60.25) 0.25(mm)
LCSD 280-658893/5		07/01/2024 11:05	1	P86871.D	DB-624 (60.25) 0.25(mm)
LCSD 280-658893/7		07/01/2024 11:25	1	P86872.D	DB-624 (60.25) 0.25(mm)
MB 280-658893/9		07/01/2024 12:06	1	P86874.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 12:26	1		DB-624 (60.25) 0.25(mm)
280-193176-1	RW-2237H-20240618	07/01/2024 12:47	1	P86876.D	DB-624 (60.25) 0.25(mm)
280-193176-2	RW-2213F-20240618	07/01/2024 13:08	1	P86877.D	DB-624 (60.25) 0.25(mm)
280-193176-3	RW-2172H-20240618	07/01/2024 13:28	1	P86878.D	DB-624 (60.25) 0.25(mm)
280-193176-4	RW-8284P-20240618	07/01/2024 13:49	1	P86879.D	DB-624 (60.25) 0.25(mm)
280-193176-5	RW-7677P-20240618	07/01/2024 14:09	1	P86880.D	DB-624 (60.25) 0.25(mm)
280-193176-9	RW-2151H-20240618	07/01/2024 14:29	1	P86881.D	DB-624 (60.25) 0.25(mm)
280-193176-10	RW-8048P-20240618	07/01/2024 14:50	1	P86882.D	DB-624 (60.25) 0.25(mm)
280-193176-11	RW-8030P-20240618	07/01/2024 15:10	1	P86883.D	DB-624 (60.25) 0.25(mm)
280-193176-12	RW-7505P-20240618	07/01/2024 15:31	1	P86884.D	DB-624 (60.25) 0.25(mm)
280-193176-13	RW-7505P-Q-20240618	07/01/2024 15:51	1	P86885.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 16:13	40		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 16:34	50		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 16:55	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 17:16	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 17:37	200		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 17:58	200		DB-624 (60.25) 0.25(mm)
280-193176-2 MS	RW-2213F-20240618 MS	07/01/2024 18:19	1	P86892.D	DB-624 (60.25) 0.25(mm)
280-193176-2 MSD	RW-2213F-20240618 MSD	07/01/2024 18:39	1	P86893.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 19:00	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/01/2024 19:20	100		DB-624 (60.25) 0.25(mm)
CCVC 280-658893/34		07/01/2024 19:41	1		DB-624 (60.25) 0.25(mm)
CCVC 280-658893/35		07/01/2024 20:01	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 07/01/2024 22:22

Analysis Batch Number: 658996 End Date: 07/02/2024 08:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-658996/1		07/01/2024 22:22	1	MS1_6079a.D	DB-624 (60.25) 0.25(mm)
CCV 280-658996/3		07/01/2024 22:22	1	MS1_6079b.D	DB-624 (60.25) 0.25(mm)
LCS 280-658996/4		07/01/2024 22:22	1	MS1_6079c.D	DB-624 (60.25) 0.25(mm)
CCV 280-658996/2		07/01/2024 22:43	1	MS1_6080b.D	DB-624 (60.25) 0.25(mm)
LCS 280-658996/5		07/01/2024 22:43	1	MS1_6080c.D	DB-624 (60.25) 0.25(mm)
LCSD 280-658996/6		07/01/2024 23:04	1	MS1_6081.D	DB-624 (60.25) 0.25(mm)
LCSD 280-658996/7		07/01/2024 23:26	1	MS1_6082.D	DB-624 (60.25) 0.25(mm)
MB 280-658996/9		07/02/2024 00:29	1	MS1_6085.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 00:58	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 01:19	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 01:40	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 02:02	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 02:23	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 02:44	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 03:05	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 03:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 03:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 04:08	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 04:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 04:50	1		DB-624 (60.25) 0.25(mm)
280-193176-6	Muni-Well-14-20240619	07/02/2024 05:11	1	MS1_6098.D	DB-624 (60.25) 0.25(mm)
280-193176-7	Muni-Well-33-20240619	07/02/2024 05:32	1	MS1_6099.D	DB-624 (60.25) 0.25(mm)
280-193176-14	RW-2203H-20240619	07/02/2024 05:53	1	MS1_6100.D	DB-624 (60.25) 0.25(mm)
280-193176-15	RW-2076F-20240619	07/02/2024 06:14	1	MS1_6101.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 06:36	2		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 06:57	10		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 07:19	20		DB-624 (60.25) 0.25(mm)
CCVC 280-658996/33		07/02/2024 08:01	1		DB-624 (60.25) 0.25(mm)
CCVC 280-658996/32		07/02/2024 08:56	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Instrument ID: VMS_MS1 Start Date: 07/02/2024 08:01

Analysis Batch Number: 659045 End Date: 07/02/2024 19:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-659045/1		07/02/2024 08:01	1	MS1_6106_bfb.D	DB-624 (60.25) 0.25(mm)
CCV 280-659045/2		07/02/2024 08:01	1	MS1_6106_CCV S.D	DB-624 (60.25) 0.25(mm)
CCV 280-659045/3		07/02/2024 09:17	1	MS1_6108.D	DB-624 (60.25) 0.25(mm)
LCS 280-659045/4		07/02/2024 09:17	1	MS1_6108_LCS.D	DB-624 (60.25) 0.25(mm)
LCS 280-659045/5		07/02/2024 09:39	1	MS1_6109.D	DB-624 (60.25) 0.25(mm)
LCSD 280-659045/6		07/02/2024 10:00	1	MS1_6110.D	DB-624 (60.25) 0.25(mm)
LCSD 280-659045/7		07/02/2024 10:21	1	MS1_6111.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 11:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 11:46	1		DB-624 (60.25) 0.25(mm)
280-193176-8	TB-01-20240620	07/02/2024 12:08	1	MS1_6116.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 12:29	1		DB-624 (60.25) 0.25(mm)
MB 280-659045/9		07/02/2024 12:50	1	MS1_6118.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 13:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 13:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 13:55	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 14:16	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 14:37	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 14:59	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 15:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 15:41	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 16:03	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 16:24	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 16:45	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 17:07	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 17:28	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 17:50	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 18:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 18:32	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 18:54	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		07/02/2024 19:15	100		DB-624 (60.25) 0.25(mm)
CCVC 280-659045/35		07/02/2024 19:36	1		DB-624 (60.25) 0.25(mm)
CCVC 280-659045/36		07/02/2024 19:58	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 648392 Batch Start Date: 04/05/24 08:35 Batch Analyst: Wickham, Tom A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00008	mv-IS_SS 00078	MV-Supp A 00090	
BFB 280-648392/1		8260D			2 uL	2 uL	5 uL			
IC 280-648392/13		8260D			5 mL	5 mL		5 uL	200 uL	
IC 280-648392/14		8260D			5 mL	5 mL		5 uL	100 uL	
IC 280-648392/15		8260D			5 mL	5 mL		5 uL	75 uL	
IC 280-648392/16		8260D			5 mL	5 mL		5 uL	50 uL	
IC 280-648392/17		8260D			5 mL	5 mL		5 uL	10 uL	
IC 280-648392/18		8260D			5 mL	5 mL		5 uL	5 uL	
IC 280-648392/19		8260D			5 mL	5 mL		5 uL	2 uL	
IC 280-648392/20		8260D			5 mL	5 mL		5 uL	1 uL	
ICV 280-648392/21		8260D			5 mL	5 mL		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 657652 Batch Start Date: 06/19/24 20:16 Batch Analyst: Jones, Branden M

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil Std 00374	mv-Cent BFB 00007	MV-Gas A 00190	MV-Gas B 00166
BFB 280-657652/1		8260D			2 uL	2 uL		5 uL		
IC 280-657652/13		8260D			5 mL	5 mL	5 uL			
IC 280-657652/14		8260D			5 mL	5 mL	10 uL			
IC 280-657652/15		8260D			5 mL	5 mL	20 uL			
IC 280-657652/16		8260D			5 mL	5 mL			1 uL	
IC 280-657652/17		8260D			5 mL	5 mL			2 uL	
ICIS 280-657652/18		8260D			5 mL	5 mL			10 uL	
IC 280-657652/19		8260D			5 mL	5 mL			15 uL	
IC 280-657652/20		8260D			5 mL	5 mL			20 uL	
IC 280-657652/21		8260D			5 mL	5 mL			40 uL	
ICV 280-657652/22		8260D			5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00080	MV-MegaMain B 00105	MV-MegaMainA 00110			
BFB 280-657652/1		8260D								
IC 280-657652/13		8260D			5 uL					
IC 280-657652/14		8260D			5 uL					
IC 280-657652/15		8260D			5 uL					
IC 280-657652/16		8260D			5 uL		2.5 uL			
IC 280-657652/17		8260D			5 uL		5 uL			
ICIS 280-657652/18		8260D			5 uL		25 uL			
IC 280-657652/19		8260D			5 uL		37.5 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 657652 Batch Start Date: 06/19/24 20:16 Batch Analyst: Jones, Branden M

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00080	MV-MegaMain B 00105	MV-MegaMainA 00110			
IC 280-657652/20		8260D			5 uL		50 uL			
IC 280-657652/21		8260D			5 uL		100 uL			
ICV 280-657652/22		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 657950 Batch Start Date: 06/24/24 14:05 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil StdB 00001	mv-Cent BFB 00008	MV-Gas A 00191	MV-Gas B 00165
BFB 280-657950/1		8260D			2 uL	2 uL		2 uL		
STD05 280-657950/13 IC		8260D			5 mL	5 mL	5 uL			
STD1 280-657950/14 IC		8260D			5 mL	5 mL	10 uL			
STD2 280-657950/15 IC		8260D			5 mL	5 mL	20 uL			
STD5 280-657950/16 IC		8260D			5 mL	5 mL				1 uL
STD10 280-657950/17 IC		8260D			5 mL	5 mL				2 uL
ICIS 280-657950/18		8260D			5 mL	5 mL				10 uL
STD75 280-657950/19 IC		8260D			5 mL	5 mL				15 uL
STD100 280-657950/20 IC		8260D			5 mL	5 mL				20 uL
STD200 280-657950/21 IC		8260D			5 mL	5 mL				40 uL
ICV 280-657950/23		8260D			5 mL	5 mL			10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077	MV-MegaMain B 00105	MV-MegaMainA 00110			
BFB 280-657950/1		8260D								
STD05 280-657950/13 IC		8260D			5 uL					
STD1 280-657950/14 IC		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 657950 Batch Start Date: 06/24/24 14:05 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077	MV-MegaMain B 00105	MV-MegaMainA 00110			
STD2 280-657950/15 IC		8260D			5 uL					
STD5 280-657950/16 IC		8260D			5 uL	2.5 uL				
STD10 280-657950/17 IC		8260D			5 uL	5 uL				
ICIS 280-657950/18		8260D			5 uL	25 uL				
STD75 280-657950/19 IC		8260D			5 uL	37.5 uL				
STD100 280-657950/20 IC		8260D			5 uL	50 uL				
STD200 280-657950/21 IC		8260D			5 uL	100 uL				
ICV 280-657950/23		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658360 Batch Start Date: 06/25/24 17:25 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil Std 00378	mv-Cent BFB 00008	MV-Gas A 00191	MV-Gas B 00165
BFB 280-658360/1		8260D			2 uL	2 uL		2 uL		
IC 280-658360/13		8260D			5 mL	5 mL	5 uL			
IC 280-658360/14		8260D			5 mL	5 mL	10 uL			
IC 280-658360/15		8260D			5 mL	5 mL	20 uL			
IC 280-658360/16		8260D			5 mL	5 mL				1 uL
IC 280-658360/17		8260D			5 mL	5 mL				2 uL
IC 280-658360/18		8260D			5 mL	5 mL				10 uL
IC 280-658360/19		8260D			5 mL	5 mL				15 uL
IC 280-658360/20		8260D			5 mL	5 mL				20 uL
IC 280-658360/21		8260D			5 mL	5 mL				40 uL
ICV 280-658360/24		8260D			5 mL	5 mL			10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077					
BFB 280-658360/1		8260D								
IC 280-658360/13		8260D			5 uL					
IC 280-658360/14		8260D			5 uL					
IC 280-658360/15		8260D			5 uL					
IC 280-658360/16		8260D			5 uL					
IC 280-658360/17		8260D			5 uL					
IC 280-658360/18		8260D			5 uL					
IC 280-658360/19		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658360 Batch Start Date: 06/25/24 17:25 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077					
IC 280-658360/20		8260D			5 uL					
IC 280-658360/21		8260D			5 uL					
ICV 280-658360/24		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658367 Batch Start Date: 06/26/24 02:49 Batch Analyst: Jones, Branden M

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil Std 00379	mv-Cent BFB 00007	MV-Gas A 00191	mv-IS_SS 00080
BFB 280-658367/1		8260D			2 uL	2 uL		5 uL		
IC 280-658367/13		8260D			5 mL	5 mL	5 uL			5 uL
IC 280-658367/14		8260D			5 mL	5 mL	10 uL			5 uL
IC 280-658367/15		8260D			5 mL	5 mL	20 uL			5 uL
IC 280-658367/16		8260D			5 mL	5 mL			1 uL	5 uL
IC 280-658367/17		8260D			5 mL	5 mL			2 uL	5 uL
IC 280-658367/18		8260D			5 mL	5 mL			10 uL	5 uL
IC 280-658367/19		8260D			5 mL	5 mL			15 uL	5 uL
IC 280-658367/20		8260D			5 mL	5 mL			20 uL	5 uL
IC 280-658367/21		8260D			5 mL	5 mL			40 uL	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658376 Batch Start Date: 06/26/24 07:48 Batch Analyst: Wickham, Tom A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MV-Gas B 00166	mv-IS_SS 00080		
ICV 280-658376/13		8260D			5 mL	5 mL	10 uL	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658449 Batch Start Date: 06/26/24 10:36 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00008	mv-Cent IS 00008	MV-Supp A 00091	MV-Supp B 00072
BFB 280-658449/1		8260D			2 uL	2 uL	2 uL			
STD1 280-658449/13 IC		8260D			5 mL	5 mL		5 uL		1 uL
STD2 280-658449/14 IC		8260D			5 mL	5 mL		5 uL		2 uL
STD5 280-658449/15 IC		8260D			5 mL	5 mL		5 uL		5 uL
STD10 280-658449/16 IC		8260D			5 mL	5 mL		5 uL		10 uL
STD50 280-658449/17 IC		8260D			5 mL	5 mL		5 uL		50 uL
STD75 280-658449/18 IC		8260D			5 mL	5 mL		5 uL		75 uL
STD100 280-658449/19 IC		8260D			5 mL	5 mL		5 uL		100 uL
STD200 280-658449/20 IC		8260D			5 mL	5 mL		5 uL		200 uL
ICV 280-658449/21		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658893 Batch Start Date: 07/01/24 09:21 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00008	MV-Gas B 00165
BFB 280-658893/1		8260D			2 uL	2 uL			2 uL	
CCV 280-658893/2		8260D			5 mL	5 mL				10 uL
CCV 280-658893/3		8260D			5 mL	5 mL				
LCS 280-658893/4		8260D			5 mL	5 mL				10 uL
LCSD 280-658893/5		8260D			5 mL	5 mL				10 uL
LCS 280-658893/6		8260D			5 mL	5 mL				
LCSD 280-658893/7		8260D			5 mL	5 mL				
MB 280-658893/9		8260D			5 mL	5 mL				
280-193176-B-1	RW-2237H-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-B-2	RW-2213F-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-A-3	RW-2172H-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-A-4	RW-8284P-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	yes		
280-193176-A-5	RW-7677P-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-A-9	RW-2151H-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-C-10	RW-8048P-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	yes		
280-193176-A-11	RW-8030P-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	yes		
280-193176-B-12	RW-7505P-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-A-13	RW-7505P-Q-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	no		
280-193176-C-2 MS	RW-2213F-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	yes		10 uL
280-193176-A-2 MSD	RW-2213F-20240618	8260D	Water	T	5 mL	5 mL	<2 SU	yes		10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077	MV-MegaMain B 00105	MV-Supp B 00072			

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.: 280-193176-1

SDG No.:

Batch Number: 658893 Batch Start Date: 07/01/24 09:21 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00077	MV-MegaMain B 00105	MV-Supp B 00072			
BFB 280-658893/1		8260D								
CCV 280-658893/2		8260D			5 uL	25 uL				
CCV 280-658893/3		8260D			5 uL		25 uL			
LCS 280-658893/4		8260D			5 uL	25 uL				
LCSD 280-658893/5		8260D			5 uL	25 uL				
LCS 280-658893/6		8260D			5 uL		25 uL			
LCSD 280-658893/7		8260D			5 uL		25 uL			
MB 280-658893/9		8260D			5 uL					
280-193176-B-1	RW-2237H-20240618	8260D	Water	T	5 uL					
280-193176-B-2	RW-2213F-20240618	8260D	Water	T	5 uL					
280-193176-A-3	RW-2172H-20240618	8260D	Water	T	5 uL					
280-193176-A-4	RW-8284P-20240618	8260D	Water	T	5 uL					
280-193176-A-5	RW-7677P-20240618	8260D	Water	T	5 uL					
280-193176-A-9	RW-2151H-20240618	8260D	Water	T	5 uL					
280-193176-C-10	RW-8048P-20240618	8260D	Water	T	5 uL					
280-193176-A-11	RW-8030P-20240618	8260D	Water	T	5 uL					
280-193176-B-12	RW-7505P-20240618	8260D	Water	T	5 uL					
280-193176-A-13	RW-7505P-Q-20240618	8260D	Water	T	5 uL					
280-193176-C-2 MS	RW-2213F-20240618	8260D	Water	T	5 uL	25 uL				
280-193176-A-2 MSD	RW-2213F-20240618	8260D	Water	T	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658893 Batch Start Date: 07/01/24 09:21 Batch Analyst: Coulter, Dawn (goes by Sh

Batch 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658996 Batch Start Date: 07/01/24 22:22 Batch Analyst: Jones, Branden M

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00007	MV-Gas A 00191
BFB 280-658996/1		8260D			2 uL	2 uL			5 uL	
CCV 280-658996/2		8260D			5 mL	5 mL				
CCV 280-658996/3		8260D			5 mL	5 mL				10 uL
LCS 280-658996/4		8260D			5 mL	5 mL				10 uL
LCS 280-658996/5		8260D			5 mL	5 mL				
LCSD 280-658996/6		8260D			5 mL	5 mL				10 uL
LCSD 280-658996/7		8260D			5 mL	5 mL				
MB 280-658996/9		8260D			5 mL	5 mL				
280-193176-B-6	Muni-Well-14-20240619	8260D	Water	T	5 mL	5 mL	<2 SU	n		
280-193176-A-7	Muni-Well-33-20240619	8260D	Water	T	5 mL	5 mL	<2 SU	n		
280-193176-B-14	RW-2203H-20240619	8260D	Water	T	5 mL	5 mL	<2 SU	n		
280-193176-A-15	RW-2076F-20240619	8260D	Water	T	5 mL	5 mL	<2 SU	y		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00080	MV-MegaMainA 00110	MV-Supp A 00091			
BFB 280-658996/1		8260D								
CCV 280-658996/2		8260D			5 uL		25 uL			
CCV 280-658996/3		8260D			5 uL	25 uL				
LCS 280-658996/4		8260D			5 uL	25 uL				
LCS 280-658996/5		8260D			5 uL		25 uL			
LCSD 280-658996/6		8260D			5 uL	25 uL				
LCSD 280-658996/7		8260D			5 uL		25 uL			
MB 280-658996/9		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 658996 Batch Start Date: 07/01/24 22:22 Batch Analyst: Jones, Branden M

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00080	MV-MegaMainA 00110	MV-Supp A 00091			
280-193176-B-6	Muni-Well-14-20240619	8260D	Water	T	5 uL					
280-193176-A-7	Muni-Well-33-20240619	8260D	Water	T	5 uL					
280-193176-B-14	RW-2203H-20240619	8260D	Water	T	5 uL					
280-193176-A-15	RW-2076F-20240619	8260D	Water	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.: 280-193176-1

SDG No.:

Batch Number: 659045 Batch Start Date: 07/02/24 08:01 Batch Analyst: Ornelas, Gabriel

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00007	MV-Gas A 00191
BFB 280-659045/1		8260D			2 uL	2 uL			5 uL	
CCV 280-659045/2		8260D			5 mL	5 mL				
CCV 280-659045/3		8260D			5 mL	5 mL				10 uL
LCS 280-659045/4		8260D			5 mL	5 mL				10 uL
LCS 280-659045/5		8260D			5 mL	5 mL				
LCSD 280-659045/6		8260D			5 mL	5 mL				10 uL
LCSD 280-659045/7		8260D			5 mL	5 mL				
MB 280-659045/9		8260D			5 mL	5 mL				
280-193176-B-8	TB-01-20240620	8260D	Water	T	5 mL	5 mL	<2 SU	No		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00080	MV-MegaMainA 00110	MV-Supp A 00091			
BFB 280-659045/1		8260D								
CCV 280-659045/2		8260D			5 uL		25 uL			
CCV 280-659045/3		8260D			5 uL	25 uL				
LCS 280-659045/4		8260D			5 uL	25 uL				
LCS 280-659045/5		8260D			5 uL		25 uL			
LCSD 280-659045/6		8260D			5 uL	25 uL				
LCSD 280-659045/7		8260D			5 uL		25 uL			
MB 280-659045/9		8260D			5 uL					
280-193176-B-8	TB-01-20240620	8260D	Water	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-193176-1

SDG No.:

Batch Number: 659045 Batch Start Date: 07/02/24 08:01 Batch Analyst: Ornelas, Gabriel

Batch 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.

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

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Emma Ehret	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No:
Client Contact: Mary Lou Fox	Phone: 509-481-1031	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 1 of 2
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300	PO #: 114505			
Email: FoxML@cdmsmith.com	WO #:			
Project Name: Bannock Ft. Hall Mine LF, Idaho	Project #: 28018772			
Site: 2024 Offsite Groundwater (Lab Task Code)	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

280-193176 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	A	X	
RW-2237H-20240618	6/18/24	~~0955~~ 1320	G	W	N		X	3	
RW-2213F-20240618	6/18/24	~~1240~~ 1320	G	W	N	X	X	9	
RW-2172H-20240618	6/18/24	1135	G	W	N		X	3	
RW-8284P-20240618	6/18/24	1510	G	W	N		X	3	
RW-7677P-20240618	6/18/24	1815	G	W	N		X	3	
Muni-Well-14-20240619	6/19/24	1310	G	W	N		X	3	
Muni-Well-33-20240619	6/19/24	1328	G	W	N		X	3	
TB-01-20240620	6/20/24	0950	G	W	N		X	2	
	~~6/20/24~~		G	W	N		X		
					6/20/24	N	X		
					6/20/24	N	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Hannah Rolston	6/20/24 11:30			6/21/24 09:20	EET DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5 IR NOA CF 0.2

7/5/2024 11:14:22 AM

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

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Client Information	Sampler: Emma Ehret	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No:
Client Contact: Mary Lou Fox	Phone: 509-481-1031	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 2 of 2
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300	PO #: 114505			
Email: FoxML@cdmsmith.com	WO #:			
Project Name: Bannock Ft. Hall Mine LF, Idaho	Project #: 28018772			
Site: 2024 Offsite Groundwater (lab task code)	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	A		
RW-2151H-20240618	6/18/24	1220	G	W	N	N	X	3	
RW-8048P-20240618	6/18/24	1400	G	W	N	N	X	3	
RW-8030P-20240618	6/18/24	1610	G	W	N	N	X	3	
RW-7505P-20240618	6/18/24	1735	G	W	N	N	X	3	
RW-7505P-Q-20240618	6/18/24	1735	G	W	N	N	X	3	
TB-02-20240620	6/20/24		G	W	N	N	X	2	
RW-2203H-20240619	6/19/24	1500	G	W	N	N	X	3	
RW-2076F-20240619	6/19/24	1945	G	W	N	N	X	3	

6/20/24

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Hannah Rolston Here	6/20/24 1:30			6/21/24 09:20	EET DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.5 IRNAGA CF+0.2

7/5/2024 11:14:22 AM

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 280-193176-1

Login Number: 193176
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mary Lou Fox
CDM Smith Inc
14432 S.E. Eastgate Way
Suite 100
Bellevue WA 98007-6493

Generated 8/2/2024 12:18 PM

JOB DESCRIPTION

Bannock Ft. Hall Mine LF, Idaho

JOB NUMBER

280-194612-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

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



Generated
8/2/2024 12:18 PM

Authorized for release by
Shelby R McCabe, Project Manager I
Shelby.McCabe@et.eurofinsus.com
Designee for
Dylan T Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
303 736-0138

Table of Contents

Cover Title Page 1

Data Summaries 5

Definitions 5

Case Narrative 6

Detection Summary 7

Client Sample Results 8

Default Detection Limits 17

Surrogate Summary 19

QC Sample Results 20

QC Association 29

Chronicle 30

Certification Summary 31

Method Summary 32

Sample Summary 33

Manual Integration Summary 34

Reagent Traceability 38

COAs 52

Organic Sample Data 140

GC/MS VOA 140

8260D 140

8260D QC Summary 141

8260D Sample Data 156

Standards Data 212

8260D ICAL Data 212

8260D CCAL Data 436

Raw QC Data 465

Table of Contents

8260D Tune Data 465

8260D Blank Data 473

8260D LCS/LCSD Data 481

8260D MS/MSD Data 505

8260D Run Logs 523

8260D Prep Data 525

Shipping and Receiving Documents 530

Client Chain of Custody 531

Sample Receipt Checklist 533

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Job Narrative
280-194612-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/26/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions
The following samples were logged per the revised Chain of Custody (CoC) provided by the client on 07/28/2024: PA-8-77-87-20240725 (280-194612-1), PA-8-77-87-Q-20240725 (280-194612-2) and PA-4-100-110-20240725 (280-194612-4).

Method 8260D - Volatile Organic Compounds by GC/MS
Samples PA-8-77-87-20240725 (280-194612-1), PA-8-77-87-Q-20240725 (280-194612-2), PA-3-20240725 (280-194612-3), PA-3-20240725 (280-194612-3MS), PA-3-20240725 (280-194612-3MSD), PA-4-100-110-20240725 (280-194612-4), PA-1-20240725 (280-194612-5) and TB-01-20240725 (280-194612-6) were analyzed for Volatile Organic Compounds by GC/MS. The samples were analyzed on 8/1/2024.

The continuing calibration verification (CCV) associated with batch 280-662478 recovered above the upper control limit of 20%D for Vinyl acetate (29.4%D) and Bromomethane (23.2%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PA-8-77-87-20240725 (280-194612-1), PA-8-77-87-Q-20240725 (280-194612-2), PA-3-20240725 (280-194612-3), PA-4-100-110-20240725 (280-194612-4), PA-1-20240725 (280-194612-5), TB-01-20240725 (280-194612-6) and (CCV 280-662478/2).

Supp spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries for supp spike compounds are unavailable for analytical batch 280-662478. The associated laboratory control sample (LCS) met acceptance criteria. The associated samples are impacted: PA-3-20240725 (280-194612-3[MS]) and PA-3-20240725 (280-194612-3[MSD]).

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-662478 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Detection Summary

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Client Sample ID: PA-8-77-87-20240725 — Lab Sample ID: 280-194612-1

No Detections.

Client Sample ID: PA-8-77-87-Q-20240725 — Lab Sample ID: 280-194612-2

No Detections.

Client Sample ID: PA-3-20240725 — Lab Sample ID: 280-194612-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.6		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: PA-4-100-110-20240725 — Lab Sample ID: 280-194612-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.7		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: PA-1-20240725 — Lab Sample ID: 280-194612-5

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-01-20240725 — Lab Sample ID: 280-194612-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PA-8-77-87-20240725
Lab Sample ID: 280-194612-1

Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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	0.16	ug/L			08/01/24 13:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 13:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 13:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 13:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 13:53	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 13:53	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 13:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 13:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 13:53	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 13:53	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 13:53	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 13:53	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 13:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 13:53	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 13:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 13:53	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 13:53	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 13:53	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 13:53	1
Acetone	ND		15	6.6	ug/L			08/01/24 13:53	1
Acetonitrile	ND		30	14	ug/L			08/01/24 13:53	1
Acrolein	ND		20	4.9	ug/L			08/01/24 13:53	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 13:53	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 13:53	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 13:53	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 13:53	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 13:53	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 13:53	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 13:53	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 13:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 13:53	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 13:53	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 13:53	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 13:53	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 13:53	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 13:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 13:53	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 13:53	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 13:53	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 13:53	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 13:53	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 13:53	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 13:53	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 13:53	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 13:53	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 13:53	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 13:53	1

Client Sample ID: PA-8-77-87-20240725
Lab Sample ID: 280-194612-1
Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 13:53	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 13:53	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 13:53	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 13:53	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 13:53	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 13:53	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 13:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 13:53	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 13:53	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 13:53	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/24 13:53	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 13:53	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 13:53	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 13:53	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*08/01/24 13:53*	*1*
4-Bromofluorobenzene (Surr)	*109*		*78 - 120*		*08/01/24 13:53*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*08/01/24 13:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*08/01/24 13:53*	*1*

Client Sample ID: PA-8-77-87-Q-20240725
Lab Sample ID: 280-194612-2
Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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	0.16	ug/L			08/01/24 14:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 14:14	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 14:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 14:14	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 14:14	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 14:14	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 14:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 14:14	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 14:14	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 14:14	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 14:14	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 14:14	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 14:14	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:14	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 14:14	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:14	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 14:14	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 14:14	1
Acetone	ND		15	6.6	ug/L			08/01/24 14:14	1

Client Sample ID: PA-8-77-87-Q-20240725
Lab Sample ID: 280-194612-2

Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		30	14	ug/L			08/01/24 14:14	1
Acrolein	ND		20	4.9	ug/L			08/01/24 14:14	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 14:14	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 14:14	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 14:14	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 14:14	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 14:14	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 14:14	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 14:14	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 14:14	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 14:14	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 14:14	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 14:14	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 14:14	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 14:14	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 14:14	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 14:14	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 14:14	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 14:14	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 14:14	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 14:14	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 14:14	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 14:14	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 14:14	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 14:14	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 14:14	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 14:14	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 14:14	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 14:14	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 14:14	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 14:14	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 14:14	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 14:14	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 14:14	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 14:14	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 14:14	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/24 14:14	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 14:14	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 14:14	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 14:14	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*08/01/24 14:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*08/01/24 14:14*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*08/01/24 14:14*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*08/01/24 14:14*	*1*

Client Sample ID: PA-3-20240725
Date Collected: 07/25/24 10:00
Date Received: 07/26/24 09:05

Lab Sample ID: 280-194612-3
Matrix: Water

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	0.16	ug/L			08/01/24 14:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 14:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 14:35	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 14:35	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 14:35	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 14:35	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 14:35	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 14:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 14:35	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 14:35	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 14:35	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 14:35	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 14:35	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 14:35	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:35	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 14:35	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:35	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 14:35	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 14:35	1
Acetone	ND		15	6.6	ug/L			08/01/24 14:35	1
Acetonitrile	ND		30	14	ug/L			08/01/24 14:35	1
Acrolein	ND		20	4.9	ug/L			08/01/24 14:35	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 14:35	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 14:35	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 14:35	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 14:35	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 14:35	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 14:35	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 14:35	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 14:35	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 14:35	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 14:35	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 14:35	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 14:35	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 14:35	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 14:35	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 14:35	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 14:35	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 14:35	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 14:35	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 14:35	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 14:35	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 14:35	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 14:35	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 14:35	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 14:35	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 14:35	1

Client Sample ID: PA-3-20240725
Lab Sample ID: 280-194612-3
Date Collected: 07/25/24 10:00
Matrix: Water
Date Received: 07/26/24 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 14:35	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 14:35	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 14:35	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 14:35	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 14:35	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 14:35	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 14:35	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 14:35	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 14:35	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 14:35	1
Trichloroethene	**1.6**		1.0	0.30	ug/L			08/01/24 14:35	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 14:35	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 14:35	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 14:35	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*08/01/24 14:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*08/01/24 14:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*08/01/24 14:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*08/01/24 14:35*	*1*

Client Sample ID: PA-4-100-110-20240725
Lab Sample ID: 280-194612-4
Date Collected: 07/25/24 09:35
Matrix: Water
Date Received: 07/26/24 09:05

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	0.16	ug/L			08/01/24 14:56	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 14:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 14:56	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 14:56	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 14:56	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 14:56	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 14:56	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 14:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 14:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 14:56	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 14:56	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 14:56	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 14:56	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 14:56	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 14:56	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:56	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 14:56	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 14:56	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 14:56	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 14:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 14:56	1
Acetone	ND		15	6.6	ug/L			08/01/24 14:56	1

Client Sample ID: PA-4-100-110-20240725
Lab Sample ID: 280-194612-4

Date Collected: 07/25/24 09:35
Matrix: Water
Date Received: 07/26/24 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		30	14	ug/L			08/01/24 14:56	1
Acrolein	ND		20	4.9	ug/L			08/01/24 14:56	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 14:56	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 14:56	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 14:56	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 14:56	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 14:56	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 14:56	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 14:56	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 14:56	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 14:56	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 14:56	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 14:56	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 14:56	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 14:56	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 14:56	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 14:56	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 14:56	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 14:56	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 14:56	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 14:56	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 14:56	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 14:56	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 14:56	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 14:56	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 14:56	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 14:56	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 14:56	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 14:56	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 14:56	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 14:56	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 14:56	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 14:56	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 14:56	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 14:56	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 14:56	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 14:56	1
Trichloroethene	**1.7**		1.0	0.30	ug/L			08/01/24 14:56	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 14:56	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 14:56	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 14:56	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*08/01/24 14:56*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*08/01/24 14:56*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*08/01/24 14:56*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*08/01/24 14:56*	*1*

Client Sample ID: PA-1-20240725
Lab Sample ID: 280-194612-5

Date Collected: 07/25/24 10:10
Matrix: Water
Date Received: 07/26/24 09:05

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	0.16	ug/L			08/01/24 15:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 15:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 15:17	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 15:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 15:17	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 15:17	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 15:17	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 15:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 15:17	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 15:17	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 15:17	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 15:17	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 15:17	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 15:17	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 15:17	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 15:17	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 15:17	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 15:17	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 15:17	1
Acetone	ND		15	6.6	ug/L			08/01/24 15:17	1
Acetonitrile	ND		30	14	ug/L			08/01/24 15:17	1
Acrolein	ND		20	4.9	ug/L			08/01/24 15:17	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 15:17	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 15:17	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 15:17	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 15:17	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 15:17	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 15:17	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 15:17	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 15:17	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 15:17	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 15:17	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 15:17	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 15:17	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 15:17	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 15:17	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 15:17	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 15:17	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 15:17	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 15:17	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 15:17	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 15:17	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 15:17	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 15:17	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 15:17	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 15:17	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 15:17	1

Client Sample ID: PA-1-20240725
Lab Sample ID: 280-194612-5
Date Collected: 07/25/24 10:10
Matrix: Water
Date Received: 07/26/24 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 15:17	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 15:17	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 15:17	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 15:17	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 15:17	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 15:17	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 15:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 15:17	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 15:17	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 15:17	1
Trichloroethene	**1.1**		1.0	0.30	ug/L			08/01/24 15:17	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 15:17	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 15:17	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 15:17	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*08/01/24 15:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*08/01/24 15:17*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*08/01/24 15:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*08/01/24 15:17*	*1*

Client Sample ID: TB-01-20240725
Lab Sample ID: 280-194612-6
Date Collected: 07/25/24 11:40
Matrix: Water
Date Received: 07/26/24 09:05

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	0.16	ug/L			08/01/24 12:08	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 12:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 12:08	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 12:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 12:08	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 12:08	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 12:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 12:08	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 12:08	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 12:08	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 12:08	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 12:08	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 12:08	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 12:08	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 12:08	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 12:08	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 12:08	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 12:08	1
Acetone	ND		15	6.6	ug/L			08/01/24 12:08	1

Client Sample ID: TB-01-20240725
Date Collected: 07/25/24 11:40
Date Received: 07/26/24 09:05

Lab Sample ID: 280-194612-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		30	14	ug/L			08/01/24 12:08	1
Acrolein	ND		20	4.9	ug/L			08/01/24 12:08	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 12:08	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 12:08	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 12:08	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 12:08	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 12:08	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 12:08	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 12:08	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 12:08	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 12:08	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 12:08	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 12:08	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 12:08	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 12:08	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 12:08	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 12:08	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 12:08	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 12:08	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 12:08	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 12:08	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 12:08	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 12:08	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 12:08	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 12:08	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 12:08	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 12:08	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 12:08	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 12:08	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 12:08	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 12:08	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 12:08	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 12:08	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 12:08	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 12:08	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 12:08	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/24 12:08	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 12:08	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 12:08	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 12:08	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*08/01/24 12:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*08/01/24 12:08*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*08/01/24 12:08*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*08/01/24 12:08*	*1*

Default Detection Limits

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.16	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	0.19	ug/L
1,2,3-Trichloropropane	2.5	0.28	ug/L
1,2,4-Trichlorobenzene	1.0	0.58	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.42	ug/L
1,2-Dibromoethane	1.0	0.18	ug/L
1,2-Dichlorobenzene	1.0	0.14	ug/L
1,2-Dichloroethane	1.0	0.28	ug/L
1,2-Dichloropropane	1.0	0.24	ug/L
1,3-Dichlorobenzene	1.0	0.33	ug/L
1,3-Dichloropropane	1.0	0.17	ug/L
1,4-Dichlorobenzene	1.0	0.39	ug/L
2,2-Dichloropropane	1.0	0.17	ug/L
2-Butanone (MEK)	10	4.6	ug/L
2-Hexanone	5.0	0.81	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.98	ug/L
Acetone	15	6.6	ug/L
Acetonitrile	30	14	ug/L
Acrolein	20	4.9	ug/L
Acrylonitrile	20	1.7	ug/L
Allyl chloride	2.0	0.46	ug/L
Benzene	1.0	0.14	ug/L
Bromoform	2.0	0.25	ug/L
Bromomethane	5.0	2.4	ug/L
Carbon disulfide	2.0	0.26	ug/L
Carbon tetrachloride	1.0	0.23	ug/L
Chlorobenzene	1.0	0.092	ug/L
Chlorobromomethane	1.0	0.40	ug/L
Chlorodibromomethane	1.0	0.28	ug/L
Chloroethane	2.0	0.64	ug/L
Chloroform	1.0	0.36	ug/L
Chloromethane	2.0	0.23	ug/L
Chloroprene	3.0	0.79	ug/L
cis-1,2-Dichloroethene	1.0	0.32	ug/L
cis-1,3-Dichloropropene	1.0	0.16	ug/L
Dibromomethane	1.0	0.34	ug/L
Dichlorobromomethane	1.0	0.19	ug/L
Dichlorodifluoromethane	2.0	0.30	ug/L
Ethyl methacrylate	3.0	0.19	ug/L
Ethylbenzene	1.0	0.14	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	0.11	ug/L
Propionitrile	20	3.7	ug/L

Default Detection Limits

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Analyte	RL	MDL	Units
Styrene	1.0	0.13	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	1.0	0.14	ug/L
trans-1,4-Dichloro-2-butene	3.0	0.51	ug/L
Trichloroethene	1.0	0.30	ug/L
Trichlorofluoromethane	2.0	0.20	ug/L
Vinyl acetate	3.0	0.36	ug/L
Vinyl chloride	1.0	0.23	ug/L
Xylenes, Total	1.0	0.11	ug/L

Surrogate Summary

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-194612-1	PA-8-77-87-20240725	105	109	97	104
280-194612-2	PA-8-77-87-Q-20240725	103	101	97	104
280-194612-3	PA-3-20240725	104	103	99	102
280-194612-3 MS	PA-3-20240725	101	100	98	101
280-194612-3 MSD	PA-3-20240725	101	98	99	99
280-194612-4	PA-4-100-110-20240725	105	102	99	102
280-194612-5	PA-1-20240725	102	103	98	102
280-194612-6	TB-01-20240725	99	104	96	105
LCS 280-662478/4	Lab Control Sample	96	99	98	99
LCS 280-662478/6	Lab Control Sample	100	104	99	102
LCSD 280-662478/5	Lab Control Sample Dup	99	100	99	101
LCSD 280-662478/7	Lab Control Sample Dup	101	105	97	102
MB 280-662478/9	Method Blank	101	103	99	102

Surrogate Legend

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

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

Lab Sample ID: MB 280-662478/9
Matrix: Water
Analysis Batch: 662478

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	0.16	ug/L			08/01/24 11:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/24 11:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/24 11:26	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/24 11:26	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/24 11:26	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/24 11:26	1
1,1-Dichloropropene	ND		1.0	0.19	ug/L			08/01/24 11:26	1
1,2,3-Trichloropropane	ND		2.5	0.28	ug/L			08/01/24 11:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/24 11:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.42	ug/L			08/01/24 11:26	1
1,2-Dibromoethane	ND		1.0	0.18	ug/L			08/01/24 11:26	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/L			08/01/24 11:26	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			08/01/24 11:26	1
1,2-Dichloropropane	ND		1.0	0.24	ug/L			08/01/24 11:26	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/24 11:26	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 11:26	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/24 11:26	1
2,2-Dichloropropane	ND		1.0	0.17	ug/L			08/01/24 11:26	1
2-Butanone (MEK)	ND		10	4.6	ug/L			08/01/24 11:26	1
2-Hexanone	ND		5.0	0.81	ug/L			08/01/24 11:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/24 11:26	1
Acetone	ND		15	6.6	ug/L			08/01/24 11:26	1
Acetonitrile	ND		30	14	ug/L			08/01/24 11:26	1
Acrolein	ND		20	4.9	ug/L			08/01/24 11:26	1
Acrylonitrile	ND		20	1.7	ug/L			08/01/24 11:26	1
Allyl chloride	ND		2.0	0.46	ug/L			08/01/24 11:26	1
Benzene	ND		1.0	0.14	ug/L			08/01/24 11:26	1
Bromoform	ND		2.0	0.25	ug/L			08/01/24 11:26	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/24 11:26	1
Carbon disulfide	ND		2.0	0.26	ug/L			08/01/24 11:26	1
Carbon tetrachloride	ND		1.0	0.23	ug/L			08/01/24 11:26	1
Chlorobenzene	ND		1.0	0.092	ug/L			08/01/24 11:26	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/24 11:26	1
Chlorodibromomethane	ND		1.0	0.28	ug/L			08/01/24 11:26	1
Chloroethane	ND		2.0	0.64	ug/L			08/01/24 11:26	1
Chloroform	ND		1.0	0.36	ug/L			08/01/24 11:26	1
Chloromethane	ND		2.0	0.23	ug/L			08/01/24 11:26	1
Chloroprene	ND		3.0	0.79	ug/L			08/01/24 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/24 11:26	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			08/01/24 11:26	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/24 11:26	1
Dichlorobromomethane	ND		1.0	0.19	ug/L			08/01/24 11:26	1
Dichlorodifluoromethane	ND		2.0	0.30	ug/L			08/01/24 11:26	1
Ethyl methacrylate	ND		3.0	0.19	ug/L			08/01/24 11:26	1
Ethylbenzene	ND		1.0	0.14	ug/L			08/01/24 11:26	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/24 11:26	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/24 11:26	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/24 11:26	1

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

Lab Sample ID: MB 280-662478/9
Matrix: Water
Analysis Batch: 662478

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/24 11:26	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/24 11:26	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/24 11:26	1
o-Xylene	ND		1.0	0.11	ug/L			08/01/24 11:26	1
Propionitrile	ND		20	3.7	ug/L			08/01/24 11:26	1
Styrene	ND		1.0	0.13	ug/L			08/01/24 11:26	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/24 11:26	1
Toluene	ND		1.0	0.32	ug/L			08/01/24 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/24 11:26	1
trans-1,3-Dichloropropene	ND		1.0	0.14	ug/L			08/01/24 11:26	1
trans-1,4-Dichloro-2-butene	ND		3.0	0.51	ug/L			08/01/24 11:26	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/24 11:26	1
Trichlorofluoromethane	ND		2.0	0.20	ug/L			08/01/24 11:26	1
Vinyl acetate	ND		3.0	0.36	ug/L			08/01/24 11:26	1
Vinyl chloride	ND		1.0	0.23	ug/L			08/01/24 11:26	1
Xylenes, Total	ND		1.0	0.11	ug/L			08/01/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*08/01/24 11:26*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*08/01/24 11:26*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*08/01/24 11:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*08/01/24 11:26*	*1*

Lab Sample ID: LCS 280-662478/4
Matrix: Water
Analysis Batch: 662478

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	50.4		ug/L		101	80 - 124
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	80 - 123
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	74 - 123
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	80 - 120
1,1-Dichloroethane	50.0	53.2		ug/L		106	78 - 121
1,1-Dichloroethene	50.0	50.7		ug/L		101	77 - 121
1,1-Dichloropropene	50.0	52.5		ug/L		105	77 - 123
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	80 - 120
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	74 - 126
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/L		91	73 - 128
1,2-Dibromoethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	50.0	50.7		ug/L		101	71 - 121
1,2-Dichloropropane	50.0	53.4		ug/L		107	78 - 120
1,3-Dichlorobenzene	50.0	53.0		ug/L		106	80 - 120
1,3-Dichloropropane	50.0	51.8		ug/L		104	77 - 122
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	53.5		ug/L		107	75 - 131
2-Butanone (MEK)	200	170		ug/L		85	58 - 135
2-Hexanone	200	189		ug/L		95	62 - 137

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

Lab Sample ID: LCS 280-662478/4
Matrix: Water
Analysis Batch: 662478

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone (MIBK)	200	191		ug/L		96	66 - 135
Acetone	200	172		ug/L		86	61 - 134
Acrolein	494	483		ug/L		98	31 - 174
Acrylonitrile	500	459		ug/L		92	70 - 126
Allyl chloride	50.0	55.3		ug/L		111	65 - 132
Benzene	50.0	52.0		ug/L		104	80 - 120
Bromoform	50.0	47.3		ug/L		95	79 - 138
Bromomethane	50.0	61.6		ug/L		123	29 - 148
Carbon disulfide	50.0	52.1		ug/L		104	70 - 121
Carbon tetrachloride	50.0	50.9		ug/L		102	79 - 127
Chlorobenzene	50.0	51.0		ug/L		102	80 - 120
Chlorobromomethane	50.0	52.6		ug/L		105	80 - 123
Chlorodibromomethane	50.0	50.1		ug/L		100	80 - 125
Chloroethane	50.0	47.0		ug/L		94	56 - 141
Chloroform	50.0	50.9		ug/L		102	80 - 120
Chloromethane	50.0	55.2		ug/L		110	56 - 133
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	80 - 120
cis-1,3-Dichloropropene	50.0	54.0		ug/L		108	76 - 129
Dibromomethane	50.0	49.8		ug/L		100	80 - 120
Dichlorobromomethane	50.0	52.5		ug/L		105	80 - 123
Dichlorodifluoromethane	50.0	46.5		ug/L		93	47 - 135
Ethyl methacrylate	50.0	47.1		ug/L		94	80 - 122
Ethylbenzene	50.0	52.3		ug/L		105	80 - 120
Iodomethane	50.0	48.6		ug/L		97	43 - 139
Isobutyl alcohol	1250	1030		ug/L		83	46 - 146
Methylene Chloride	50.0	51.7		ug/L		103	78 - 120
m-Xylene & p-Xylene	50.0	53.0		ug/L		106	80 - 120
o-Xylene	50.0	51.4		ug/L		103	80 - 120
Styrene	50.0	47.7		ug/L		95	80 - 120
Tetrachloroethene	50.0	49.2		ug/L		98	80 - 121
Toluene	50.0	51.0		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	79 - 121
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	80 - 123
trans-1,4-Dichloro-2-butene	50.0	48.3		ug/L		97	51 - 138
Trichloroethene	50.0	50.4		ug/L		101	80 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	54 - 144
Vinyl acetate	100	129		ug/L		129	55 - 161
Vinyl chloride	50.0	50.0		ug/L		100	67 - 127
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

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

Lab Sample ID: LCS 280-662478/6
Matrix: Water
Analysis Batch: 662478

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetonitrile			250	201		ug/L		80	23 - 155		
Chloroprene			25.0	24.9		ug/L		100	47 - 146		
Methacrylonitrile			250	257		ug/L		103	42 - 142		
Methyl methacrylate			50.0	43.8		ug/L		88	60 - 133		
Propionitrile			250	201		ug/L		81	45 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: LCSD 280-662478/5
Matrix: Water
Analysis Batch: 662478

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	52.2		ug/L		104	80 - 124	4	20
1,1,1-Trichloroethane			50.0	48.6		ug/L		97	80 - 123	2	20
1,1,2,2-Tetrachloroethane			50.0	52.2		ug/L		104	74 - 123	5	20
1,1,2-Trichloroethane			50.0	49.9		ug/L		100	80 - 120	3	20
1,1-Dichloroethane			50.0	51.2		ug/L		102	78 - 121	4	20
1,1-Dichloroethene			50.0	47.2		ug/L		94	77 - 121	7	21
1,1-Dichloropropene			50.0	50.5		ug/L		101	77 - 123	4	20
1,2,3-Trichloropropane			50.0	51.9		ug/L		104	80 - 120	5	20
1,2,4-Trichlorobenzene			50.0	51.8		ug/L		104	74 - 126	0	20
1,2-Dibromo-3-Chloropropane			50.0	47.7		ug/L		95	73 - 128	4	21
1,2-Dibromoethane			50.0	52.3		ug/L		105	80 - 120	4	20
1,2-Dichlorobenzene			50.0	51.1		ug/L		102	80 - 120	0	20
1,2-Dichloroethane			50.0	52.1		ug/L		104	71 - 121	3	20
1,2-Dichloropropane			50.0	53.2		ug/L		106	78 - 120	0	20
1,3-Dichlorobenzene			50.0	53.0		ug/L		106	80 - 120	0	20
1,3-Dichloropropane			50.0	53.8		ug/L		108	77 - 122	4	20
1,4-Dichlorobenzene			50.0	51.5		ug/L		103	80 - 120	0	20
2,2-Dichloropropane			50.0	50.1		ug/L		100	75 - 131	7	22
2-Butanone (MEK)			200	179		ug/L		89	58 - 135	5	20
2-Hexanone			200	212		ug/L		106	62 - 137	11	21
4-Methyl-2-pentanone (MIBK)			200	208		ug/L		104	66 - 135	8	20
Acetone			200	178		ug/L		89	61 - 134	4	21
Acrolein			494	481		ug/L		97	31 - 174	0	23
Acrylonitrile			500	462		ug/L		92	70 - 126	1	20
Allyl chloride			50.0	53.7		ug/L		107	65 - 132	3	20
Benzene			50.0	51.0		ug/L		102	80 - 120	2	20
Bromoform			50.0	50.0		ug/L		100	79 - 138	5	20
Bromomethane			50.0	57.7		ug/L		115	29 - 148	7	40
Carbon disulfide			50.0	46.8		ug/L		94	70 - 121	11	20
Carbon tetrachloride			50.0	49.4		ug/L		99	79 - 127	3	20
Chlorobenzene			50.0	51.5		ug/L		103	80 - 120	1	20

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

Lab Sample ID: LCSD 280-662478/5
Matrix: Water
Analysis Batch: 662478

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
Chlorobromomethane			50.0	50.8		ug/L		102	80 - 123	3	20
Chlorodibromomethane			50.0	51.3		ug/L		103	80 - 125	2	20
Chloroethane			50.0	45.0		ug/L		90	56 - 141	4	30
Chloroform			50.0	49.8		ug/L		100	80 - 120	2	20
Chloromethane			50.0	46.6		ug/L		93	56 - 133	17	20
cis-1,2-Dichloroethene			50.0	45.6		ug/L		91	80 - 120	4	20
cis-1,3-Dichloropropene			50.0	53.6		ug/L		107	76 - 129	1	20
Dibromomethane			50.0	49.3		ug/L		99	80 - 120	1	20
Dichlorobromomethane			50.0	51.9		ug/L		104	80 - 123	1	20
Dichlorodifluoromethane			50.0	39.5		ug/L		79	47 - 135	16	21
Ethyl methacrylate			50.0	50.6		ug/L		101	80 - 122	7	20
Ethylbenzene			50.0	52.7		ug/L		105	80 - 120	1	20
Iodomethane			50.0	42.3		ug/L		85	43 - 139	14	38
Isobutyl alcohol			1250	1160		ug/L		93	46 - 146	12	30
Methylene Chloride			50.0	49.2		ug/L		98	78 - 120	5	20
m-Xylene & p-Xylene			50.0	52.0		ug/L		104	80 - 120	2	20
o-Xylene			50.0	52.0		ug/L		104	80 - 120	1	20
Styrene			50.0	48.2		ug/L		96	80 - 120	1	20
Tetrachloroethene			50.0	49.5		ug/L		99	80 - 121	1	20
Toluene			50.0	50.0		ug/L		100	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	48.6		ug/L		97	79 - 121	4	20
trans-1,3-Dichloropropene			50.0	47.9		ug/L		96	80 - 123	0	20
trans-1,4-Dichloro-2-butene			50.0	51.4		ug/L		103	51 - 138	6	24
Trichloroethene			50.0	49.2		ug/L		98	80 - 120	3	20
Trichlorofluoromethane			50.0	47.8		ug/L		96	54 - 144	1	28
Vinyl acetate			100	130		ug/L		130	55 - 161	0	23
Vinyl chloride			50.0	46.7		ug/L		93	67 - 127	7	25
Xylenes, Total			100	104		ug/L		104	80 - 120	0	20

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

Lab Sample ID: LCSD 280-662478/7
Matrix: Water
Analysis Batch: 662478

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
Acetonitrile			250	195		ug/L		78	23 - 155	3	20
Chloroprene			25.0	24.7		ug/L		99	47 - 146	1	20
Methacrylonitrile			250	262		ug/L		105	42 - 142	2	20
Methyl methacrylate			50.0	42.0		ug/L		84	60 - 133	4	20
Propionitrile			250	204		ug/L		81	45 - 144	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*

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

Lab Sample ID: LCSD 280-662478/7
Matrix: Water
Analysis Batch: 662478

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: 280-194612-3 MS
Matrix: Water
Analysis Batch: 662478

Client Sample ID: PA-3-20240725
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	50.3		ug/L		101	80 - 124
1,1,1-Trichloroethane	ND		50.0	46.3		ug/L		93	80 - 123
1,1,2,2-Tetrachloroethane	ND		50.0	55.0		ug/L		110	74 - 123
1,1,2-Trichloroethane	ND		50.0	49.4		ug/L		99	80 - 120
1,1-Dichloroethane	ND		50.0	49.1		ug/L		98	78 - 121
1,1-Dichloroethene	ND		50.0	43.1		ug/L		86	77 - 121
1,1-Dichloropropene	ND		50.0	48.0		ug/L		96	77 - 123
1,2,3-Trichloropropane	ND		50.0	53.6		ug/L		107	80 - 120
1,2,4-Trichlorobenzene	ND		50.0	52.7		ug/L		105	74 - 126
1,2-Dibromo-3-Chloropropane	ND		50.0	53.0		ug/L		106	73 - 128
1,2-Dibromoethane	ND		50.0	51.5		ug/L		103	80 - 120
1,2-Dichlorobenzene	ND		50.0	50.5		ug/L		101	80 - 120
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	71 - 121
1,2-Dichloropropane	ND		50.0	51.2		ug/L		102	78 - 120
1,3-Dichlorobenzene	ND		50.0	51.2		ug/L		102	80 - 120
1,3-Dichloropropane	ND		50.0	53.1		ug/L		106	77 - 122
1,4-Dichlorobenzene	ND		50.0	48.6		ug/L		97	80 - 120
2,2-Dichloropropane	ND		50.0	43.0		ug/L		86	75 - 131
2-Butanone (MEK)	ND		200	200		ug/L		100	58 - 135
2-Hexanone	ND		200	236		ug/L		118	62 - 137
4-Methyl-2-pentanone (MIBK)	ND		200	226		ug/L		113	66 - 135
Acetone	ND		200	193		ug/L		96	61 - 134
Acrolein	ND		494	469		ug/L		95	31 - 174
Acrylonitrile	ND		500	505		ug/L		101	70 - 126
Allyl chloride	ND		50.0	50.4		ug/L		101	65 - 132
Benzene	ND		50.0	48.6		ug/L		97	80 - 120
Bromoform	ND		50.0	49.6		ug/L		99	79 - 138
Bromomethane	ND		50.0	57.7		ug/L		115	29 - 148
Carbon disulfide	ND		50.0	42.1		ug/L		84	70 - 121
Carbon tetrachloride	ND		50.0	46.0		ug/L		92	79 - 127
Chlorobenzene	ND		50.0	49.7		ug/L		99	80 - 120
Chlorobromomethane	ND		50.0	48.2		ug/L		96	80 - 123
Chlorodibromomethane	ND		50.0	50.4		ug/L		101	80 - 125
Chloroethane	ND		50.0	44.4		ug/L		89	56 - 141
Chloroform	ND		50.0	47.7		ug/L		95	80 - 120
Chloromethane	ND		50.0	44.2		ug/L		88	56 - 133
cis-1,2-Dichloroethene	ND		50.0	43.4		ug/L		87	80 - 120
cis-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	76 - 129
Dibromomethane	ND		50.0	48.7		ug/L		97	80 - 120

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

Lab Sample ID: 280-194612-3 MS
Matrix: Water
Analysis Batch: 662478

Client Sample ID: PA-3-20240725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorobromomethane	ND		50.0	49.7		ug/L		99	80 - 123
Dichlorodifluoromethane	ND		50.0	39.8		ug/L		80	47 - 135
Ethyl methacrylate	ND		50.0	51.7		ug/L		103	80 - 122
Ethylbenzene	ND		50.0	49.7		ug/L		99	80 - 120
Iodomethane	ND		50.0	36.6		ug/L		73	43 - 139
Isobutyl alcohol	ND		1250	1440		ug/L		115	46 - 146
Methylene Chloride	ND		50.0	45.9		ug/L		92	78 - 120
m-Xylene & p-Xylene	ND		50.0	49.8		ug/L		100	80 - 120
o-Xylene	ND		50.0	49.9		ug/L		100	80 - 120
Styrene	ND		50.0	46.7		ug/L		93	80 - 120
Tetrachloroethene	ND		50.0	47.1		ug/L		94	80 - 121
Toluene	ND		50.0	47.8		ug/L		96	80 - 120
trans-1,2-Dichloroethene	ND		50.0	46.1		ug/L		92	79 - 121
trans-1,3-Dichloropropene	ND		50.0	45.6		ug/L		91	80 - 123
trans-1,4-Dichloro-2-butene	ND		50.0	50.8		ug/L		102	51 - 138
Trichloroethene	1.6		50.0	48.8		ug/L		94	80 - 120
Trichlorofluoromethane	ND		50.0	43.1		ug/L		86	54 - 144
Vinyl acetate	ND		100	131		ug/L		131	55 - 161
Vinyl chloride	ND		50.0	46.3		ug/L		93	67 - 127
Xylenes, Total	ND		100	99.7		ug/L		100	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: 280-194612-3 MSD
Matrix: Water
Analysis Batch: 662478

Client Sample ID: PA-3-20240725
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	51.4		ug/L		103	80 - 124	2	20
1,1,1-Trichloroethane	ND		50.0	46.3		ug/L		93	80 - 123	0	20
1,1,2,2-Tetrachloroethane	ND		50.0	56.2		ug/L		112	74 - 123	2	20
1,1,2-Trichloroethane	ND		50.0	52.1		ug/L		104	80 - 120	5	20
1,1-Dichloroethane	ND		50.0	51.3		ug/L		103	78 - 121	4	20
1,1-Dichloroethene	ND		50.0	42.5		ug/L		85	77 - 121	2	21
1,1-Dichloropropene	ND		50.0	47.2		ug/L		94	77 - 123	2	20
1,2,3-Trichloropropane	ND		50.0	54.7		ug/L		109	80 - 120	2	20
1,2,4-Trichlorobenzene	ND		50.0	56.8		ug/L		114	74 - 126	8	20
1,2-Dibromo-3-Chloropropane	ND		50.0	55.8		ug/L		112	73 - 128	5	21
1,2-Dibromoethane	ND		50.0	52.6		ug/L		105	80 - 120	2	20
1,2-Dichlorobenzene	ND		50.0	52.8		ug/L		106	80 - 120	4	20
1,2-Dichloroethane	ND		50.0	51.4		ug/L		103	71 - 121	5	20
1,2-Dichloropropane	ND		50.0	53.4		ug/L		107	78 - 120	4	20
1,3-Dichlorobenzene	ND		50.0	53.6		ug/L		107	80 - 120	5	20
1,3-Dichloropropane	ND		50.0	53.8		ug/L		108	77 - 122	1	20

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

Lab Sample ID: 280-194612-3 MSD
Client Sample ID: PA-3-20240725
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		50.0	50.1		ug/L		100	80 - 120	3	20
2,2-Dichloropropane	ND		50.0	43.0		ug/L		86	75 - 131	0	22
2-Butanone (MEK)	ND		200	213		ug/L		106	58 - 135	6	20
2-Hexanone	ND		200	237		ug/L		118	62 - 137	0	21
4-Methyl-2-pentanone (MIBK)	ND		200	235		ug/L		117	66 - 135	4	20
Acetone	ND		200	202		ug/L		101	61 - 134	5	21
Acrolein	ND		494	537		ug/L		109	31 - 174	14	23
Acrylonitrile	ND		500	525		ug/L		105	70 - 126	4	20
Allyl chloride	ND		50.0	51.5		ug/L		103	65 - 132	2	20
Benzene	ND		50.0	50.4		ug/L		101	80 - 120	4	20
Bromoform	ND		50.0	50.8		ug/L		102	79 - 138	2	20
Bromomethane	ND		50.0	64.3		ug/L		129	29 - 148	11	40
Carbon disulfide	ND		50.0	42.8		ug/L		86	70 - 121	2	20
Carbon tetrachloride	ND		50.0	45.9		ug/L		92	79 - 127	0	20
Chlorobenzene	ND		50.0	51.6		ug/L		103	80 - 120	4	20
Chlorobromomethane	ND		50.0	52.5		ug/L		105	80 - 123	9	20
Chlorodibromomethane	ND		50.0	51.4		ug/L		103	80 - 125	2	20
Chloroethane	ND		50.0	49.7		ug/L		99	56 - 141	11	30
Chloroform	ND		50.0	50.2		ug/L		100	80 - 120	5	20
Chloromethane	ND		50.0	53.8		ug/L		108	56 - 133	19	20
cis-1,2-Dichloroethene	ND		50.0	44.7		ug/L		89	80 - 120	3	20
cis-1,3-Dichloropropene	ND		50.0	51.5		ug/L		103	76 - 129	1	20
Dibromomethane	ND		50.0	51.5		ug/L		103	80 - 120	6	20
Dichlorobromomethane	ND		50.0	52.0		ug/L		104	80 - 123	4	20
Dichlorodifluoromethane	ND		50.0	44.7		ug/L		89	47 - 135	11	21
Ethyl methacrylate	ND		50.0	52.6		ug/L		105	80 - 122	2	20
Ethylbenzene	ND		50.0	52.1		ug/L		104	80 - 120	5	20
Iodomethane	ND		50.0	41.3		ug/L		83	43 - 139	12	38
Isobutyl alcohol	ND		1250	1540		ug/L		123	46 - 146	6	30
Methylene Chloride	ND		50.0	48.7		ug/L		97	78 - 120	6	20
m-Xylene & p-Xylene	ND		50.0	52.7		ug/L		105	80 - 120	6	20
o-Xylene	ND		50.0	52.2		ug/L		104	80 - 120	5	20
Styrene	ND		50.0	49.0		ug/L		98	80 - 120	5	20
Tetrachloroethene	ND		50.0	46.8		ug/L		94	80 - 121	1	20
Toluene	ND		50.0	50.5		ug/L		101	80 - 120	6	20
trans-1,2-Dichloroethene	ND		50.0	46.4		ug/L		93	79 - 121	1	20
trans-1,3-Dichloropropene	ND		50.0	48.0		ug/L		96	80 - 123	5	20
trans-1,4-Dichloro-2-butene	ND		50.0	51.5		ug/L		103	51 - 138	1	24
Trichloroethene	1.6		50.0	48.3		ug/L		93	80 - 120	1	20
Trichlorofluoromethane	ND		50.0	48.6		ug/L		97	54 - 144	12	28
Vinyl acetate	ND		100	133		ug/L		133	55 - 161	2	23
Vinyl chloride	ND		50.0	52.6		ug/L		105	67 - 127	13	25
Xylenes, Total	ND		100	105		ug/L		105	80 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 120*

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

Lab Sample ID: 280-194612-3 MSD
Client Sample ID: PA-3-20240725
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 662478

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 125

QC Association Summary

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

GC/MS VOA

Analysis Batch: 662478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-194612-1	PA-8-77-87-20240725	Total/NA	Water	8260D	
280-194612-2	PA-8-77-87-Q-20240725	Total/NA	Water	8260D	
280-194612-3	PA-3-20240725	Total/NA	Water	8260D	
280-194612-4	PA-4-100-110-20240725	Total/NA	Water	8260D	
280-194612-5	PA-1-20240725	Total/NA	Water	8260D	
280-194612-6	TB-01-20240725	Total/NA	Water	8260D	
MB 280-662478/9	Method Blank	Total/NA	Water	8260D	
LCS 280-662478/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-662478/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-662478/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-662478/7	Lab Control Sample Dup	Total/NA	Water	8260D	
280-194612-3 MS	PA-3-20240725	Total/NA	Water	8260D	
280-194612-3 MSD	PA-3-20240725	Total/NA	Water	8260D	

Lab Chronicle

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Client Sample ID: PA-8-77-87-20240725
Lab Sample ID: 280-194612-1
Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 13:53	DMC	EET DEN

Client Sample ID: PA-8-77-87-Q-20240725
Lab Sample ID: 280-194612-2
Date Collected: 07/25/24 10:35
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 14:14	DMC	EET DEN

Client Sample ID: PA-3-20240725
Lab Sample ID: 280-194612-3
Date Collected: 07/25/24 10:00
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 14:35	DMC	EET DEN

Client Sample ID: PA-4-100-110-20240725
Lab Sample ID: 280-194612-4
Date Collected: 07/25/24 09:35
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 14:56	DMC	EET DEN

Client Sample ID: PA-1-20240725
Lab Sample ID: 280-194612-5
Date Collected: 07/25/24 10:10
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 15:17	DMC	EET DEN

Client Sample ID: TB-01-20240725
Lab Sample ID: 280-194612-6
Date Collected: 07/25/24 11:40
Matrix: Water
Date Received: 07/26/24 09:05

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	662478	08/01/24 12:08	DMC	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
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025	01-08-25

Method Summary

Client: CDM Smith Inc
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

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
Job ID: 280-194612-1
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-194612-1	PA-8-77-87-20240725	Water	07/25/24 10:35	07/26/24 09:05
280-194612-2	PA-8-77-87-Q-20240725	Water	07/25/24 10:35	07/26/24 09:05
280-194612-3	PA-3-20240725	Water	07/25/24 10:00	07/26/24 09:05
280-194612-4	PA-4-100-110-20240725	Water	07/25/24 09:35	07/26/24 09:05
280-194612-5	PA-1-20240725	Water	07/25/24 10:10	07/26/24 09:05
280-194612-6	TB-01-20240725	Water	07/25/24 11:40	07/26/24 09:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 662184

Lab Sample ID: STD1 280-662184/28 IC Client Sample ID:

Date Analyzed: 07/30/24 12:19 Lab File ID: G2_14231.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.54	Split Peak	LP8K	07/30/24 17:42
Vinyl chloride	1.56	Peak Tail	LP8K	07/30/24 17:42
Bromomethane	1.80	Peak Tail	LP8K	07/30/24 17:42
Dichlorofluoromethane	2.03	Peak Tail	LP8K	07/30/24 17:42
Acrolein	2.36	Incomplete Integration	LP8K	07/30/24 17:43
Acetone	2.45	Incomplete Integration	LP8K	07/30/24 17:43
Acrylonitrile	2.93	Incomplete Integration	LP8K	07/30/24 17:43
Vinyl acetate	3.22	Incomplete Integration	LP8K	07/30/24 18:18
1,2-Dichloroethane	4.23	Assign Peak	BMJ3	07/30/24 14:15
n-Heptane	4.38	Incomplete Integration	LP8K	07/30/24 17:44
2-Pentanone	4.84	Missed Peak	LP8K	07/30/24 18:24
Dibromomethane	4.94	Incomplete Integration	LP8K	07/30/24 17:44
Dichlorobromomethane	5.07	Split Peak	LP8K	07/30/24 17:44
cis-1,3-Dichloropropene	5.41	Split Peak	LP8K	07/30/24 17:45
trans-1,3-Dichloropropene	5.88	Split Peak	LP8K	07/30/24 17:45
1,2-Dibromoethane	6.46	Split Peak	LP8K	07/30/24 17:45
1-Chlorohexane	6.87	Split Peak	LP8K	07/30/24 17:45
m-Xylene & p-Xylene	7.09	Missed Peak	LP8K	07/30/24 17:45
Styrene	7.46	Split Peak	LP8K	07/30/24 17:45
4-Chlorotoluene	8.39	Incomplete Integration	LP8K	07/30/24 17:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 662184

Lab Sample ID: STD2 280-662184/29 IC Client Sample ID:

Date Analyzed: 07/30/24 12:40 Lab File ID: G2_14232.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.55	Split Peak	BMJ3	07/30/24 14:16
Acrolein	2.36	Split Peak	BMJ3	07/30/24 14:17
Acetone	2.44	Split Peak	BMJ3	07/30/24 14:17
Acrylonitrile	2.91	Incomplete Integration	LP8K	07/30/24 18:09
Vinyl acetate	3.21	Incomplete Integration	LP8K	07/30/24 18:10
Cyclohexane	3.99	Split Peak	BMJ3	07/30/24 14:18
Isobutyl alcohol	4.12	Missed Peak	LP8K	07/30/24 18:22
n-Heptane	4.38	Assign Peak	BMJ3	07/30/24 14:19
2-Pentanone	4.81	Split Peak	BMJ3	07/30/24 14:19
1,4-Dioxane	4.93	Split Peak	BMJ3	07/30/24 14:20
2-Chloroethyl vinyl ether	5.29	Split Peak	BMJ3	07/30/24 14:20
trans-1,3-Dichloropropene	5.87	Incomplete Integration	LP8K	07/30/24 18:26
1,2-Dibromo-3-Chloropropane	10.20	Split Peak	LP8K	07/30/24 17:49

Lab Sample ID: STD5 280-662184/30 IC Client Sample ID:

Date Analyzed: 07/30/24 13:01 Lab File ID: G2_14233.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.55	Split Peak	BMJ3	07/30/24 14:22
Iodomethane	2.51	Peak Tail	LP8K	07/30/24 18:45

Lab Sample ID: STD10 280-662184/31 IC Client Sample ID:

Date Analyzed: 07/30/24 13:22 Lab File ID: G2_14234.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.50	Peak Tail	LP8K	07/30/24 18:46
1,4-Dioxane	4.93	Split Peak	LP8K	07/30/24 17:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 662184

Lab Sample ID: STD100 280-662184/34 IC Client Sample ID:

Date Analyzed: 07/30/24 14:25 Lab File ID: G2_14237.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.78	Split Peak	BMJ3	07/31/24 11:05

Lab Sample ID: STD2 280-662184/40 IC Client Sample ID:

Date Analyzed: 07/30/24 16:52 Lab File ID: G2_14244.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.20	Incomplete Integration	LP8K	07/30/24 19:16
Isopropyl alcohol	2.54	Incomplete Integration	LP8K	07/30/24 19:16
Acetonitrile	2.65	Incomplete Integration	LP8K	07/30/24 19:16
Methyl methacrylate	4.90	Incomplete Integration	LP8K	07/30/24 19:17
2-Nitropropane	5.23	Incomplete Integration	LP8K	07/30/24 19:18

Lab Sample ID: STD5 280-662184/41 IC Client Sample ID:

Date Analyzed: 07/30/24 17:13 Lab File ID: G2_14245.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.19	Peak Tail	LP8K	07/30/24 19:21
Isopropyl alcohol	2.53	Peak Tail	LP8K	07/30/24 19:46
Acetonitrile	2.64	Incomplete Integration	LP8K	07/30/24 19:22

Lab Sample ID: STD10 280-662184/42 IC Client Sample ID:

Date Analyzed: 07/30/24 17:34 Lab File ID: G2_14246.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl alcohol	2.52	Peak Tail	LP8K	07/30/24 19:47
Acetonitrile	2.63	Incomplete Integration	LP8K	07/30/24 19:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Analysis Batch Number: 662478

Lab Sample ID: 280-194612-3 MS Client Sample ID: PA-3-20240725 MS

Date Analyzed: 08/01/24 17:02 Lab File ID: G2_14356.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile		Invalid Compound ID	LP8K	08/01/24 18:00

Lab Sample ID: 280-194612-3 MSD Client Sample ID: PA-3-20240725 MSD

Date Analyzed: 08/01/24 17:23 Lab File ID: G2_14357.D GC Column: DB-624 (60.2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile		Invalid Compound ID	LP8K	08/01/24 18:00

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Cal Dil Std B_00006	08/19/24	07/30/24	P&T Methanol, Lot EG636-US	100 uL	MV-Gas B_00168	2 ug/PUF	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
							2-Chloroethyl vinyl ether	5 ug/mL
					MV-MegaMain B_00107	5 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00168	08/22/24	07/22/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

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
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00016	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722.sec_00018	07/31/26		RESTEK, Lot A0200059		(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_00016	04/30/27		RESTEK, Lot A0210862		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMain B_00107	08/19/24	07/18/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00041	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

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_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720.sec_00041	09/30/25		RESTEK, Lot A0209508		(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(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_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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.s_00013	11/30/25	Agilent, Lot 0006765276.sa			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
mv-Cent BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune_00002	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00002	05/31/26	Restek, Lot 20401KO/A0172587			(Purchased Reagent)		BFB	250 ug/mL
mv-Cent IS_00008	07/31/24	08/01/23	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00193	08/19/24	07/16/24	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00019	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_00019	04/30/27		RESTEK, Lot A0210106		(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_00168	08/22/24	07/22/24	P&T Methanol, Lot EG636-US	12.5 mL	MV-569722.sec_00018	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_00016	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722.sec_00018	07/31/26		RESTEK, Lot A0200059		(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_00016	04/30/27		RESTEK, Lot A0210862		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
mv-IS_SS_00084	03/01/25	07/01/24	P&T Methanol, Lot EG636-US	50 mL	mv-30241_00014	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_00014	05/31/28		Restek, Lot A0198297		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-MegaMain B_00107	08/19/24	07/18/24	P&T Methanol, Lot EG-636-US	25 mL	MV-568720.sec_00041	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00011	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_00037	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00013	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00010	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00013	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720.sec_00041	09/30/25		RESTEK, Lot A0209508		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721.sec_00011	02/28/26		RESTEK, Lot A0194631		(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_00037	11/30/24		RESTEK, Lot A0197959		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727.sec_00013	03/31/26		RESTEK, Lot A0195344		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992.sec_00010	08/31/25		RESTEK, Lot A0195252		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00013	11/30/25	Agilent, Lot 0006765276.sa			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMain B_00107	08/19/24	07/18/24	P&T Methanol, Lot EG-636-US	25 mL	MV-571992.sec_00010	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992.sec_00010	08/31/25	RESTEK, Lot A0195252			(Purchased Reagent)		Xylenes, Total	5000 ug/mL
MV-MegaMainA_00112	08/26/24	07/23/24	P&T Methanol, Lot EG636-US	25 mL	MV-568720_00049	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_00037	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00049	09/30/25		RESTEK, Lot A0209476		(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_00037	01/31/25		RESTEK, Lot A0200199		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
MV-Supp A_00094	09/16/24	07/15/24	P&T Methanol, Lot 199628	20 mL	mv-570808_00016	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809_00014	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993_00010	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.mv-570808_00016	09/30/24		Restek, Lot A0195733		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809_00014	01/31/25		Restek, Lot A0200274		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993_00010	02/28/25		RESTEK, Lot A0194786		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00072	07/31/24	05/29/24	P&T Methanol, Lot EG636-US	20 mL	mv-570808.sec_00010	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
					mv-570809.sec_00011	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993.sec_00009	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_00002	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808.sec_00010	08/31/25		Restek, Lot A0208453		(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
.mv-570809.sec_00011	08/30/24		Restek, Lot A0194573		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00009	02/28/25		RESTEK, Lot A0195116		(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_00002	11/15/24		CPI, Lot 492314		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
MV-Supp B_00073	09/04/24	07/31/24	P&T Methanol, Lot EG636-US	20 mL	mv-570808.sec_00010	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809.sec_00011	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993.sec_00009	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.mv-570808.sec_00010	08/31/25		Restek, Lot A0208453		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809.sec_00011	08/30/24		Restek, Lot A0194573		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00009	02/28/25		RESTEK, Lot A0195116		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL

Reagent

mv-30241_00010

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 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	2,500.6 µg/mL	+/- 14.5387 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 140.2062 µg/mL	Unstressed
	Purity 99%		+/- 143.4868 µg/mL	Stressed
2	Chlorobenzene-d5	2,500.8 µg/mL	+/- 14.5399 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 140.2174 µg/mL	Unstressed
	Purity 99%		+/- 143.4983 µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,500.2 µg/mL	+/- 14.5364 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 140.1837 µg/mL	Unstressed
	Purity 99%		+/- 143.4639 µg/mL	Stressed

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

Revd 4/5/22

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

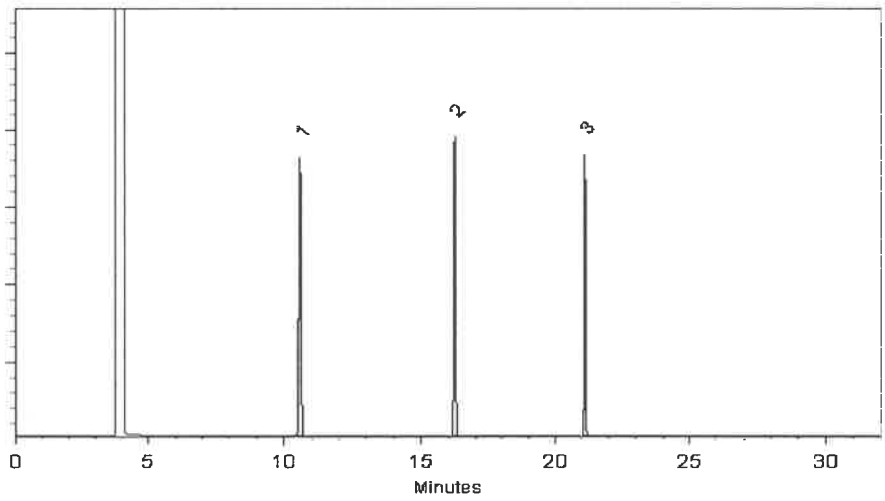
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Jan-2022 **Balance:** B707717271

Marlina 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_00014

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 30241 **Lot No.:** A0198297

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, 2028 **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	Fluorobenzene	462-06-6	BCBZ5549	99%	2,504.7 µg/mL	+/- 140.7155
2	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,513.3 µg/mL	+/- 141.2024
3	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.3 µg/mL	+/- 141.3148

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

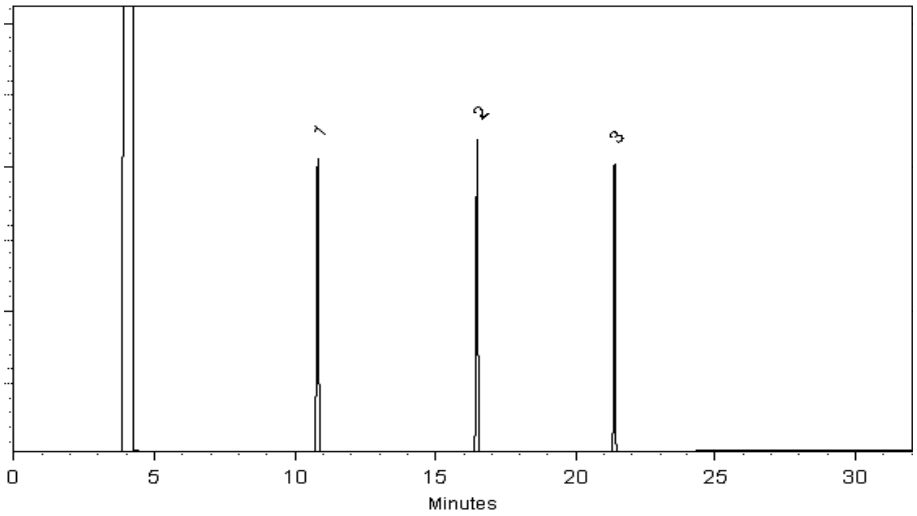
Inj. Temp:
200°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 22-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 24-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-567650_00030

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 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	2,510.9 µg/mL	+/- 14.5983 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 140.7809 µg/mL	Unstressed
	Purity 99%		+/- 144.0750 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,518.0 µg/mL	+/- 14.6399 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 141.1818 µg/mL	Unstressed
	Purity 99%		+/- 144.4852 µg/mL	Stressed
3	Toluene-d8	2,500.4 µg/mL	+/- 14.5375 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31750)		+/- 140.1949 µg/mL	Unstressed
	Purity 99%		+/- 143.4753 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,520.9 µg/mL	+/- 14.6567 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 141.3444 µg/mL	Unstressed
	Purity 99%		+/- 144.6516 µg/mL	Stressed

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

Rcvd 4/6/20

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

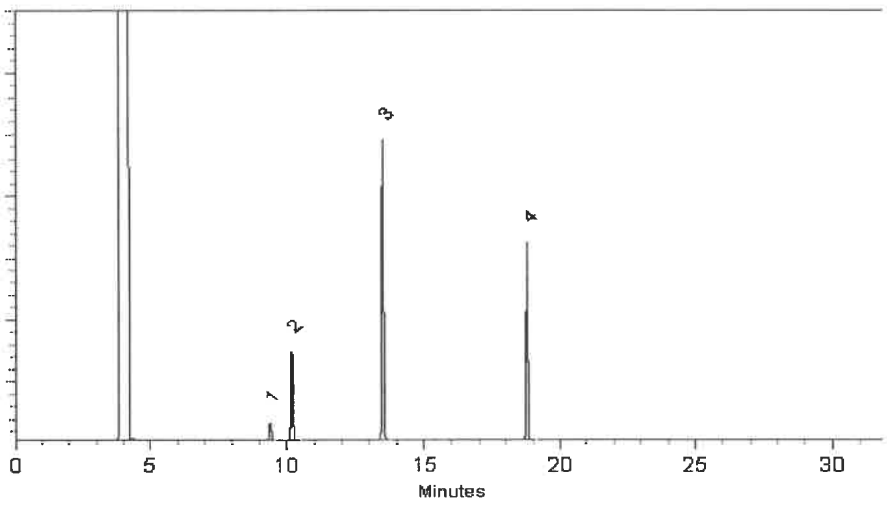
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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-568720.sec_00041

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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. : 568720.SEC **Lot No.:** A0209508

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 : September 30, 2025 **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	RD230612S	99%	19,752.0 µg/mL	+/- 580.2737

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

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.)

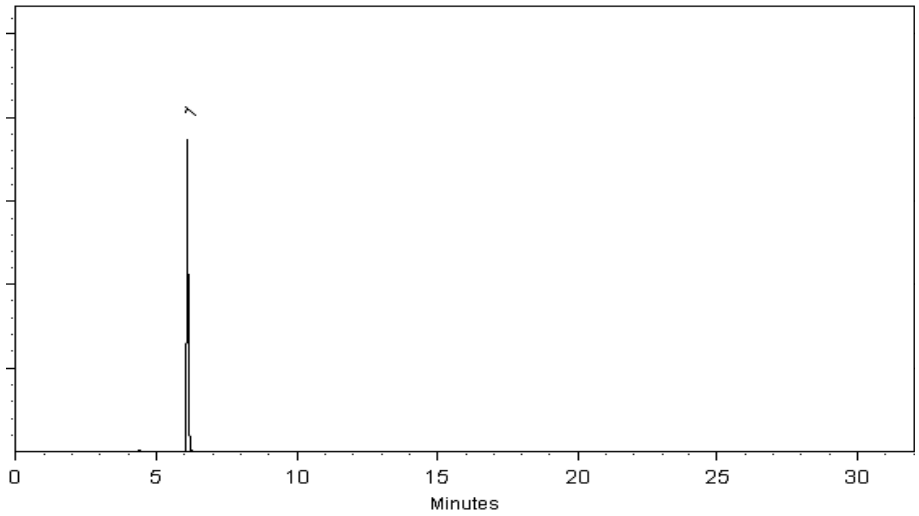
Inj. Temp:
200°C

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.

Malina Homan - Operations Technician I

Date Mixed: 26-Mar-2024 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 01-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_00049

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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. : 568720 **Lot No.:** A0209476

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 : September 30, 2025 **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	RP240118CTH	99%	19,917.5 µg/mL	+/- 585.1357

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

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.)

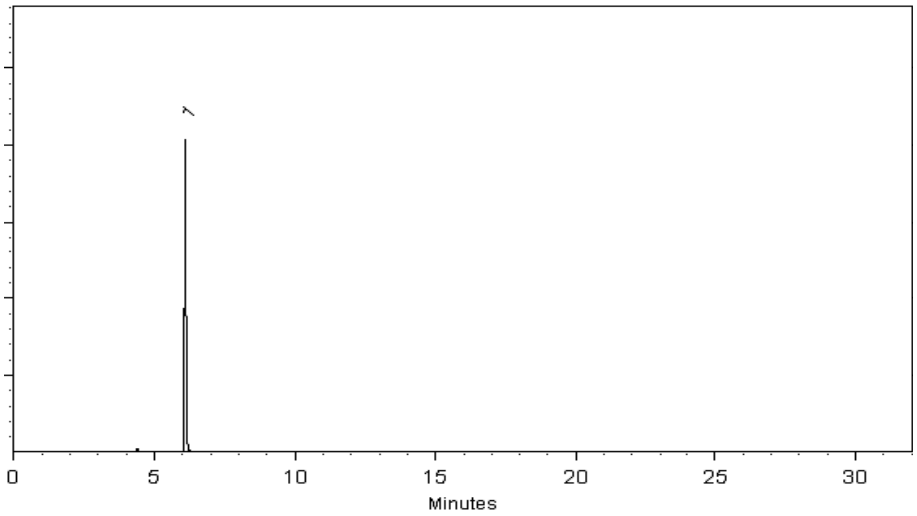
Inj. Temp:
200°C

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: 26-Mar-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 01-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569721.sec_00011

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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. : 569721.SEC **Lot No.:** A0194631

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 : February 28, 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	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* 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%

Rev 12/26/23

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.)

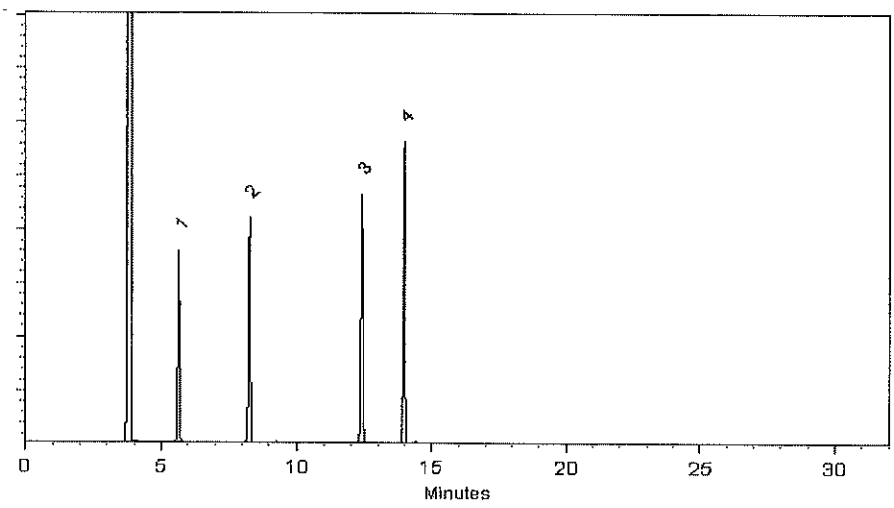
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
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.

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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

Reagent

MV-569721_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. : 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 **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	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%

5/16/23

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.)

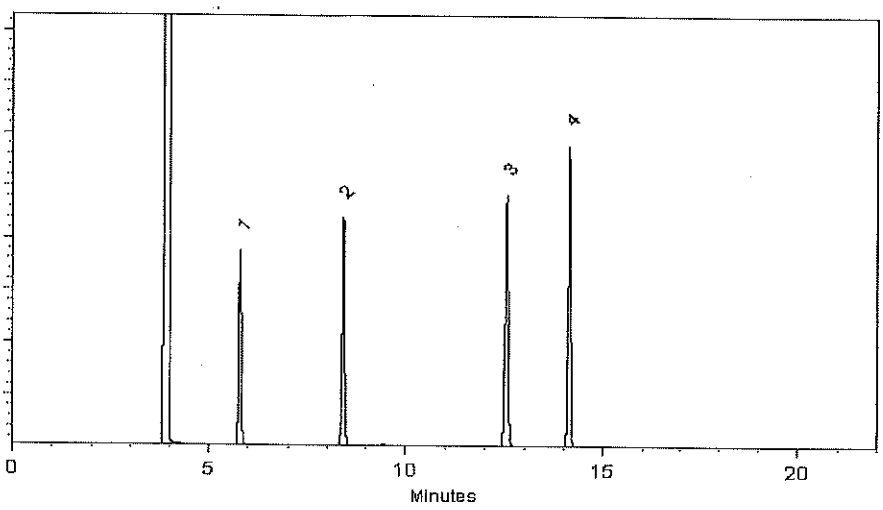
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
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 - Operations Tech I

Date Mixed: 12-Jan-2023 **Balance Serial #** B251644995

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_00018

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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. : 569722.SEC **Lot No.:** A0200059

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 : July 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%	2,498.7 µg/mL	+/- 141.3032
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,499.9 µg/mL	+/- 141.5220
3	Vinyl chloride	75-01-4.SEC	MKBK6872V	99%	2,500.7 µg/mL	+/- 142.8051
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,500.4 µg/mL	+/- 141.3330
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	2,505.7 µg/mL	+/- 141.5475
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,499.8 µg/mL	+/- 141.4404
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,502.0 µg/mL	+/- 140.5657
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,500.7 µg/mL	+/- 142.0532

* 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.**

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.)

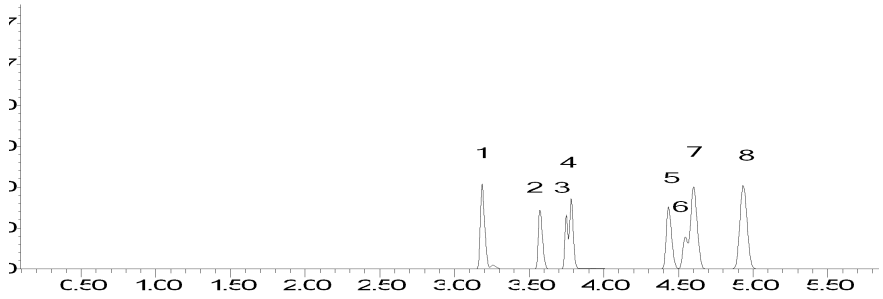
Inj. Temp:
200°C

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.

Brandon Reish - Operations Technician II

Date Mixed: 19-Jul-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Aug-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569722.sec_00019

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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. : 569722.SEC **Lot No.:** A0210106

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 : April 30, 2027 **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	28888	99%	2,508.8 µg/mL	+/- 141.9696
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,503.3 µg/mL	+/- 142.0144
3	Vinyl chloride	75-01-4 *	00015559	99%	2,508.1 µg/mL	+/- 141.5910
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,509.7 µg/mL	+/- 141.7417
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,506.6 µg/mL	+/- 141.4209
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,510.1 µg/mL	+/- 142.2642
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,523.6 µg/mL	+/- 141.7792
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,512.0 µg/mL	+/- 142.1976

* 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.**

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.)

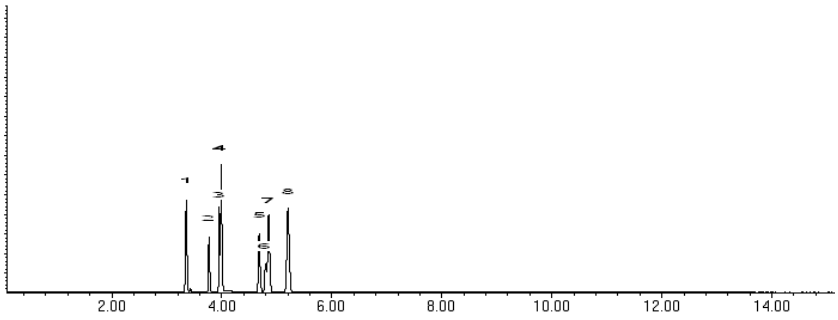
Inj. Temp:
200°C

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.

Michael S. Maye - Operations Tech III

Date Mixed: 10-Apr-2024 **Balance Serial #** 1127510105

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 17-Apr-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569723.sec_00016

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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.SEC **Lot No.:** A0210862

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, 2027 **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%	2,512.0 µg/mL	+/- 31.2623

* 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.

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.)

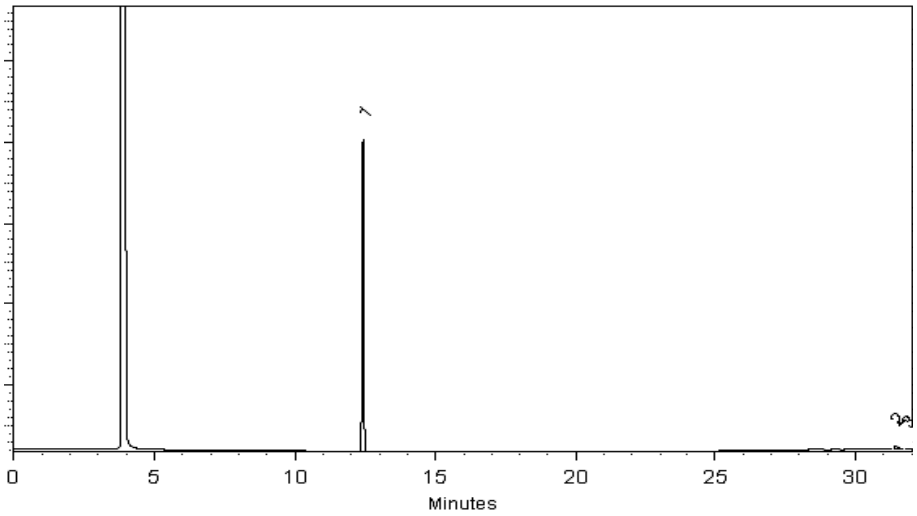
Inj. Temp:
200°C

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.

Ethan Winiarski - Operations Tech I

Date Mixed: 29-Apr-2024 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-569724.sec_00037

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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.SEC **Lot No.:** A0197959

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 : November 30, 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	Vinyl acetate	108-05-4	SEC RD230301RSRA	98%	5,044.4 µg/mL	+/- 174.3571

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.

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.)

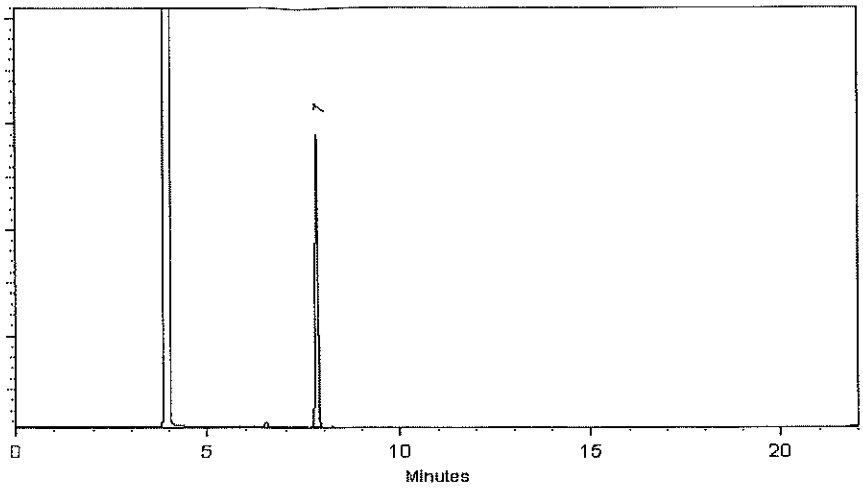
Inj. Temp:
200°C

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.

John Friedline - Operations Technician I

Date Mixed: 11-May-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 17-May-2023

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

Reagent

MV-569724_00037

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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.:** A0200199

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, 2025 **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	Vinyl acetate	108-05-4	RD220630	99%	5,036.0 µg/mL	+/- 174.0672

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.

12/6/23
- 00037

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.)

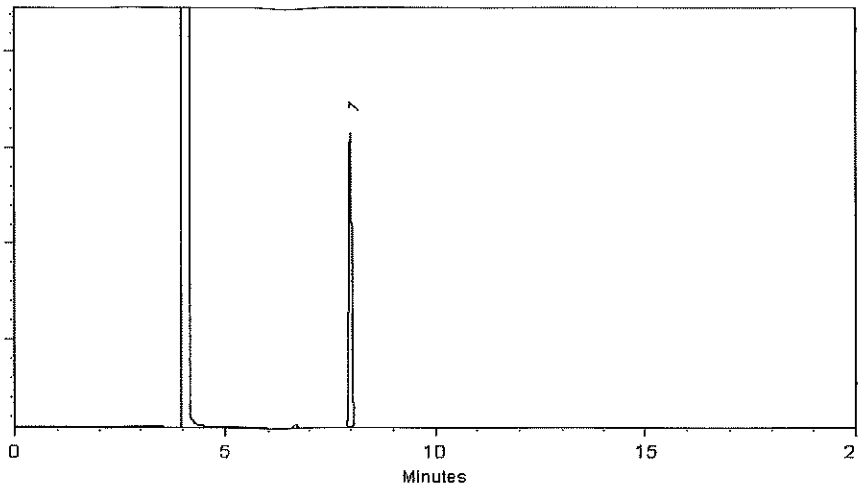
Inj. Temp:
200°C

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: 24-Jul-2023 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 26-Jul-2023

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

Reagent

MV-569727.sec_00013

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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.:** A0195344

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, 2026 **Storage:** 10°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	Cyclohexanone	108-94-1	SEC GA3TF	99%	25,205.1 µg/mL	+/- 871.1479

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rcvd 7/15/23

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.)

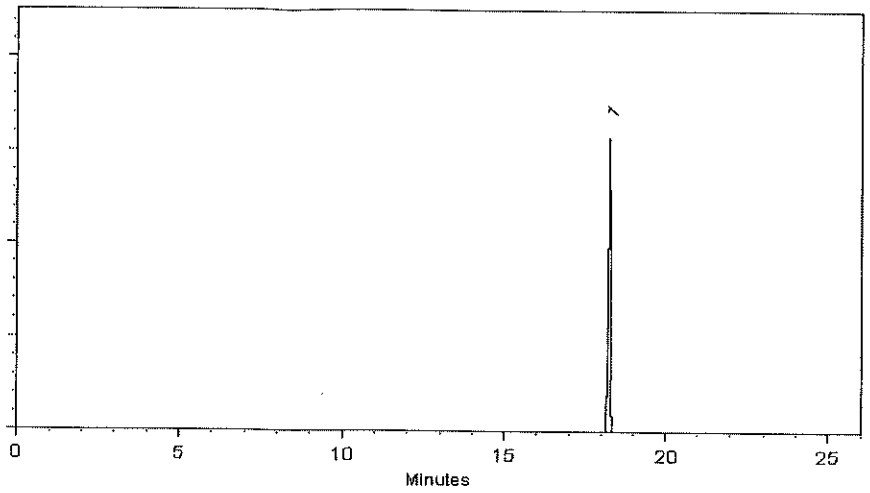
Inj. Temp:
200°C

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.

Jess Hoy - Operations Tech I

Date Mixed: 01-Mar-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Mar-2023

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

Reagent

mv-570808.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. : 570808.SEC **Lot No.:** A0208453

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 : August 31, 2025 **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	7B8ZE	99%	25,003.0 µg/mL	+/- 408.8470
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 *	SYN240122CTH-A	99%	2,502.5 µg/mL	+/- 40.9326
3	Methacrylonitrile	126-98-7 *	1012014	99%	25,003.5 µg/mL	+/- 408.8552
4	2,2,4-Trimethylpentane (Isooctane)	540-84-1.SEC	13202300	99%	2,502.0 µg/mL	+/- 40.9245
5	1-Butanol	71-36-3.SEC	RSHAH	99%	62,502.0 µg/mL	+/- 1,022.0208
6	2-Nitropropane	79-46-9.SEC	F43IA	99%	5,003.5 µg/mL	+/- 81.8168
7	1-Chlorohexane	544-10-5.SEC	13075400	99%	2,501.0 µg/mL	+/- 40.9081
8	1,2,3-Trimethylbenzene	526-73-8.SEC	13921700	98%	2,502.4 µg/mL	+/- 40.9315
9	Benzyl chloride	100-44-7.SEC	H29N03	99%	2,500.0 µg/mL	+/- 40.8917
10	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	2,501.0 µg/mL	+/- 40.9081

* 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.**

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.)

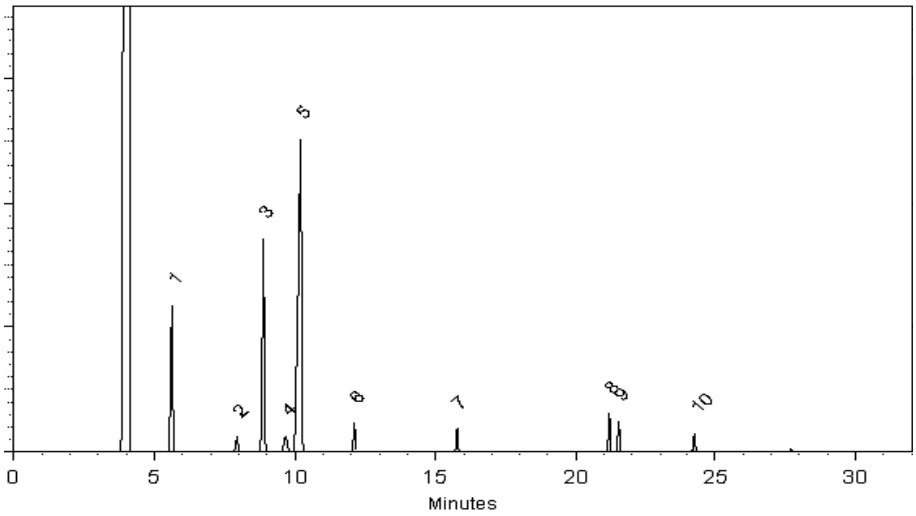
Inj. Temp:
200°C

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.

Michael S. Maye - Operations Tech III

Date Mixed: 28-Feb-2024 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Mar-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-570808_00016

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Catalog No. : 570808 **Lot No.:** A0195733

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 : September 30, 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	SHBP6610	99%	25,144.5 µg/mL	+/- 411.1608
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	220712JLM	99%	2,505.5 µg/mL	+/- 40.9817
3	Methacrylonitrile	126-98-7	1012014	99%	25,171.0 µg/mL	+/- 411.5941
4	2,2,4-Trimethylpentane (isooctane)	540-84-1	MKCF8045	99%	2,511.5 µg/mL	+/- 41.0798
5	1-Butanol	71-36-3	SHBN6854	99%	62,604.0 µg/mL	+/- 1,023.6887
6	2-Nitropropane	79-46-9	BCCB9352	97%	5,028.0 µg/mL	+/- 82.2174
7	1-Chlorohexane	544-10-5	BCBS3368V	99%	2,522.0 µg/mL	+/- 41.2516
8	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	2,523.0 µg/mL	+/- 41.2681
9	Benzyl chloride	100-44-7	MKCM5986	99%	2,509.5 µg/mL	+/- 41.0471
10	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	2,516.5 µg/mL	+/- 41.1616

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

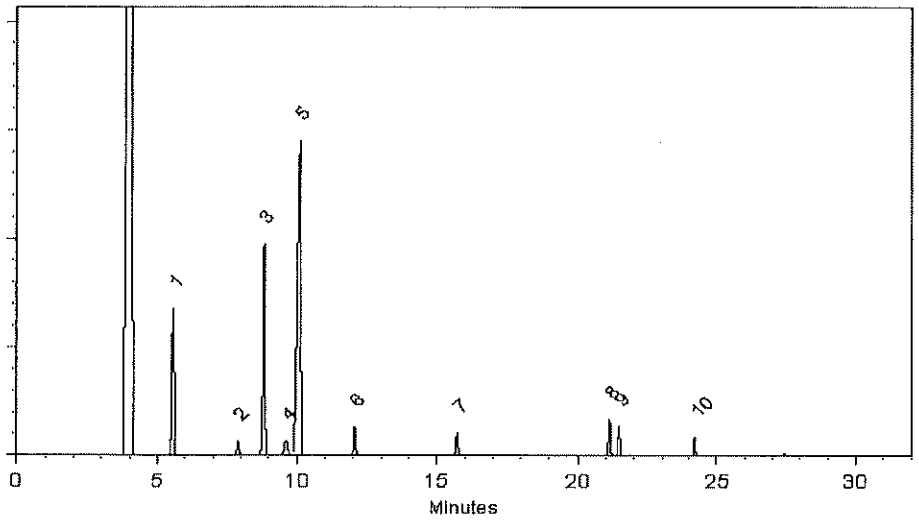
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 10-Mar-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Mar-2023

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

Reagent

mv-570809.sec_00011

RESTEK
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Bellefonte, PA 16823-8812
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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.:** A0194573

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 : August 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	Ethyl acetate	141-78-6.SEC	C386A-GG	99%	5,045.5 µg/mL	+/- 174.3842
2	Ethyl acrylate	140-88-5.SEC	YIFAM-TG	99%	2,522.5 µg/mL	+/- 87.1892
3	Methyl methacrylate	80-62-6.SEC	G01X021	99%	5,043.0 µg/mL	+/- 174.2978
4	Butyl acetate	123-86-4.SEC	V2L2G-GT	99%	2,509.0 µg/mL	+/- 86.7225

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

-00011
Rev 7/11/23

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.)

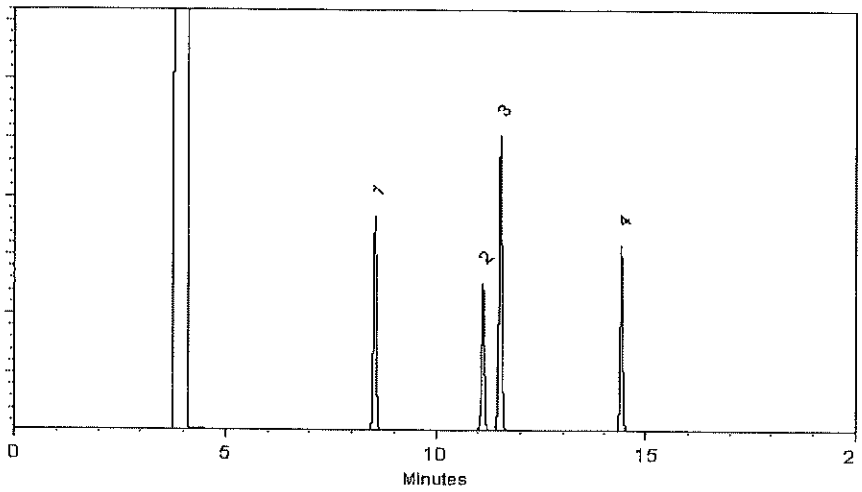
Inj. Temp:
200°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 13-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Feb-2023

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

Reagent

mv-570809_00014

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Bellefonte, PA 16823-8812
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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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. : 570809 **Lot No.:** A0200274

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 : January 31, 2025 **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	Ethyl acetate	141-78-6	SHBP9289	99%	5,031.0 µg/mL	+/- 173.8830
2	Ethyl acrylate	140-88-5	10129902	99%	2,502.5 µg/mL	+/- 86.4979
3	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,000.0 µg/mL	+/- 172.8116
4	Butyl acetate	123-86-4	SHBP6314	99%	2,506.0 µg/mL	+/- 86.6188

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

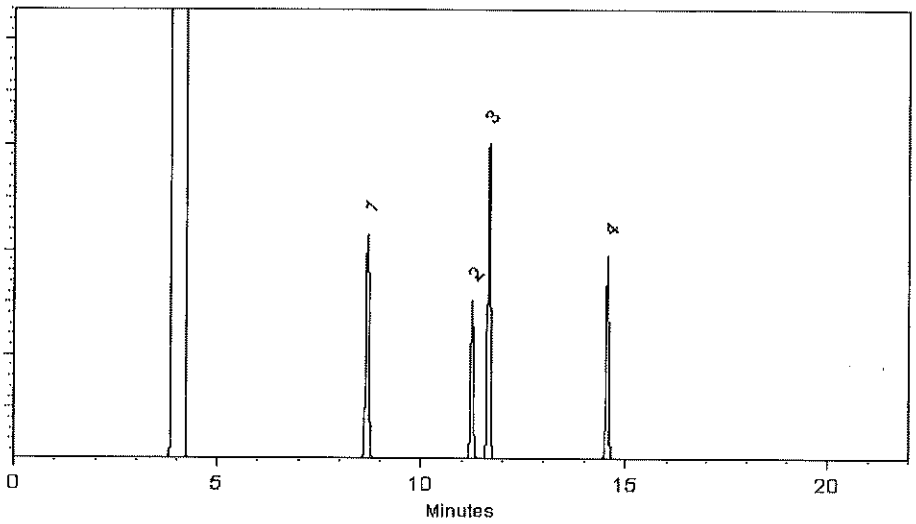
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 25-Jul-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Jul-2023

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

Reagent

MV-571992.sec_00010

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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. : 571992.SEC **Lot No.:** A0195252

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 : August 31, 2025 **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	Diethyl ether (ethyl ether)	60-29-7.SEC	F23X068	99%	2,516.7 µg/mL	+/- 86.9644
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	2,520.0 µg/mL	+/- 87.0795
3	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	2,525.0 µg/mL	+/- 87.2523
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	25,129.5 µg/mL	+/- 868.3580
5	Methyl acetate	79-20-9.SEC	UCNEL	99%	5,029.0 µg/mL	+/- 173.7790
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	2,521.7 µg/mL	+/- 87.1371
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	2,518.2 µg/mL	+/- 87.0162
8	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	2,516.7 µg/mL	+/- 86.9644
9	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	2,511.7 µg/mL	+/- 86.7916
10	Acrylonitrile	107-13-1.SEC	V54AD	99%	25,200.3 µg/mL	+/- 870.8057
11	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	2,517.3 µg/mL	+/- 86.9874
12	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	2,515.3 µg/mL	+/- 86.9183
13	n-Hexane (C6)	110-54-3.SEC	10188491	99%	2,514.7 µg/mL	+/- 86.8953
14	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	2,512.6 µg/mL	+/- 86.8223
15	2,2-Dichloropropane	594-20-7.SEC	GI01	99%	2,521.5 µg/mL	+/- 87.1314
16	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	2,525.0 µg/mL	+/- 87.2523

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	62,830.8	µg/mL	+/-	2,171.1398
18	Chloroform	67-66-3.SEC 1297547	99%	2,511.7	µg/mL	+/-	86.7916
19	Bromochloromethane	74-97-5 * 230206JLM	99%	2,515.7	µg/mL	+/-	86.9298
20	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,018.5	µg/mL	+/-	173.4162
21	1,1,1-Trichloroethane	71-55-6.SEC 13891800	99%	2,506.5	µg/mL	+/-	86.6130
22	Cyclohexane	110-82-7.SEC YADRA	99%	2,523.3	µg/mL	+/-	87.1947
23	1,1-Dichloropropene	563-58-6.SEC 556500	99%	2,520.5	µg/mL	+/-	87.0968
24	Carbon tetrachloride	56-23-5.SEC 11466	99%	2,520.5	µg/mL	+/-	87.0968
25	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	2,516.5	µg/mL	+/-	86.9586
26	1,2-Dichloroethane	107-06-2.SEC 00016165	99%	2,519.8	µg/mL	+/-	87.0738
27	Benzene	71-43-2.SEC 101960P29K	99%	2,518.8	µg/mL	+/-	87.0392
28	Trichloroethene	79-01-6.SEC H04X050	99%	2,524.3	µg/mL	+/-	87.2293
29	Methylcyclohexane	108-87-2.SEC Q02QG	99%	2,515.8	µg/mL	+/-	86.9356
30	1,2-Dichloropropane	78-87-5.SEC ERRBI-RH	99%	2,516.8	µg/mL	+/-	86.9701
31	1,4-Dioxane	123-91-1.SEC QHRWO	99%	50,137.2	µg/mL	+/-	1,732.5061
32	Dibromomethane	74-95-3.SEC MOKKJ	99%	2,516.3	µg/mL	+/-	86.9528
33	cis-1,3-Dichloropropene	10061-01-5.SEC ZLXJ-TJ	99%	2,502.8	µg/mL	+/-	86.4863
34	Toluene	108-88-3.SEC YND2B-BD	99%	2,522.2	µg/mL	+/-	87.1544
35	Ethyl methacrylate	97-63-2.SEC AQSPO	99%	2,510.8	µg/mL	+/-	86.7628
36	trans-1,3-Dichloropropene	10061-02-6.SEC DMSL	98%	2,517.1	µg/mL	+/-	86.9804
37	1,1,2-Trichloroethane	79-00-5.SEC 9245400	99%	2,512.2	µg/mL	+/-	86.8089
38	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	2,519.3	µg/mL	+/-	87.0565
39	Tetrachloroethene	127-18-4.SEC F09W014	99%	2,521.3	µg/mL	+/-	87.1256
40	Dibromochloromethane	124-48-1.SEC 10234064	99%	2,517.5	µg/mL	+/-	86.9932
41	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	2,518.3	µg/mL	+/-	87.0220
42	Chlorobenzene	108-90-7.SEC 1161936	99%	2,515.8	µg/mL	+/-	86.9356
43	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,255.3	µg/mL	+/-	43.3814
44	p-Xylene	106-42-3.SEC D6UOA	99%	1,260.3	µg/mL	+/-	43.5541
45	Ethylbenzene	100-41-4.SEC PI4SE	99%	2,517.7	µg/mL	+/-	86.9989
46	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	2,517.5	µg/mL	+/-	86.9932
47	o-Xylene	95-47-6.SEC UJ6RI	99%	2,515.8	µg/mL	+/-	86.9356
48	Styrene	100-42-5.SEC QGQ7F	99%	2,521.3	µg/mL	+/-	87.1256
49	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	2,515.0	µg/mL	+/-	86.9068
50	Bromoform	75-25-2.SEC 13723500	99%	2,522.5	µg/mL	+/-	87.1659
51	Bromodichloromethane	75-27-4.SEC 28128	99%	2,524.2	µg/mL	+/-	87.2235
52	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	2,523.7	µg/mL	+/-	87.2063

53	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	2,522.2	µg/mL	+/- 87.1544
54	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD230316RSR	96%	2,517.0	µg/mL	+/- 86.9745
55	n-Propylbenzene	103-65-1.SEC XCGEC	99%	2,518.8	µg/mL	+/- 87.0392
56	Bromobenzene	108-86-1.SEC 2FUHG-EM	99%	2,518.3	µg/mL	+/- 87.0220
57	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	2,514.3	µg/mL	+/- 86.8837
58	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	2,515.7	µg/mL	+/- 86.9298
59	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	2,518.8	µg/mL	+/- 87.0392
60	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	2,522.0	µg/mL	+/- 87.1487
61	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	2,517.3	µg/mL	+/- 86.9874
62	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	2,522.0	µg/mL	+/- 87.1487
63	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	2,518.1	µg/mL	+/- 87.0142
64	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	2,515.0	µg/mL	+/- 86.9068
65	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	2,522.5	µg/mL	+/- 87.1659
66	n-Butylbenzene	104-51-8.SEC MMPGA	99%	2,523.7	µg/mL	+/- 87.2063
67	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	2,512.0	µg/mL	+/- 86.8031
68	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	2,517.7	µg/mL	+/- 86.9989
69	1,2,4-Trichlorobenzene	120-82-1.SEC IGLFA	99%	2,515.7	µg/mL	+/- 86.9298
70	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	2,520.4	µg/mL	+/- 87.0928
71	Naphthalene	91-20-3.SEC AM5NG	99%	2,520.0	µg/mL	+/- 87.0795
72	1,2,3-Trichlorobenzene	87-61-6.SEC A0043055	99%	2,517.8	µg/mL	+/- 87.0047

* 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.**

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
hellum-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

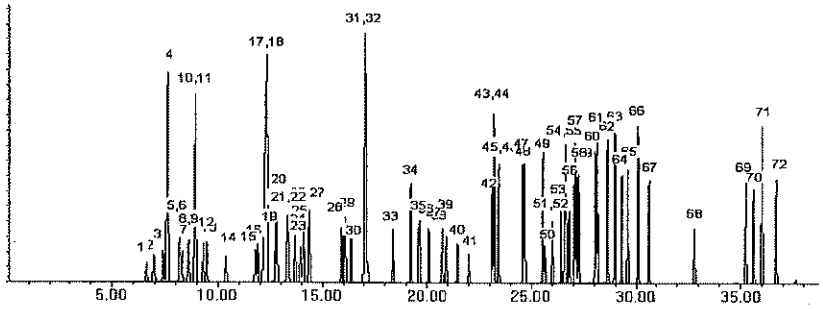
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
20.0 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.

John Friedline - Operations Technician I

Date Mixed: 28-Feb-2023 **Balance Serial #** 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 22-Mar-2023

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

Reagent

MV-571992_00015

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ACCREDITED 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. : 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)		2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBP1417)			+/-	151.6355	µg/mL	Unstressed
	Purity 99%				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide		2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	151.4470	µg/mL	Unstressed
	Purity 99%				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile		25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot SHBK4954)			+/-	1,514.5670	µg/mL	Unstressed
	Purity 99%				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBN6497)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKCP7830)			+/-	151.7486	µg/mL	Unstressed
	Purity 99%				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6)		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 760200)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane		2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot RD211103)			+/-	151.9146	µg/mL	Unstressed
	Purity 99%				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot 098794J01H)			+/-	3,778.9321	µg/mL	Unstressed
	Purity 99%				+/-	3,787.9040	µg/mL	Stressed
18	chloroform		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBN8469)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane		2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	151.8618	µg/mL	Unstressed
	Purity 99%				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran		5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBN3757)			+/-	303.8517	µg/mL	Unstressed
	Purity 99%				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	151.4168	µg/mL	Unstressed
	Purity 99%				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot EA003-US)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride		2,513.5	µg/mL	+/-	14.6137	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	151.6506	µg/mL	Unstressed
	Purity 99%				+/-	152.0106	µg/mL	Stressed
25	n-Heptane (C7)		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SGBL9221)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
26	1,2-Dichloroethane		2,514.4	µg/mL	+/-	14.6188	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	151.7034	µg/mL	Unstressed
	Purity 99%				+/-	152.0636	µg/mL	Stressed
27	Benzene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
28	Trichloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed
29	Methylcyclohexane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	151.4545	µg/mL	Unstressed
	Purity 99%				+/-	151.8141	µg/mL	Stressed
30	1,2-Dichloropropane		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
31	1,4-Dioxane		50,187.5	µg/mL	+/-	291.7792	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM9675)			+/-	3,028.0328	µg/mL	Unstressed
	Purity 99%				+/-	3,035.2219	µg/mL	Stressed
32	Dibromomethane		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD220311)			+/-	151.6657	µg/mL	Unstressed
	Purity 99%				+/-	152.0258	µg/mL	Stressed
34	Toluene		2,518.4	µg/mL	+/-	14.6420	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	151.9447	µg/mL	Unstressed
	Purity 99%				+/-	152.3055	µg/mL	Stressed
35	Ethyl methacrylate		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,504.5	µg/mL	+/-	14.5615	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD211104)			+/-	151.1083	µg/mL	Unstressed
	Purity 98%				+/-	151.4671	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
38	1,3-Dichloropropane		2,513.6	µg/mL	+/-	14.6144	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	151.6581	µg/mL	Unstressed
	Purity 99%				+/-	152.0182	µg/mL	Stressed
39	Tetrachloroethene		2,507.5	µg/mL	+/-	14.5788	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	151.2886	µg/mL	Unstressed
	Purity 99%				+/-	151.6478	µg/mL	Stressed

40	dibromochloromethane		2,514.8	µg/mL	+/-	14.6210	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	151.7260	µg/mL	Unstressed
	Purity 99%				+/-	152.0862	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,513.9	µg/mL	+/-	14.6159	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCCF5058)			+/-	151.6732	µg/mL	Unstressed
	Purity 99%				+/-	152.0333	µg/mL	Stressed
42	Chlorobenzene		2,507.9	µg/mL	+/-	14.5810	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	151.3112	µg/mL	Unstressed
	Purity 99%				+/-	151.6704	µg/mL	Stressed
43	m-Xylene		1,260.0	µg/mL	+/-	7.3257	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot Q13G020)			+/-	76.0214	µg/mL	Unstressed
	Purity 99%				+/-	76.2019	µg/mL	Stressed
44	p-Xylene		1,258.6	µg/mL	+/-	7.3178	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	75.9384	µg/mL	Unstressed
	Purity 99%				+/-	76.1187	µg/mL	Stressed
45	Ethylbenzene		2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	151.8014	µg/mL	Unstressed
	Purity 99%				+/-	152.1618	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,519.1	µg/mL	+/-	14.6464	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot TMWGK)			+/-	151.9900	µg/mL	Unstressed
	Purity 99%				+/-	152.3508	µg/mL	Stressed
47	o-Xylene		2,513.5	µg/mL	+/-	14.6134	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBN5105)			+/-	151.6479	µg/mL	Unstressed
	Purity 98%				+/-	152.0079	µg/mL	Stressed
48	Styrene		2,509.1	µg/mL	+/-	14.5883	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	151.3866	µg/mL	Unstressed
	Purity 99%				+/-	151.7460	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,518.5	µg/mL	+/-	14.6428	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	151.9523	µg/mL	Unstressed
	Purity 99%				+/-	152.3130	µg/mL	Stressed
50	bromoform		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	151.5001	µg/mL	Unstressed
	Purity 98%				+/-	151.8597	µg/mL	Stressed
51	bromodichloromethane		2,518.1	µg/mL	+/-	14.6406	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	151.9296	µg/mL	Unstressed
	Purity 99%				+/-	152.2903	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,512.5	µg/mL	+/-	14.6079	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	151.5903	µg/mL	Unstressed
	Purity 99%				+/-	151.9502	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,511.8	µg/mL	+/-	14.6038	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD220405A)			+/-	151.5480	µg/mL	Unstressed
	Purity 95%				+/-	151.9078	µg/mL	Stressed
55	n-Propylbenzene		2,515.6	µg/mL	+/-	14.6261	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCN1126)			+/-	151.7788	µg/mL	Unstressed
	Purity 99%				+/-	152.1392	µg/mL	Stressed

56	Bromobenzene		2,516.9	µg/mL	+/-	14.6333	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.8542	µg/mL	Unstressed
	Purity 99%				+/-	152.2147	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,512.3	µg/mL	+/-	14.6064	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	151.5752	µg/mL	Unstressed
	Purity 99%				+/-	151.9350	µg/mL	Stressed
58	2-Chlorotoluene		2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	151.4922	µg/mL	Unstressed
	Purity 99%				+/-	151.8519	µg/mL	Stressed
59	4-Chlorotoluene		2,513.1	µg/mL	+/-	14.6115	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	151.6280	µg/mL	Unstressed
	Purity 99%				+/-	151.9880	µg/mL	Stressed
60	tert-Butylbenzene		2,514.6	µg/mL	+/-	14.6202	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	151.7185	µg/mL	Unstressed
	Purity 99%				+/-	152.0787	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,517.1	µg/mL	+/-	14.6348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	151.8696	µg/mL	Unstressed
	Purity 98%				+/-	152.2302	µg/mL	Stressed
62	sec-Butylbenzene		2,519.3	µg/mL	+/-	14.6471	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	151.9975	µg/mL	Unstressed
	Purity 99%				+/-	152.3584	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,512.0	µg/mL	+/-	14.6050	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	151.5601	µg/mL	Unstressed
	Purity 99%				+/-	151.9199	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	151.7713	µg/mL	Unstressed
	Purity 99%				+/-	152.1316	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,513.4	µg/mL	+/-	14.6130	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	151.6431	µg/mL	Unstressed
	Purity 99%				+/-	152.0031	µg/mL	Stressed
66	n-Butylbenzene		2,511.0	µg/mL	+/-	14.5992	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	151.4998	µg/mL	Unstressed
	Purity 99%				+/-	151.8594	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	151.5224	µg/mL	Unstressed
	Purity 99%				+/-	151.8821	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,512.4	µg/mL	+/-	14.6074	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	151.5855	µg/mL	Unstressed
	Purity 97%				+/-	151.9454	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,510.4	µg/mL	+/-	14.5955	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	151.4620	µg/mL	Unstressed
	Purity 99%				+/-	151.8216	µg/mL	Stressed
70	Hexachlorobutadiene		2,509.3	µg/mL	+/-	14.5890	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	151.3942	µg/mL	Unstressed
	Purity 99%				+/-	151.7536	µg/mL	Stressed
71	Naphthalene		2,520.6	µg/mL	+/-	14.6551	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	152.0805	µg/mL	Unstressed
	Purity 99%				+/-	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)

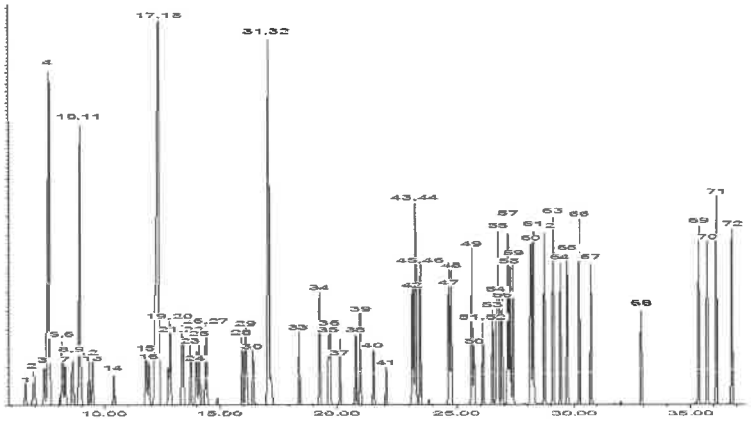
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 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.

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_00009

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

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.SEC **Lot No.:** A0195116

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 : February 28, 2025 **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	Acetonitrile	75-05-8.SEC	3ZDOE	99%	25,115.0 µg/mL	+/- 410.6784
2	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	2,520.0 µg/mL	+/- 41.2189
3	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	2,518.6 µg/mL	+/- 41.1960
4	Propionitrile	107-12-0.SEC	B4ZPC	99%	25,148.0 µg/mL	+/- 411.2180
5	tert-Amyl alcohol	75-85-4.SEC	FO4AK	99%	25,121.0 µg/mL	+/- 410.7765
6	tert-Amyl methyl ether (TAME)	994-05-8.SEC	12075100	98%	2,515.7 µg/mL	+/- 41.1479

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

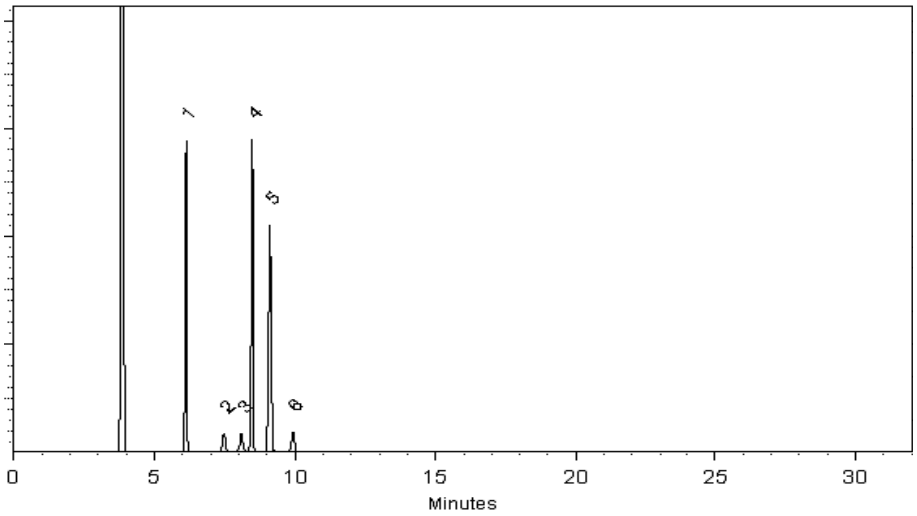
Inj. Temp:
200°C

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.

Malina Homan - Operations Technician I

Date Mixed: 24-Feb-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Feb-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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-571993_00010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571993 **Lot No.:** A0194786

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 : February 28, 2025 **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	Acetonitrile	75-05-8	SHBH6233	99%	25,178.4 µg/mL	+/- 411.7151
2	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	2,519.2 µg/mL	+/- 41.2058
3	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	2,512.8 µg/mL	+/- 41.1011
4	Propionitrile	107-12-0	BCCF4167	99%	25,095.6 µg/mL	+/- 410.3612
5	tert-Amyl alcohol	75-85-4	STBB1898V	99%	25,105.6 µg/mL	+/- 410.5247
6	tert-Amyl methyl ether (TAME)	994-05-8	HMBG7745V	99%	2,514.0 µg/mL	+/- 41.1207

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

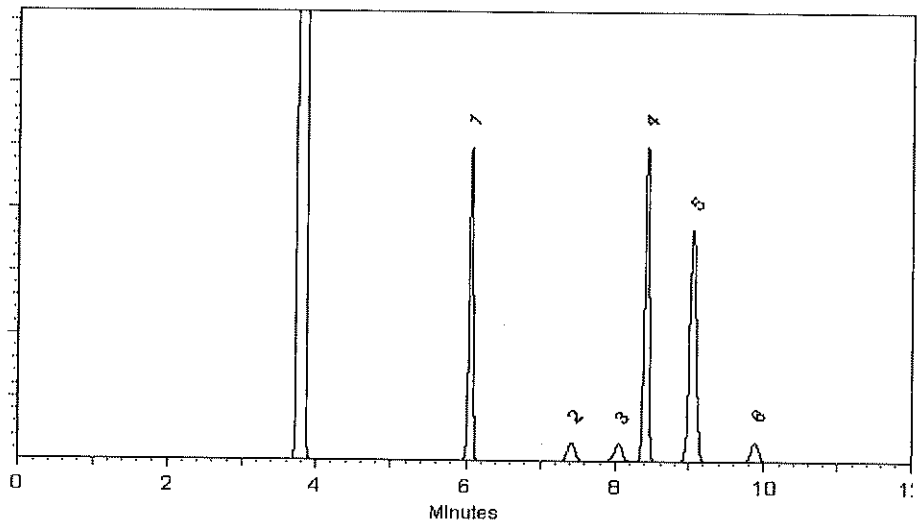
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 17-Feb-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Feb-2023

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

Reagent

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mv-571994.sec_00007

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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. : 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%

12/5/22

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

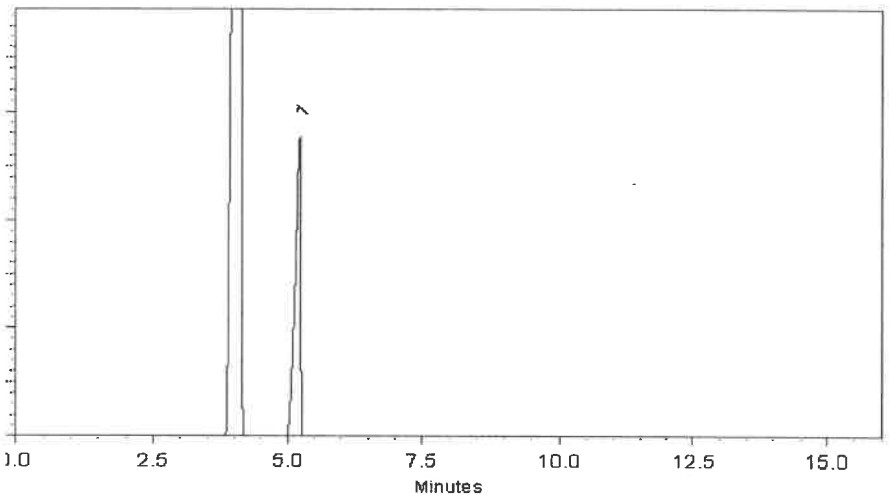
Carrier Gas:
hydrogen-constant pressure 11 psi.

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-CUS17739.s_00013

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Custom Standard

Product Number: CUS-17739

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006765276

Lot Issue Date: 03-Oct-2023

Expiration Date: 30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1005	±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4014	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30122	±	151 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:
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.

Agilent

Trusted Answers

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

ANAB
ANSI National Accreditation Board
ACCREDITED
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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Certificate #3222.01

ACCREDITED
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. : 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	2,510.9 µg/mL	+/- 14.5983 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 140.7809 µg/mL	Unstressed
	Purity 99%		+/- 144.0750 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,518.0 µg/mL	+/- 14.6399 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 141.1818 µg/mL	Unstressed
	Purity 99%		+/- 144.4852 µg/mL	Stressed
3	Toluene-d8	2,500.4 µg/mL	+/- 14.5375 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31750)		+/- 140.1949 µg/mL	Unstressed
	Purity 99%		+/- 143.4753 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,520.9 µg/mL	+/- 14.6567 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 141.3444 µg/mL	Unstressed
	Purity 99%		+/- 144.6516 µg/mL	Stressed

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

Rcvd 4/5/20

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

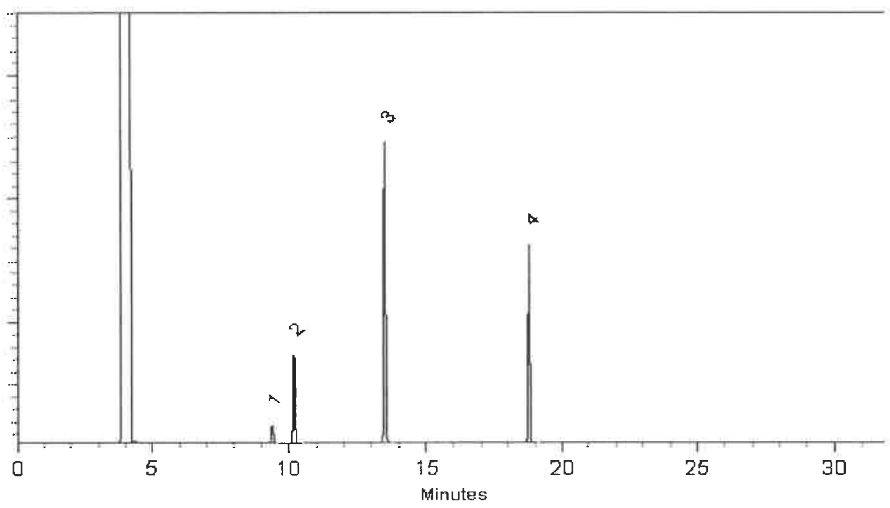
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Z-020209-01.b_00002

2nd

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by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020209-01-SS	492314	-18°C +/- 4°C	P/T Methanol	11/15/2024	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 ± 12.61

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
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 gravimetricly.

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

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 #
PA-8-77-87-20240725	280-194612-1	97	105	104	109
PA-8-77-87-Q-20240725	280-194612-2	97	103	104	101
PA-3-20240725	280-194612-3	99	104	102	103
PA-4-100-110-20240725	280-194612-4	99	105	102	102
PA-1-20240725	280-194612-5	98	102	102	103
TB-01-20240725	280-194612-6	96	99	105	104
	MB 280-662478/9	99	101	102	103
	LCS 280-662478/4	98	96	99	99
	LCS 280-662478/6	99	100	102	104
	LCSD 280-662478/5	99	99	101	100
	LCSD 280-662478/7	97	101	102	105
PA-3-20240725 MS	280-194612-3 MS	98	101	101	100
PA-3-20240725 MSD	280-194612-3 MSD	99	101	99	98

	QC LIMITS
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 II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14335A.D

Lab ID: LCS 280-662478/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	50.4	101	80-124	
1,1,1-Trichloroethane	50.0	49.4	99	80-123	
1,1,2,2-Tetrachloroethane	50.0	49.7	99	74-123	
1,1,2-Trichloroethane	50.0	48.3	97	80-120	
1,1-Dichloroethane	50.0	53.2	106	78-121	
1,1-Dichloroethene	50.0	50.7	101	77-121	
1,1-Dichloropropene	50.0	52.5	105	77-123	
1,2,3-Trichloropropane	50.0	49.6	99	80-120	
1,2,4-Trichlorobenzene	50.0	52.0	104	74-126	
1,2-Dibromo-3-Chloropropane	50.0	45.7	91	73-128	
1,2-Dibromoethane	50.0	50.4	101	80-120	
1,2-Dichlorobenzene	50.0	51.3	103	80-120	
1,2-Dichloroethane	50.0	50.7	101	71-121	
1,2-Dichloropropane	50.0	53.4	107	78-120	
1,3-Dichlorobenzene	50.0	53.0	106	80-120	
1,3-Dichloropropane	50.0	51.8	104	77-122	
1,4-Dichlorobenzene	50.0	51.3	103	80-120	
2,2-Dichloropropane	50.0	53.5	107	75-131	
2-Butanone (MEK)	200	170	85	58-135	
2-Hexanone	200	189	95	62-137	
4-Methyl-2-pentanone (MIBK)	200	191	96	66-135	
Acetone	200	172	86	61-134	
Acrolein	494	483	98	31-174	
Acrylonitrile	500	459	92	70-126	
Allyl chloride	50.0	55.3	111	65-132	
Benzene	50.0	52.0	104	80-120	
Bromoform	50.0	47.3	95	79-138	
Bromomethane	50.0	61.6	123	29-148	
Carbon disulfide	50.0	52.1	104	70-121	
Carbon tetrachloride	50.0	50.9	102	79-127	
Chlorobenzene	50.0	51.0	102	80-120	
Chlorobromomethane	50.0	52.6	105	80-123	
Chlorodibromomethane	50.0	50.1	100	80-125	
Chloroethane	50.0	47.0	94	56-141	
Chloroform	50.0	50.9	102	80-120	
Chloromethane	50.0	55.2	110	56-133	
cis-1,2-Dichloroethene	50.0	47.6	95	80-120	
cis-1,3-Dichloropropene	50.0	54.0	108	76-129	
Dibromomethane	50.0	49.8	100	80-120	
Dichlorobromomethane	50.0	52.5	105	80-123	
Dichlorodifluoromethane	50.0	46.5	93	47-135	
Ethyl methacrylate	50.0	47.1	94	80-122	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14335A.D

Lab ID: LCS 280-662478/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	50.0	52.3	105	80-120	
Iodomethane	50.0	48.6	97	43-139	
Isobutyl alcohol	1250	1030	83	46-146	
Methylene Chloride	50.0	51.7	103	78-120	
m-Xylene & p-Xylene	50.0	53.0	106	80-120	
o-Xylene	50.0	51.4	103	80-120	
Styrene	50.0	47.7	95	80-120	
Tetrachloroethene	50.0	49.2	98	80-121	
Toluene	50.0	51.0	102	80-120	
trans-1,2-Dichloroethene	50.0	50.4	101	79-121	
trans-1,3-Dichloropropene	50.0	47.9	96	80-123	
trans-1,4-Dichloro-2-butene	50.0	48.3	97	51-138	
Trichloroethene	50.0	50.4	101	80-120	
Trichlorofluoromethane	50.0	48.2	96	54-144	
Vinyl acetate	100	129	129	55-161	
Vinyl chloride	50.0	50.0	100	67-127	
Xylenes, Total	100	104	104	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14336B.D

Lab ID: LCS 280-662478/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetonitrile	250	201	80	23-155	
Chloroprene	25.0	24.9	100	47-146	
Methacrylonitrile	250	257	103	42-142	
Methyl methacrylate	50.0	43.8	88	60-133	
Propionitrile	250	201	81	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14337.D

Lab ID: LCSD 280-662478/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.2	104	4	20	80-124	
1,1,1-Trichloroethane	50.0	48.6	97	2	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	52.2	104	5	20	74-123	
1,1,2-Trichloroethane	50.0	49.9	100	3	20	80-120	
1,1-Dichloroethane	50.0	51.2	102	4	20	78-121	
1,1-Dichloroethene	50.0	47.2	94	7	21	77-121	
1,1-Dichloropropene	50.0	50.5	101	4	20	77-123	
1,2,3-Trichloropropane	50.0	51.9	104	5	20	80-120	
1,2,4-Trichlorobenzene	50.0	51.8	104	0	20	74-126	
1,2-Dibromo-3-Chloropropane	50.0	47.7	95	4	21	73-128	
1,2-Dibromoethane	50.0	52.3	105	4	20	80-120	
1,2-Dichlorobenzene	50.0	51.1	102	0	20	80-120	
1,2-Dichloroethane	50.0	52.1	104	3	20	71-121	
1,2-Dichloropropane	50.0	53.2	106	0	20	78-120	
1,3-Dichlorobenzene	50.0	53.0	106	0	20	80-120	
1,3-Dichloropropane	50.0	53.8	108	4	20	77-122	
1,4-Dichlorobenzene	50.0	51.5	103	0	20	80-120	
2,2-Dichloropropane	50.0	50.1	100	7	22	75-131	
2-Butanone (MEK)	200	179	89	5	20	58-135	
2-Hexanone	200	212	106	11	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	208	104	8	20	66-135	
Acetone	200	178	89	4	21	61-134	
Acrolein	494	481	97	0	23	31-174	
Acrylonitrile	500	462	92	1	20	70-126	
Allyl chloride	50.0	53.7	107	3	20	65-132	
Benzene	50.0	51.0	102	2	20	80-120	
Bromoform	50.0	50.0	100	5	20	79-138	
Bromomethane	50.0	57.7	115	7	40	29-148	
Carbon disulfide	50.0	46.8	94	11	20	70-121	
Carbon tetrachloride	50.0	49.4	99	3	20	79-127	
Chlorobenzene	50.0	51.5	103	1	20	80-120	
Chlorobromomethane	50.0	50.8	102	3	20	80-123	
Chlorodibromomethane	50.0	51.3	103	2	20	80-125	
Chloroethane	50.0	45.0	90	4	30	56-141	
Chloroform	50.0	49.8	100	2	20	80-120	
Chloromethane	50.0	46.6	93	17	20	56-133	
cis-1,2-Dichloroethene	50.0	45.6	91	4	20	80-120	
cis-1,3-Dichloropropene	50.0	53.6	107	1	20	76-129	
Dibromomethane	50.0	49.3	99	1	20	80-120	
Dichlorobromomethane	50.0	51.9	104	1	20	80-123	
Dichlorodifluoromethane	50.0	39.5	79	16	21	47-135	
Ethyl methacrylate	50.0	50.6	101	7	20	80-122	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14337.D

Lab ID: LCSD 280-662478/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	50.0	52.7	105	1	20	80-120	
Iodomethane	50.0	42.3	85	14	38	43-139	
Isobutyl alcohol	1250	1160	93	12	30	46-146	
Methylene Chloride	50.0	49.2	98	5	20	78-120	
m-Xylene & p-Xylene	50.0	52.0	104	2	20	80-120	
o-Xylene	50.0	52.0	104	1	20	80-120	
Styrene	50.0	48.2	96	1	20	80-120	
Tetrachloroethene	50.0	49.5	99	1	20	80-121	
Toluene	50.0	50.0	100	2	20	80-120	
trans-1,2-Dichloroethene	50.0	48.6	97	4	20	79-121	
trans-1,3-Dichloropropene	50.0	47.9	96	0	20	80-123	
trans-1,4-Dichloro-2-butene	50.0	51.4	103	6	24	51-138	
Trichloroethene	50.0	49.2	98	3	20	80-120	
Trichlorofluoromethane	50.0	47.8	96	1	28	54-144	
Vinyl acetate	100	130	130	0	23	55-161	
Vinyl chloride	50.0	46.7	93	7	25	67-127	
Xylenes, Total	100	104	104	0	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14338.D

Lab ID: LCSD 280-662478/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetonitrile	250	195	78	3	20	23-155	
Chloroprene	25.0	24.7	99	1	20	47-146	
Methacrylonitrile	250	262	105	2	20	42-142	
Methyl methacrylate	50.0	42.0	84	4	20	60-133	
Propionitrile	250	204	81	1	20	45-144	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14356.D

Lab ID: 280-194612-3 MS Client ID: PA-3-20240725 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	50.3	101	80-124	
1,1,1-Trichloroethane	50.0	ND	46.3	93	80-123	
1,1,2,2-Tetrachloroethane	50.0	ND	55.0	110	74-123	
1,1,2-Trichloroethane	50.0	ND	49.4	99	80-120	
1,1-Dichloroethane	50.0	ND	49.1	98	78-121	
1,1-Dichloroethene	50.0	ND	43.1	86	77-121	
1,1-Dichloropropene	50.0	ND	48.0	96	77-123	
1,2,3-Trichloropropane	50.0	ND	53.6	107	80-120	
1,2,4-Trichlorobenzene	50.0	ND	52.7	105	74-126	
1,2-Dibromo-3-Chloropropane	50.0	ND	53.0	106	73-128	
1,2-Dibromoethane	50.0	ND	51.5	103	80-120	
1,2-Dichlorobenzene	50.0	ND	50.5	101	80-120	
1,2-Dichloroethane	50.0	ND	48.9	98	71-121	
1,2-Dichloropropane	50.0	ND	51.2	102	78-120	
1,3-Dichlorobenzene	50.0	ND	51.2	102	80-120	
1,3-Dichloropropane	50.0	ND	53.1	106	77-122	
1,4-Dichlorobenzene	50.0	ND	48.6	97	80-120	
2,2-Dichloropropane	50.0	ND	43.0	86	75-131	
2-Butanone (MEK)	200	ND	200	100	58-135	
2-Hexanone	200	ND	236	118	62-137	
4-Methyl-2-pentanone (MIBK)	200	ND	226	113	66-135	
Acetone	200	ND	193	96	61-134	
Acrolein	494	ND	469	95	31-174	
Acrylonitrile	500	ND	505	101	70-126	
Allyl chloride	50.0	ND	50.4	101	65-132	
Benzene	50.0	ND	48.6	97	80-120	
Bromoform	50.0	ND	49.6	99	79-138	
Bromomethane	50.0	ND	57.7	115	29-148	
Carbon disulfide	50.0	ND	42.1	84	70-121	
Carbon tetrachloride	50.0	ND	46.0	92	79-127	
Chlorobenzene	50.0	ND	49.7	99	80-120	
Chlorobromomethane	50.0	ND	48.2	96	80-123	
Chlorodibromomethane	50.0	ND	50.4	101	80-125	
Chloroethane	50.0	ND	44.4	89	56-141	
Chloroform	50.0	ND	47.7	95	80-120	
Chloromethane	50.0	ND	44.2	88	56-133	
cis-1,2-Dichloroethene	50.0	ND	43.4	87	80-120	
cis-1,3-Dichloropropene	50.0	ND	50.7	101	76-129	
Dibromomethane	50.0	ND	48.7	97	80-120	
Dichlorobromomethane	50.0	ND	49.7	99	80-123	
Dichlorodifluoromethane	50.0	ND	39.8	80	47-135	
Ethyl methacrylate	50.0	ND	51.7	103	80-122	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14356.D

Lab ID: 280-194612-3 MS Client ID: PA-3-20240725 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Ethylbenzene	50.0	ND	49.7	99	80-120	
Iodomethane	50.0	ND	36.6	73	43-139	
Isobutyl alcohol	1250	ND	1440	115	46-146	
Methylene Chloride	50.0	ND	45.9	92	78-120	
m-Xylene & p-Xylene	50.0	ND	49.8	100	80-120	
o-Xylene	50.0	ND	49.9	100	80-120	
Styrene	50.0	ND	46.7	93	80-120	
Tetrachloroethene	50.0	ND	47.1	94	80-121	
Toluene	50.0	ND	47.8	96	80-120	
trans-1,2-Dichloroethene	50.0	ND	46.1	92	79-121	
trans-1,3-Dichloropropene	50.0	ND	45.6	91	80-123	
trans-1,4-Dichloro-2-butene	50.0	ND	50.8	102	51-138	
Trichloroethene	50.0	1.6	48.8	94	80-120	
Trichlorofluoromethane	50.0	ND	43.1	86	54-144	
Vinyl acetate	100	ND	131	131	55-161	
Vinyl chloride	50.0	ND	46.3	93	67-127	
Xylenes, Total	100	ND	99.7	100	80-120	

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.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14357.D

Lab ID: 280-194612-3 MSD Client ID: PA-3-20240725 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.4	103	2	20	80-124	
1,1,1-Trichloroethane	50.0	46.3	93	0	20	80-123	
1,1,2,2-Tetrachloroethane	50.0	56.2	112	2	20	74-123	
1,1,2-Trichloroethane	50.0	52.1	104	5	20	80-120	
1,1-Dichloroethane	50.0	51.3	103	4	20	78-121	
1,1-Dichloroethene	50.0	42.5	85	2	21	77-121	
1,1-Dichloropropene	50.0	47.2	94	2	20	77-123	
1,2,3-Trichloropropane	50.0	54.7	109	2	20	80-120	
1,2,4-Trichlorobenzene	50.0	56.8	114	8	20	74-126	
1,2-Dibromo-3-Chloropropane	50.0	55.8	112	5	21	73-128	
1,2-Dibromoethane	50.0	52.6	105	2	20	80-120	
1,2-Dichlorobenzene	50.0	52.8	106	4	20	80-120	
1,2-Dichloroethane	50.0	51.4	103	5	20	71-121	
1,2-Dichloropropane	50.0	53.4	107	4	20	78-120	
1,3-Dichlorobenzene	50.0	53.6	107	5	20	80-120	
1,3-Dichloropropane	50.0	53.8	108	1	20	77-122	
1,4-Dichlorobenzene	50.0	50.1	100	3	20	80-120	
2,2-Dichloropropane	50.0	43.0	86	0	22	75-131	
2-Butanone (MEK)	200	213	106	6	20	58-135	
2-Hexanone	200	237	118	0	21	62-137	
4-Methyl-2-pentanone (MIBK)	200	235	117	4	20	66-135	
Acetone	200	202	101	5	21	61-134	
Acrolein	494	537	109	14	23	31-174	
Acrylonitrile	500	525	105	4	20	70-126	
Allyl chloride	50.0	51.5	103	2	20	65-132	
Benzene	50.0	50.4	101	4	20	80-120	
Bromoform	50.0	50.8	102	2	20	79-138	
Bromomethane	50.0	64.3	129	11	40	29-148	
Carbon disulfide	50.0	42.8	86	2	20	70-121	
Carbon tetrachloride	50.0	45.9	92	0	20	79-127	
Chlorobenzene	50.0	51.6	103	4	20	80-120	
Chlorobromomethane	50.0	52.5	105	9	20	80-123	
Chlorodibromomethane	50.0	51.4	103	2	20	80-125	
Chloroethane	50.0	49.7	99	11	30	56-141	
Chloroform	50.0	50.2	100	5	20	80-120	
Chloromethane	50.0	53.8	108	19	20	56-133	
cis-1,2-Dichloroethene	50.0	44.7	89	3	20	80-120	
cis-1,3-Dichloropropene	50.0	51.5	103	1	20	76-129	
Dibromomethane	50.0	51.5	103	6	20	80-120	
Dichlorobromomethane	50.0	52.0	104	4	20	80-123	
Dichlorodifluoromethane	50.0	44.7	89	11	21	47-135	
Ethyl methacrylate	50.0	52.6	105	2	20	80-122	

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.: 280-194612-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G2_14357.D

Lab ID: 280-194612-3 MSD Client ID: PA-3-20240725 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	50.0	52.1	104	5	20	80-120	
Iodomethane	50.0	41.3	83	12	38	43-139	
Isobutyl alcohol	1250	1540	123	6	30	46-146	
Methylene Chloride	50.0	48.7	97	6	20	78-120	
m-Xylene & p-Xylene	50.0	52.7	105	6	20	80-120	
o-Xylene	50.0	52.2	104	5	20	80-120	
Styrene	50.0	49.0	98	5	20	80-120	
Tetrachloroethene	50.0	46.8	94	1	20	80-121	
Toluene	50.0	50.5	101	6	20	80-120	
trans-1,2-Dichloroethene	50.0	46.4	93	1	20	79-121	
trans-1,3-Dichloropropene	50.0	48.0	96	5	20	80-123	
trans-1,4-Dichloro-2-butene	50.0	51.5	103	1	24	51-138	
Trichloroethene	50.0	48.3	93	1	20	80-120	
Trichlorofluoromethane	50.0	48.6	97	12	28	54-144	
Vinyl acetate	100	133	133	2	23	55-161	
Vinyl chloride	50.0	52.6	105	13	25	67-127	
Xylenes, Total	100	105	105	5	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab File ID: G2_14340.D Lab Sample ID: MB 280-662478/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_G2 Date Analyzed: 08/01/2024 11:26

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 280-662478/4	G2_14335A.D	08/01/2024 09:43
	LCS 280-662478/6	G2_14336B.D	08/01/2024 10:04
	LCSD 280-662478/5	G2_14337.D	08/01/2024 10:24
	LCSD 280-662478/7	G2_14338.D	08/01/2024 10:45
TB-01-20240725	280-194612-6	G2_14342.D	08/01/2024 12:08
PA-8-77-87-20240725	280-194612-1	G2_14347.D	08/01/2024 13:53
PA-8-77-87-Q-20240725	280-194612-2	G2_14348.D	08/01/2024 14:14
PA-3-20240725	280-194612-3	G2_14349.D	08/01/2024 14:35
PA-4-100-110-20240725	280-194612-4	G2_14350.D	08/01/2024 14:56
PA-1-20240725	280-194612-5	G2_14351.D	08/01/2024 15:17
PA-3-20240725 MS	280-194612-3 MS	G2_14356.D	08/01/2024 17:02
PA-3-20240725 MSD	280-194612-3 MSD	G2_14357.D	08/01/2024 17:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab File ID: G2_14229.D BFB Injection Date: 07/30/2024

Instrument ID: VMS_G2 BFB Injection Time: 09:38

Analysis Batch No.: 662184

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	46.5	
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	82.8	
175	5.0 - 9.0 % of mass 174	6.3	(7.6) 1
176	95.0 - 101.0 % of mass 174	79.3	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.0	(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
	STD05 280-662184/27	G2_14230.D	07/30/2024	11:58
	STD1 280-662184/28	G2_14231.D	07/30/2024	12:19
	STD2 280-662184/29	G2_14232.D	07/30/2024	12:40
	STD5 280-662184/30	G2_14233.D	07/30/2024	13:01
	STD10 280-662184/31	G2_14234.D	07/30/2024	13:22
	ICIS 280-662184/32	G2_14235.D	07/30/2024	13:43
	STD75 280-662184/33	G2_14236.D	07/30/2024	14:04
	STD100 280-662184/34	G2_14237.D	07/30/2024	14:25
	STD200 280-662184/35	G2_14238.D	07/30/2024	14:46
	ICV 280-662184/37	G2_14240.D	07/30/2024	15:29
	STD1 280-662184/39	G2_14243.D	07/30/2024	16:31
	STD2 280-662184/40	G2_14244.D	07/30/2024	16:52
	STD5 280-662184/41	G2_14245.D	07/30/2024	17:13
	STD10 280-662184/42	G2_14246.D	07/30/2024	17:34
	STD50 280-662184/43	G2_14247.D	07/30/2024	17:56
	STD75 280-662184/44	G2_14248.D	07/30/2024	18:17
	STD100 280-662184/45	G2_14249.D	07/30/2024	18:38
	STD200 280-662184/46	G2_14250.D	07/30/2024	18:59
	ICV 280-662184/47	G2_14252.D	07/30/2024	19:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab File ID: G2_14334.D BFB Injection Date: 08/01/2024

Instrument ID: VMS_G2 BFB Injection Time: 09:12

Analysis Batch No.: 662478

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	47.9	
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	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.4	
175	5.0 - 9.0 % of mass 174	6.1	(7.4) 1
176	95.0 - 101.0 % of mass 174	79.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.1) 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 280-662478/2	G2_14335.D	08/01/2024	9:43
	LCS 280-662478/4	G2_14335A.D	08/01/2024	9:43
	CCV 280-662478/3	G2_14336.D	08/01/2024	10:04
	LCS 280-662478/6	G2_14336B.D	08/01/2024	10:04
	LCSD 280-662478/5	G2_14337.D	08/01/2024	10:24
	LCSD 280-662478/7	G2_14338.D	08/01/2024	10:45
	MB 280-662478/9	G2_14340.D	08/01/2024	11:26
TB-01-20240725	280-194612-6	G2_14342.D	08/01/2024	12:08
PA-8-77-87-20240725	280-194612-1	G2_14347.D	08/01/2024	13:53
PA-8-77-87-Q-20240725	280-194612-2	G2_14348.D	08/01/2024	14:14
PA-3-20240725	280-194612-3	G2_14349.D	08/01/2024	14:35
PA-4-100-110-20240725	280-194612-4	G2_14350.D	08/01/2024	14:56
PA-1-20240725	280-194612-5	G2_14351.D	08/01/2024	15:17
PA-3-20240725 MS	280-194612-3 MS	G2_14356.D	08/01/2024	17:02
PA-3-20240725 MSD	280-194612-3 MSD	G2_14357.D	08/01/2024	17:23

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Sample No.: ICIS 280-662184/32 Date Analyzed: 07/30/2024 13:43

Instrument ID: VMS_G2 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): G2_14235.D Heated Purge: (Y/N) N

Calibration ID: 96058

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2185490	4.40	539883	6.86	879748	9.05
UPPER LIMIT		4370980	4.57	1079766	7.03	1759496	9.22
LOWER LIMIT		1092745	4.23	269942	6.69	439874	8.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-662184/37		2242650	4.40	553013	6.86	893150	9.06
CCV 280-662478/2		1890717	4.40	467615	6.86	747113	9.05
LCS 280-662478/4		1890717	4.40	467615	6.86	747113	9.05
CCV 280-662478/3		1813670	4.40	440410	6.86	671557	9.06
LCS 280-662478/6		1818989	4.40	440410	6.86	671557	9.06
LCSD 280-662478/5		1949469	4.40	471404	6.86	763529	9.06
LCSD 280-662478/7		1925411	4.40	459116	6.86	693782	9.06
MB 280-662478/9		1781649	4.40	434019	6.86	652180	9.05
280-194612-6	TB-01-20240725	1714965	4.40	406255	6.86	618185	9.06
280-194612-1	PA-8-77-87-20240725	1616937	4.40	380983	6.86	585556	9.06
280-194612-2	PA-8-77-87-Q-20240725	1606476	4.40	377824	6.86	594289	9.06
280-194612-3	PA-3-20240725	1577461	4.40	382702	6.86	589978	9.06
280-194612-4	PA-4-100-110-20240725	1599450	4.40	384605	6.86	588851	9.06
280-194612-5	PA-1-20240725	1533154	4.40	372075	6.86	566218	9.06
280-194612-3 MS	PA-3-20240725 MS	1869796	4.40	452712	6.86	733607	9.05
280-194612-3 MSD	PA-3-20240725 MSD	1795442	4.40	449451	6.86	738749	9.05

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.167 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-20240725 | Lab Sample ID: 280-194612-1

Matrix: Water | Lab File ID: G2_14347.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 13:53

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-20240725 | Lab Sample ID: 280-194612-1

Matrix: Water | Lab File ID: G2_14347.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 13:53

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-20240725 | Lab Sample ID: 280-194612-1

Matrix: Water | Lab File ID: G2_14347.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 13:53

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	109		78-120
1868-53-7	Dibromofluoromethane (Surr)	97		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14347.D
Lims ID: 280-194612-B-1
Client ID: PA-8-77-87-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 13:53:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-b-1
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1616937	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	380983	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	585556	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	392538	48.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	97	422018	52.5	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1643820	52.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	89	559667	54.3	
$ 8 BFB	95	7.947	7.943	0.004	89	559889	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95		4.669				ND	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	U
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		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_00084 Amount Added: 5.00 Units: uL Run Reagent

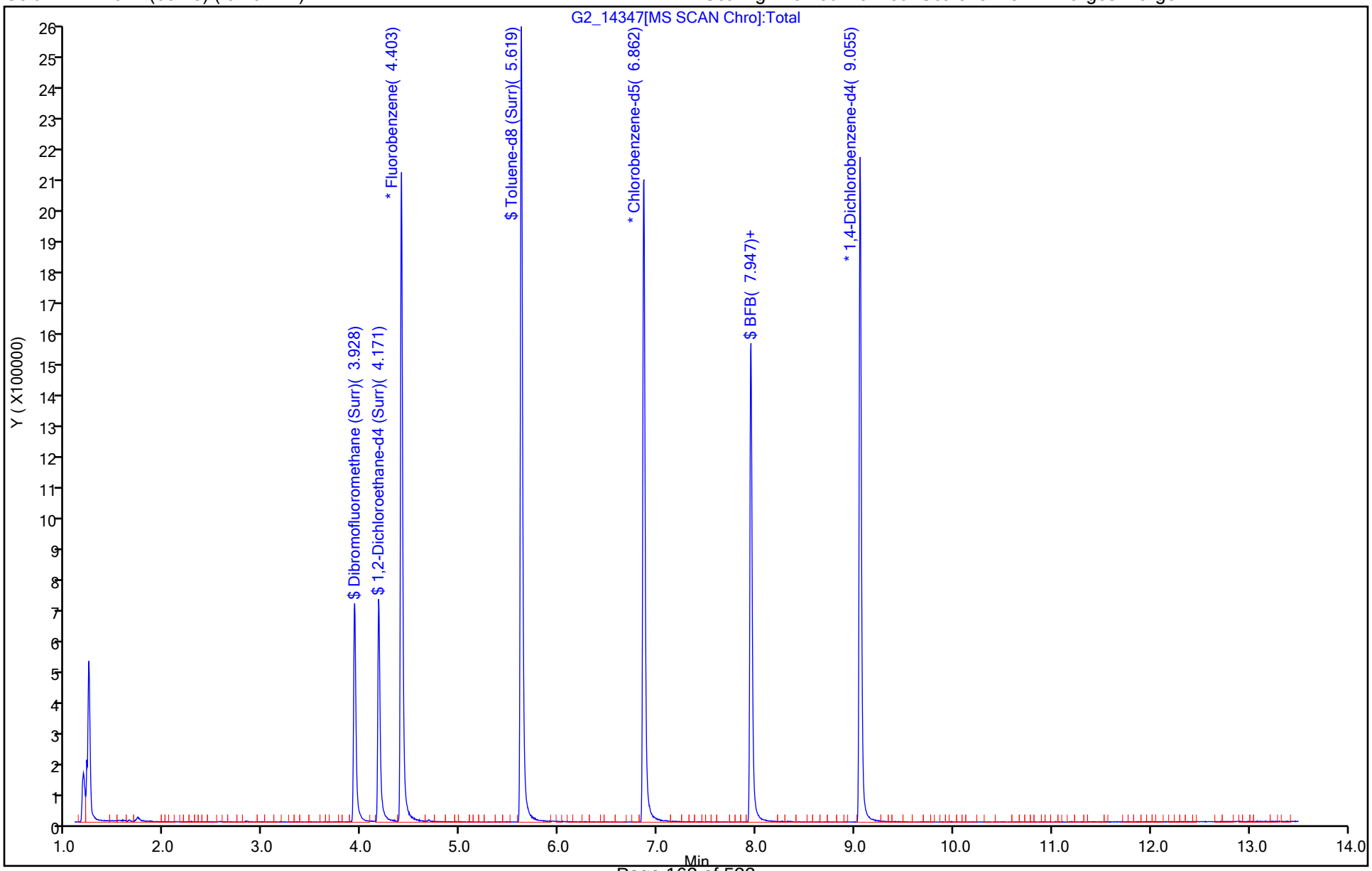
Report Date: 01-Aug-2024 18:01:24 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14347.D

Injection Date:	01-Aug-2024 13:53:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-B-1	Lab Sample ID:	280-194612-1	Worklist Smp#:	19
Client ID:	PA-8-77-87-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14347.D				
Lims ID:	280-194612-B-1				
Client ID:	PA-8-77-87-20240725				
Sample Type:	Client				
Inject. Date:	01-Aug-2024 13:53:30	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-194612-b-1				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Aug-2024 18:01:08	Calib Date:	30-Jul-2024 18:59:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.7	97.45
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	105.02
$ 6 Toluene-d8 (Surr)	50.0	52.1	104.20
$ 7 4-Bromofluorobenzene (Surr)	50.0	54.3	108.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-Q-20240725 | Lab Sample ID: 280-194612-2

Matrix: Water | Lab File ID: G2_14348.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:14

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-Q-20240725 | Lab Sample ID: 280-194612-2

Matrix: Water | Lab File ID: G2_14348.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:14

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-8-77-87-Q-20240725 | Lab Sample ID: 280-194612-2

Matrix: Water | Lab File ID: G2_14348.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:14

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

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
1868-53-7	Dibromofluoromethane (Surr)	97		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14348.D
Lims ID: 280-194612-C-2
Client ID: PA-8-77-87-Q-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 14:14:30 ALS Bottle#: 14 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-c-2
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1606476	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	377824	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	594289	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	389624	48.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.175	4.171	0.004	96	413153	51.7	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1634436	52.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	88	528576	50.5	
$ 8 BFB	95	7.947	7.943	0.004	88	530573	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95		4.669				ND	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	U
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		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_00084 Amount Added: 5.00 Units: uL Run Reagent

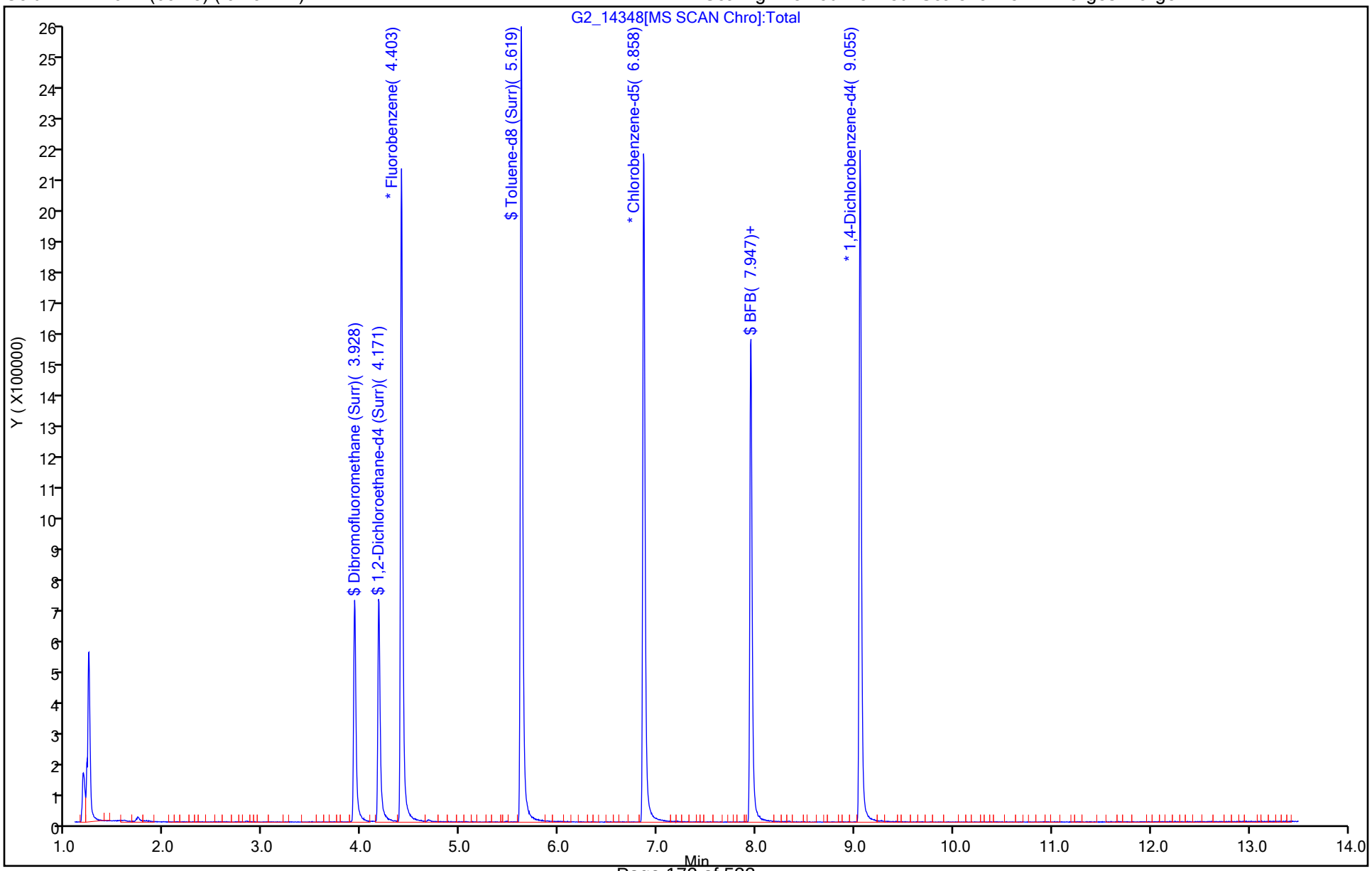
Report Date: 01-Aug-2024 18:01:25 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14348.D

Injection Date:	01-Aug-2024 14:14:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-C-2	Lab Sample ID:	280-194612-2	Worklist Smp#:	20
Client ID:	PA-8-77-87-Q-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14348.D				
Lims ID:	280-194612-C-2				
Client ID:	PA-8-77-87-Q-20240725				
Sample Type:	Client				
Inject. Date:	01-Aug-2024 14:14:30	ALS Bottle#:	14	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-194612-c-2				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Aug-2024 18:01:08	Calib Date:	30-Jul-2024 18:59:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.7	97.36
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.7	103.48
$ 6 Toluene-d8 (Surr)	50.0	52.2	104.47
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.5	101.02

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 | Lab Sample ID: 280-194612-3

Matrix: Water | Lab File ID: G2_14349.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:35

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 | Lab Sample ID: 280-194612-3

Matrix: Water | Lab File ID: G2_14349.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:35

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	1.6		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 | Lab Sample ID: 280-194612-3

Matrix: Water | Lab File ID: G2_14349.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:35

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14349.D
Lims ID: 280-194612-C-3
Client ID: PA-3-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 14:35:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-c-3
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1577461	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	382702	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	589978	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	387969	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.175	4.171	0.004	95	406333	51.8	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1618046	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	88	533199	51.3	
$ 8 BFB	95	7.947	7.943	0.004	88	535030	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95	4.672	4.669	0.003	98	11216	1.62	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	U
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		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_00084 Amount Added: 5.00 Units: uL Run Reagent

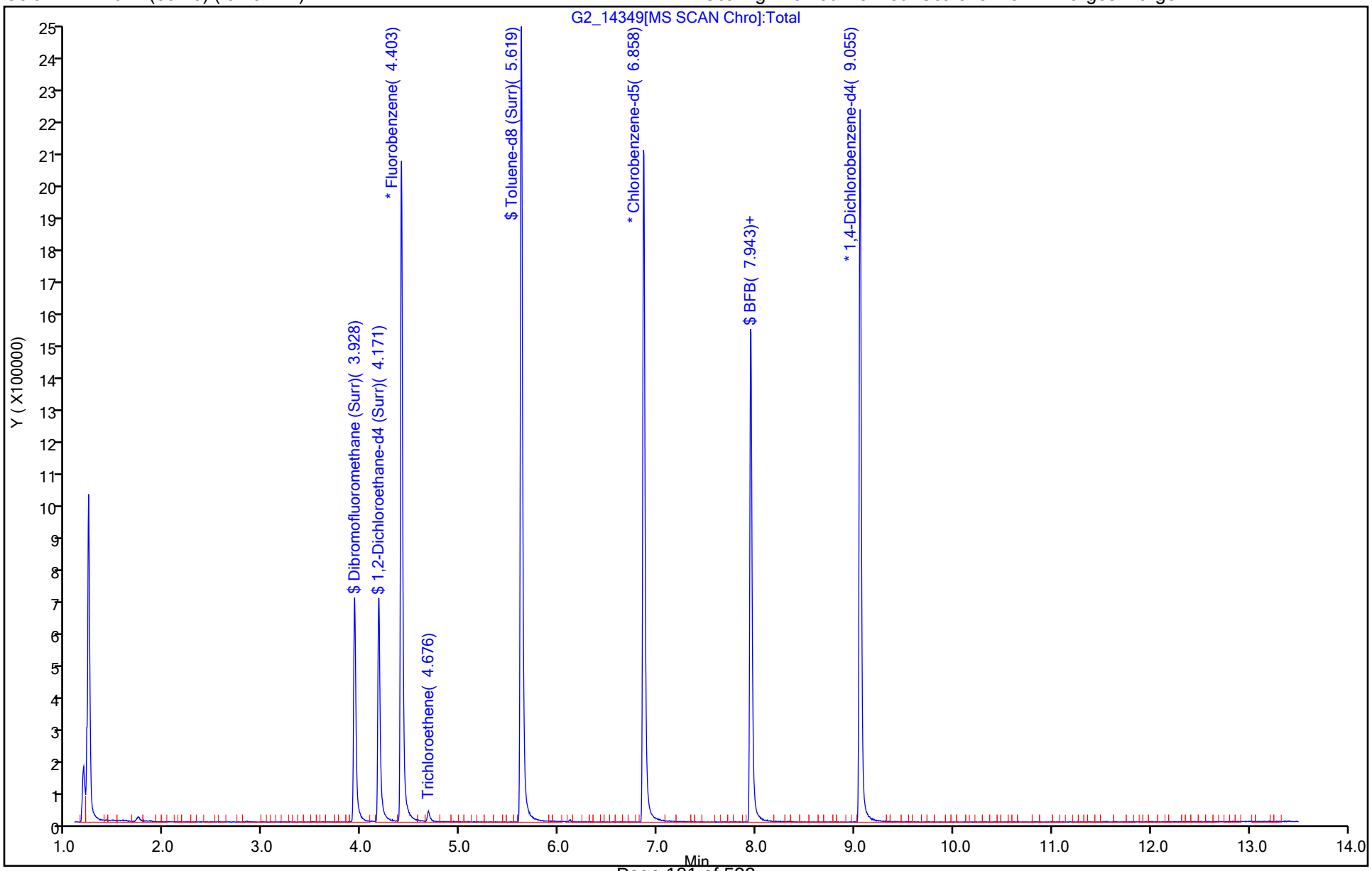
Report Date: 01-Aug-2024 18:01:27 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14349.D

Injection Date:	01-Aug-2024 14:35:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-C-3	Lab Sample ID:	280-194612-3	Worklist Smp#:	21
Client ID:	PA-3-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	AQ_VMSG2_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



Report Date: 01-Aug-2024 18:01:27 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14349.D
Lims ID: 280-194612-C-3
Client ID: PA-3-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 14:35:30 ALS Bottle#: 15 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-c-3
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.4	98.73
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.8	103.64
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.11
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.65

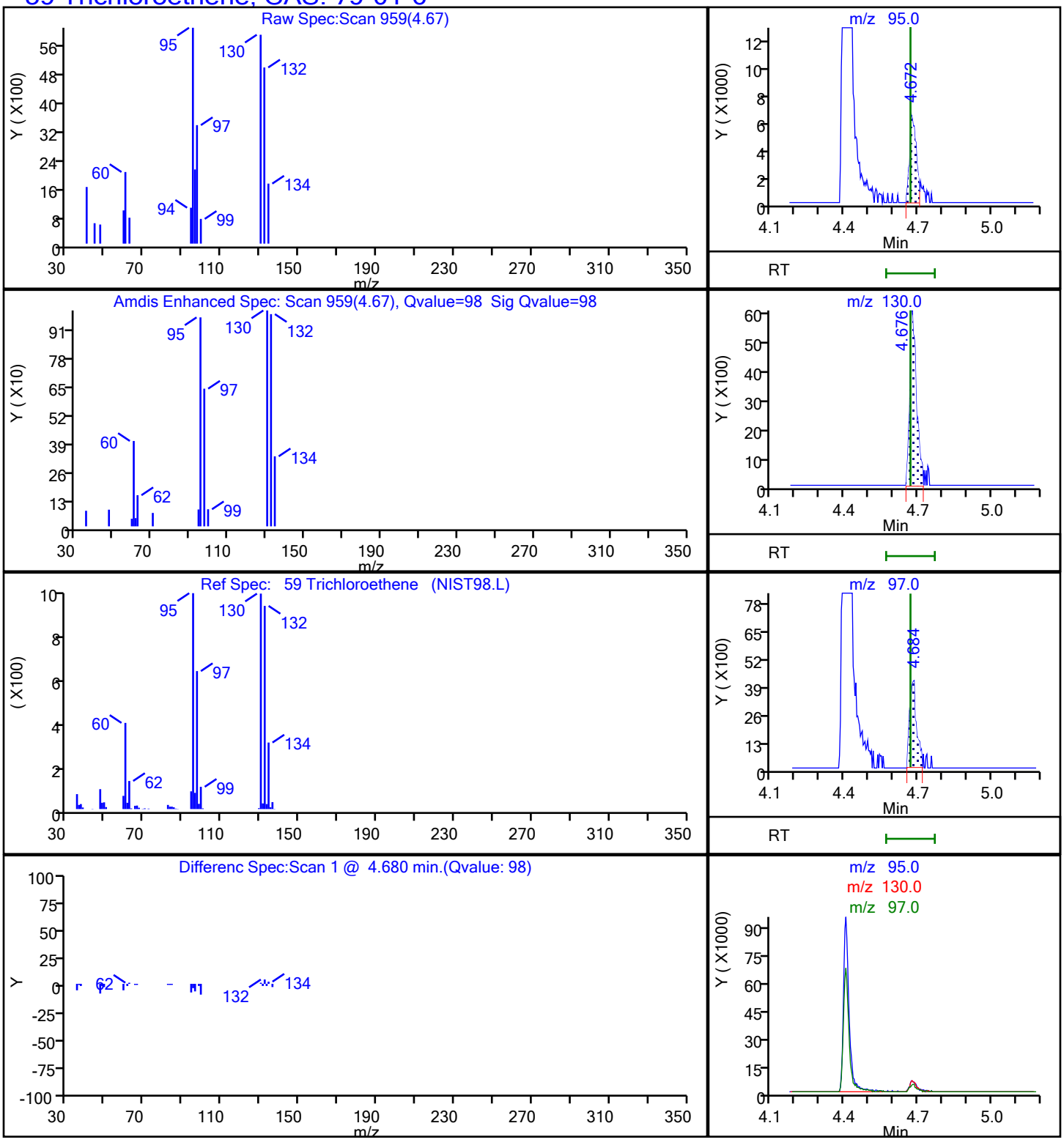
Report Date: 01-Aug-2024 18:01:27 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14349.D

Injection Date:	01-Aug-2024 14:35:30	Instrument ID:	VMS_G2		
Lims ID:	280-194612-C-3	Lab Sample ID:	280-194612-3		
Client ID:	PA-3-20240725				
Operator ID:	COULTER	ALS Bottle#:	15	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-4-100-110-20240725 | Lab Sample ID: 280-194612-4

Matrix: Water | Lab File ID: G2_14350.D

Analysis Method: 8260D | Date Collected: 07/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:56

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-4-100-110-20240725 | Lab Sample ID: 280-194612-4

Matrix: Water | Lab File ID: G2_14350.D

Analysis Method: 8260D | Date Collected: 07/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:56

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	1.7		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-4-100-110-20240725 | Lab Sample ID: 280-194612-4

Matrix: Water | Lab File ID: G2_14350.D

Analysis Method: 8260D | Date Collected: 07/25/2024 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 14:56

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

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
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14350.D
Lims ID: 280-194612-B-4
Client ID: PA-4-100-110-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 14:56:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-b-4
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1599450	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	384605	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	-0.001	96	588851	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	395517	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.175	4.171	0.004	96	419147	52.7	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1622415	50.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	88	529157	51.0	
$ 8 BFB	95	7.947	7.943	0.004	88	531130	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95	4.676	4.669	0.007	96	11627	1.67	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	7
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

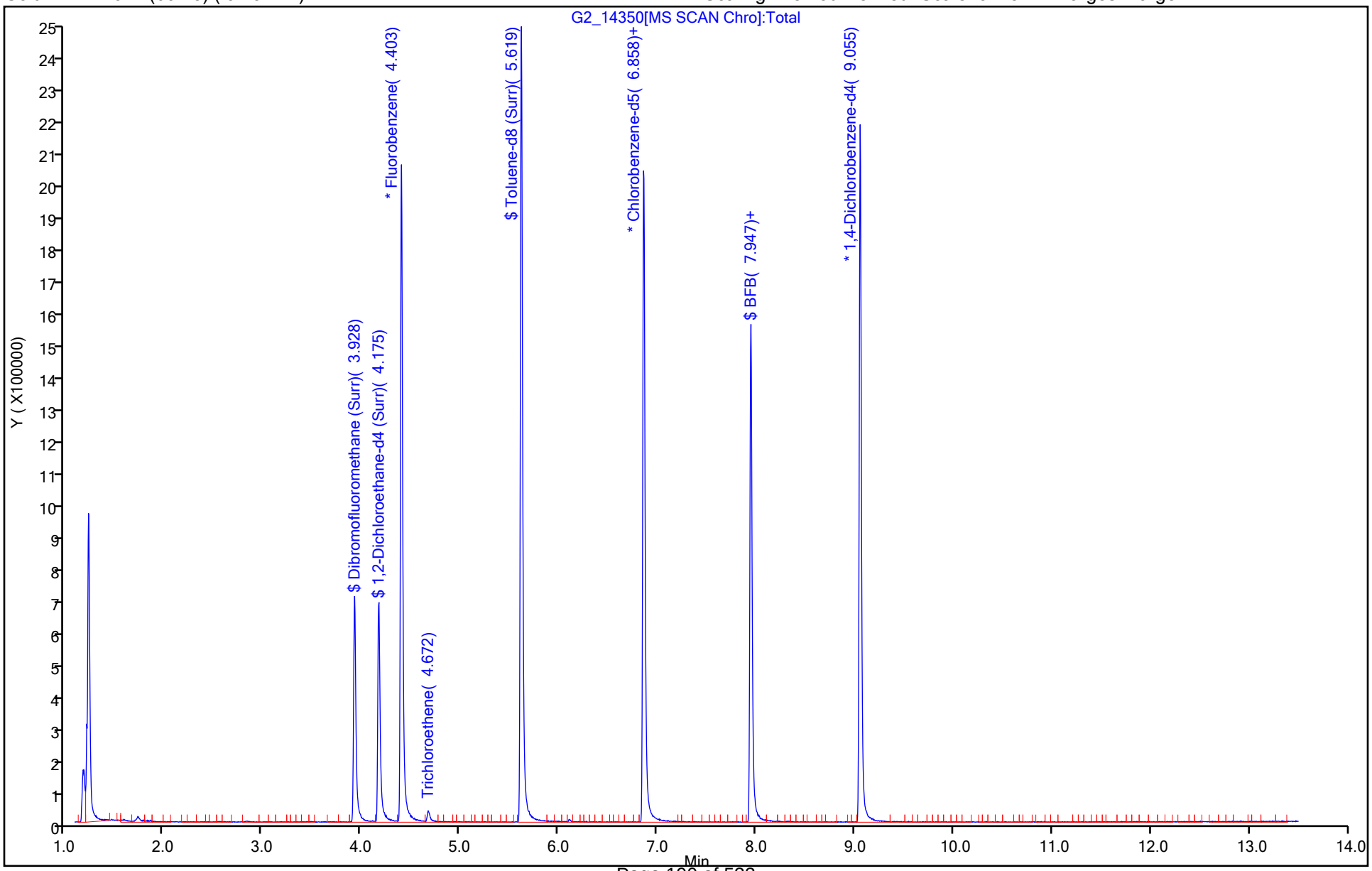
Report Date: 01-Aug-2024 18:01:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14350.D

Injection Date:	01-Aug-2024 14:56:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-B-4	Lab Sample ID:	280-194612-4	Worklist Smp#:	22
Client ID:	PA-4-100-110-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14350.D				
Lims ID:	280-194612-B-4				
Client ID:	PA-4-100-110-20240725				
Sample Type:	Client				
Inject. Date:	01-Aug-2024 14:56:30	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-194612-b-4				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Aug-2024 18:01:08	Calib Date:	30-Jul-2024 18:59:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.27
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.44
$ 6 Toluene-d8 (Surr)	50.0	50.9	101.88
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.0	102.06

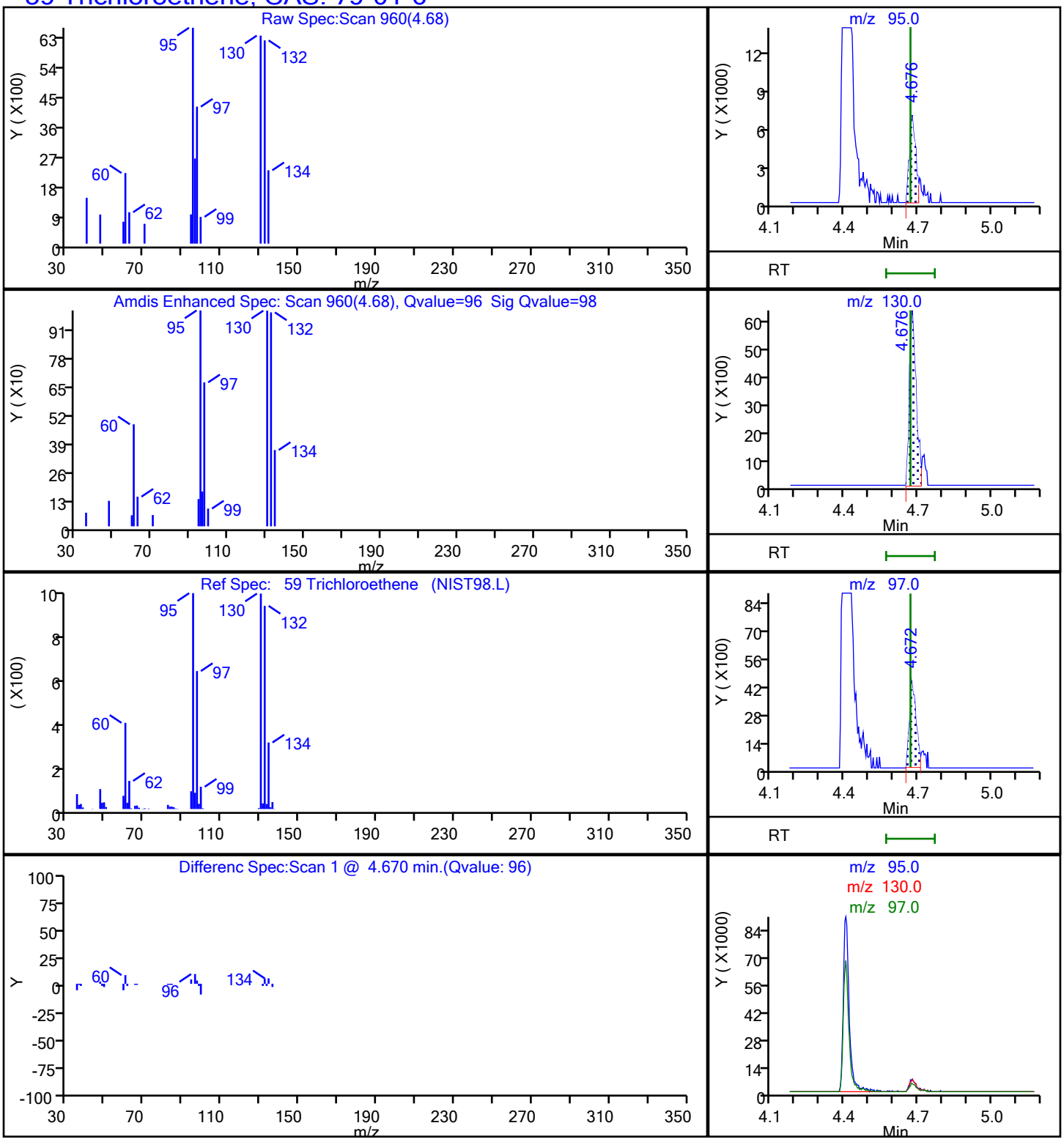
Report Date: 01-Aug-2024 18:01:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14350.D

Injection Date:	01-Aug-2024 14:56:30	Instrument ID:	VMS_G2		
Lims ID:	280-194612-B-4	Lab Sample ID:	280-194612-4		
Client ID:	PA-4-100-110-20240725				
Operator ID:	COULTER	ALS Bottle#:	16	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-1-20240725 | Lab Sample ID: 280-194612-5

Matrix: Water | Lab File ID: G2_14351.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 15:17

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-1-20240725 | Lab Sample ID: 280-194612-5

Matrix: Water | Lab File ID: G2_14351.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 15:17

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	1.1		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-1-20240725 | Lab Sample ID: 280-194612-5

Matrix: Water | Lab File ID: G2_14351.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 15:17

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14351.D
Lims ID: 280-194612-C-5
Client ID: PA-1-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 15:17:30 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-c-5
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1533154	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	372075	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	566218	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	374900	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.175	4.171	0.004	96	389936	51.2	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1571673	51.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	515160	51.7	
$ 8 BFB	95	7.943	7.943	0.000	87	515160	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95	4.680	4.669	0.011	95	7142	1.06	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	U
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

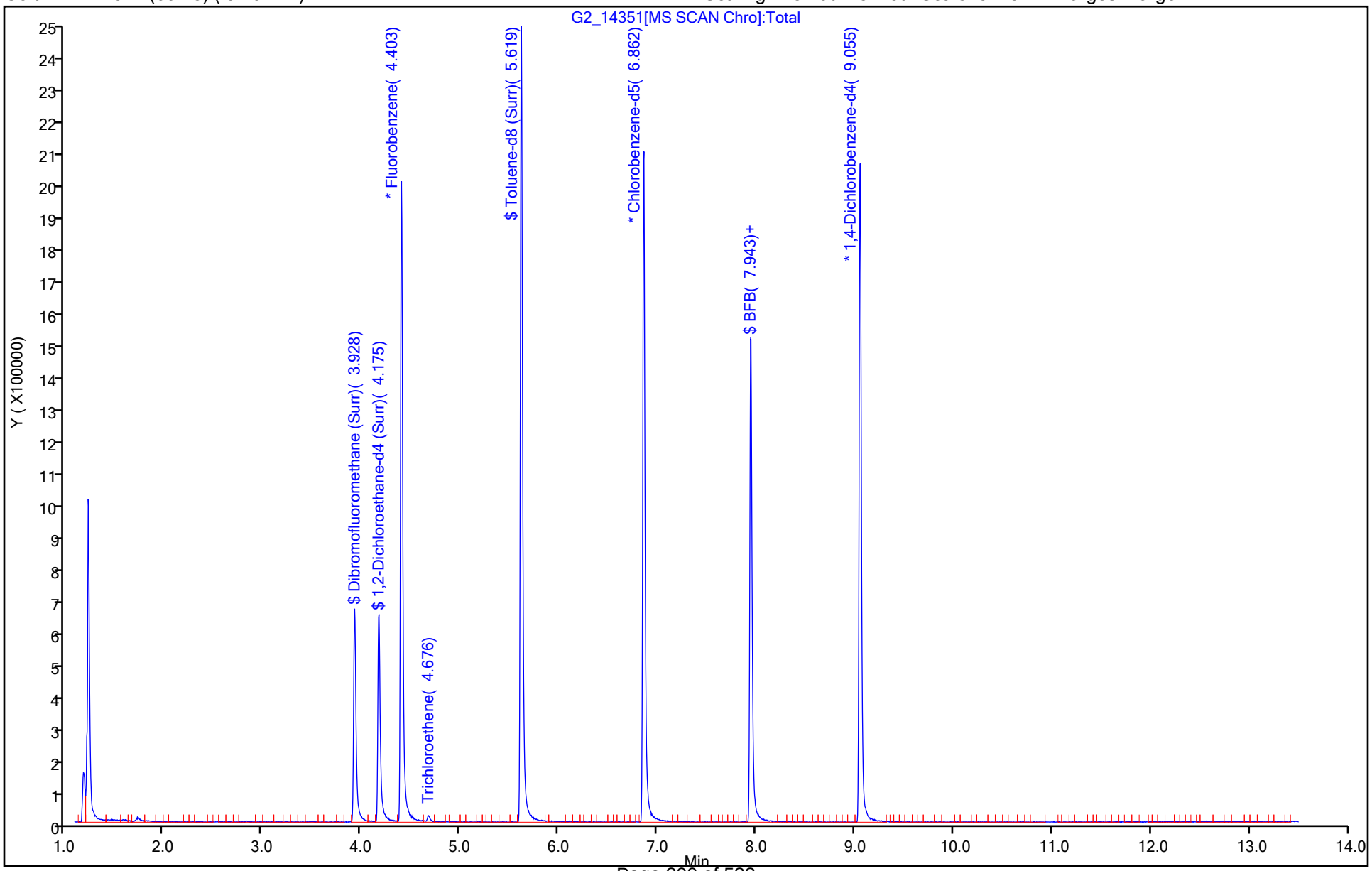
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Aug-2024 18:01:30 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14351.D				
Injection Date:	01-Aug-2024 15:17:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-C-5	Lab Sample ID:	280-194612-5	Worklist Smp#:	23
Client ID:	PA-1-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14351.D				
Lims ID:	280-194612-C-5				
Client ID:	PA-1-20240725				
Sample Type:	Client				
Inject. Date:	01-Aug-2024 15:17:30	ALS Bottle#:	17	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-194612-c-5				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Aug-2024 18:01:08	Calib Date:	30-Jul-2024 18:59:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: LP8K Date: 01-Aug-2024 17:58:36

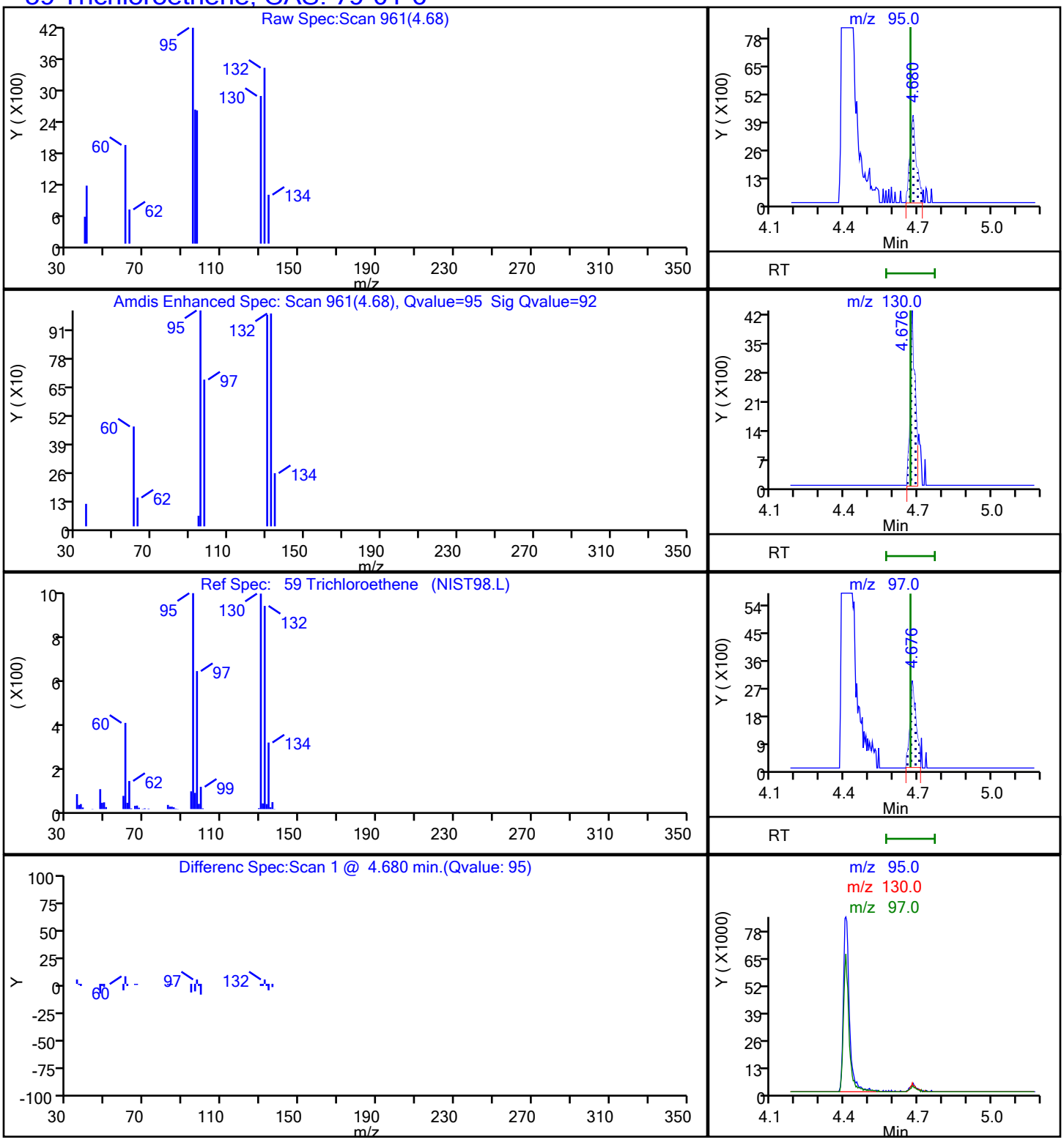
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.16
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.34
$ 6 Toluene-d8 (Surr)	50.0	51.0	102.01
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.7	103.34

Report Date: 01-Aug-2024 18:01:30 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14351.D				
Injection Date:	01-Aug-2024 15:17:30	Instrument ID:	VMS_G2		
Lims ID:	280-194612-C-5	Lab Sample ID:	280-194612-5		
Client ID:	PA-1-20240725				
Operator ID:	COULTER	ALS Bottle#:	17	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

59 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: TB-01-20240725 | Lab Sample ID: 280-194612-6

Matrix: Water | Lab File ID: G2_14342.D

Analysis Method: 8260D | Date Collected: 07/25/2024 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 12:08

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: TB-01-20240725 | Lab Sample ID: 280-194612-6

Matrix: Water | Lab File ID: G2_14342.D

Analysis Method: 8260D | Date Collected: 07/25/2024 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 12:08

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: TB-01-20240725 | Lab Sample ID: 280-194612-6

Matrix: Water | Lab File ID: G2_14342.D

Analysis Method: 8260D | Date Collected: 07/25/2024 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 12:08

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14342.D
Lims ID: 280-194612-A-6
Client ID: TB-01-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 12:08:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-a-6
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:40:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1714965	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	406255	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	618185	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	410600	48.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	95	421654	49.5	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1764439	52.4	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	88	565232	51.9	
$ 8 BFB	95	7.947	7.943	0.004	88	567251	NR	
9 Dichlorodifluoromethane	85		1.342				ND	
10 Chloromethane	50		1.536				ND	
11 Vinyl chloride	62		1.562				ND	
12 Bromomethane	94		1.791				ND	
13 Chloroethane	64		1.869				ND	
14 Dichlorofluoromethane	67		2.023				ND	
15 Trichlorofluoromethane	101		2.049				ND	
17 Ethanol	45		2.180				ND	
18 Ethyl ether	59		2.236				ND	
19 Acrolein	56		2.333				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401				ND	
21 1,1-Dichloroethene	96		2.401				ND	
22 Acetone	43		2.427				ND	
23 Iodomethane	142		2.509				ND	
24 Isopropyl alcohol	45		2.524				ND	
25 Carbon disulfide	76		2.562				ND	7
27 Acetonitrile	41		2.622				ND	
26 Methyl acetate	43		2.633				ND	
16 3-Chloro-1-propene	41		2.644				ND	
28 Methylene Chloride	84		2.730				ND	
29 2-Methyl-2-propanol	59		2.782				ND	
30 Acrylonitrile	53		2.883				ND	
31 Methyl tert-butyl ether	73		2.898				ND	
32 trans-1,2-Dichloroethene	96		2.913				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		3.089				ND	
35 Vinyl acetate	43		3.194				ND	
34 1,1-Dichloroethane	63		3.202				ND	
36 Isopropyl ether	87		3.209				ND	
37 2-Chloro-1,3-butadiene	53		3.250				ND	
38 Tert-butyl ethyl ether	59		3.452				ND	
39 2-Butanone (MEK)	43		3.572				ND	
40 cis-1,2-Dichloroethene	96		3.591				ND	
41 2,2-Dichloropropane	77		3.591				ND	
42 Ethyl acetate	43		3.595				ND	
43 Propionitrile	54		3.625				ND	
44 sec-Butyl Alcohol	45		3.688				ND	
45 Methacrylonitrile	41		3.718				ND	
46 Chlorobromomethane	128		3.755				ND	
47 Tetrahydrofuran	42		3.763				ND	
48 Chloroform	83		3.815				ND	
49 1,1,1-Trichloroethane	97		3.939				ND	
50 Cyclohexane	56		3.991				ND	
51 Carbon tetrachloride	117		4.047				ND	
52 1,1-Dichloropropene	75		4.051				ND	
53 Isobutyl alcohol	41		4.092				ND	
54 Benzene	78		4.193				ND	
55 1,2-Dichloroethane	62		4.227				ND	
56 Tert-amyl methyl ether	73		4.268				ND	
57 n-Heptane	43		4.384				ND	
58 n-Butanol	56		4.586				ND	
59 Trichloroethene	95		4.669				ND	
60 2-Pentanone	43		4.781				ND	
61 Methylcyclohexane	55		4.841				ND	
62 1,2-Dichloropropane	63		4.863				ND	
63 Methyl methacrylate	100		4.889				ND	
64 1,4-Dioxane	88		4.919				ND	
65 Dibromomethane	93		4.930				ND	
66 Dichlorobromomethane	83		5.058				ND	
67 2-Nitropropane	41		5.222				ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503				ND	
71 Toluene	91		5.675				ND	
72 trans-1,3-Dichloropropene	75		5.862				ND	
73 Ethyl methacrylate	69		5.892				ND	
74 1,1,2-Trichloroethane	97		6.027				ND	
75 Tetrachloroethene	164		6.102				ND	
76 1,3-Dichloropropane	76		6.165				ND	
77 2-Hexanone	43		6.199				ND	
78 Chlorodibromomethane	129		6.349				ND	
79 Ethylene Dibromide	107		6.461				ND	
80 1-Chlorohexane	91		6.861				ND	U
81 Chlorobenzene	112		6.888				ND	
82 1,1,1,2-Tetrachloroethane	131		6.959				ND	
83 Ethylbenzene	106		6.970				ND	
84 m-Xylene & p-Xylene	106		7.086				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 o-Xylene	106		7.438				ND	
86 Styrene	104		7.457				ND	
87 Bromoform	173		7.625				ND	
88 Isopropylbenzene	105		7.778				ND	
90 cis-1,4-Dichloro-2-butene	53		7.838				ND	
89 Cyclohexanone	55		7.861				ND	
91 1,1,2,2-Tetrachloroethane	83		8.070				ND	
92 Bromobenzene	156		8.081				ND	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	
94 1,2,3-Trichloropropane	110		8.123				ND	
95 N-Propylbenzene	120		8.171				ND	
96 2-Chlorotoluene	126		8.261				ND	
97 1,3,5-Trimethylbenzene	105		8.347				ND	
98 4-Chlorotoluene	126		8.377				ND	
99 tert-Butylbenzene	119		8.643				ND	
100 1,2,4-Trimethylbenzene	105		8.706				ND	
101 sec-Butylbenzene	134		8.864				ND	
102 1,3-Dichlorobenzene	146		8.980				ND	
103 4-Isopropyltoluene	119		9.013				ND	
104 1,4-Dichlorobenzene	146		9.077				ND	
105 1,2,3-Trimethylbenzene	105		9.103				ND	
106 n-Butylbenzene	91		9.414				ND	
107 1,2-Dichlorobenzene	146		9.425				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	
109 1,3,5-Trichlorobenzene	180		10.387				ND	
110 1,2,4-Trichlorobenzene	180		11.012				ND	
111 Hexachlorobutadiene	225		11.158				ND	
112 Naphthalene	128		11.270				ND	
113 1,2,3-Trichlorobenzene	180		11.494				ND	
114 Ethylene oxide TIC	1		0.000				ND	
S 115 1,2-Dichloroethene, Total	1		0.000				ND	7
S 116 1,3-Dichloropropene, Total	1		0.000				ND	7
S 117 Xylenes, Total	106		0.000				ND	7
S 118 Total BTEX	1		0.000				ND	7
S 119 Trihalomethanes, Total	1		0.000				ND	7
T 120 1,3-Butadiene TIC	39		1.830				ND	7
T 123 2,3-dichloro-1-propene TIC	75		5.797				ND	
T 124 4-Ethyltoluene TIC	105		8.015				ND	
T 125 Propene TIC	41		0.000				ND	
T 128 Dichloroacetonitrile TIC	74		0.000				ND	
T 129 Dicyclopentadiene TIC	66		0.000				ND	
T 130 Propene oxide TIC	58		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_00084 Amount Added: 5.00 Units: uL Run Reagent

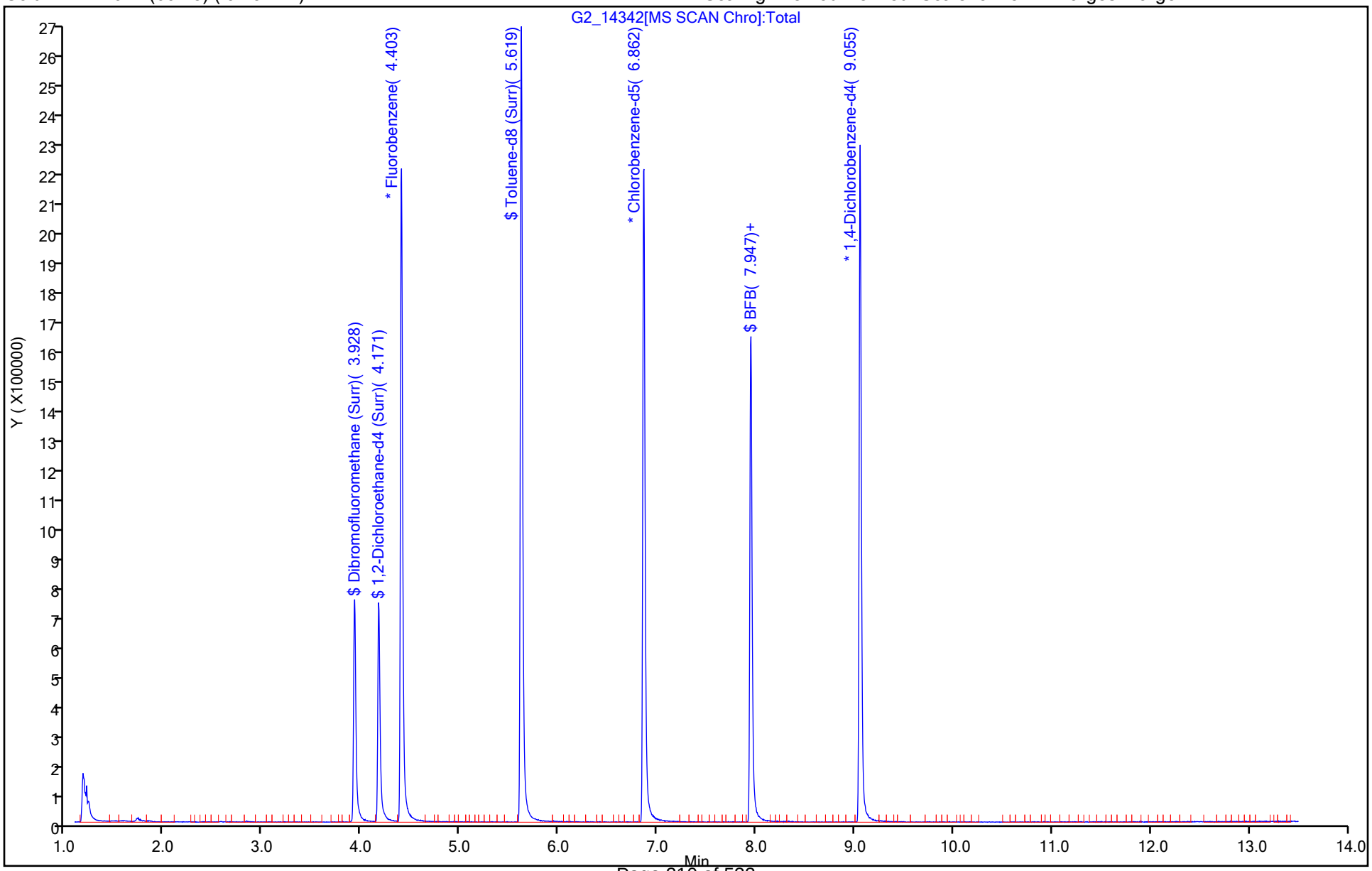
Report Date: 01-Aug-2024 18:01:15 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14342.D

Injection Date:	01-Aug-2024 12:08:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-A-6	Lab Sample ID:	280-194612-6	Worklist Smp#:	14
Client ID:	TB-01-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	AQ_VMSG2_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



Report Date: 01-Aug-2024 18:01:15 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14342.D
Lims ID: 280-194612-A-6
Client ID: TB-01-20240725
Sample Type: Client
Inject. Date: 01-Aug-2024 12:08:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-a-6
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 17:40:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.1	96.11
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.5	98.93
$ 6 Toluene-d8 (Surr)	50.0	52.4	104.89
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.9	103.85

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-662184/27	G2_14230.D
Level 2	STD1 280-662184/28	G2_14231.D
Level 3	STD2 280-662184/29	G2_14232.D
Level 4	STD5 280-662184/30	G2_14233.D
Level 5	STD10 280-662184/31	G2_14234.D
Level 6	ICIS 280-662184/32	G2_14235.D
Level 7	STD75 280-662184/33	G2_14236.D
Level 8	STD100 280-662184/34	G2_14237.D
Level 9	STD200 280-662184/35	G2_14238.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.2966	0.1290 0.2949	0.1534 0.2687	0.3041 0.2642	0.2903	Lin1	-0.113	0.2763							0.9960		0.9900
Chloromethane	+++++ 0.2750	+++++ 0.2859	0.1920 0.2658	0.2730 0.2611	0.2712	Ave		0.2606			0.1000	12.0		15.0			
Vinyl chloride	+++++ 0.3167	0.2732 0.3208	0.2326 0.2984	0.3182 0.2901	0.3031	Ave		0.2942				10.1		30.0			
Bromomethane	+++++ 0.1855	+++++ 0.1540	+++++ 0.1808	0.1810 +++++	0.1404	Ave		0.1683				11.9		15.0			
Chloroethane	+++++ 0.2149	+++++ 0.2177	0.1878 0.2009	0.2129 0.1989	0.2075	Ave		0.2058				5.2		15.0			
Dichlorofluoromethane	+++++ 0.4470	+++++ 0.4558	0.3769 0.4266	0.4437 0.4151	0.4225	Ave		0.4268				6.2		15.0			
Trichlorofluoromethane	+++++ 0.3414	+++++ 0.3475	0.2705 0.3226	0.3301 0.3167	0.3182	Ave		0.3210				7.8		15.0			
Ethyl ether	+++++ 0.1869	0.1436 0.1799	0.1270 0.1874	0.1413 0.1866	0.1666	Ave		0.1649				14.7		15.0			
Acrolein	+++++ 0.0257	+++++ 0.0268	0.0157 0.0275	0.0137 0.0268	0.0190	Lin1	-0.402	0.0271							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1704	0.1439 0.1640	0.1310 0.1658	0.1298 0.1715	0.1574	Ave		0.1542				11.1		15.0			
1,1-Dichloroethene	+++++ 0.2187	0.1741 0.2071	0.1764 0.2125	0.1640 0.2152	0.2017	Ave		0.1962				10.9		30.0			
Acetone	+++++ 0.0610	+++++ 0.0599	0.0832 0.0613	0.0421 0.0581	0.0538	Lin1	0.0244	0.0592							0.9970		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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

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	+++++ 0.2472	+++++ 0.2679	+++++ 0.2756	0.1213 0.2874	0.1467	Lin2	-0.870	0.2749							0.9900		0.9900
Carbon disulfide	+++++ 0.6410	0.5701 0.6220	0.5812 0.6231	0.5272 0.6190	0.6228	Ave		0.6008				6.3		15.0			
Methyl acetate	+++++ 0.1602	+++++ 0.1513	0.0813 0.1472	0.0924 0.1491	0.1282	Lin2	-0.312	0.1489							0.9900		0.9900
Allyl chloride	+++++ 0.3101	0.2899 0.2854	0.2788 0.2783	0.2551 0.2424	0.2878	Ave		0.2785				7.6		15.0			
Methylene Chloride	+++++ 0.2473	0.2065 0.2378	0.2281 0.2401	0.2114 0.2385	0.2345	Ave		0.2305				6.3		15.0			
2-Methyl-2-propanol	+++++ 0.0275	0.0188 0.0265	0.0173 0.0277	0.0226 0.0260	0.0231	Lin2	-0.093	0.0258							0.9910		0.9900
Acrylonitrile	+++++ 0.0909	+++++ 0.0898	0.0442 0.0935	0.0504 0.0922	0.0674	Lin1	-1.444	0.0930							0.9990		0.9900
Methyl tert-butyl ether	+++++ 0.7404	0.6202 0.7013	0.6178 0.7273	0.6197 0.7295	0.6707	Ave		0.6784				7.9		15.0			
trans-1,2-Dichloroethene	+++++ 0.2370	0.1910 0.2273	0.1953 0.2349	0.1836 0.2456	0.2234	Ave		0.2173				10.9		15.0			
Hexane	+++++ 1.2394	1.0352 1.2029	0.9522 1.1810	0.9416 1.1648	1.1688	Ave		1.1107				10.5		15.0			
Vinyl acetate	+++++ 0.3684	0.2124 0.3395	0.2400 0.3546	0.2761 0.3029	0.3047	Lin2	-0.273	0.3313							0.9920		0.9900
1,1-Dichloroethane	+++++ 0.4268	0.3692 0.4034	0.3417 0.4129	0.3446 0.4119	0.3794	Ave		0.3862			0.1000	8.4		15.0			
2-Butanone (MEK)	+++++ 0.1005	+++++ 0.0973	0.0754 0.1039	0.0656 0.1028	0.0795	Lin1	-0.436	0.1025							0.9990		0.9900
cis-1,2-Dichloroethene	+++++ 0.2654	0.1935 0.2584	0.1830 0.2636	0.1943 0.2735	0.2388	Lin1	-0.149	0.2682							0.9990		0.9900
2,2-Dichloropropane	+++++ 0.3341	0.3092 0.3194	0.2854 0.3246	0.2622 0.3308	0.3081	Ave		0.3092				7.9		15.0			
sec-Butyl Alcohol	+++++ 0.0203	+++++ 0.0204	0.0059 0.0211	0.0111 0.0205	0.0133	Lin1	-0.955	0.0209							0.9990		0.9900
Chlorobromomethane	+++++ 0.1164	0.0821 0.1135	0.0911 0.1138	0.0948 0.1119	0.1130	Ave		0.1046				12.6		15.0			
Tetrahydrofuran	+++++ 0.0686	+++++ 0.0673	0.0425 0.0687	0.0380 0.0667	0.0580	Lin1	-0.158	0.0681							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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

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	+++++ 0.4075	0.3601 0.3910	0.3537 0.4017	0.3319 0.3975	0.3923	Ave		0.3795				7.2		30.0			
1,1,1-Trichloroethane	+++++ 0.3535	0.3224 0.3397	0.3110 0.3471	0.2885 0.3504	0.3388	Ave		0.3314				6.8		15.0			
Cyclohexane	+++++ 0.4065	0.3644 0.3941	0.3409 0.3947	0.3214 0.3990	0.3772	Ave		0.3748				8.1		15.0			
Carbon tetrachloride	+++++ 0.3072	0.2518 0.3015	0.2585 0.3073	0.2326 0.3197	0.2840	Ave		0.2828				11.2		15.0			
1,1-Dichloropropene	+++++ 0.3237	0.2710 0.3121	0.2569 0.3218	0.2442 0.3336	0.2862	Ave		0.2937				11.5		15.0			
Isobutyl alcohol	+++++ 0.0077	+++++ 0.0076	0.0046 0.0077	0.0035 0.0076	0.0052	Lin1	-0.297	0.0077							0.9980		0.9900
Benzene	+++++ 1.0011	0.8573 0.9552	0.8626 0.9772	0.7742 0.9577	0.9237	Ave		0.9136				8.3		15.0			
1,2-Dichloroethane	+++++ 0.2967	0.2351 0.2815	0.2429 0.2746	0.2290 0.2831	0.2635	Ave		0.2633				9.5		15.0			
n-Heptane	+++++ 0.2565	0.2318 0.2478	0.1978 0.2435	0.1942 0.2474	0.2350	Ave		0.2318				10.1		15.0			
Trichloroethene	+++++ 0.9815	0.7846 0.9576	0.8671 0.9940	0.7903 0.9812	0.8884	Ave		0.9056				9.5		15.0			
2-Pentanone	+++++ 0.1597	0.0926 0.1703	0.1276 0.1655	0.1137 0.1589	0.1396	Lin2	-0.218	0.1567							0.9900		0.9900
Methylcyclohexane	+++++ 0.2923	0.2318 0.2832	0.2405 0.2838	0.2316 0.2912	0.2745	Ave		0.2661				10.1		15.0			
1,2-Dichloropropane	+++++ 0.2577	0.1884 0.2478	0.2131 0.2529	0.2084 0.2555	0.2393	Ave		0.2329				11.2		30.0			
1,4-Dioxane	+++++ 0.0034	+++++ 0.0035	0.0018 0.0034	0.0027 0.0034	0.0030	Lin2	-0.065	0.0034							0.9990		0.9900
Dibromomethane	+++++ 0.1536	0.1237 0.1461	0.1257 0.1511	0.1236 0.1530	0.1403	Ave		0.1396				9.6		15.0			
Dichlorobromomethane	+++++ 0.3207	0.2797 0.3080	0.2718 0.3186	0.2478 0.3176	0.2912	Ave		0.2944				9.0		15.0			
2-Chloroethyl vinyl ether	+++++ 0.1499	+++++ 0.1587	0.0837 0.1520	0.0868 0.1499	0.1131	Lin1	-0.212	0.1534							0.9980		0.9900
cis-1,3-Dichloropropene	+++++ 1.5205	1.2651 1.4697	1.2030 1.5224	1.1931 1.4692	1.3953	Ave		1.3798				10.1		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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

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)	+++++ 0.2380	0.1465 0.2285	0.1585 0.2343	0.1815 0.2219	0.2084	Lin2	-0.364	0.2232							0.9940		0.9900
Toluene	+++++ 1.0676	0.8839 1.0379	0.9786 1.0495	0.8577 1.0292	1.0187	Ave		0.9904				7.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.3638	0.2622 0.3516	0.2682 0.3689	0.2522 0.3690	0.3004	Lin1	-0.211	0.3657							0.9990		0.9900
Ethyl methacrylate	+++++ 1.4277	+++++ 1.3318	0.7493 1.3902	0.9708 1.3247	1.1131	Lin2	-1.313	1.3459							0.9950		0.9900
1,1,2-Trichloroethane	+++++ 0.2286	0.2024 0.2202	0.2037 0.2264	0.1832 0.2251	0.2147	Ave		0.2130				7.3		15.0			
Tetrachloroethene	+++++ 0.7959	0.7206 0.7729	0.6871 0.7851	0.6515 0.7930	0.7382	Ave		0.7430				7.2		15.0			
1,3-Dichloropropane	+++++ 1.6039	1.2573 1.5266	1.4088 1.5784	1.2965 1.4961	1.4592	Ave		1.4534				8.6		15.0			
2-Hexanone	+++++ 0.6607	0.2440 0.6555	0.3786 0.6610	0.4711 0.6106	0.5551	Lin2	-1.667	0.6259							0.9940		0.9900
Chlorodibromomethane	0.9567 1.0678	0.9212 1.0070	0.8635 1.0472	0.9240 1.0236	0.9826	Ave		0.9771				6.8		15.0			
1,2-Dibromoethane	+++++ 0.9350	0.7182 0.9016	0.7483 0.9266	0.7597 0.8936	0.8653	Ave		0.8436				10.4		15.0			
1-Chlorohexane	+++++ 1.4502	1.5195 1.4008	1.3980 1.4107	1.1830 1.3976	1.3462	Ave		1.3883				7.0		15.0			
Chlorobenzene	+++++ 2.8284	2.6004 2.7267	2.4170 2.7781	2.3166 2.6738	2.6454	Ave		2.6233			0.3000	6.7		15.0			
1,1,1,2-Tetrachloroethane	+++++ 1.0244	0.8605 0.9781	0.8676 1.0215	0.8251 1.0364	0.9414	Ave		0.9444				8.9		15.0			
Ethylbenzene	+++++ 1.5485	1.1903 1.5024	1.2487 1.5441	1.1853 1.5753	1.4195	Ave		1.4018				12.0		30.0			
m-Xylene & p-Xylene	+++++ 1.8069	1.4818 1.7859	1.5858 1.7532	1.2957 1.7494	1.6305	Ave		1.6361				10.8		15.0			
o-Xylene	+++++ 1.8237	1.5584 1.7932	1.5048 1.8047	1.5037 1.7999	1.6735	Ave		1.6827				8.4		15.0			
Styrene	+++++ 3.0856	2.2838 3.0451	2.1514 3.0945	2.2551 3.0594	2.7252	Lin1	-1.563	3.0736							0.9990		0.9900
Bromoform	+++++ 0.7423	0.6517 0.7282	0.6197 0.7443	0.6129 0.7265	0.6591	Ave		0.6856			0.1000	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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

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	+++++ 2.8351	2.3239 2.7352	2.5471 2.7663	2.2732 2.7053	2.6766	Ave		2.6078				8.0		15.0			
Cyclohexanone	+++++ 0.0635	+++++ 0.0630	0.0412 0.0621	0.0507 0.0570	0.0552	Ave		0.0561				14.4		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7982	0.7583 0.7497	0.7465 0.7788	0.7069 0.7573	0.7865	Ave		0.7603			0.3000	3.7		15.0			
Bromobenzene	+++++ 0.7153	0.5605 0.6888	0.5900 0.7119	0.5630 0.7342	0.6531	Ave		0.6521				11.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1893	+++++ 0.1823	0.0788 0.1900	0.1319 0.1876	0.1477	Lin2	-0.226	0.1856							0.9970		0.9900
1,2,3-Trichloropropane	+++++ 0.2472	0.1718 0.2355	0.2088 0.2395	0.2271 0.2351	0.2308	Ave		0.2245				10.7		15.0			
N-Propylbenzene	+++++ 0.7700	0.6323 0.7415	0.6065 0.7586	0.6138 0.7814	0.7019	Ave		0.7008				10.4		15.0			
2-Chlorotoluene	+++++ 0.6704	0.5884 0.6460	0.5964 0.6644	0.5547 0.6737	0.6240	Ave		0.6272				7.0		15.0			
1,3,5-Trimethylbenzene	+++++ 2.1899	1.8518 2.1242	1.9842 2.1566	1.7798 2.1757	2.0571	Ave		2.0399				7.6		15.0			
4-Chlorotoluene	+++++ 0.6967	0.5807 0.6679	0.5627 0.6848	0.5793 0.7056	0.6218	Ave		0.6374				9.1		15.0			
tert-Butylbenzene	+++++ 1.9063	1.7771 1.8482	1.7032 1.8675	1.5666 1.8751	1.8144	Ave		1.7948				6.3		15.0			
1,2,4-Trimethylbenzene	+++++ 2.1621	1.8738 2.0984	1.9329 2.1408	1.8588 2.1473	2.0242	Ave		2.0298				6.2		15.0			
sec-Butylbenzene	+++++ 0.5770	0.4882 0.5676	0.5139 0.5790	0.4706 0.5907	0.5394	Ave		0.5408				8.4		15.0			
1,3-Dichlorobenzene	+++++ 1.2984	1.0045 1.2593	1.0311 1.2934	1.0041 1.3251	1.2033	Ave		1.1774				12.0		15.0			
4-Isopropyltoluene	+++++ 2.3181	2.0323 2.2268	2.0215 2.2559	1.9190 2.2675	2.1873	Ave		2.1536				6.7		15.0			
1,4-Dichlorobenzene	+++++ 1.3334	1.2667 1.3063	1.1512 1.3339	1.1121 1.3615	1.3019	Ave		1.2709				7.2		15.0			
n-Butylbenzene	+++++ 2.0189	1.4525 1.9552	1.6538 1.9759	1.5762 2.0268	1.8272	Ave		1.8108				12.3		15.0			
1,2-Dichlorobenzene	+++++ 1.2652	1.1365 1.2465	1.0319 1.2654	1.0429 1.3170	1.1575	Ave		1.1829				9.1		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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 Calibration End Date: 07/30/2024 14:46 Calibration ID: 96058

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	+++++ 0.1681	+++++ 0.1627	0.1399 0.1679	0.1371 0.1614	0.1486	Ave		0.1551				8.4		15.0			
1,2,4-Trichlorobenzene	+++++ 0.6377	0.4531 0.6493	0.5096 0.6551	0.5026 0.6750	0.5655	Ave		0.5810				14.6		15.0			
Hexachlorobutadiene	+++++ 0.3041	0.2573 0.3001	0.2889 0.3025	0.2603 0.3060	0.2843	Ave		0.2879				6.8		15.0			
Naphthalene	+++++ 1.6780	1.2384 1.6726	1.2776 1.6805	1.2395 1.6749	1.4824	Ave		1.4930				14.1		15.0			
1,2,3-Trichlorobenzene	+++++ 0.5718	0.5008 0.5773	0.4723 0.5901	0.4662 0.5992	0.5085	Ave		0.5358				10.2		15.0			
Dibromofluoromethane (Surr)	0.2476 0.2500	0.2490 0.2471	0.2497 0.2537	0.2440 0.2533	0.2475	Ave		0.2491				1.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2531 0.2459	0.2522 0.2406	0.2503 0.2461	0.2532 0.2430	0.2525	Ave		0.2485				1.9		15.0			
Toluene-d8 (Surr)	4.2331 4.0991	4.2190 4.1026	4.3100 4.0584	4.1948 3.8632	4.1865	Ave		4.1407				3.1		15.0			
4-Bromofluorobenzene (Surr)	0.9046 0.8571	0.9339 0.8563	0.8982 0.8601	0.9045 0.8365	0.8729	Ave		0.8805				3.6		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 280-662184/27	G2_14230.D
Level 2	STD1 280-662184/28	G2_14231.D
Level 3	STD2 280-662184/29	G2_14232.D
Level 4	STD5 280-662184/30	G2_14233.D
Level 5	STD10 280-662184/31	G2_14234.D
Level 6	ICIS 280-662184/32	G2_14235.D
Level 7	STD75 280-662184/33	G2_14236.D
Level 8	STD100 280-662184/34	G2_14237.D
Level 9	STD200 280-662184/35	G2_14238.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	+++++ 648116	5447 946516	12516 1236421	63374 2578877	119953	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	+++++ 600968	+++++ 917617	15666 1222904	56887 2548955	112069	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	+++++ 692145	11534 1029655	18976 1373049	66314 2832113	125260	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 405334	+++++ 494315	+++++ 832079	37707 +++++	58031	+++++ 50.0	+++++ 75.0	+++++ 100	5.00 +++++	10.0
Chloroethane	FB	Ave	+++++ 469609	+++++ 698771	15321 924375	44367 1941596	85763	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	+++++ 976963	+++++ 1462770	30745 1962832	92462 4051776	174601	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	+++++ 746168	+++++ 1115291	22070 1484392	68786 3091391	131492	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	+++++ 408565	6064 577328	10358 862275	29441 1821417	68826	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Lin1	+++++ 555530	+++++ 850432	12674 1250758	28100 2583864	77693	+++++ 494	+++++ 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 372397	6074 526219	10690 763061	27056 1673669	65048	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	+++++ 478022	7353 664595	14391 977681	34170 2100593	83345	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin1	+++++ 533525	+++++ 769193	27160 1129006	35091 2266713	88974	+++++ 200	+++++ 300	8.00 400	20.0 800	40.0
Iodomethane	FB	Lin2	+++++ 540313	+++++ 859867	+++++ 1268259	25275 2805466	60600	+++++ 50.0	+++++ 75.0	+++++ 100	5.00 200	10.0
Carbon disulfide	FB	Ave	+++++ 1400981	24073 1996113	47414 2867012	109860 6042512	257350	+++++ 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.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

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
Methyl acetate	FB	Lin2	+++++ 700325	+++++ 971214	13264 1354748	38497 2911735	105922	+++++ 100	+++++ 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Ave	+++++ 677771	12242 915964	22746 1280837	53160 2366053	118922	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	+++++ 540443	8719 763115	18605 1105028	44051 2327768	96891	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Lin2	+++++ 601136	7956 849074	14112 1275110	47182 2533207	95535	+++++ 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Lin1	+++++ 1987540	+++++ 2881602	36020 4304278	105084 9003258	278562	+++++ 500	+++++ 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	+++++ 1618106	26187 2250610	50402 3346879	129120 7121573	277166	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 517882	8066 729314	15931 1080690	38256 2397577	92329	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZd5	Ave	+++++ 669133	10434 958966	18445 1353226	46966 2936760	117950	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Lin2	+++++ 1610068	17935 2179222	39154 3263662	115043 5914445	251859	+++++ 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	+++++ 932727	15589 1294514	27878 1900201	71809 4020897	156790	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Lin1	+++++ 878282	+++++ 1248922	24612 1911686	54712 4013012	131378	+++++ 200	+++++ 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Lin1	+++++ 579981	8171 829376	14931 1212781	40484 2669539	98686	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	+++++ 730179	13057 1025118	23282 1493505	54632 3229344	127309	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin1	+++++ 1063099	+++++ 1567983	11569 2333144	55398 4810408	131477	+++++ 1200	+++++ 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	+++++ 254498	3468 364121	7433 523675	19759 1092396	46699	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Lin1	+++++ 299674	+++++ 431651	6929 632610	15821 1302747	47969	+++++ 100	+++++ 150	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	+++++ 890622	15206 1254789	28852 1848546	69151 3880674	162110	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	+++++ 772491	13614 1090108	25375 1597048	60112 3420530	139997	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	+++++ 888360	15388 1264681	27815 1816221	66976 3894620	155854	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	+++++ 671415	10631 967594	21085 1414200	48468 3121316	117353	+++++ 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.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

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-Dichloropropene	FB	Ave	+++++ 707379	11444 1001592	20961 1480877	50894 3256863	118260	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Lin1	+++++ 421239	+++++ 608148	9478 885094	18264 1860388	53266	+++++ 1250	+++++ 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	+++++ 2187867	36198 3065556	70372 4496880	161329 9348555	381688	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	+++++ 648512	9925 903232	19814 1263650	47715 2763122	108871	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	+++++ 560638	9787 795366	16136 1120345	40472 2415085	97119	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZd 5	Ave	+++++ 529888	7908 763438	16797 1138960	39419 2473893	89653	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Lin2	+++++ 1116619	12518 1748460	33321 2436989	75816 4962947	184650	+++++ 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	+++++ 638889	9787 908993	19621 1305716	48267 2842467	113445	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	+++++ 563267	7954 795141	17386 1163630	43420 2494015	98873	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	+++++ 148743	+++++ 222749	3016 313423	11154 665189	24721	+++++ 1000	+++++ 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	+++++ 335693	5223 468817	10257 695271	25753 1493945	57991	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	+++++ 700813	11808 988407	22175 1465892	51643 3100422	120339	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Lin1	+++++ 327689	+++++ 509316	6830 699267	18097 1463674	46754	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZd 5	Ave	+++++ 820903	12751 1171642	23303 1744342	59511 3704035	140811	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin2	+++++ 2080284	24737 2932665	51737 4312954	151251 8666210	344384	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	+++++ 2333194	37322 3330800	79836 4829443	178729 10046525	420949	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Lin1	+++++ 795102	11073 1128267	21877 1697728	52552 3602549	124151	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZd 5	Lin2	+++++ 770786	+++++ 1061685	14515 1592877	48422 3339817	112330	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 499578	8546 706728	16616 1041962	38168 2197551	88733	+++++ 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.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

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
Tetrachloroethene	CBNZd5	Ave	+++++ 429703	7263 616187	13309 899543	32497 1999298	74501	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 865929	12673 1217046	27290 1808582	64670 3771918	147259	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZd5	Lin2	+++++ 1426738	9837 2090314	29332 3029585	93995 6157627	224076	+++++ 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZd5	Ave	4900 576476	9285 802787	16726 1199886	46091 2580739	99156	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZd5	Ave	+++++ 504814	7239 718793	14496 1061701	37892 2252900	87326	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZd5	Ave	+++++ 626367	12252 893368	21665 1293153	47204 2818922	108683	+++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZd5	Ave	+++++ 1526997	26210 2173733	46819 3183211	115552 6741059	266963	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 553075	8673 779748	16807 1170392	41154 2612841	95000	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZd5	Ave	+++++ 836019	11997 1197750	24189 1769234	59124 3971490	143248	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZd5	Ave	+++++ 975506	14935 1423714	30719 2008801	64628 4410666	164541	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZd5	Ave	+++++ 984584	15707 1429544	29149 2067822	75006 4537823	168884	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZd5	Lin1	+++++ 1665887	23019 2427574	41674 3545700	112484 7713232	275019	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZd5	Ave	+++++ 400757	6569 580493	12005 852851	30573 1831578	66515	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd4	Ave	+++++ 2494145	36849 3619642	78522 5192655	180084 10844274	436928	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZd5	Ave	+++++	+++++	23958	75869	167239	+++++	+++++	60.0	150	300

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

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
			1027793	1506509	2136226	4308218		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd4	Ave	+++++ 702256	12024 992107	23014 1461901	56003 3035881	128389	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd4	Ave	+++++ 629317	8888 911542	18188 1336274	44604 2942990	106606	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Lin2	+++++ 166501	+++++ 241279	2428 356669	10447 752185	24111	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd4	Ave	+++++ 217431	2724 311644	6437 449601	17991 942322	37677	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd4	Ave	+++++ 677377	10026 981214	18698 1423975	48629 3132487	114579	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd4	Ave	+++++ 589741	9330 854895	18385 1247091	43944 2700474	101857	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	+++++ 1926535	29363 2811043	61168 4048083	141001 8721491	335805	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd4	Ave	+++++ 612899	9207 883864	17346 1285446	45889 2828269	101496	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd4	Ave	+++++ 1677021	28179 2445821	52506 3505549	124106 7516340	296190	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	+++++ 1902147	29712 2776934	59587 4018518	147256 8607791	330427	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd4	Ave	+++++ 507629	7741 751103	15843 1086864	37283 2368048	88052	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd4	Ave	+++++ 1142226	15927 1666525	31786 2427931	79542 5311915	196433	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 2039356	32224 2946916	62319 4234599	152026 9089496	357063	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd4	Ave	+++++ 1173082	20085 1728771	35490 2503820	88100 5457636	212529	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd4	Ave	+++++ 1776101	23031 2587374	50984 3708954	124867 8124443	298282	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 1113067	18021 1649522	31812 2375301	82621 5279110	188951	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 147907	+++++ 215336	4314 315146	10863 647013	24254	+++++ 50.0	+++++ 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 561034	7185 859234	15709 1229774	39819 2705703	92315	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 267494	4080 397176	8905 567734	20620 1226568	46406	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd4	Ave	+++++ 1476256	19637 2213502	39385 3154406	98194 6714142	241992	+++++ 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.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 11:58 | Calibration End Date: 07/30/2024 14:46 | Calibration ID: 96058

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
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 503036	7941 763953	14560 1107643	36934 2401764	83014	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	524723 546447	525730 528658	509228 583677	508440 618275	511276	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	536372 537323	532433 514751	510563 566125	527555 592937	521640	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	2168093 2213027	2126232 2180397	2087193 2325046	2092352 2434970	2112430	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd4	Ave	713482 754053	740408 755458	692219 807275	716556 838298	712445	50.0 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

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14230.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Jul-2024 11:58:30 ALS Bottle#: 1 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:12 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 17:41:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.403	-0.004	99	2118979	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	85	512179	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	95	788735	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.928	-0.004	93	524723	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	97	536372	50.0	50.9	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	92	2168093	50.0	51.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	90	713482	50.0	51.4	
9 Dichlorodifluoromethane	85		1.342				ND	ND	
10 Chloromethane	50	1.544	1.551	-0.007	30	5343	0.5000	0.4838	
11 Vinyl chloride	62	1.563	1.562	0.001	95	6381	0.5000	0.5119	
12 Bromomethane	94	1.791	1.783	0.008	76	3965	0.5000	0.5558	
13 Chloroethane	64		1.869				ND	ND	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	95	7878	0.5000	0.4355	
15 Trichlorofluoromethane	101	2.038	2.049	-0.011	95	7021	0.5000	0.5161	
18 Ethyl ether	59	2.236	2.236	0.000	84	2654	0.5000	0.3798	
19 Acrolein	56		2.333				ND	ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	73	1829	0.5000	0.2798	
21 1,1-Dichloroethene	96	2.405	2.401	0.004	93	4830	0.5000	0.5809	
22 Acetone	43		2.427				ND	ND	
23 Iodomethane	142		2.509				ND	ND	
25 Carbon disulfide	76	2.562	2.562	0.000	98	23849	0.5000	0.9367	
26 Methyl acetate	43		2.633				ND	ND	
16 3-Chloro-1-propene	41	2.640	2.644	-0.004	28	2902	0.5000	0.2459	
28 Methylene Chloride	84	2.734	2.734	0.000	83	5405	0.5000	0.5533	
29 2-Methyl-2-propanol	59	2.782	2.782	0.000	35	1454	5.00	4.94	
30 Acrylonitrile	53	2.925	2.883	0.042	28	1188	5.00	15.8	
31 Methyl tert-butyl ether	73	2.891	2.898	-0.007	42	6394	0.5000	0.2224	
32 trans-1,2-Dichloroethene	96	2.913	2.910	0.003	89	5579	0.5000	0.6059	
33 Hexane	57	3.089	3.089	0.000	92	5519	0.5000	0.4851	
35 Vinyl acetate	43	3.213	3.194	0.019	28	1939	1.00	0.9614	
34 1,1-Dichloroethane	63	3.205	3.202	0.003	94	9323	0.5000	0.5696	

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	3.617	3.572	0.045	59	10366	2.00	6.64	
40 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	8	1956	0.5000	0.7270	
41 2,2-Dichloropropane	77		3.591				ND	ND	
44 sec-Butyl Alcohol	45		3.688				ND	ND	
46 Chlorobromomethane	128	3.759	3.755	0.004	2	1205	0.5000	0.2719	
47 Tetrahydrofuran	42		3.763				ND	ND	
48 Chloroform	83	3.812	3.815	-0.003	92	8428	0.5000	0.5241	
49 1,1,1-Trichloroethane	97	3.931	3.939	-0.008	35	3324	0.5000	0.2367	
50 Cyclohexane	56	3.991	3.991	0.000	85	8568	0.5000	0.5395	
51 Carbon tetrachloride	117	4.047	4.047	0.000	96	5973	0.5000	0.4983	
52 1,1-Dichloropropene	75	4.055	4.051	0.004	92	6978	0.5000	0.5606	
53 Isobutyl alcohol	41	3.995	4.092	-0.097	52	2828	12.5	47.2	
54 Benzene	78	4.197	4.193	0.004	88	17161	0.5000	0.4432	
55 1,2-Dichloroethane	62		4.227				ND	ND	
57 n-Heptane	43		4.384				ND	ND	
59 Trichloroethene	95	4.669	4.669	0.001	51	2989	0.5000	0.3222	
60 2-Pentanone	43		4.781				ND	ND	
61 Methylcyclohexane	55		4.844				ND	ND	
62 1,2-Dichloropropane	63	4.867	4.863	0.004	84	4539	0.5000	0.4599	
64 1,4-Dioxane	88		4.915				ND	ND	
65 Dibromomethane	93	4.942	4.934	0.008	50	2155	0.5000	0.3641	
66 Dichlorobromomethane	83	5.065	5.058	0.007	94	4517	0.5000	0.3620	
68 2-Chloroethyl vinyl ether	63		5.271				ND	ND	
69 cis-1,3-Dichloropropene	75		5.402				ND	ND	
70 4-Methyl-2-pentanone (MIBK)	43	5.518	5.507	0.011	92	9089	2.00	2.59	
71 Toluene	91	5.679	5.675	0.004	98	27078	0.5000	0.6451	
72 trans-1,3-Dichloropropene	75		5.862				ND	ND	
73 Ethyl methacrylate	69		5.896				ND	ND	
74 1,1,2-Trichloroethane	97	6.031	6.023	0.008	67	3070	0.5000	0.3400	
75 Tetrachloroethene	164	6.109	6.102	0.007	43	2787	0.5000	0.3662	
76 1,3-Dichloropropane	76	6.169	6.165	0.004	80	5904	0.5000	0.3966	
77 2-Hexanone	43		6.199				ND	ND	
78 Chlorodibromomethane	129	6.353	6.349	0.004	82	4900	0.5000	0.4896	
79 Ethylene Dibromide	107	6.465	6.457	0.008	91	4147	0.5000	0.4799	
80 1-Chlorohexane	91	6.862	6.861	0.001	33	8085	0.4000	0.5685	
81 Chlorobenzene	112	6.888	6.888	0.000	91	16168	0.5000	0.6017	
82 1,1,1,2-Tetrachloroethane	131	6.966	6.959	0.007	31	2286	0.5000	0.2363	
83 Ethylbenzene	106	6.981	6.970	0.011	98	2929	0.5000	0.2040	
84 m-Xylene & p-Xylene	106	7.090	7.090	0.000	38	2779	0.5000	0.1658	
85 o-Xylene	106	7.442	7.438	0.004	93	7615	0.5000	0.4418	
86 Styrene	104	7.479	7.456	0.023	79	3685	0.5000	0.6255	
87 Bromoform	173		7.625				ND	ND	
88 Isopropylbenzene	105	7.778	7.778	0.000	94	21263	0.5000	0.5169	
89 Cyclohexanone	55	7.872	7.861	0.011	89	3031	15.0	5.27	
91 1,1,2,2-Tetrachloroethane	83	8.078	8.070	0.008	65	5493	0.5000	0.4580	
92 Bromobenzene	156	8.085	8.078	0.007	94	5698	0.5000	0.5539	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	ND	
94 1,2,3-Trichloropropane	110	8.134	8.126	0.008	74	1115	0.5000	0.3149	
95 N-Propylbenzene	120	8.175	8.171	0.004	61	2498	0.5000	0.2260	
96 2-Chlorotoluene	126	8.261	8.257	0.004	95	4186	0.5000	0.4231	
97 1,3,5-Trimethylbenzene	105	8.355	8.347	0.008	94	15479	0.5000	0.4810	
98 4-Chlorotoluene	126	8.385	8.373	0.012	20	1845	0.5000	0.1835	

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	8.647	8.647	0.001	92	16164	0.5000	0.5709	
100 1,2,4-Trimethylbenzene	105	8.710	8.706	0.004	95	17732	0.5000	0.5538	
101 sec-Butylbenzene	134	8.867	8.864	0.003	93	4128	0.5000	0.4839	
102 1,3-Dichlorobenzene	146		8.980				ND	ND	
103 4-Isopropyltoluene	119	9.017	9.013	0.004	96	22733	0.5000	0.6692	
104 1,4-Dichlorobenzene	146	9.073	9.077	-0.004	43	3883	0.5000	0.1937	
106 n-Butylbenzene	91	9.421	9.410	0.011	96	18430	0.5000	0.6452	
107 1,2-Dichlorobenzene	146	9.432	9.425	0.007	90	9785	0.5000	0.5244	
108 1,2-Dibromo-3-Chloropropane	157		10.200				ND	ND	
110 1,2,4-Trichlorobenzene	180	11.019	11.012	0.007	88	7315	0.5000	0.7981	
111 Hexachlorobutadiene	225	11.161	11.158	0.003	92	4638	0.5000	1.02	
112 Naphthalene	128	11.285	11.270	0.015	93	15679	0.5000	0.6657	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	92	6446	0.5000	0.7627	
S 115 1,2-Dichloroethene, Total	1				0		1.00	1.33	
S 116 1,3-Dichloropropene, Total	1				0		1.00	0	
S 117 Xylenes, Total	106				0		1.00	0.6076	
S 118 Total BTEX	1				0			1.90	
S 119 Trihalomethanes, Total	1				0		2.00	1.38	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

Cal Dil Std B_00006	Amount Added:	5.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 31-Jul-2024 11:07:13 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14230.D

Injection Date:	30-Jul-2024 11:58:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD05			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14231.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Jul-2024 12:19:30 ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:17 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:16:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2111172	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	503962	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	792815	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.928	-0.004	93	525730	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	532433	50.0	50.7	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	2126232	50.0	50.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	89	740408	50.0	53.0	
9 Dichlorodifluoromethane	85	1.346	1.342	0.004	97	5447	1.00	0.8771	
10 Chloromethane	50	1.544	1.551	-0.007	26	9964	1.00	0.9056	M
11 Vinyl chloride	62	1.563	1.562	0.001	94	11534	1.00	0.9287	M
12 Bromomethane	94	1.798	1.783	0.015	80	6894	1.00	0.9699	M
13 Chloroethane	64	1.873	1.869	0.004	98	5999	1.00	0.6903	
14 Dichlorofluoromethane	67	2.027	2.023	0.004	96	16776	1.00	0.9309	M
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	11642	1.00	0.8589	
18 Ethyl ether	59	2.244	2.236	0.008	89	6064	1.00	0.8709	
19 Acrolein	56	2.360	2.333	0.027	23	4571	9.88	18.8	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.405	2.401	0.004	76	6074	1.00	0.9328	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	96	7353	1.00	0.8875	
22 Acetone	43	2.446	2.427	0.019	65	13840	4.00	5.13	M
23 Iodomethane	142		2.509				ND	ND	
25 Carbon disulfide	76	2.566	2.562	0.004	98	24073	1.00	0.9490	
26 Methyl acetate	43		2.633				ND	ND	
16 3-Chloro-1-propene	41	2.648	2.644	0.004	91	12242	1.00	1.04	
28 Methylene Chloride	84	2.734	2.734	0.000	84	8719	1.00	0.8958	
29 2-Methyl-2-propanol	59	2.790	2.782	0.008	90	7956	10.0	10.9	
30 Acrylonitrile	53	2.929	2.883	0.046	51	20171	10.0	20.7	M
31 Methyl tert-butyl ether	73	2.895	2.898	-0.003	94	26187	1.00	0.9142	
32 trans-1,2-Dichloroethene	96	2.921	2.910	0.011	95	8066	1.00	0.8793	
33 Hexane	57	3.093	3.089	0.004	87	10434	1.00	0.9320	
35 Vinyl acetate	43	3.217	3.194	0.023	38	17935	2.00	2.11	M
34 1,1-Dichloroethane	63	3.205	3.202	0.003	94	15589	1.00	0.9559	

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		3.572				ND	ND	
40 cis-1,2-Dichloroethene	96	3.595	3.587	0.008	81	8171	1.00	1.28	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	81	13057	1.00	1.00	
44 sec-Butyl Alcohol	45		3.688				ND	ND	
46 Chlorobromomethane	128	3.759	3.755	0.004	90	3468	1.00	0.7853	
47 Tetrahydrofuran	42		3.763				ND	ND	
48 Chloroform	83	3.819	3.815	0.004	92	15206	1.00	0.9490	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	36	13614	1.00	0.9729	
50 Cyclohexane	56	3.991	3.991	0.000	87	15388	1.00	0.9724	
51 Carbon tetrachloride	117	4.051	4.047	0.004	95	10631	1.00	0.8902	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	89	11444	1.00	0.9228	
53 Isobutyl alcohol	41	4.119	4.092	0.027	23	1062	25.0	41.8	
54 Benzene	78	4.193	4.193	0.000	93	36198	1.00	0.9383	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	96	9925	1.00	0.8928	a
57 n-Heptane	43	4.384	4.384	0.000	44	9787	1.00	1.00	a
59 Trichloroethene	95	4.680	4.669	0.012	96	7908	1.00	0.8664	
60 2-Pentanone	43	4.841	4.781	0.060	3	12518	3.20	3.28	M
61 Methylcyclohexane	55	4.841	4.844	-0.003	80	9787	1.00	0.8710	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	90	7954	1.00	0.8089	
64 1,4-Dioxane	88		4.915				ND	ND	
65 Dibromomethane	93	4.938	4.934	0.004	93	5223	1.00	0.8858	M
66 Dichlorobromomethane	83	5.069	5.058	0.011	96	11808	1.00	0.9499	M
68 2-Chloroethyl vinyl ether	63	5.294	5.271	0.023	1	1557	1.00	1.62	
69 cis-1,3-Dichloropropene	75	5.410	5.402	0.008	96	12751	1.00	0.9169	M
70 4-Methyl-2-pentanone (MIBK)	43	5.514	5.507	0.007	93	24737	4.00	4.26	
71 Toluene	91	5.675	5.675	0.000	97	37322	1.00	0.8925	
72 trans-1,3-Dichloropropene	75	5.877	5.862	0.015	68	11073	1.00	1.29	M
73 Ethyl methacrylate	69		5.896				ND	ND	
74 1,1,2-Trichloroethane	97	6.027	6.023	0.004	84	8546	1.00	0.9500	
75 Tetrachloroethene	164	6.106	6.102	0.004	93	7263	1.00	0.9698	
76 1,3-Dichloropropane	76	6.173	6.165	0.008	87	12673	1.00	0.8651	
77 2-Hexanone	43	6.225	6.199	0.026	87	9837	4.00	4.22	
78 Chlorodibromomethane	129	6.353	6.349	0.004	83	9285	1.00	0.9428	
79 Ethylene Dibromide	107	6.461	6.457	0.004	69	7239	1.00	0.8514	M
80 1-Chlorohexane	91	6.869	6.861	0.008	35	12252	0.8000	0.8756	M
81 Chlorobenzene	112	6.888	6.888	0.000	96	26210	1.00	0.99	
82 1,1,1,2-Tetrachloroethane	131	6.966	6.959	0.007	92	8673	1.00	0.9112	
83 Ethylbenzene	106	6.974	6.970	0.004	98	11997	1.00	0.8491	
84 m-Xylene & p-Xylene	106	7.090	7.090	0.000	97	14935	1.00	0.9056	Ma
85 o-Xylene	106	7.442	7.438	0.004	94	15707	1.00	0.9261	
86 Styrene	104	7.464	7.456	0.008	94	23019	1.00	1.25	M
87 Bromoform	173	7.625	7.625	0.000	88	6569	1.00	0.9506	
88 Isopropylbenzene	105	7.779	7.778	0.000	95	36849	1.00	0.8911	
89 Cyclohexanone	55	7.868	7.861	0.007	90	11885	30.0	21.0	
91 1,1,2,2-Tetrachloroethane	83	8.078	8.070	0.008	93	12024	1.00	1.00	
92 Bromobenzene	156	8.085	8.078	0.007	89	8888	1.00	0.8596	
93 trans-1,4-Dichloro-2-butene	53		8.111				ND	ND	
94 1,2,3-Trichloropropane	110	8.127	8.126	0.001	83	2724	1.00	0.7653	
95 N-Propylbenzene	120	8.179	8.171	0.008	99	10026	1.00	0.9023	
96 2-Chlorotoluene	126	8.261	8.257	0.004	97	9330	1.00	0.9381	
97 1,3,5-Trimethylbenzene	105	8.355	8.347	0.008	94	29363	1.00	0.9078	
98 4-Chlorotoluene	126	8.388	8.373	0.015	97	9207	1.00	0.9110	M

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	8.647	8.647	0.001	91	28179	1.00	0.99	
100 1,2,4-Trimethylbenzene	105	8.710	8.706	0.004	96	29712	1.00	0.9232	
101 sec-Butylbenzene	134	8.860	8.864	-0.004	93	7741	1.00	0.9027	
102 1,3-Dichlorobenzene	146	8.984	8.980	0.004	97	15927	1.00	0.8531	
103 4-Isopropyltoluene	119	9.017	9.013	0.004	95	32224	1.00	0.9437	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	87	20085	1.00	1.00	
106 n-Butylbenzene	91	9.418	9.410	0.008	96	23031	1.00	0.8021	
107 1,2-Dichlorobenzene	146	9.433	9.425	0.008	95	18021	1.00	0.9608	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	75	1065	1.00	0.4330	
110 1,2,4-Trichlorobenzene	180	11.019	11.012	0.007	89	7185	1.00	0.7799	
111 Hexachlorobutadiene	225	11.154	11.158	-0.004	93	4080	1.00	0.8937	
112 Naphthalene	128	11.277	11.270	0.007	95	19637	1.00	0.8295	
113 1,2,3-Trichlorobenzene	180	11.495	11.494	0.001	92	7941	1.00	0.9347	
S 115 1,2-Dichloroethene, Total	1				0		2.00	2.16	
S 116 1,3-Dichloropropene, Total	1				0		2.00	2.21	
S 117 Xylenes, Total	106				0		2.00	1.83	
S 118 Total BTEX	1				0			4.51	
S 119 Trihalomethanes, Total	1				0		4.00	3.79	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

Cal Dil Std B_00006	Amount Added:	10.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 31-Jul-2024 11:07:17 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D

Injection Date:	30-Jul-2024 12:19:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD1			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

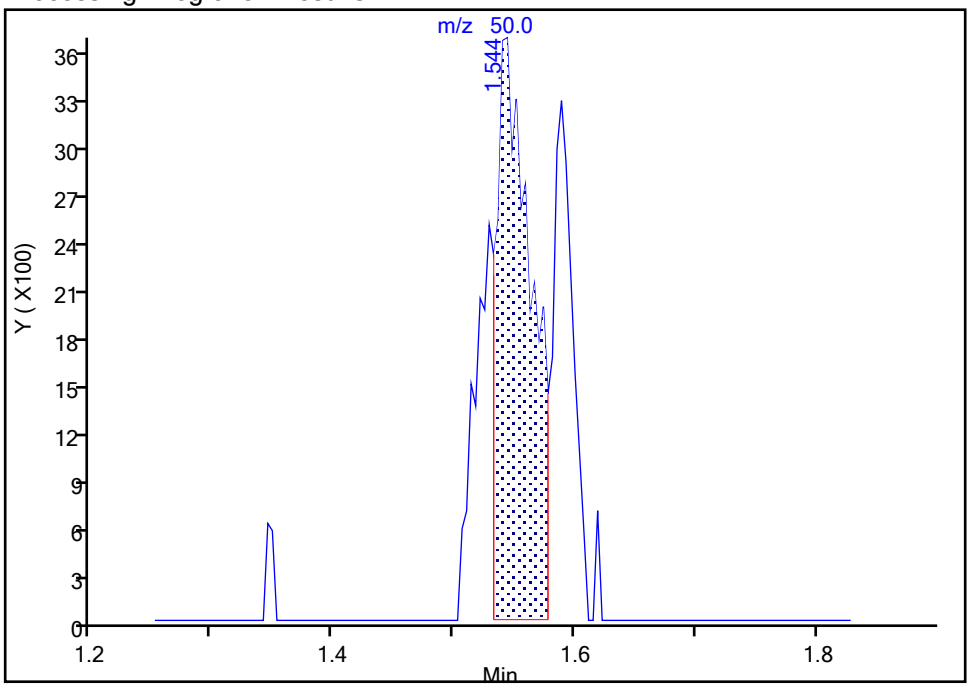
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

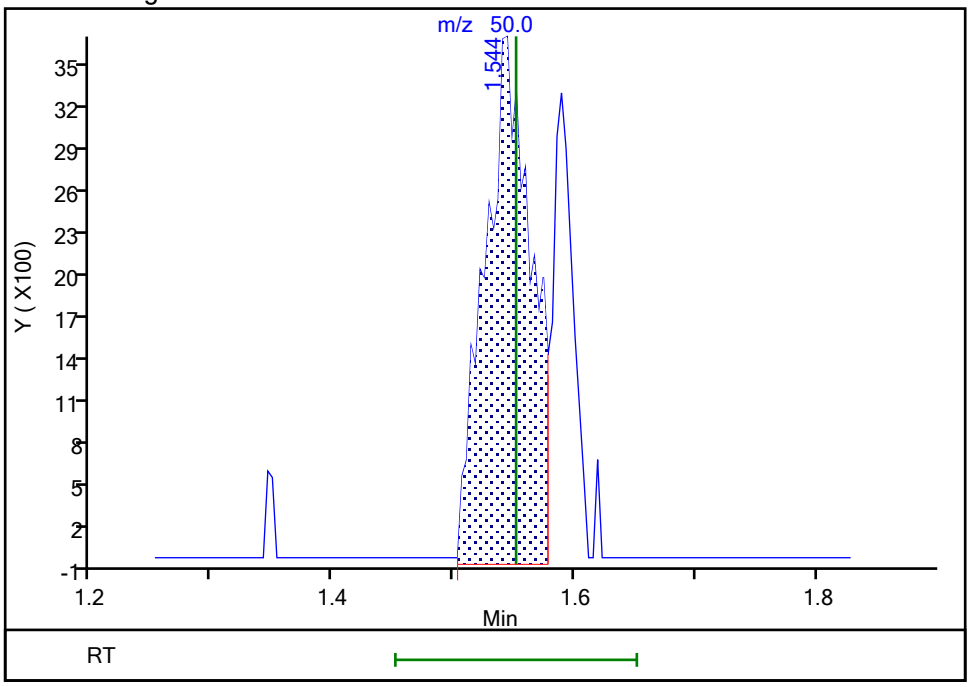
Processing Integration Results

RT: 1.54
Area: 7397
Amount: 0.672085
Amount Units: ug/l



Manual Integration Results

RT: 1.54
Area: 9964
Amount: 0.905620
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:42:14 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

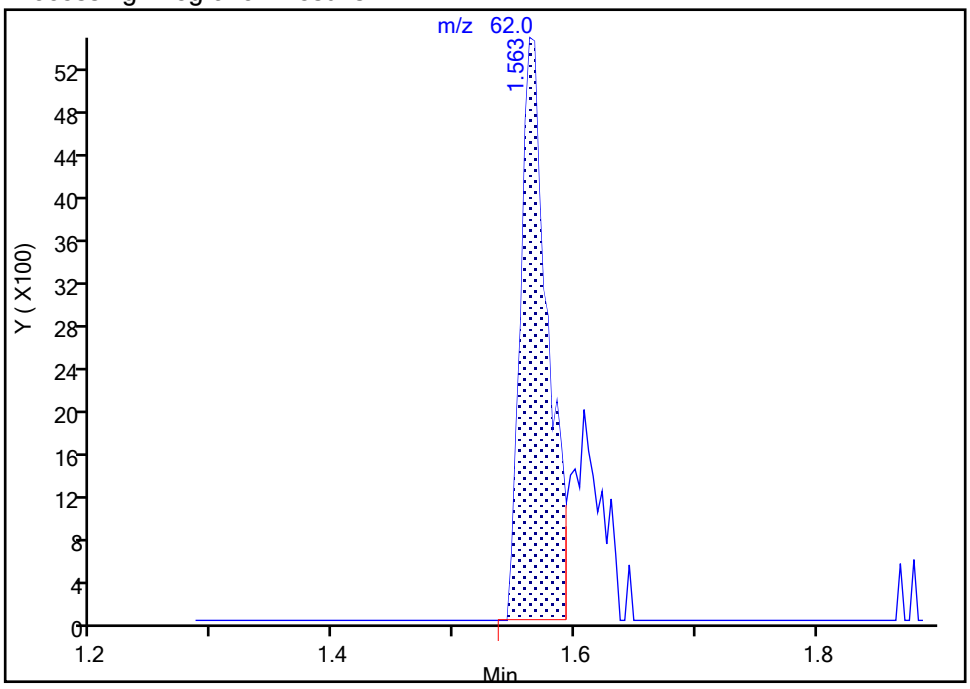
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

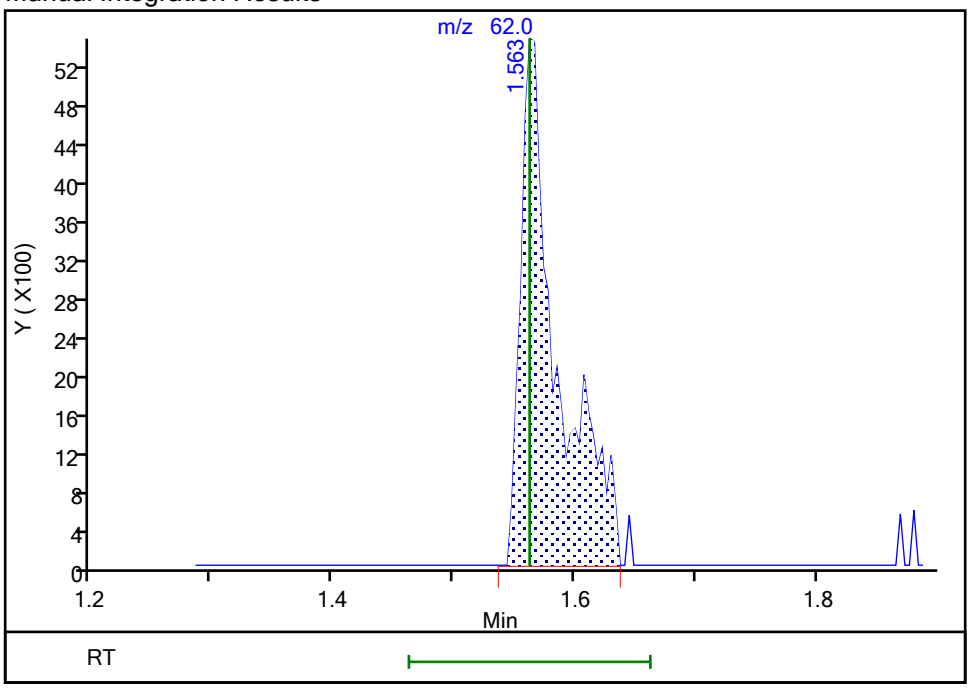
Processing Integration Results

RT: 1.56
Area: 8455
Amount: 0.673671
Amount Units: ug/l



Manual Integration Results

RT: 1.56
Area: 11534
Amount: 0.928662
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:42:45 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

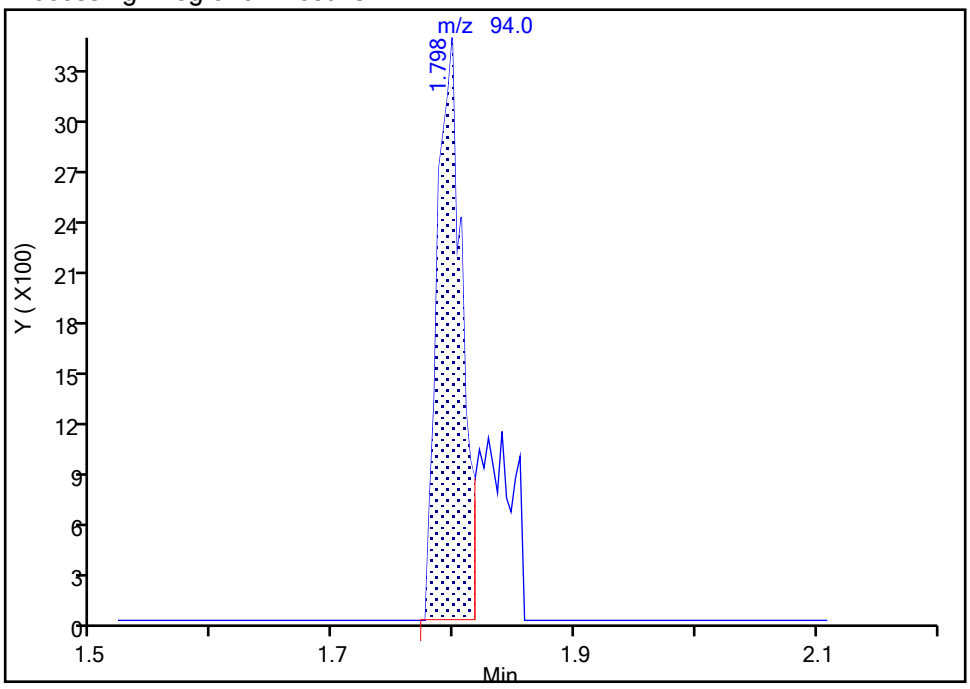
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

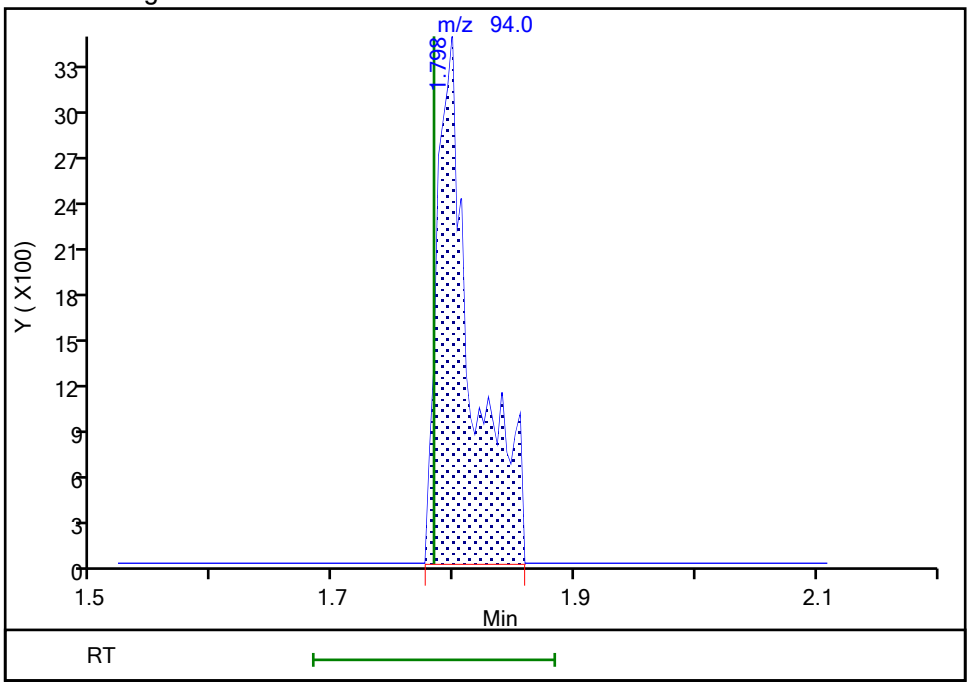
Processing Integration Results

RT: 1.80
Area: 4881
Amount: 0.749504
Amount Units: ug/l



Manual Integration Results

RT: 1.80
Area: 6894
Amount: 0.969886
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:42:39 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Eurofins Denver

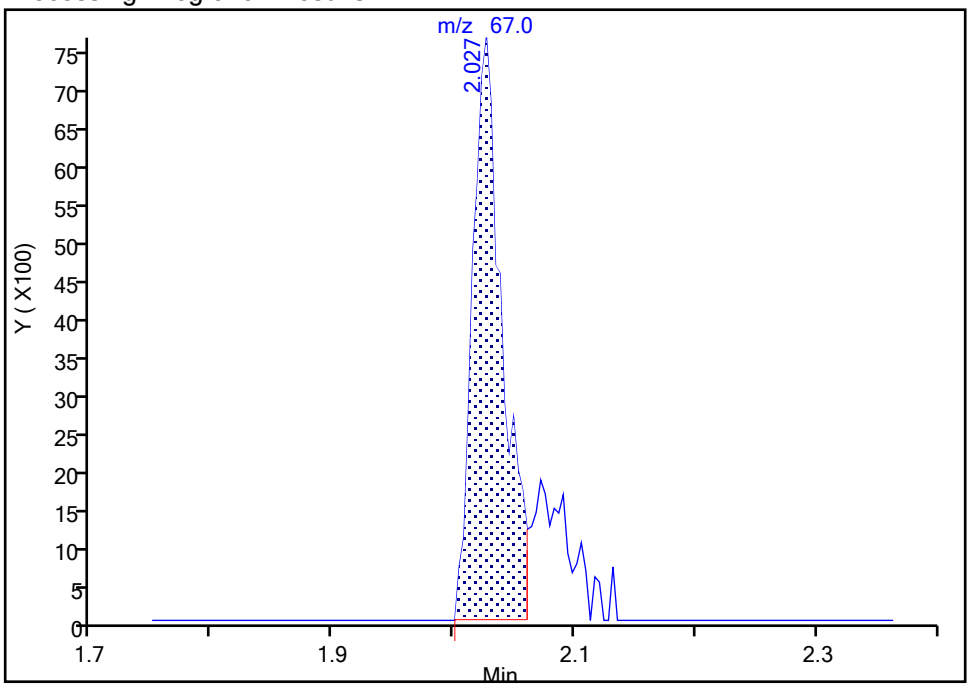
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

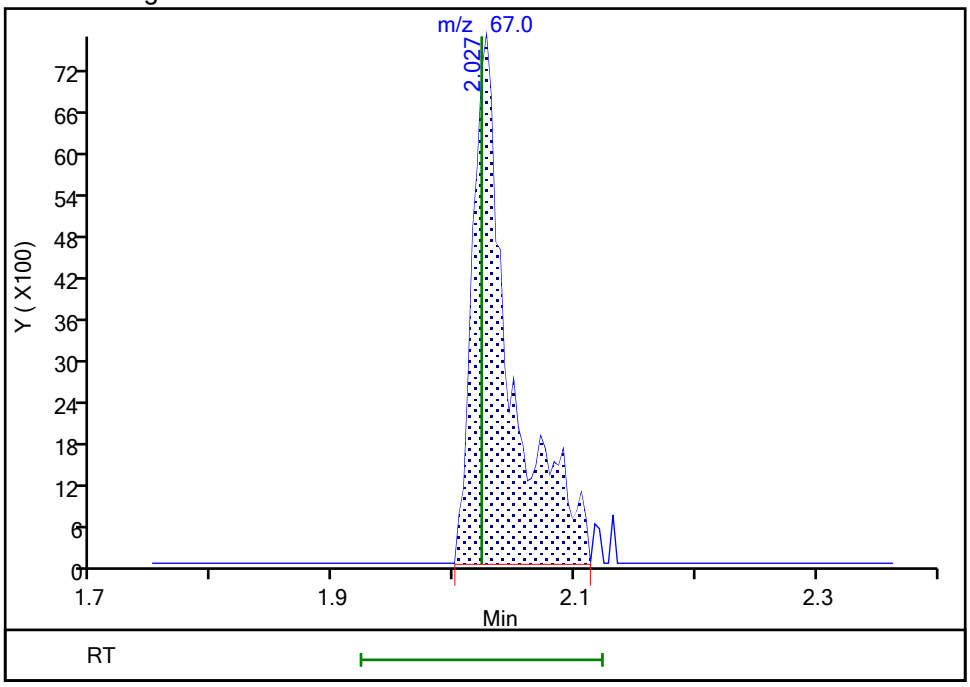
Processing Integration Results

RT: 2.03
Area: 13198
Amount: 0.732139
Amount Units: ug/l



Manual Integration Results

RT: 2.03
Area: 16776
Amount: 0.930921
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:42:59 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Eurofins Denver

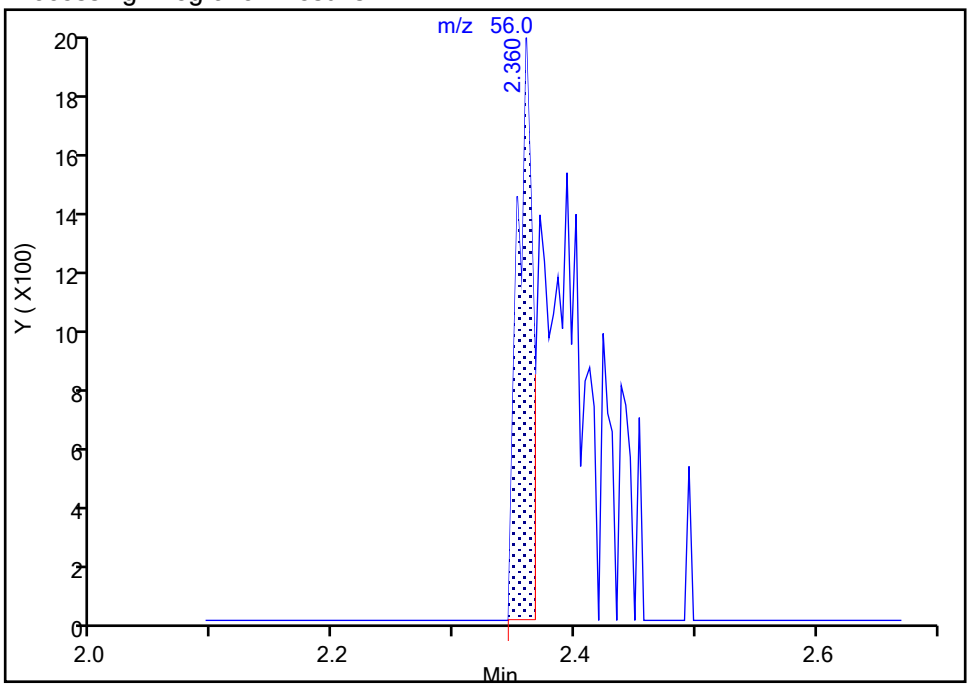
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

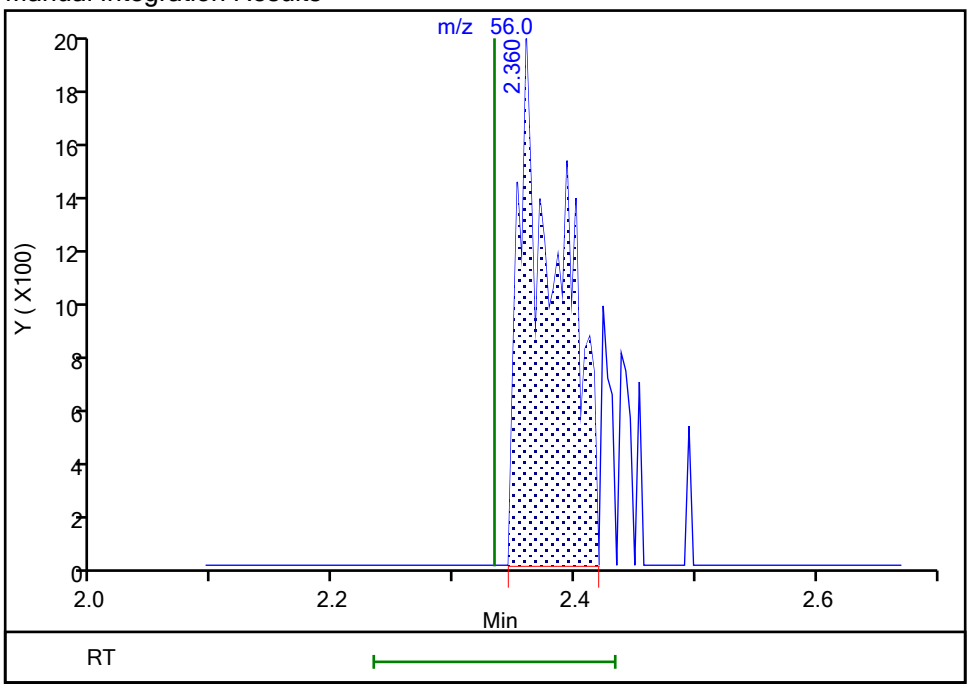
Processing Integration Results

RT: 2.36
Area: 1642
Amount: 16.298163
Amount Units: ug/l



Manual Integration Results

RT: 2.36
Area: 4571
Amount: 18.808082
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:43:26 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

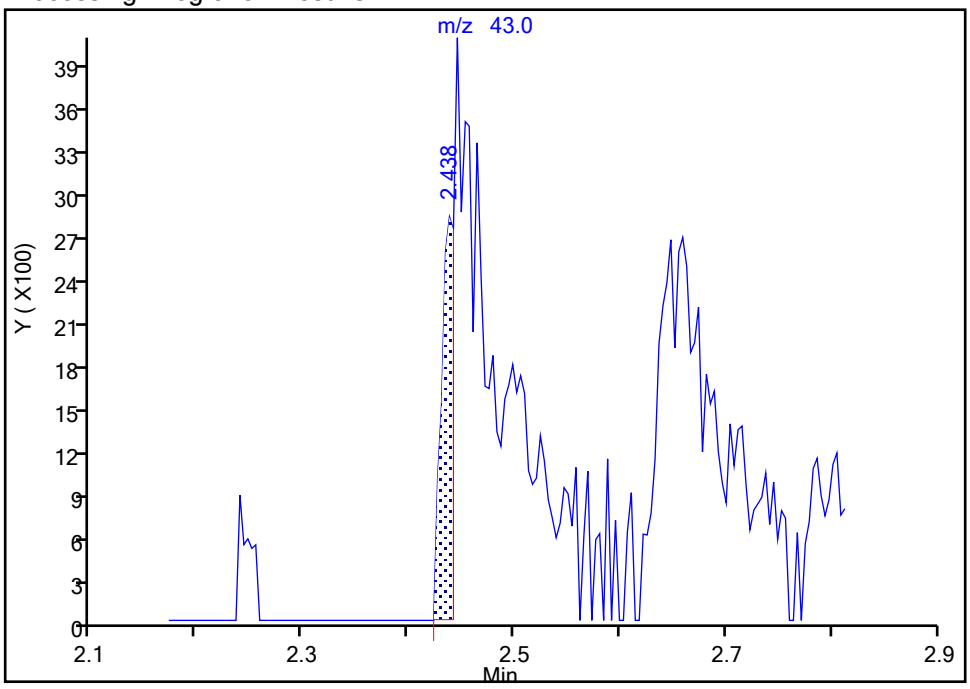
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

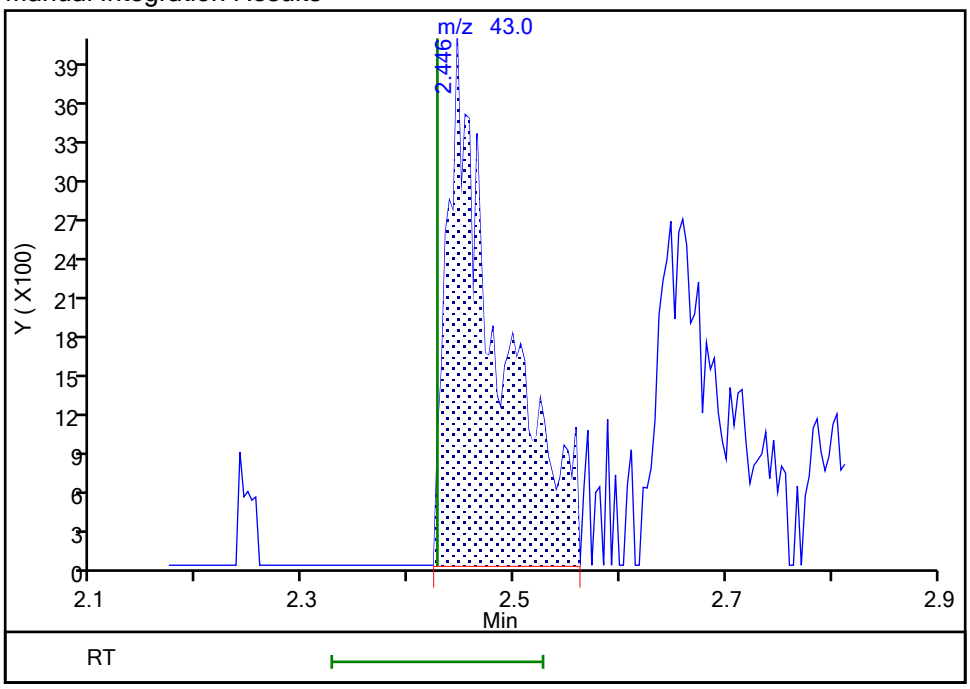
Processing Integration Results

RT: 2.44
Area: 2393
Amount: 2.529859
Amount Units: ug/l



Manual Integration Results

RT: 2.45
Area: 13840
Amount: 5.126131
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:43:32 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

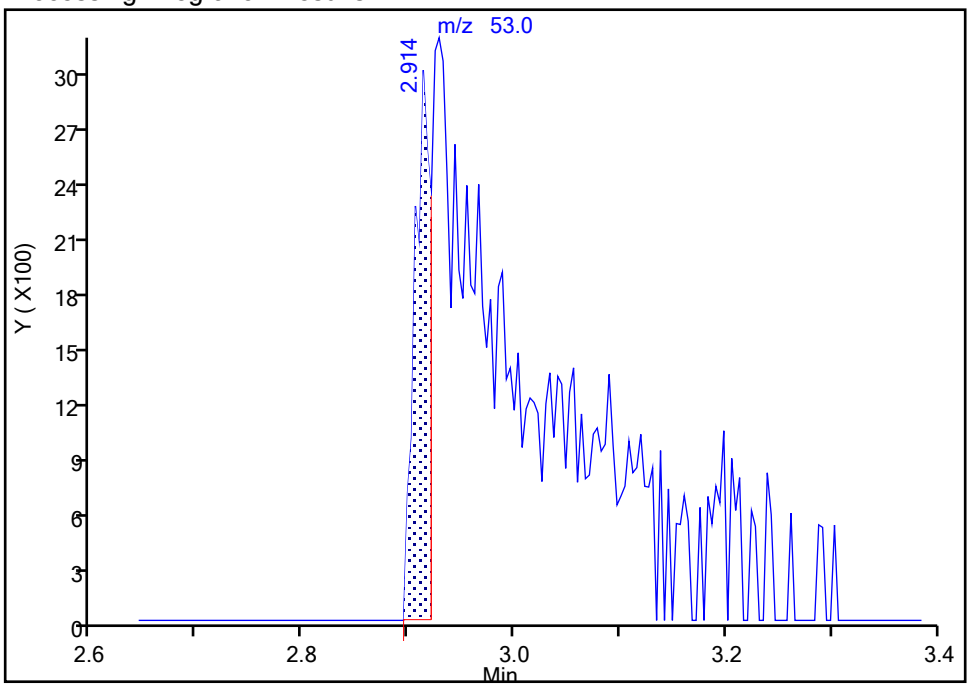
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

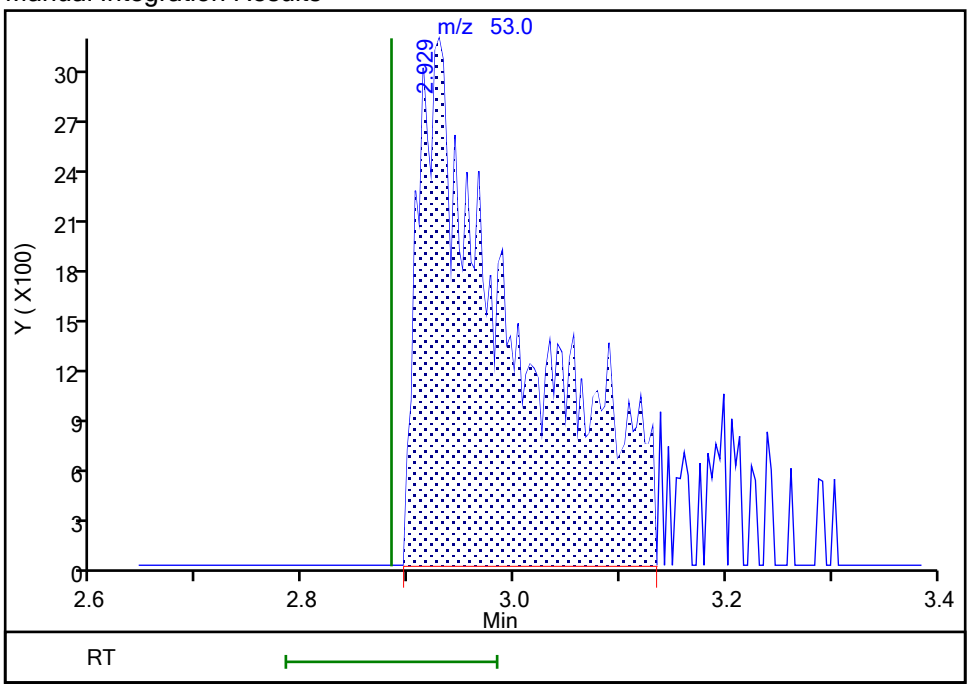
Processing Integration Results

RT: 2.91
Area: 3081
Amount: 13.819729
Amount Units: ug/l



Manual Integration Results

RT: 2.93
Area: 20171
Amount: 20.665291
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:43:48 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

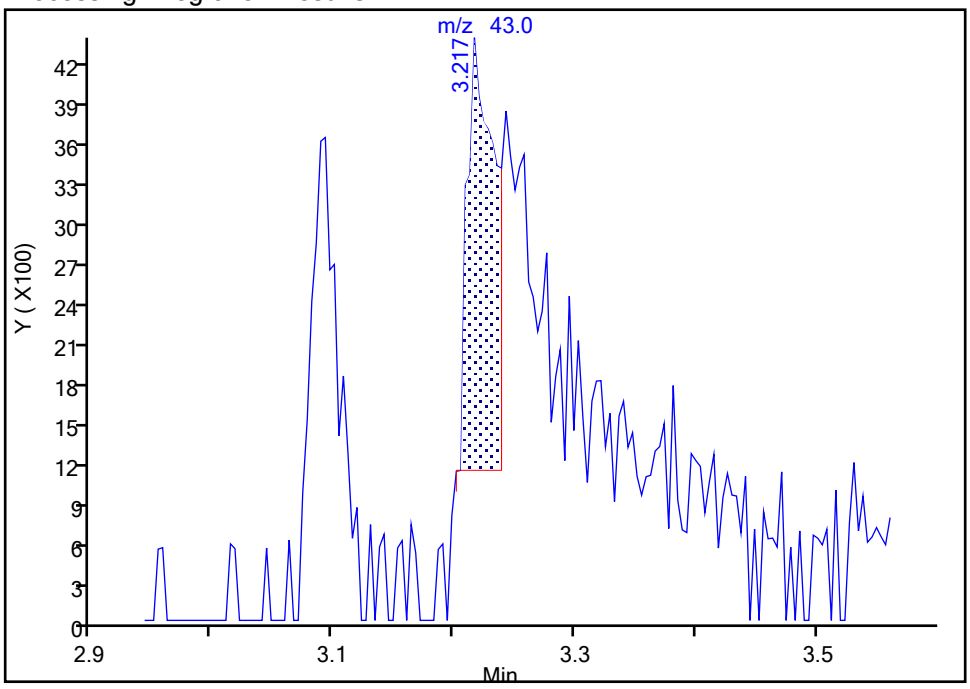
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

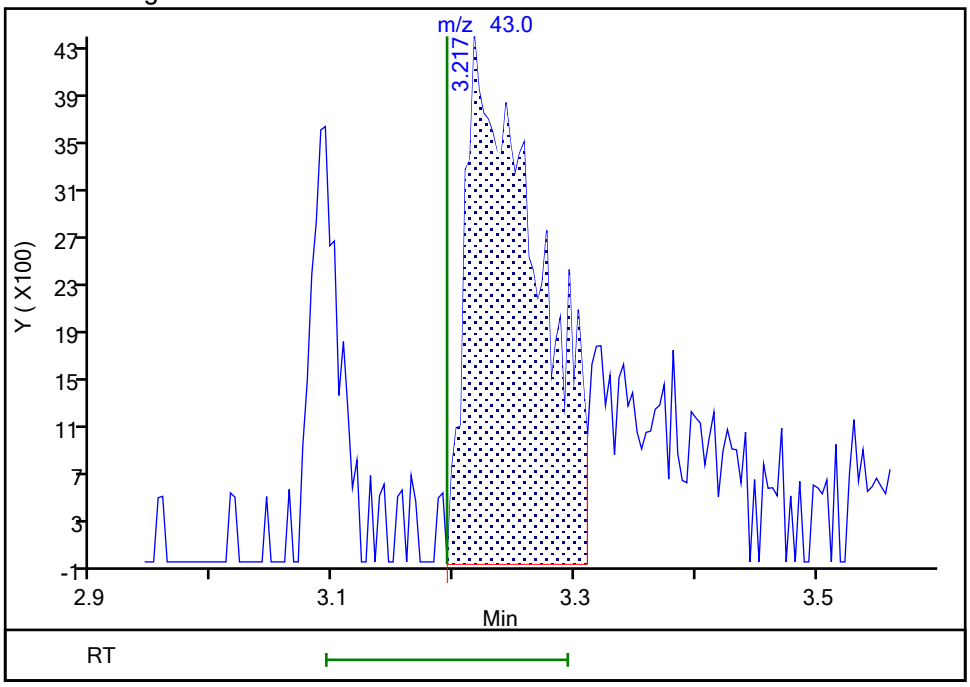
Processing Integration Results

RT: 3.22
Area: 5033
Amount: 1.925559
Amount Units: ug/l



Manual Integration Results

RT: 3.22
Area: 17935
Amount: 2.105306
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:18:11 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

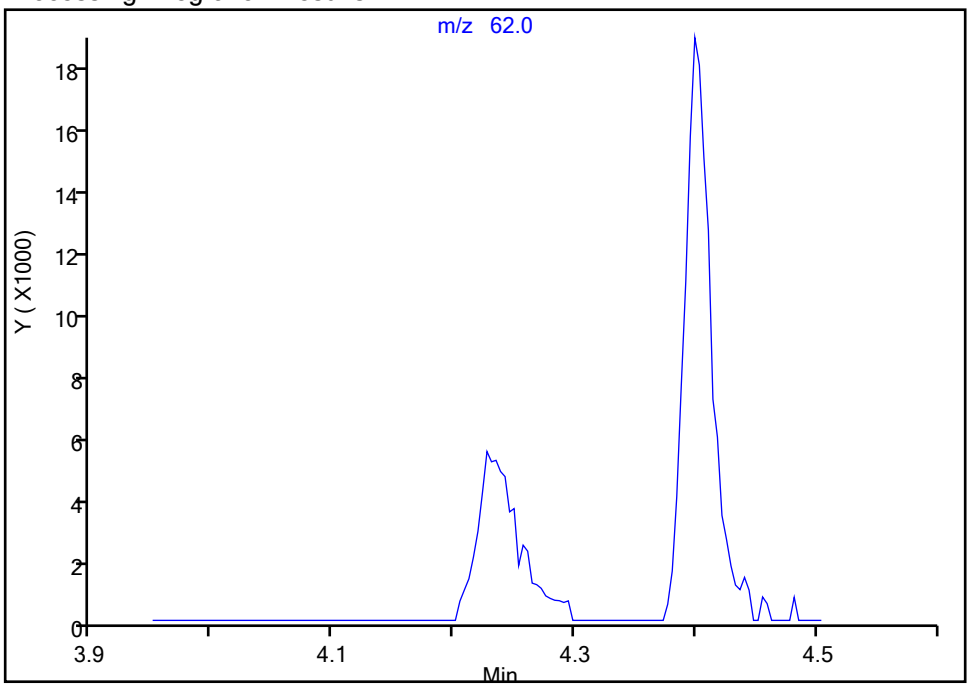
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Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

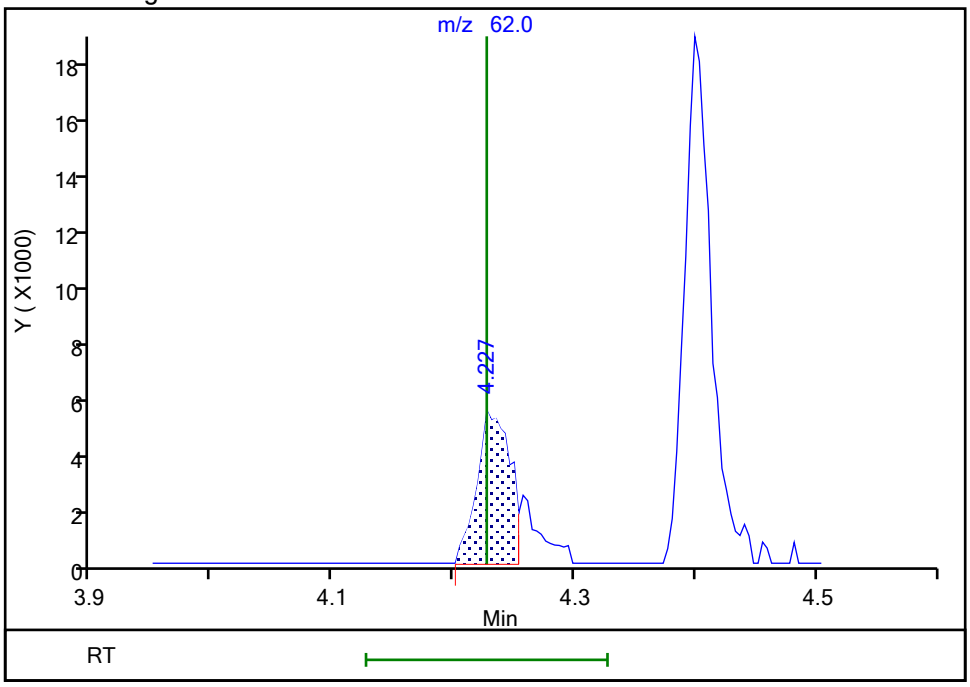
Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 9925
Amount: 0.892808
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:15:47 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

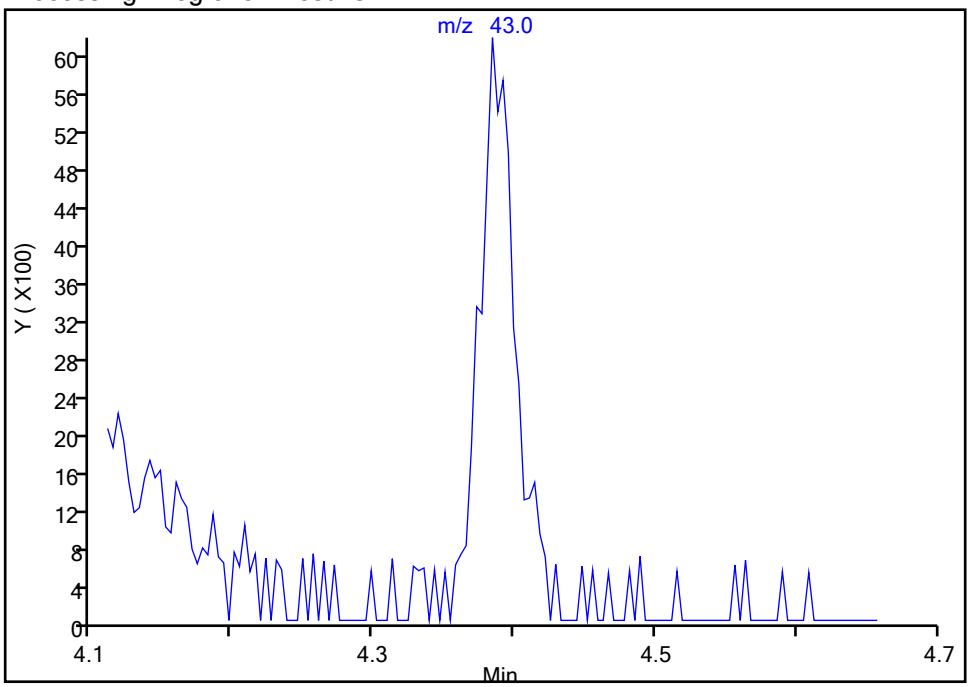
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

57 n-Heptane, CAS: 142-82-5

Signal: 1

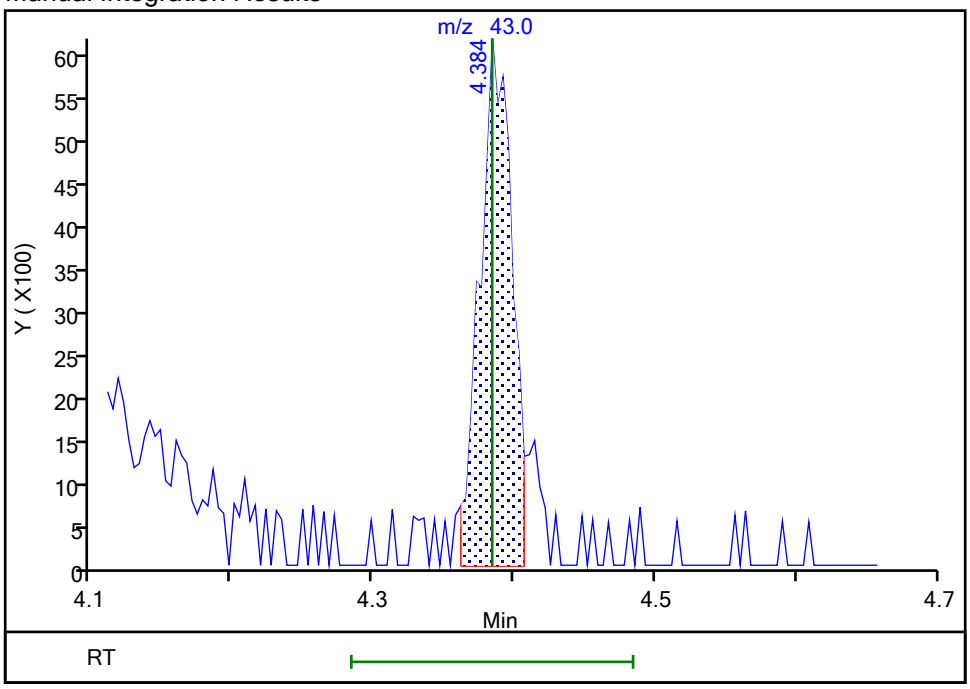
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 9787
Amount: 1.000134
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:44:34 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

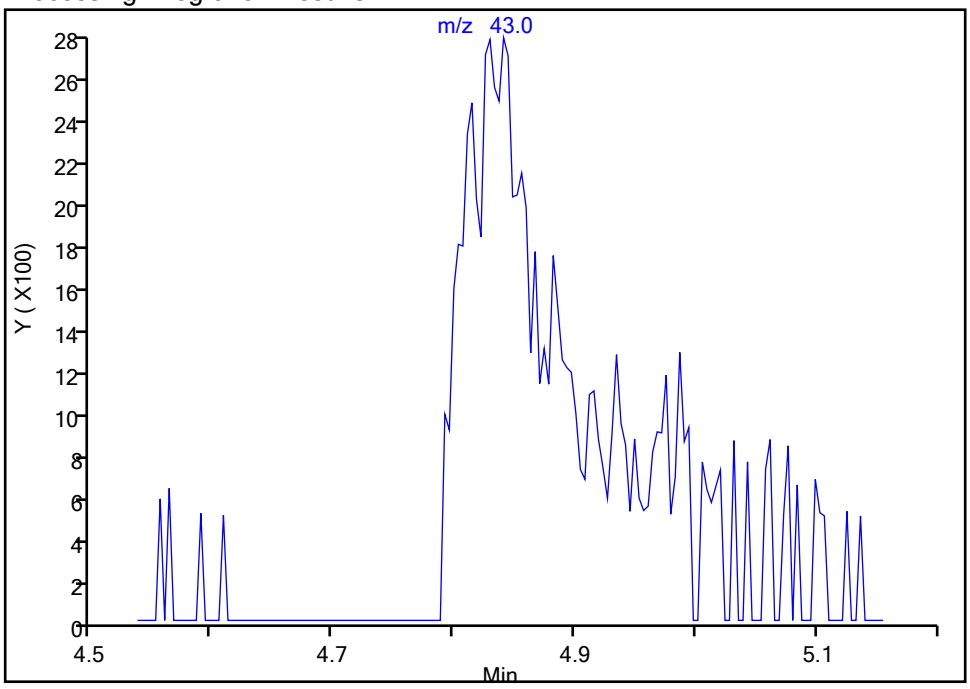
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

60 2-Pentanone, CAS: 107-87-9

Signal: 1

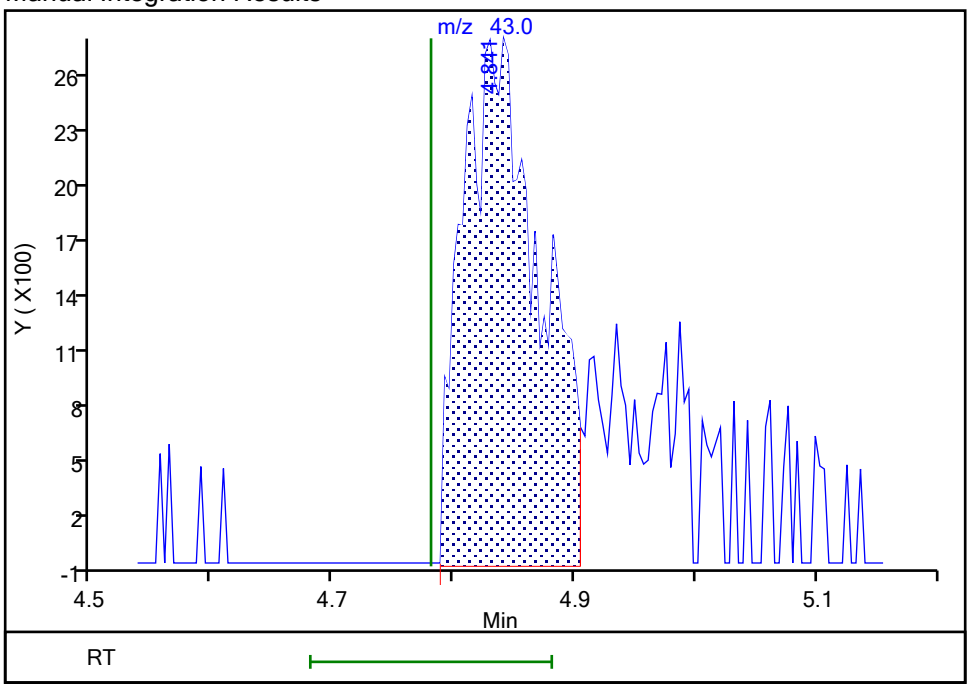
Not Detected
Expected RT: 4.78

Processing Integration Results



Manual Integration Results

RT: 4.84
Area: 12518
Amount: 3.282474
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:24:24 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

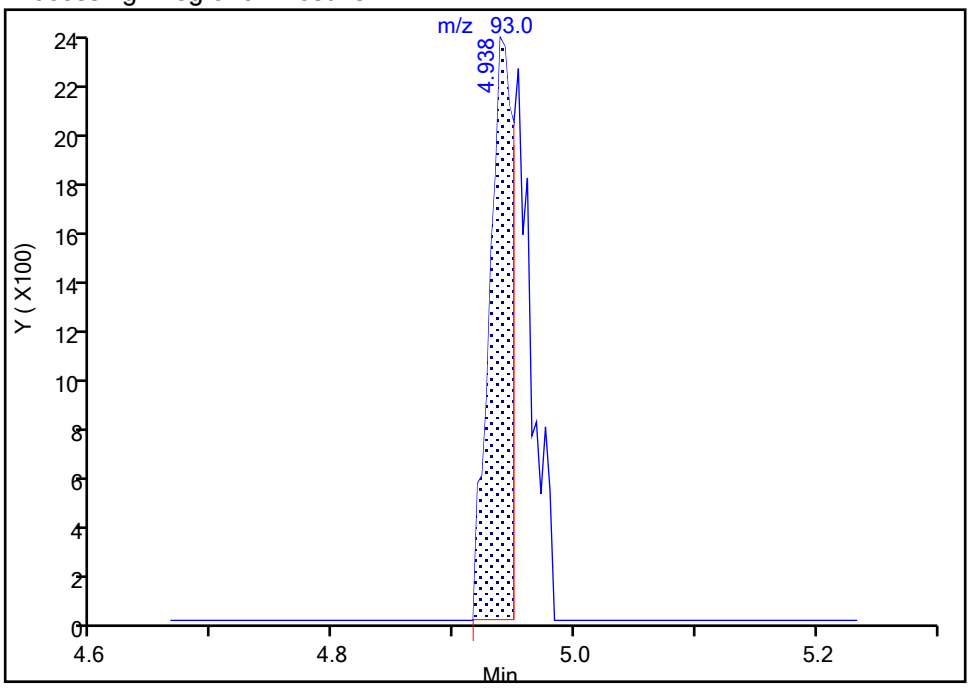
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

65 Dibromomethane, CAS: 74-95-3

Signal: 1

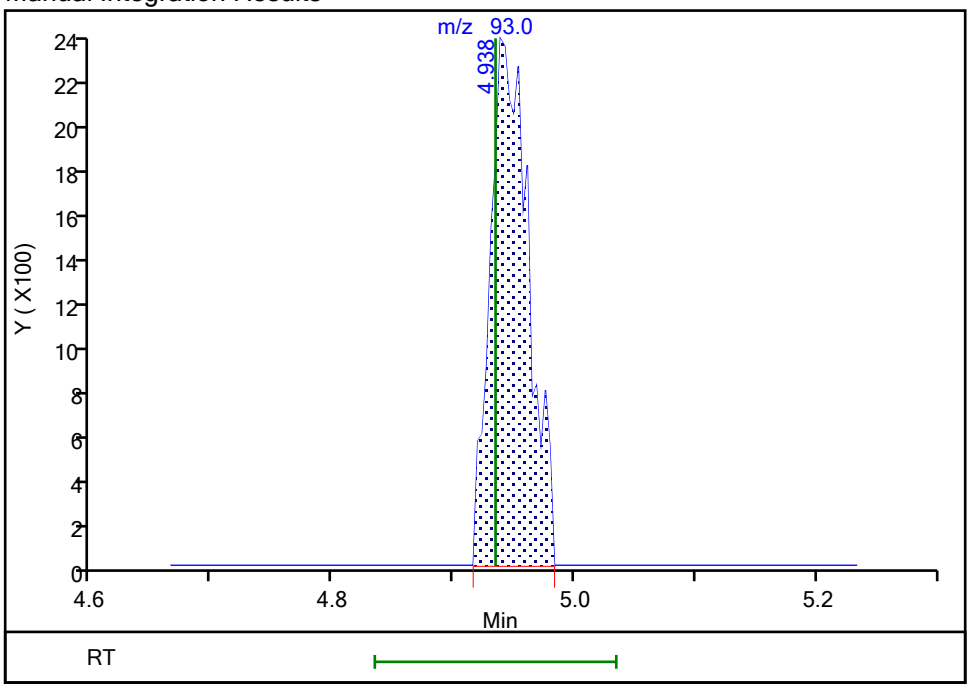
Processing Integration Results

RT: 4.94
Area: 3199
Amount: 0.980197
Amount Units: ug/l



Manual Integration Results

RT: 4.94
Area: 5223
Amount: 0.885798
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:44:47 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

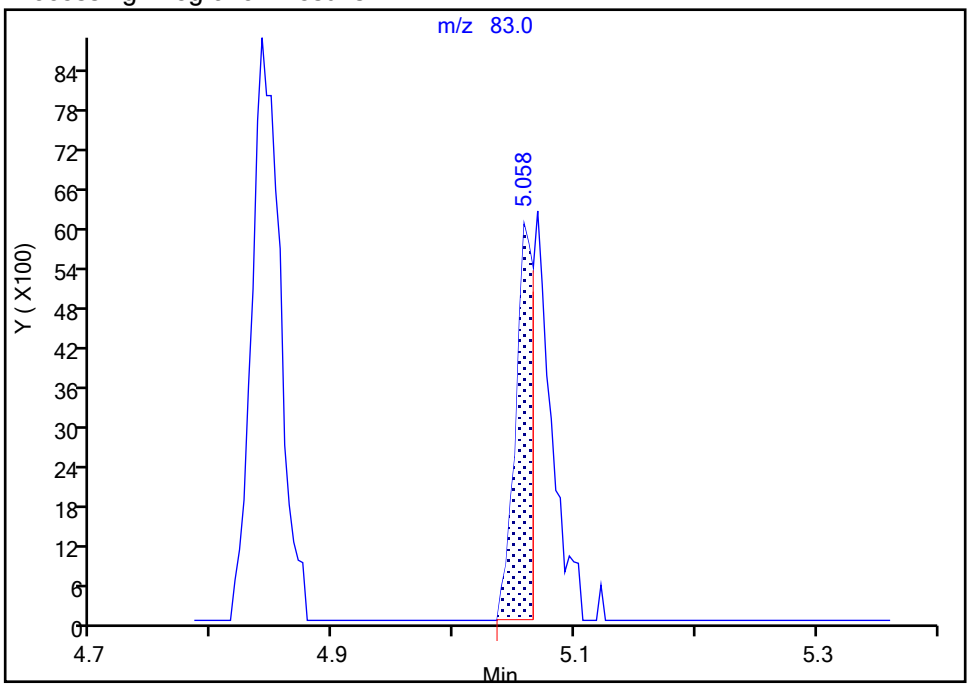
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

66 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

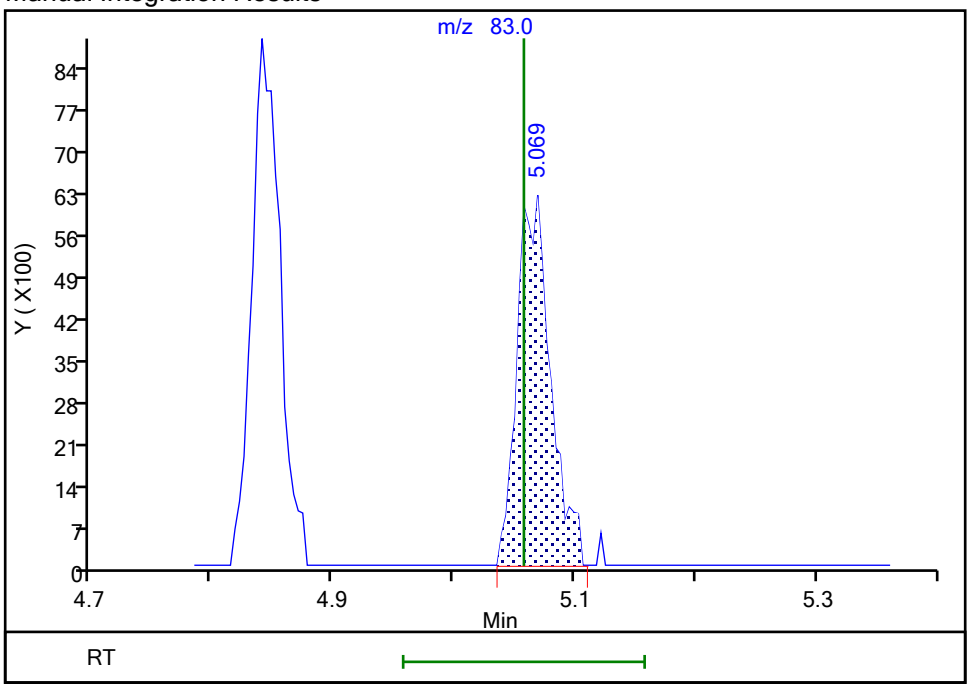
Processing Integration Results

RT: 5.06
Area: 6131
Amount: 0.965416
Amount Units: ug/l



Manual Integration Results

RT: 5.07
Area: 11808
Amount: 0.949851
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:44:55 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

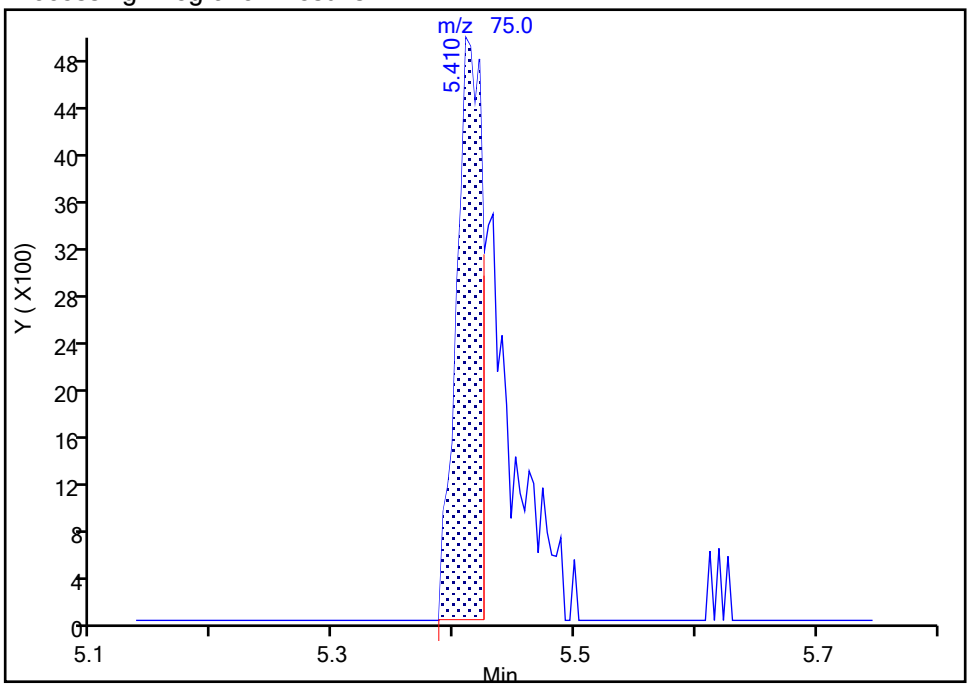
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

69 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

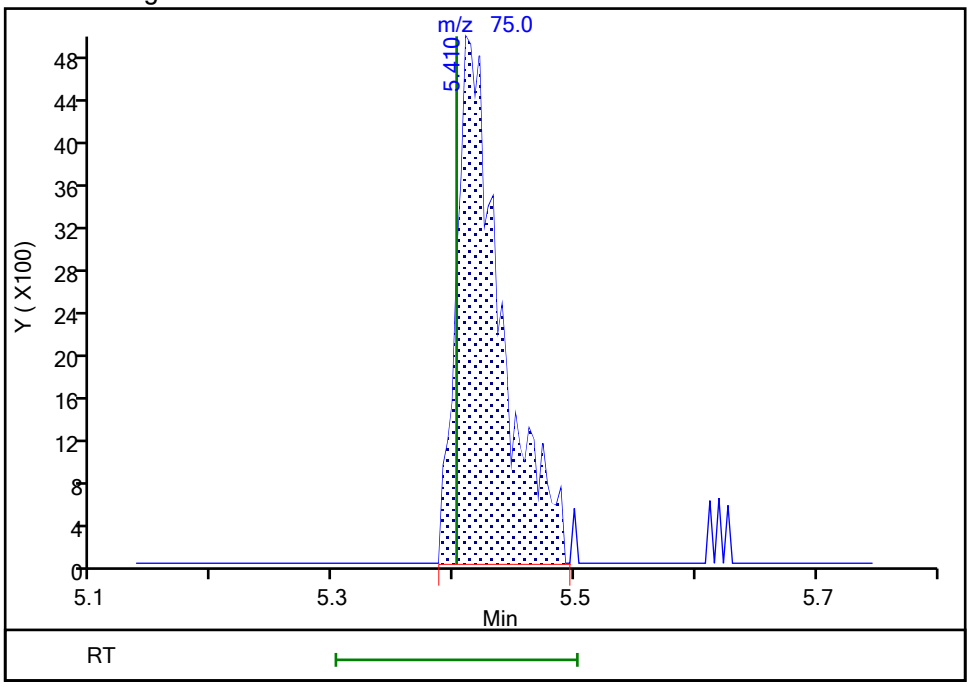
Processing Integration Results

RT: 5.41
Area: 7286
Amount: 0.988479
Amount Units: ug/l



Manual Integration Results

RT: 5.41
Area: 12751
Amount: 0.916869
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:00 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

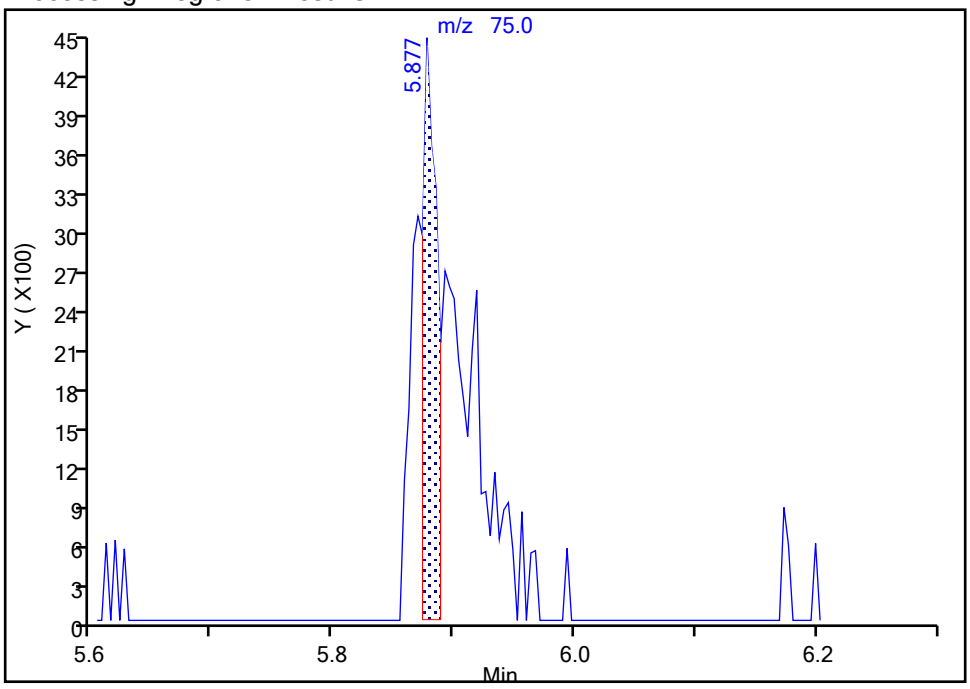
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

72 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

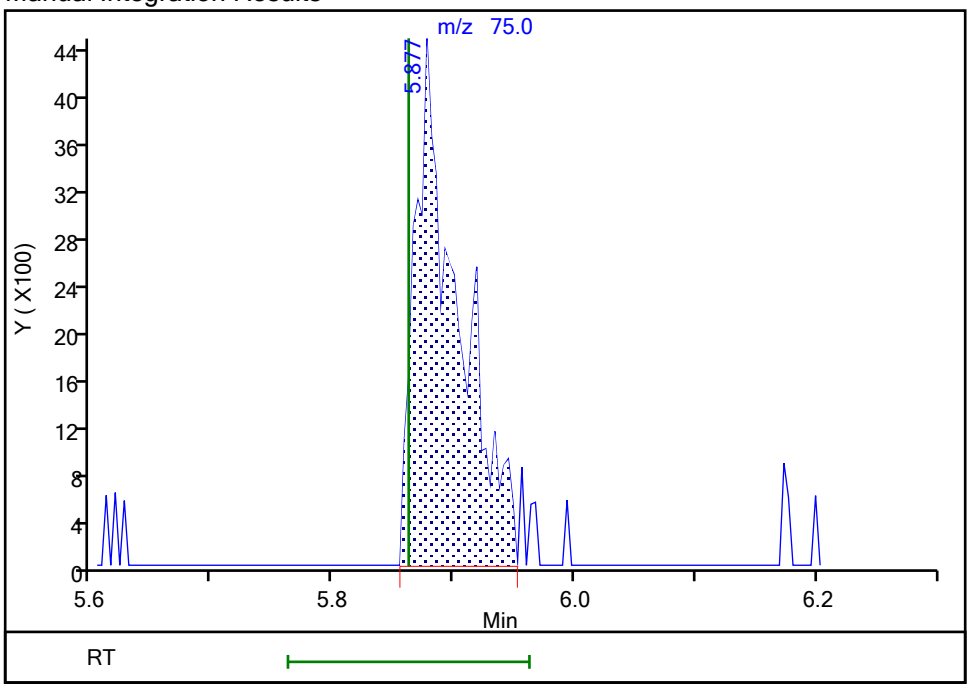
Processing Integration Results

RT: 5.88
Area: 3709
Amount: 1.054058
Amount Units: ug/l



Manual Integration Results

RT: 5.88
Area: 11073
Amount: 1.292975
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:06 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

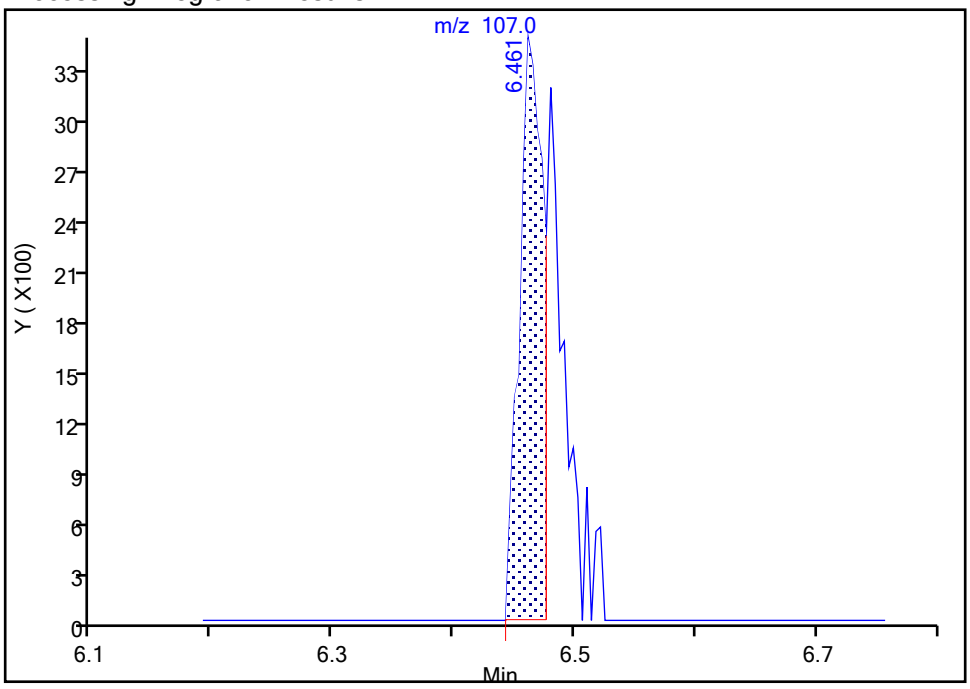
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

79 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

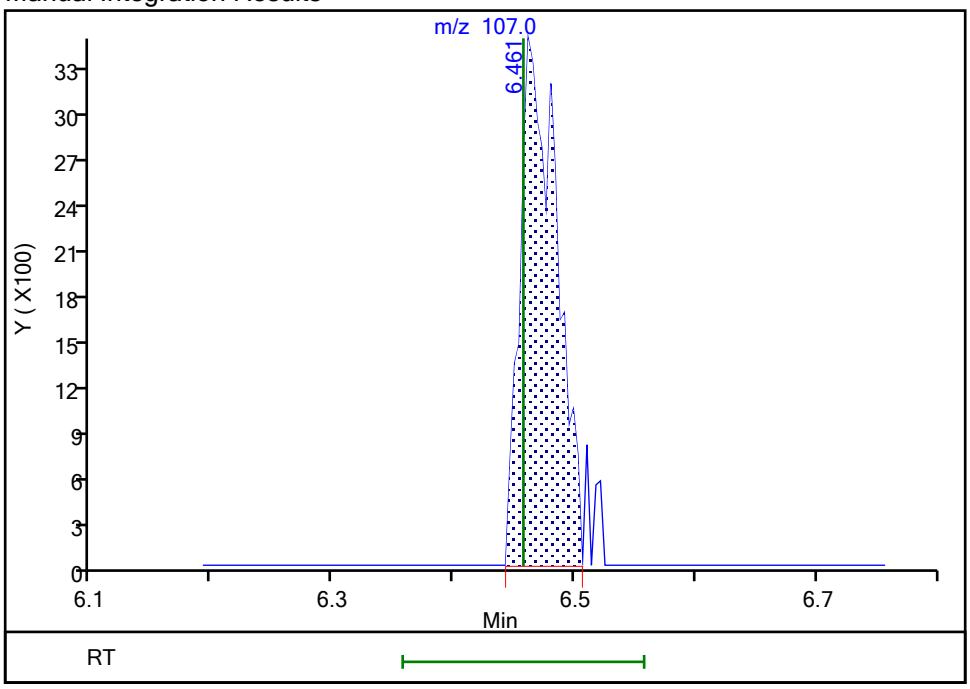
Processing Integration Results

RT: 6.46
Area: 4643
Amount: 0.984039
Amount Units: ug/l



Manual Integration Results

RT: 6.46
Area: 7239
Amount: 0.851410
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:17 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

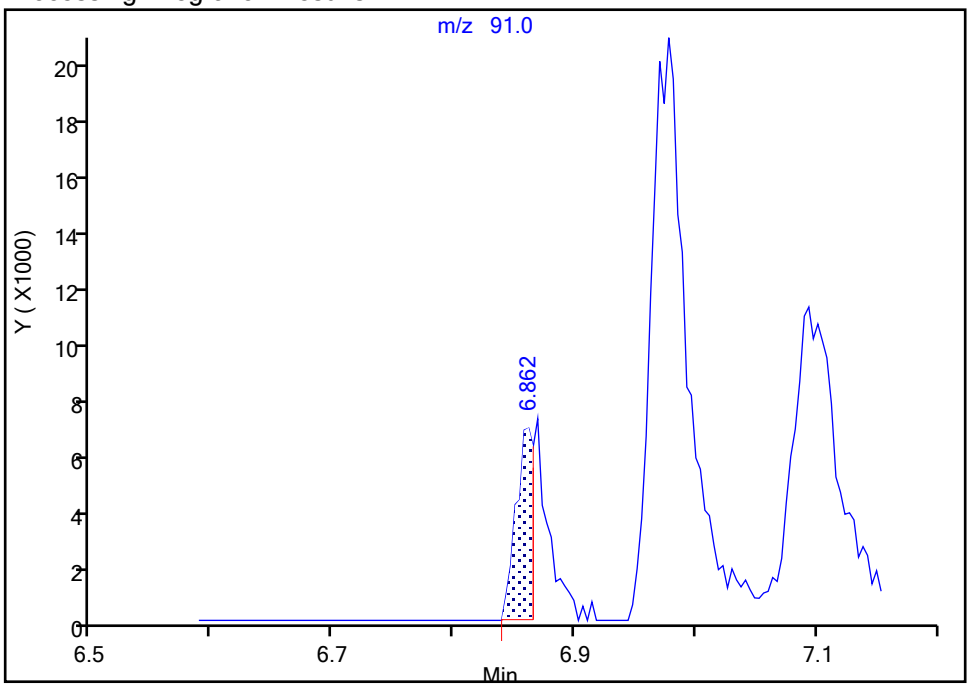
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

80 1-Chlorohexane, CAS: 544-10-5

Signal: 1

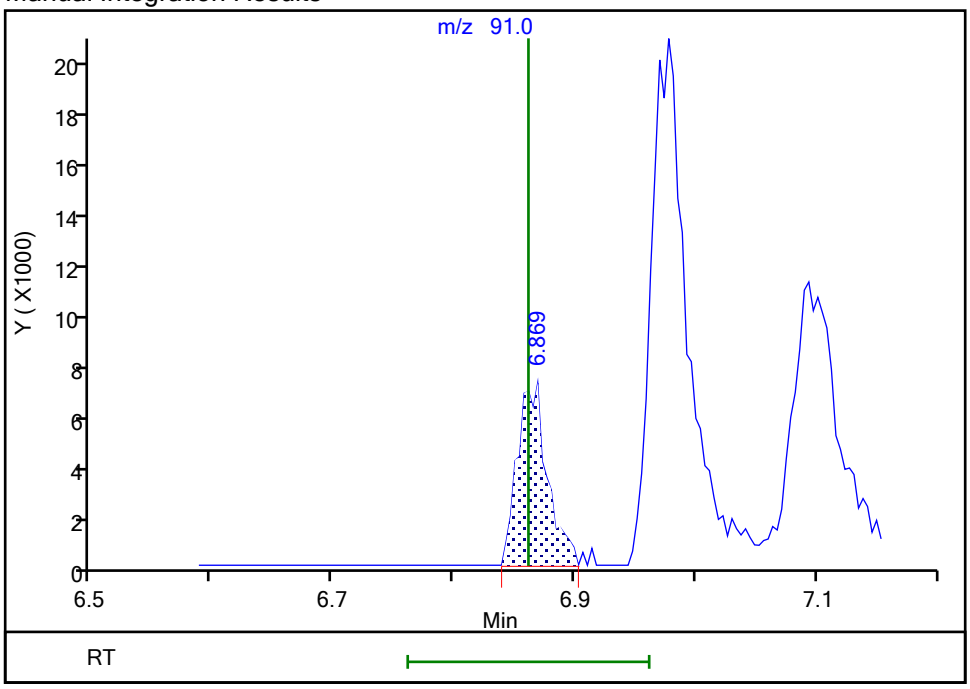
Processing Integration Results

RT: 6.86
Area: 6981
Amount: 0.530111
Amount Units: ug/l



Manual Integration Results

RT: 6.87
Area: 12252
Amount: 0.875609
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:21 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

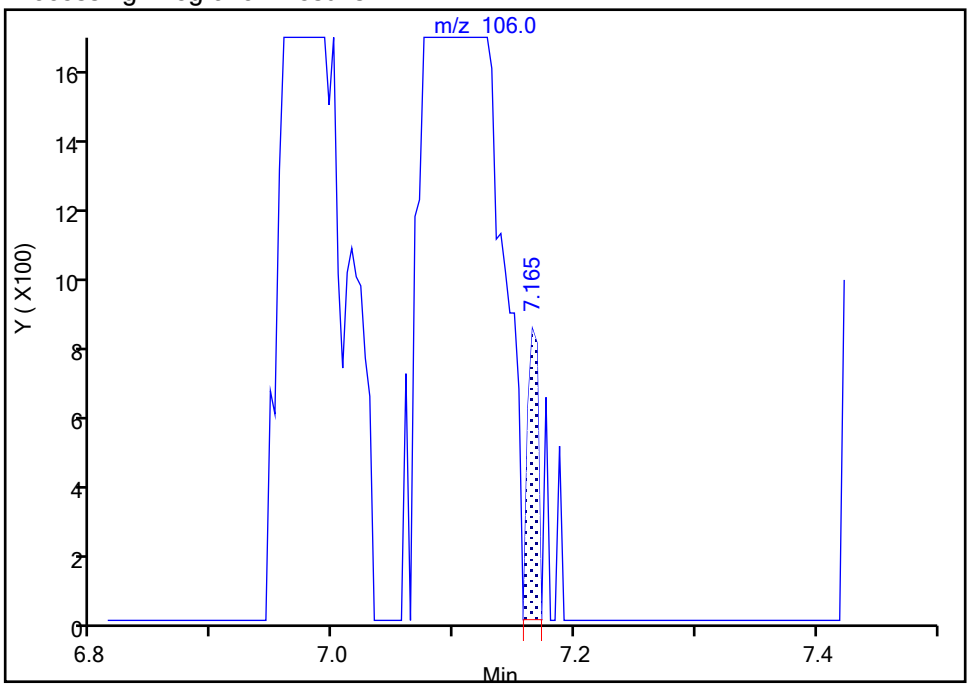
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

84 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

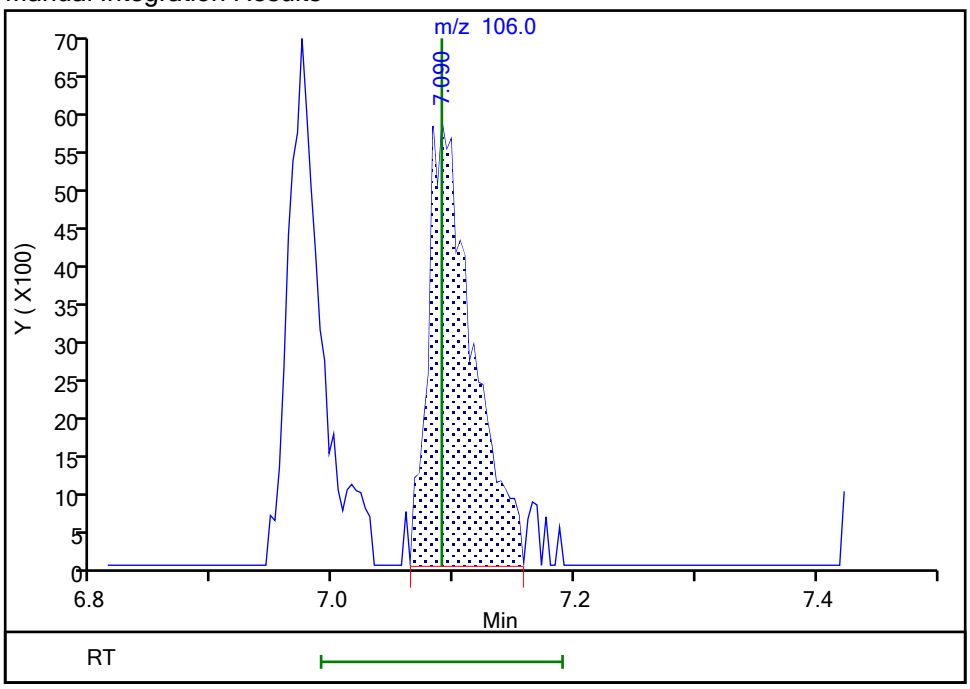
Processing Integration Results

RT: 7.16
Area: 504
Amount: 0.804034
Amount Units: ug/l



Manual Integration Results

RT: 7.09
Area: 14935
Amount: 0.905643
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:32 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

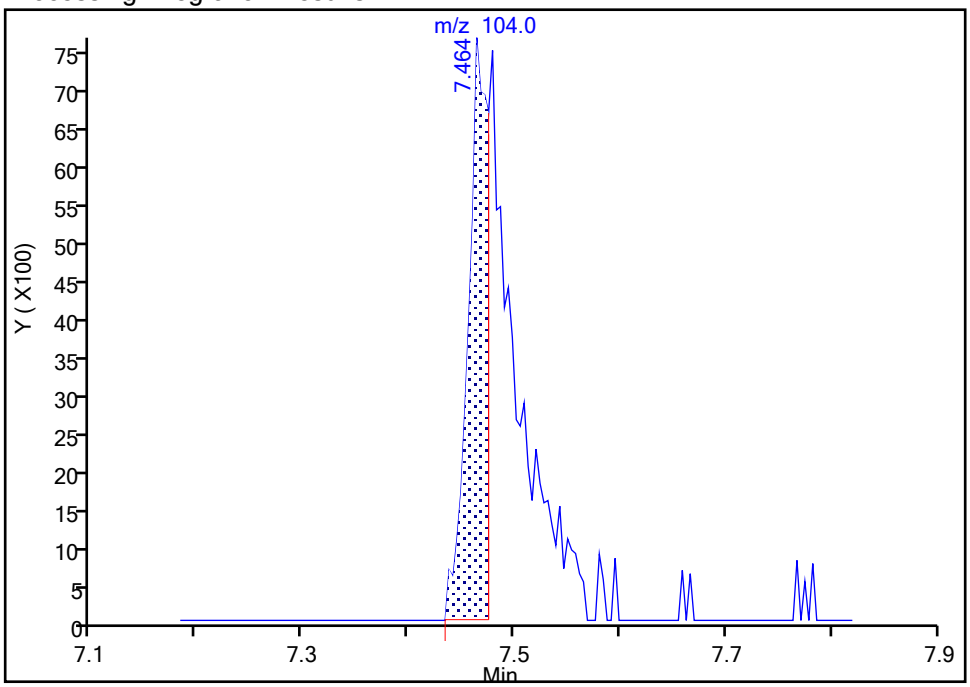
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

86 Styrene, CAS: 100-42-5

Signal: 1

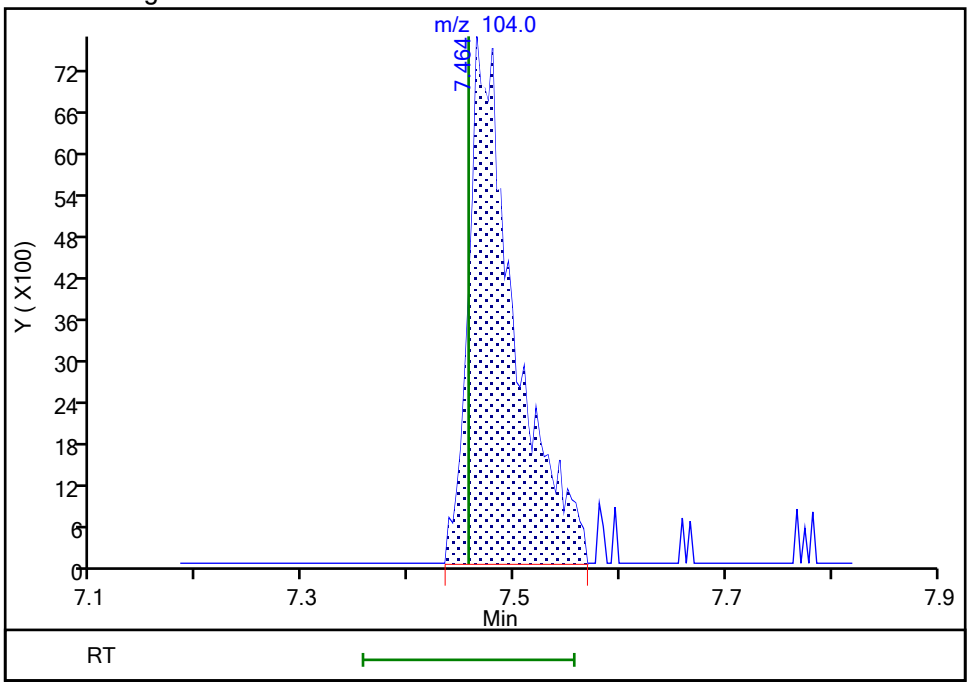
Processing Integration Results

RT: 7.46
Area: 9991
Amount: 1.001135
Amount Units: ug/l



Manual Integration Results

RT: 7.46
Area: 23019
Amount: 1.251520
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:41 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

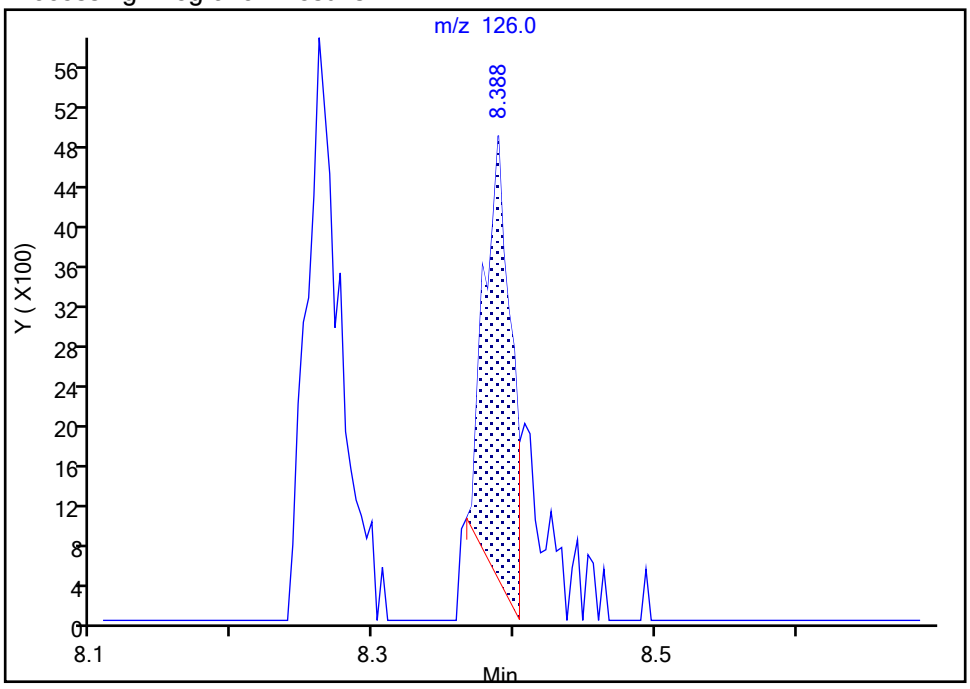
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14231.D
Injection Date: 30-Jul-2024 12:19:30 Instrument ID: VMS_G2
Lims ID: STD1
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

98 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

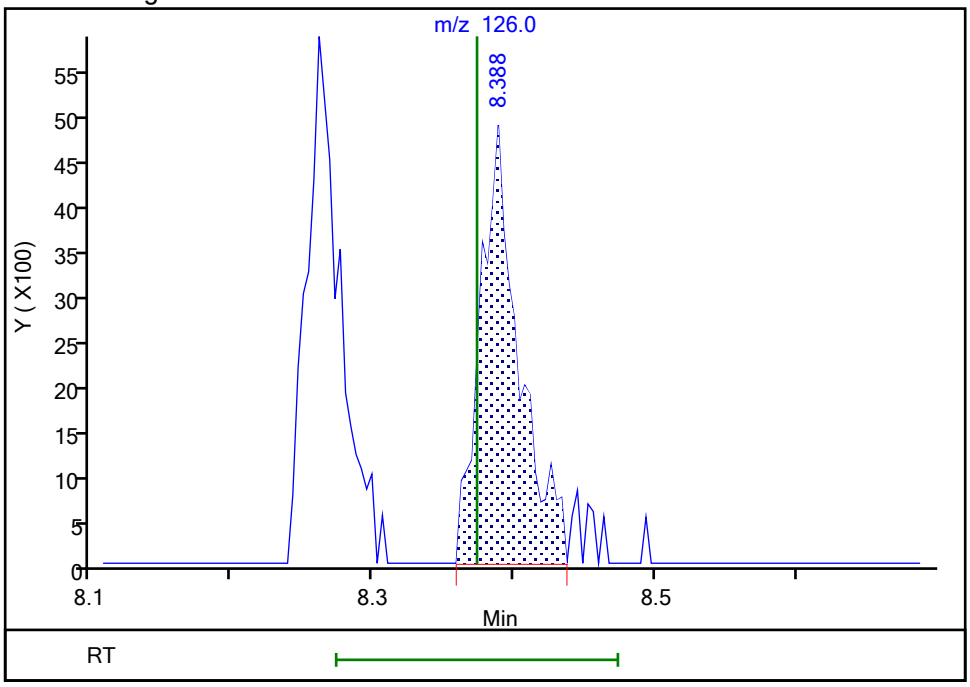
Processing Integration Results

RT: 8.39
Area: 5785
Amount: 0.989457
Amount Units: ug/l



Manual Integration Results

RT: 8.39
Area: 9207
Amount: 0.910959
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:45:52 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14232.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Jul-2024 12:40:30 ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:23 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:21:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.403	-0.004	99	2039562	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	85	484272	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	770690	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.928	-0.004	93	509228	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.167	4.171	-0.004	96	510563	50.0	50.4	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	2087193	50.0	52.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.947	-0.004	90	692219	50.0	51.0	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	97	12516	2.00	1.52	
10 Chloromethane	50	1.551	1.551	0.000	26	15666	2.00	1.47	M
11 Vinyl chloride	62	1.559	1.562	-0.003	96	18976	2.00	1.58	
12 Bromomethane	94	1.780	1.783	-0.003	87	8674	2.00	1.26	
13 Chloroethane	64	1.858	1.869	-0.011	99	15321	2.00	1.82	
14 Dichlorofluoromethane	67	2.015	2.023	-0.008	95	30745	2.00	1.77	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	22070	2.00	1.69	
18 Ethyl ether	59	2.240	2.236	0.004	88	10358	2.00	1.54	
19 Acrolein	56	2.356	2.333	0.023	23	12674	19.8	26.3	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.393	2.401	-0.008	72	10690	2.00	1.70	
21 1,1-Dichloroethene	96	2.397	2.401	-0.004	96	14391	2.00	1.80	
22 Acetone	43	2.442	2.427	0.015	97	27160	8.00	10.8	M
23 Iodomethane	142		2.509				ND	ND	
25 Carbon disulfide	76	2.562	2.562	0.000	98	47414	2.00	1.93	
26 Methyl acetate	43	2.652	2.633	0.019	53	13264	4.00	4.28	
16 3-Chloro-1-propene	41	2.648	2.644	0.004	91	22746	2.00	2.00	
28 Methylene Chloride	84	2.730	2.734	-0.004	89	18605	2.00	1.98	
29 2-Methyl-2-propanol	59	2.790	2.782	0.008	99	14112	20.0	17.0	
30 Acrylonitrile	53	2.910	2.883	0.027	45	36020	20.0	25.0	M
31 Methyl tert-butyl ether	73	2.895	2.898	-0.003	95	50402	2.00	1.82	
32 trans-1,2-Dichloroethene	96	2.917	2.910	0.007	97	15931	2.00	1.80	
33 Hexane	57	3.089	3.089	0.000	90	18445	2.00	1.71	
35 Vinyl acetate	43	3.213	3.194	0.019	96	39154	4.00	3.72	M
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	27878	2.00	1.77	

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	3.598	3.572	0.026	54	24612	8.00	10.1	
40 cis-1,2-Dichloroethene	96	3.591	3.587	0.004	80	14931	2.00	1.92	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	83	23282	2.00	1.85	
44 sec-Butyl Alcohol	45	3.707	3.688	0.019	96	11569	48.0	59.3	
46 Chlorobromomethane	128	3.763	3.755	0.008	96	7433	2.00	1.74	
47 Tetrahydrofuran	42	3.771	3.763	0.007	76	6929	4.00	4.81	
48 Chloroform	83	3.815	3.815	0.000	92	28852	2.00	1.86	
49 1,1,1-Trichloroethane	97	3.935	3.939	-0.004	98	25375	2.00	1.88	
50 Cyclohexane	56	3.991	3.991	0.000	88	27815	2.00	1.82	M
51 Carbon tetrachloride	117	4.047	4.047	0.000	97	21085	2.00	1.83	
52 1,1-Dichloropropene	75	4.055	4.051	0.004	96	20961	2.00	1.75	
53 Isobutyl alcohol	41	4.119	4.092	0.027	42	9478	50.0	68.6	Ma
54 Benzene	78	4.193	4.193	0.000	91	70372	2.00	1.89	
55 1,2-Dichloroethane	62	4.235	4.227	0.008	93	19814	2.00	1.84	
57 n-Heptane	43	4.384	4.384	0.000	90	16136	2.00	1.71	a
59 Trichloroethene	95	4.676	4.669	0.008	96	16797	2.00	1.92	
60 2-Pentanone	43	4.807	4.781	0.026	96	33321	6.40	6.60	M
61 Methylcyclohexane	55	4.841	4.844	-0.003	88	19621	2.00	1.81	
62 1,2-Dichloropropane	63	4.867	4.863	0.004	96	17386	2.00	1.83	
64 1,4-Dioxane	88	4.927	4.915	0.012	40	3016	40.0	40.6	M
65 Dibromomethane	93	4.942	4.934	0.008	96	10257	2.00	1.80	
66 Dichlorobromomethane	83	5.065	5.058	0.007	98	22175	2.00	1.85	
68 2-Chloroethyl vinyl ether	63	5.290	5.271	0.019	83	6830	2.00	2.47	M
69 cis-1,3-Dichloropropene	75	5.410	5.402	0.008	97	23303	2.00	1.74	
70 4-Methyl-2-pentanone (MIBK)	43	5.511	5.507	0.004	96	51737	8.00	7.31	
71 Toluene	91	5.675	5.675	0.000	99	79836	2.00	1.98	
72 trans-1,3-Dichloropropene	75	5.874	5.862	0.012	85	21877	2.00	2.04	M
73 Ethyl methacrylate	69	5.900	5.896	0.004	84	14515	2.00	2.09	
74 1,1,2-Trichloroethane	97	6.031	6.023	0.008	89	16616	2.00	1.91	
75 Tetrachloroethene	164	6.102	6.102	0.000	97	13309	2.00	1.85	
76 1,3-Dichloropropane	76	6.177	6.165	0.012	86	27290	2.00	1.94	
77 2-Hexanone	43	6.218	6.199	0.019	89	29332	8.00	7.50	
78 Chlorodibromomethane	129	6.353	6.349	0.004	89	16726	2.00	1.77	
79 Ethylene Dibromide	107	6.461	6.457	0.004	94	14496	2.00	1.77	
80 1-Chlorohexane	91	6.862	6.861	0.001	37	21665	1.60	1.61	
81 Chlorobenzene	112	6.884	6.888	-0.004	96	46819	2.00	1.84	
82 1,1,1,2-Tetrachloroethane	131	6.955	6.959	-0.004	94	16807	2.00	1.84	
83 Ethylbenzene	106	6.978	6.970	0.008	98	24189	2.00	1.78	
84 m-Xylene & p-Xylene	106	7.097	7.090	0.007	99	30719	2.00	1.94	
85 o-Xylene	106	7.442	7.438	0.004	97	29149	2.00	1.79	
86 Styrene	104	7.468	7.456	0.012	84	41674	2.00	1.91	
87 Bromoform	173	7.629	7.625	0.004	94	12005	2.00	1.81	
88 Isopropylbenzene	105	7.778	7.778	0.000	95	78522	2.00	1.95	
89 Cyclohexanone	55	7.865	7.861	0.003	90	23958	60.0	44.1	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	95	23014	2.00	1.96	
92 Bromobenzene	156	8.089	8.078	0.011	90	18188	2.00	1.81	
93 trans-1,4-Dichloro-2-butene	53	8.123	8.111	0.012	65	2428	2.00	2.06	
94 1,2,3-Trichloropropane	110	8.130	8.126	0.004	83	6437	2.00	1.86	
95 N-Propylbenzene	120	8.175	8.171	0.004	99	18698	2.00	1.73	
96 2-Chlorotoluene	126	8.265	8.257	0.008	97	18385	2.00	1.90	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	93	61168	2.00	1.95	
98 4-Chlorotoluene	126	8.377	8.373	0.004	97	17346	2.00	1.77	

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	8.647	8.647	0.001	93	52506	2.00	1.90	
100 1,2,4-Trimethylbenzene	105	8.707	8.706	0.000	97	59587	2.00	1.90	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	15843	2.00	1.90	
102 1,3-Dichlorobenzene	146	8.983	8.980	0.003	76	31786	2.00	1.75	
103 4-Isopropyltoluene	119	9.017	9.013	0.004	96	62319	2.00	1.88	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	90	35490	2.00	1.81	
106 n-Butylbenzene	91	9.421	9.410	0.011	98	50984	2.00	1.83	
107 1,2-Dichlorobenzene	146	9.429	9.425	0.004	97	31812	2.00	1.74	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	86	4314	2.00	1.80	M
110 1,2,4-Trichlorobenzene	180	11.015	11.012	0.003	92	15709	2.00	1.75	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	94	8905	2.00	2.01	
112 Naphthalene	128	11.281	11.270	0.011	97	39385	2.00	1.71	
113 1,2,3-Trichlorobenzene	180	11.498	11.494	0.004	91	14560	2.00	1.76	
S 115 1,2-Dichloroethene, Total	1				0		4.00	3.72	
S 116 1,3-Dichloropropene, Total	1				0		4.00	3.79	
S 117 Xylenes, Total	106				0		4.00	3.73	
S 118 Total BTEX	1				0			9.37	
S 119 Trihalomethanes, Total	1				0		8.00	7.29	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

Cal Dil Std B_00006	Amount Added: 20.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

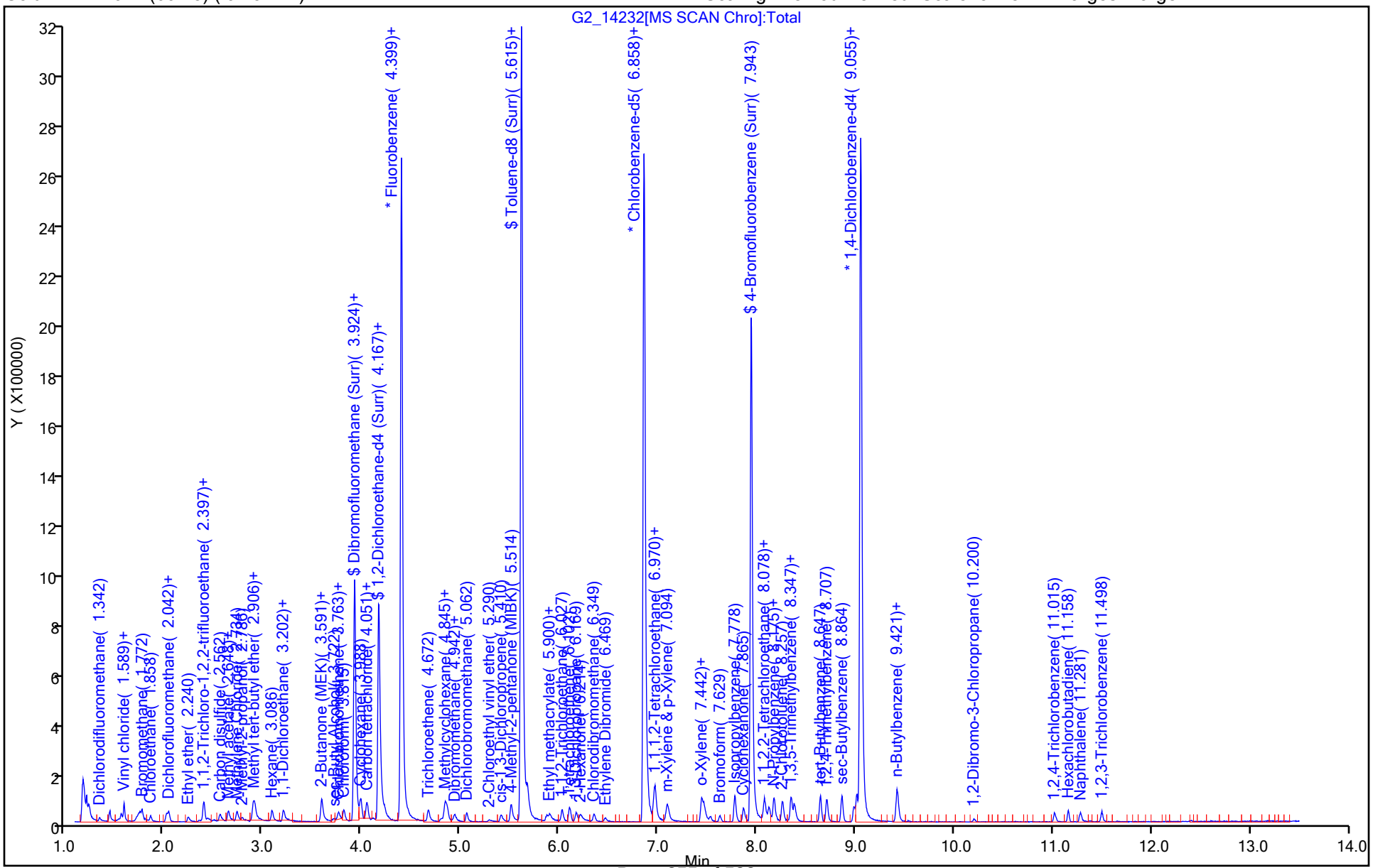
Report Date: 31-Jul-2024 11:07:23 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14232.D

Injection Date:	30-Jul-2024 12:40:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD2			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSG2_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

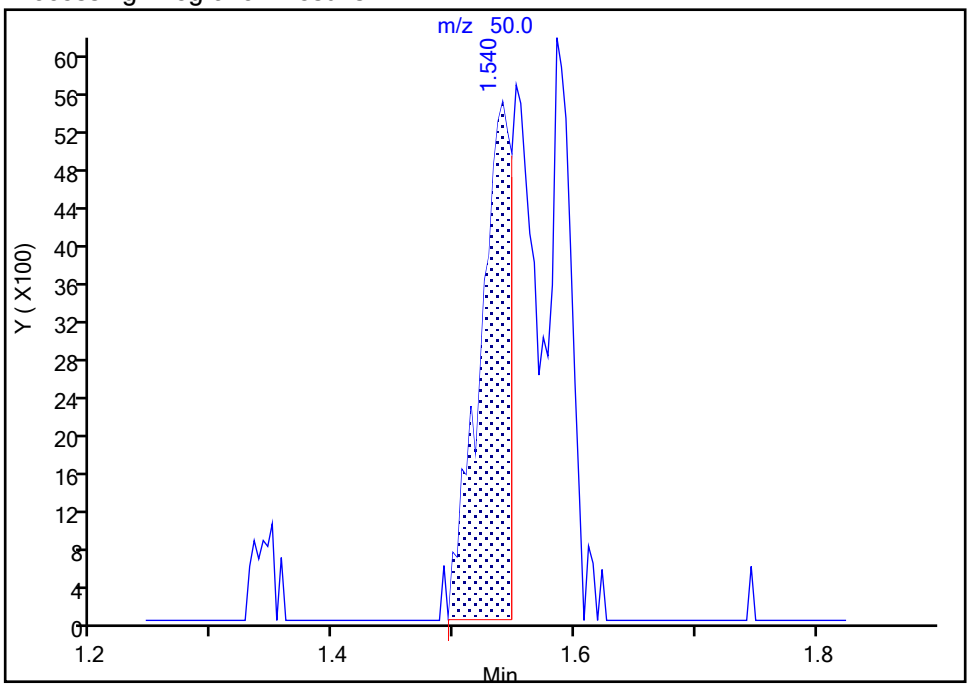
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

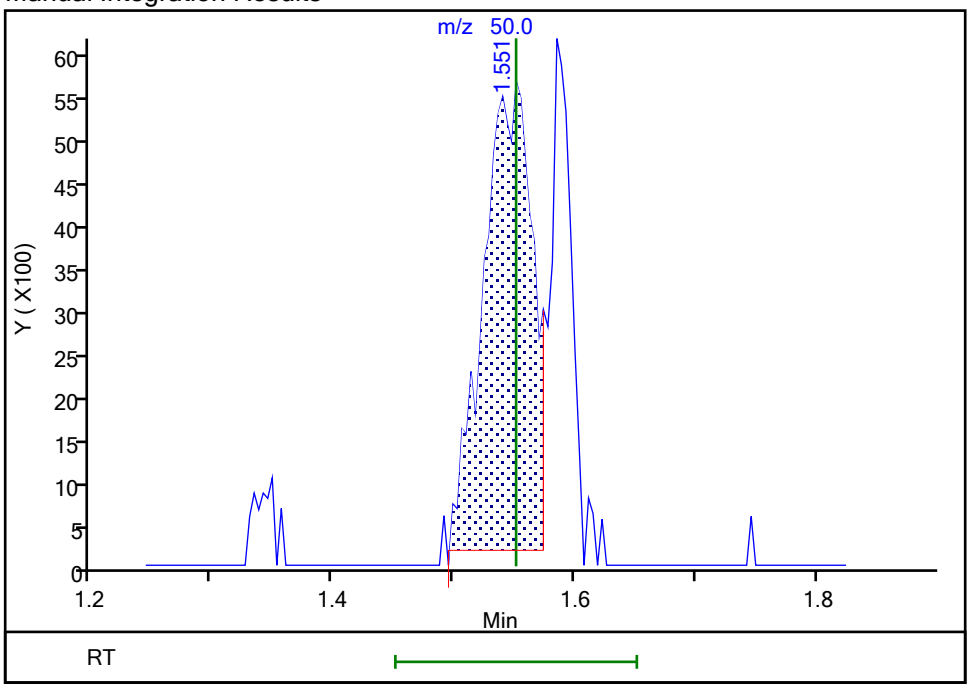
Processing Integration Results

RT: 1.54
Area: 9898
Amount: 2.383496
Amount Units: ug/l



Manual Integration Results

RT: 1.55
Area: 15666
Amount: 1.473862
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:16:41 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

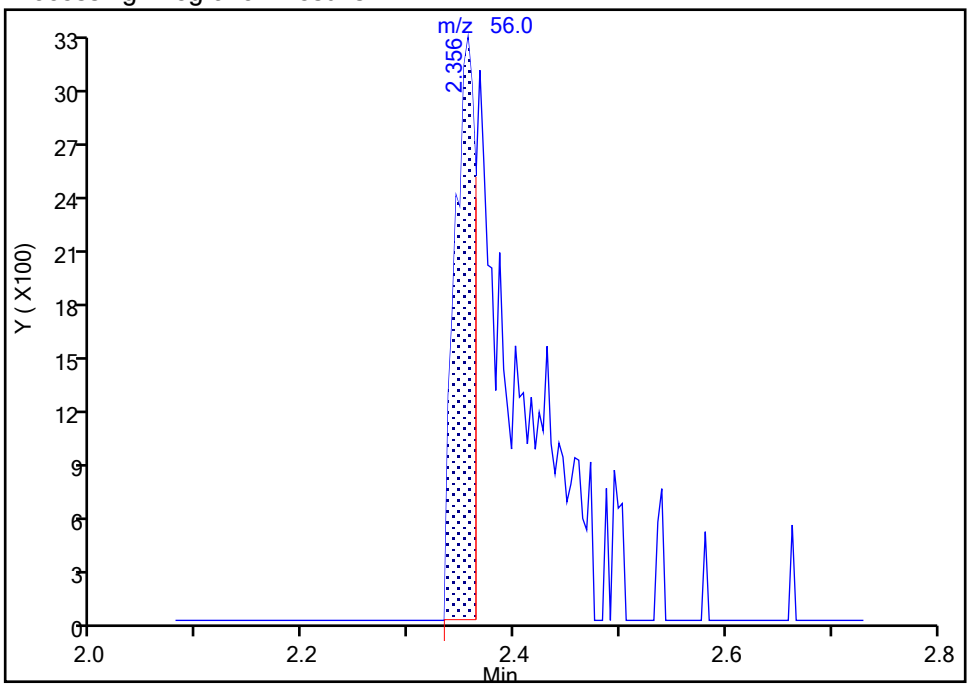
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

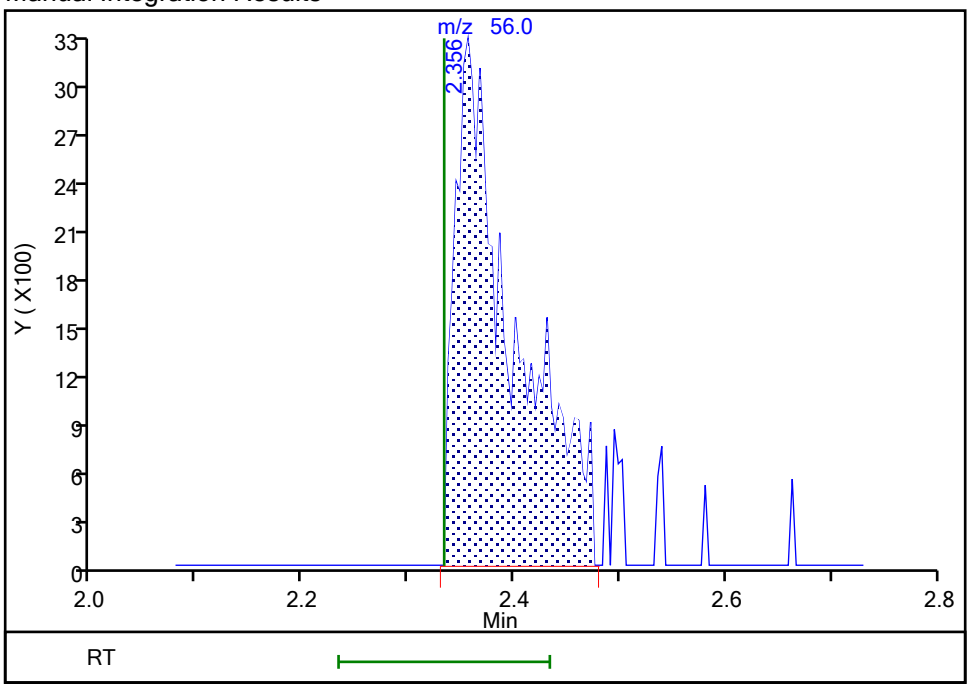
Processing Integration Results

RT: 2.36
Area: 4419
Amount: 20.033844
Amount Units: ug/l



Manual Integration Results

RT: 2.36
Area: 12674
Amount: 26.272289
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:17:06 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

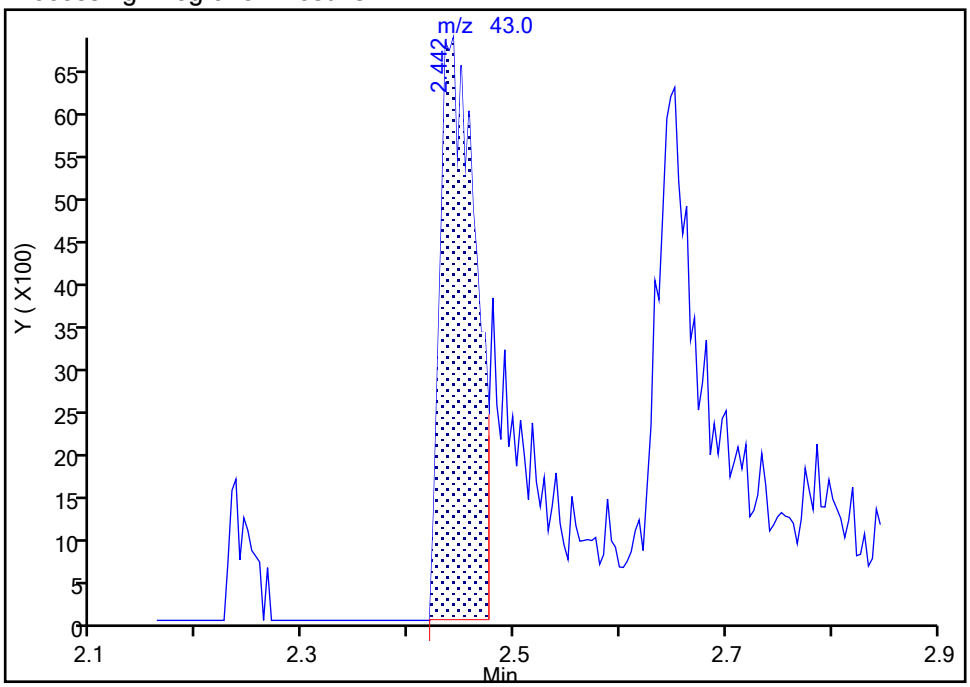
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

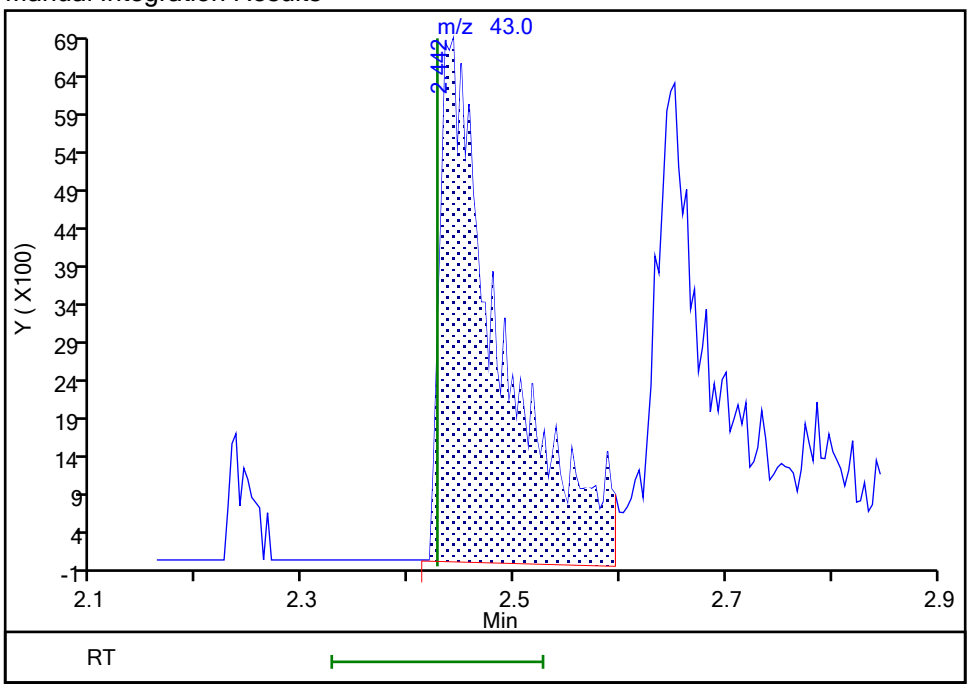
Processing Integration Results

RT: 2.44
Area: 15736
Amount: 10.141494
Amount Units: ug/l



Manual Integration Results

RT: 2.44
Area: 27160
Amount: 10.837342
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:17:34 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

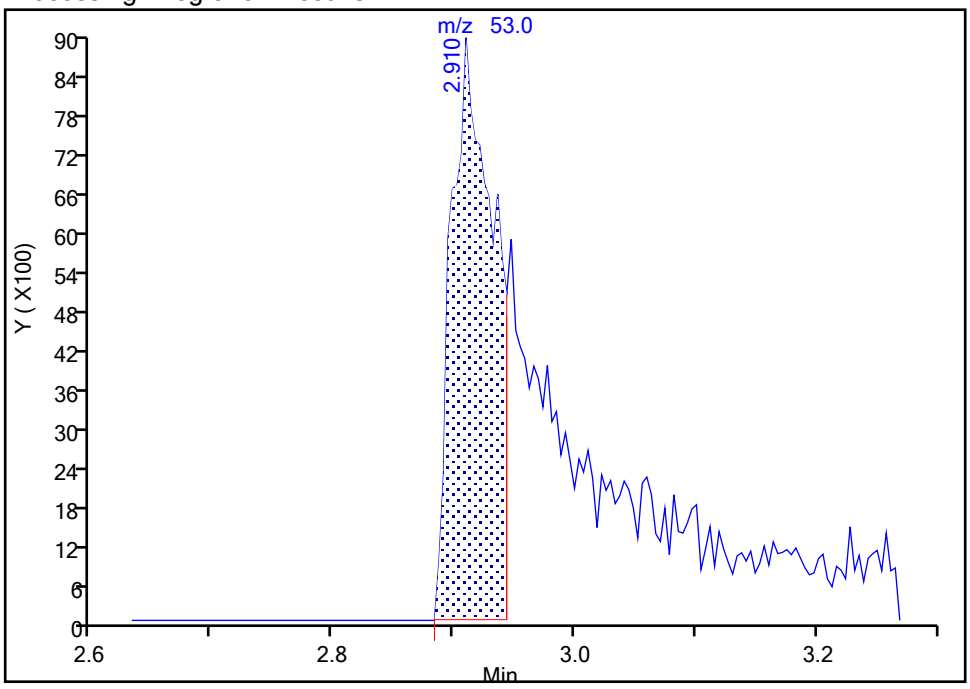
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

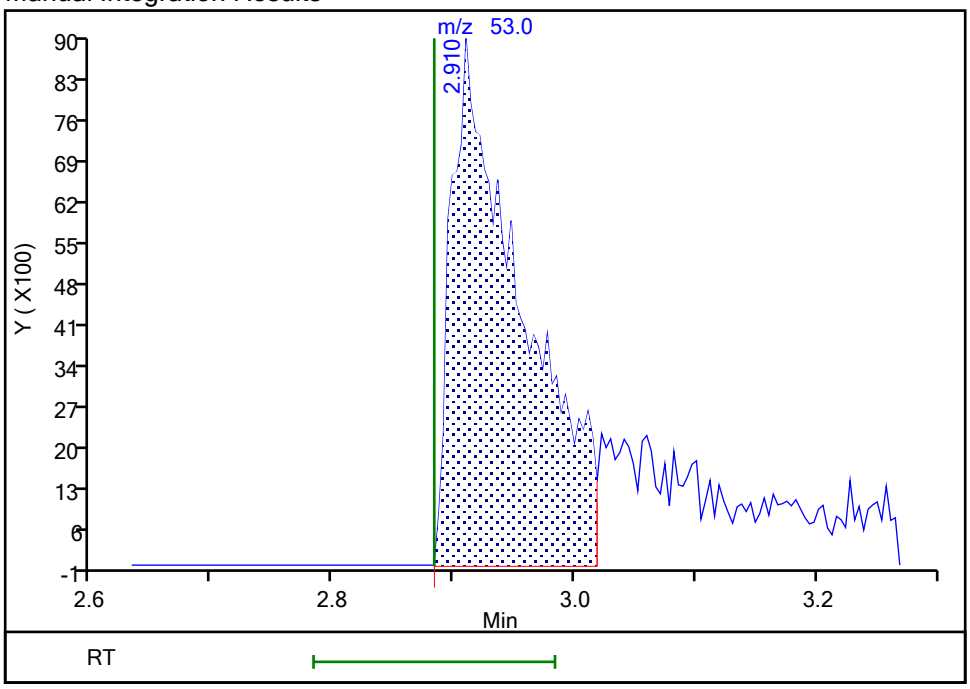
Processing Integration Results

RT: 2.91
Area: 21687
Amount: 21.344433
Amount Units: ug/l



Manual Integration Results

RT: 2.91
Area: 36020
Amount: 25.023389
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:09:45 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

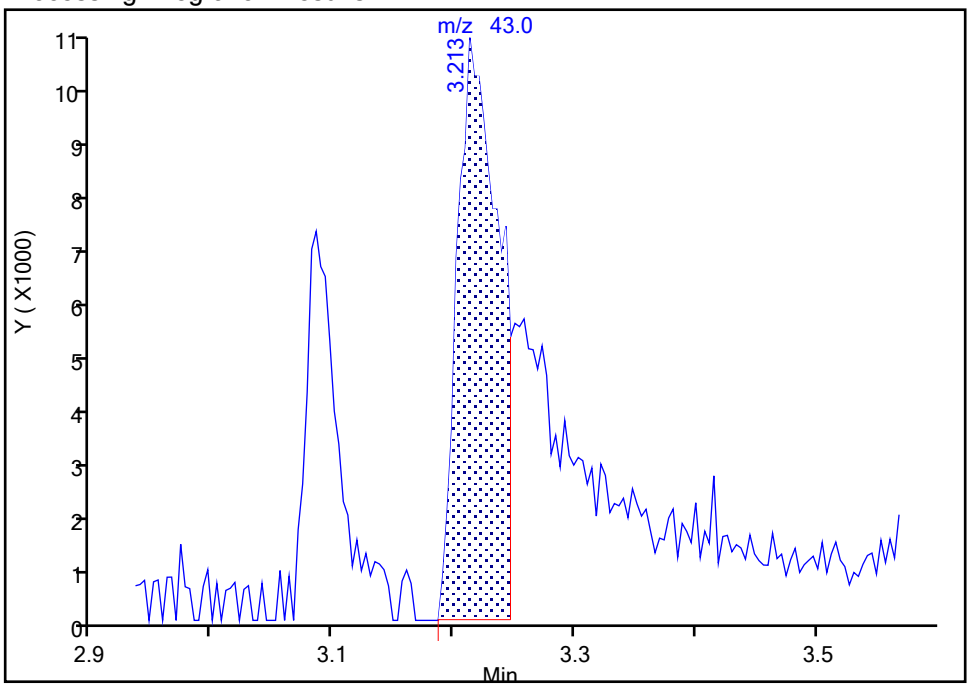
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

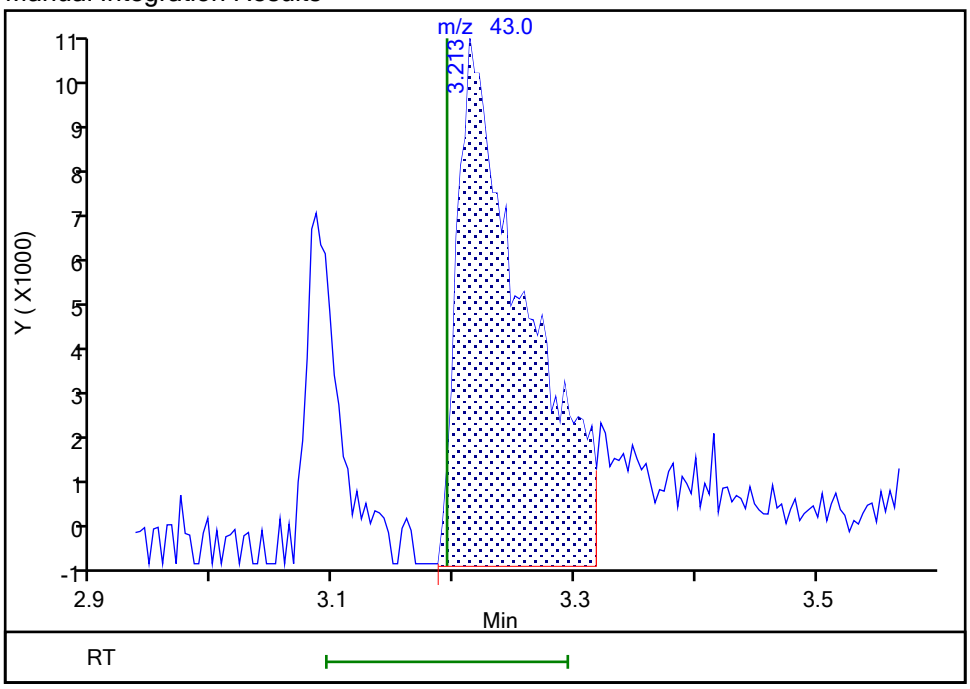
Processing Integration Results

RT: 3.21
Area: 23664
Amount: 3.956072
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 39154
Amount: 3.720262
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:10:54 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

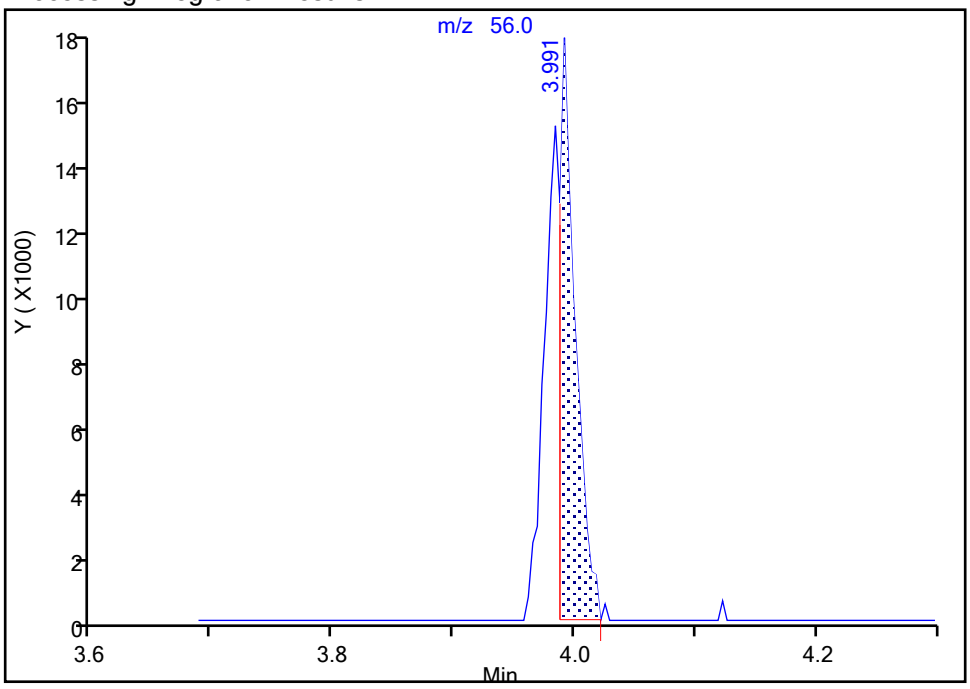
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

50 Cyclohexane, CAS: 110-82-7

Signal: 1

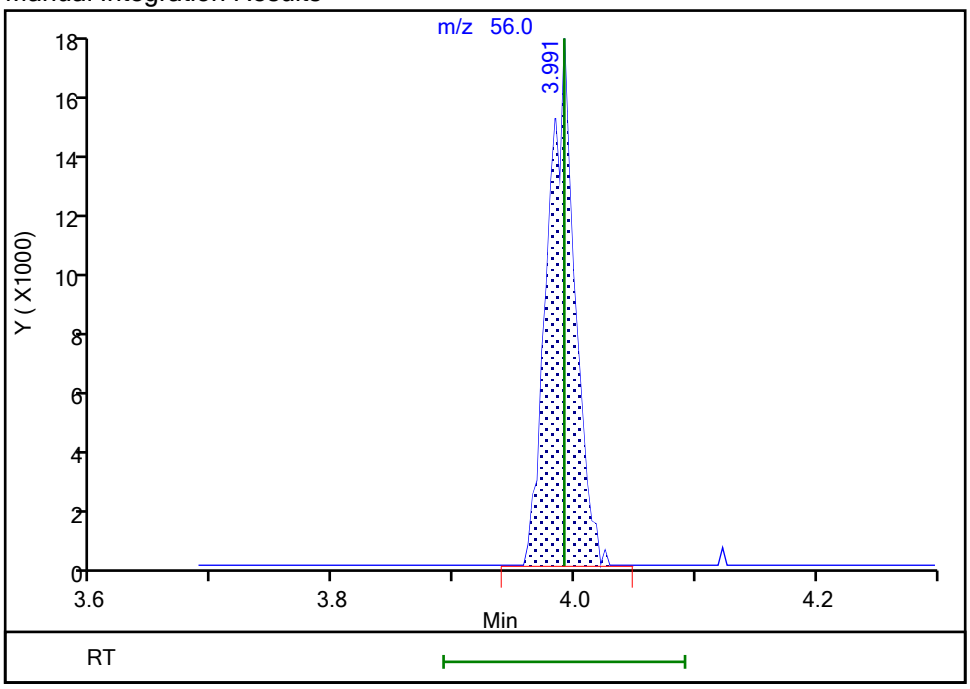
Processing Integration Results

RT: 3.99
Area: 16272
Amount: 1.412898
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 27815
Amount: 1.819454
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:18:47 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

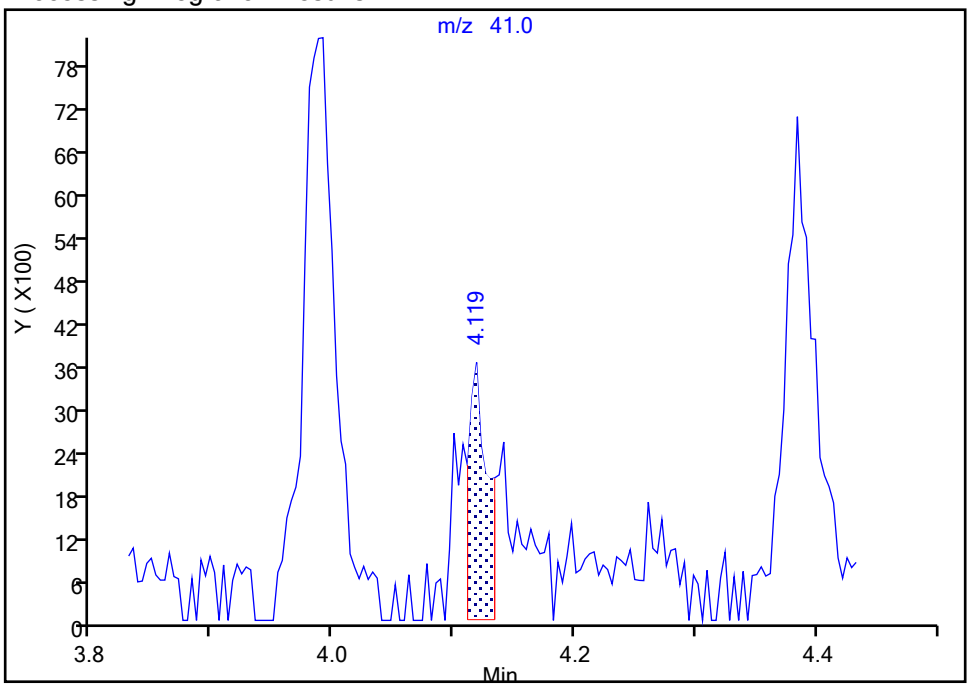
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

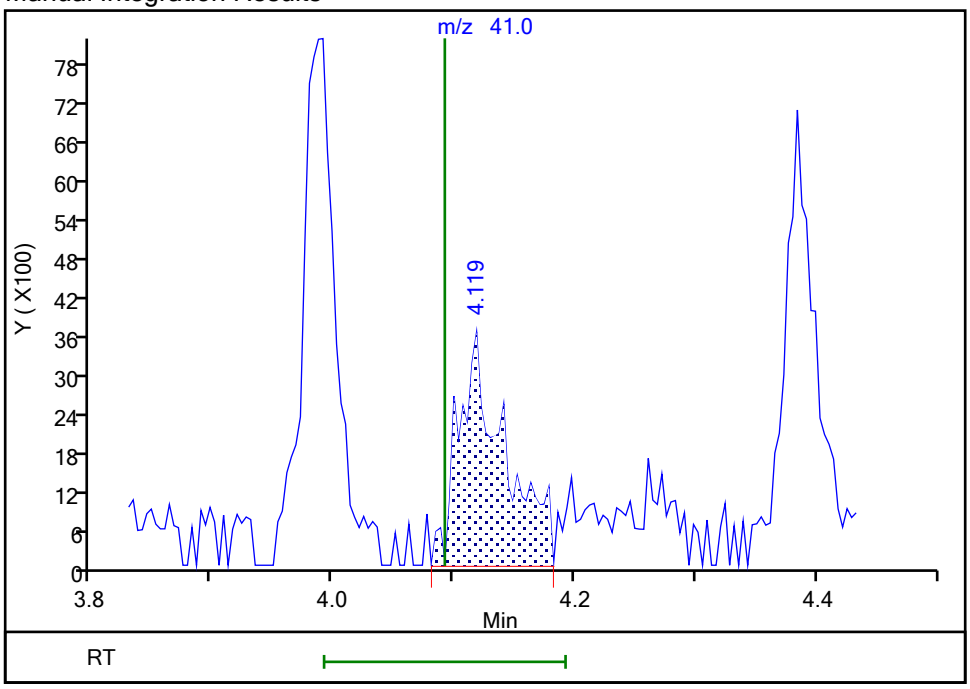
Processing Integration Results

RT: 4.12
Area: 3921
Amount: 62.309132
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 9478
Amount: 68.636372
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:22:27 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

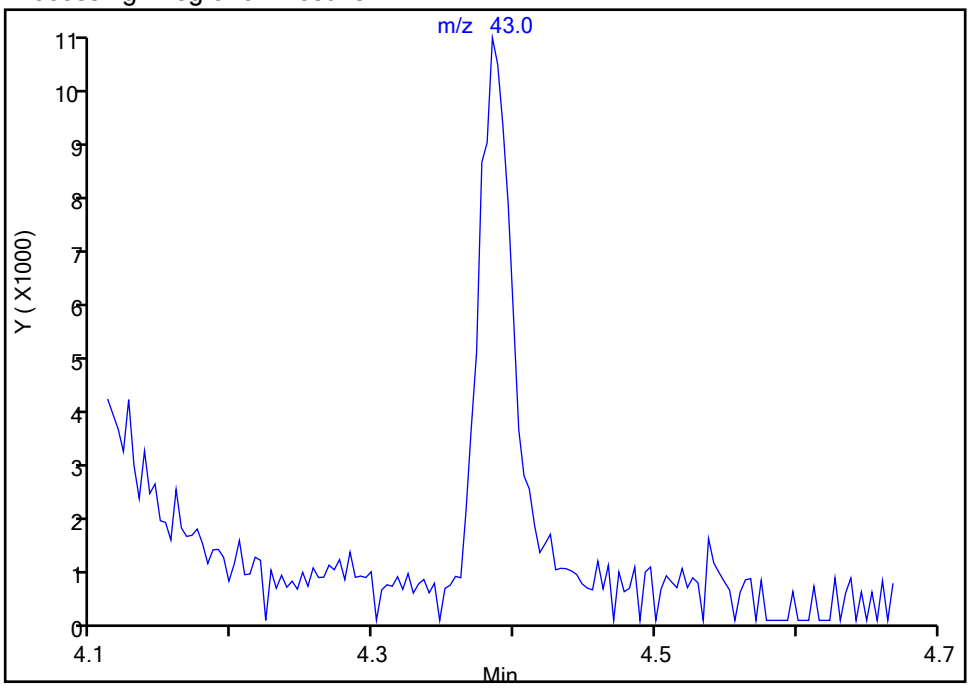
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Injection Date:	30-Jul-2024 12:40:30	Instrument ID:	VMS_G2		
Lims ID:	STD2				
Client ID:					
Operator ID:	COULTER	ALS Bottle#:	3	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

57 n-Heptane, CAS: 142-82-5

Signal: 1

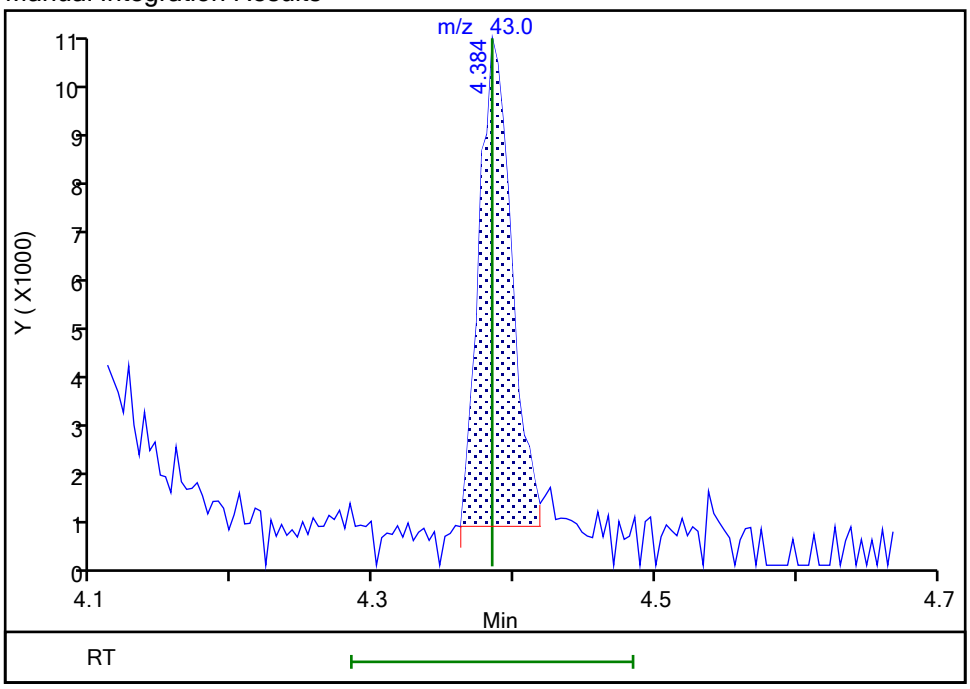
Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 16136
Amount: 1.706833
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:19:16 -06:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

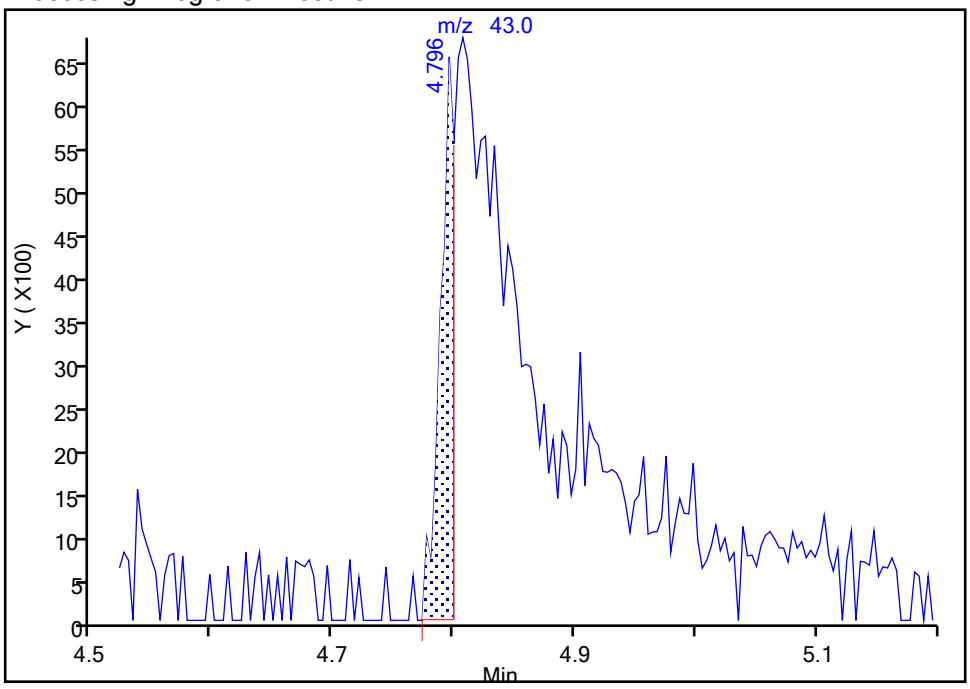
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14232.D
Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

60 2-Pentanone, CAS: 107-87-9

Signal: 1

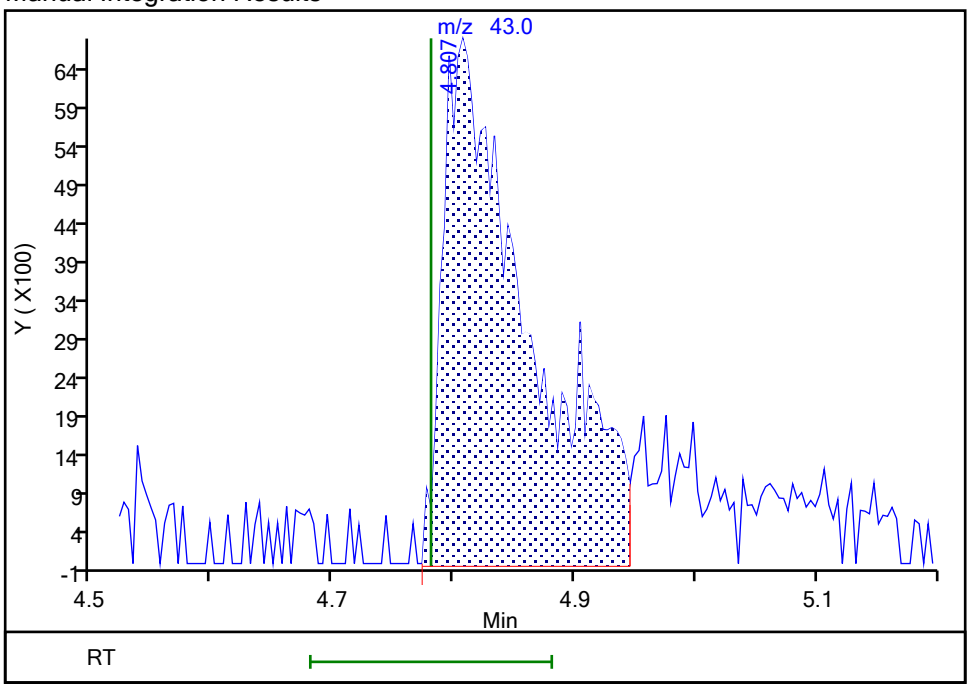
Processing Integration Results

RT: 4.80
Area: 5296
Amount: 6.377618
Amount Units: ug/l



Manual Integration Results

RT: 4.81
Area: 33321
Amount: 6.602808
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:19:42 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

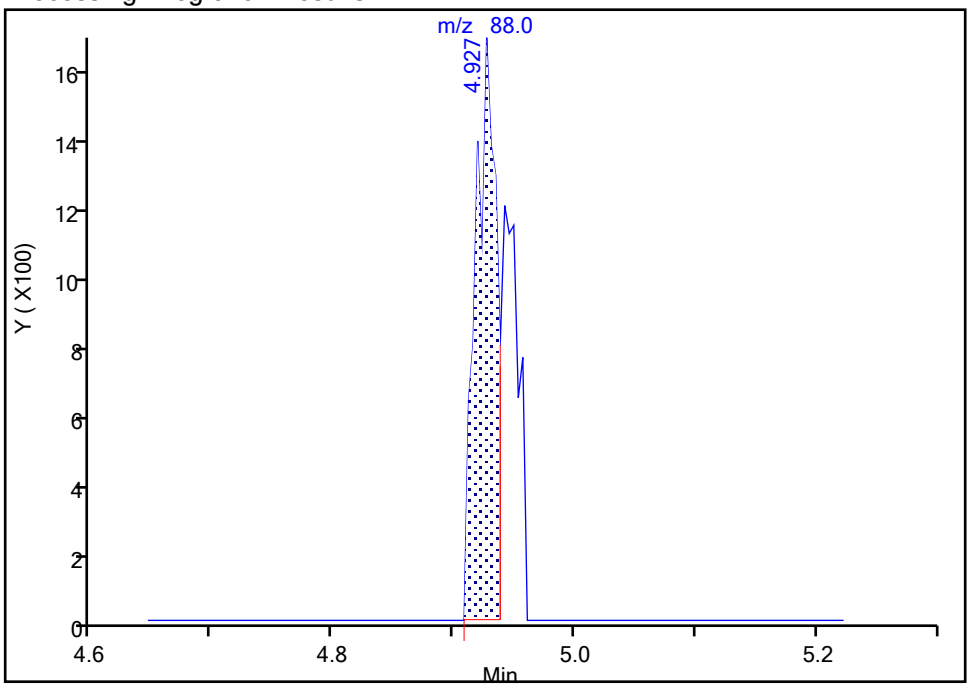
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

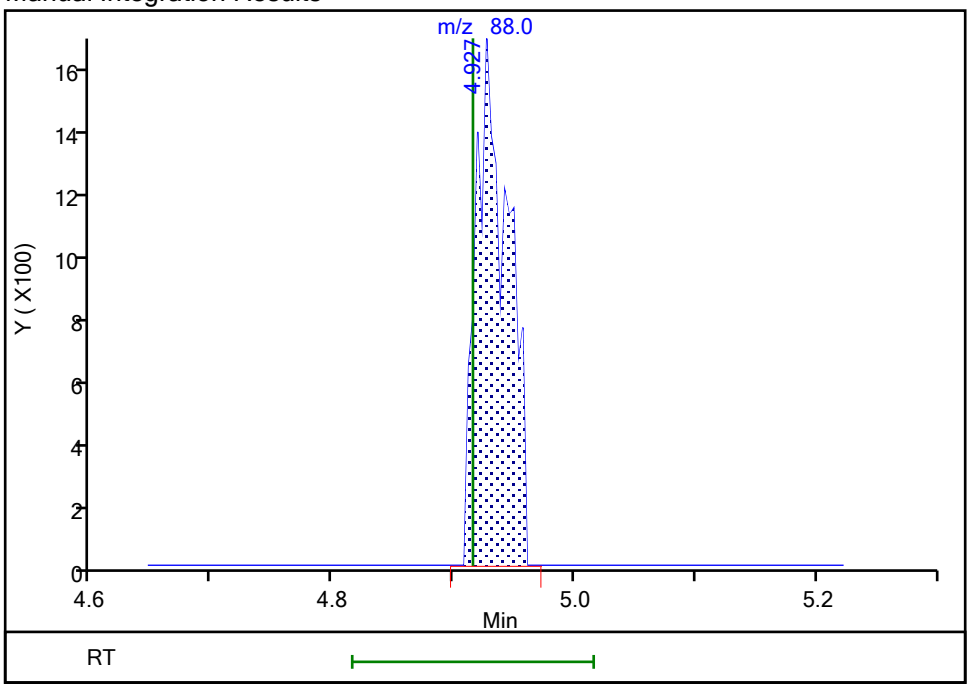
Processing Integration Results

RT: 4.93
Area: 1959
Amount: 40.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.93
Area: 3016
Amount: 40.643437
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:20:01 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

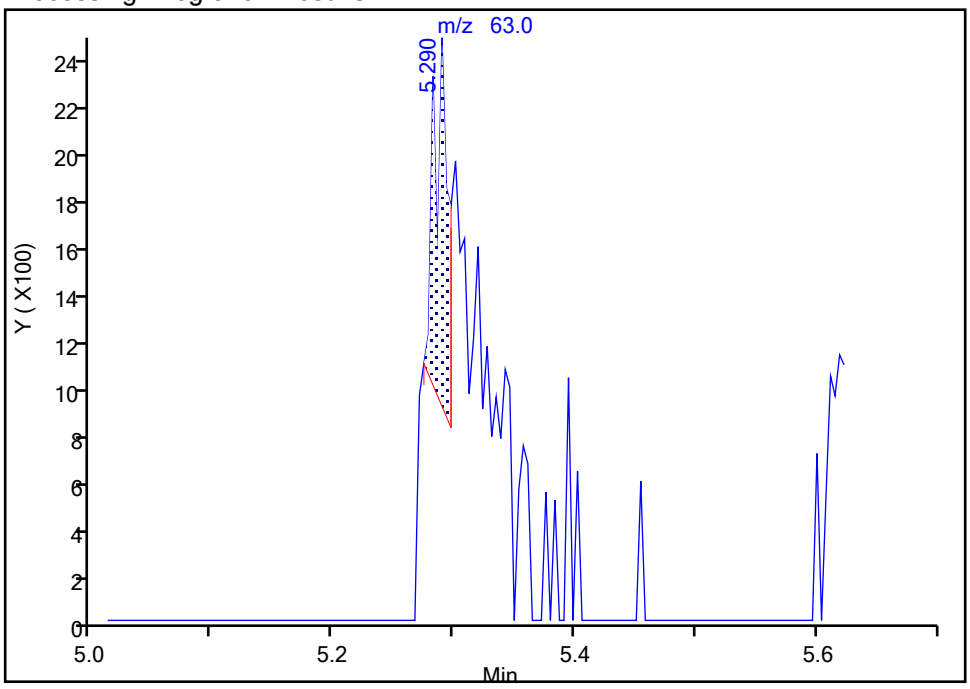
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

68 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

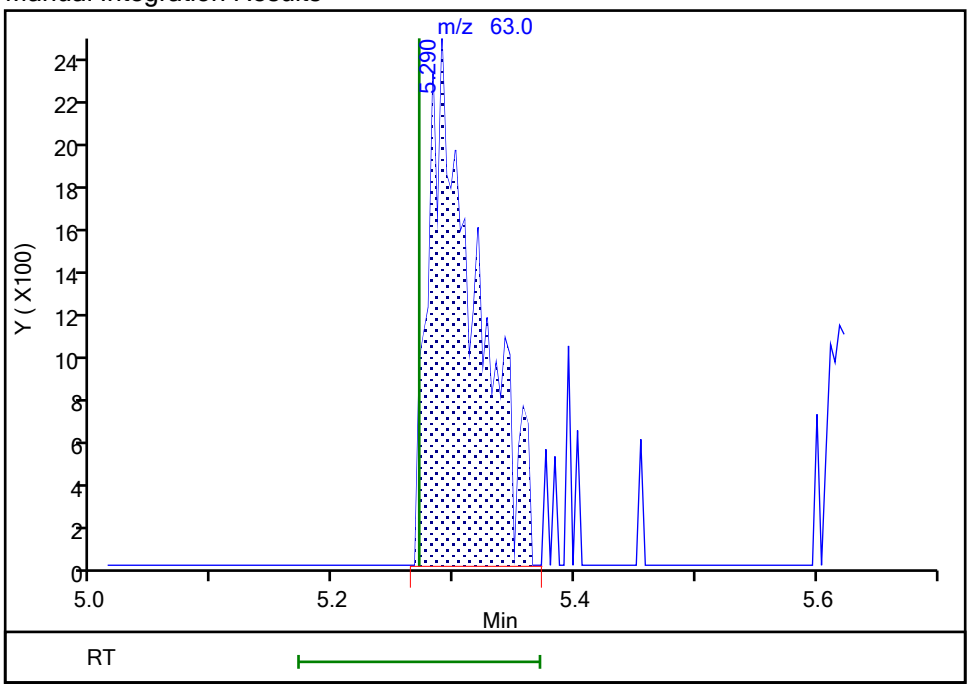
Processing Integration Results

RT: 5.29
Area: 1239
Amount: 0.291784
Amount Units: ug/l



Manual Integration Results

RT: 5.29
Area: 6830
Amount: 2.470749
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:20:36 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver

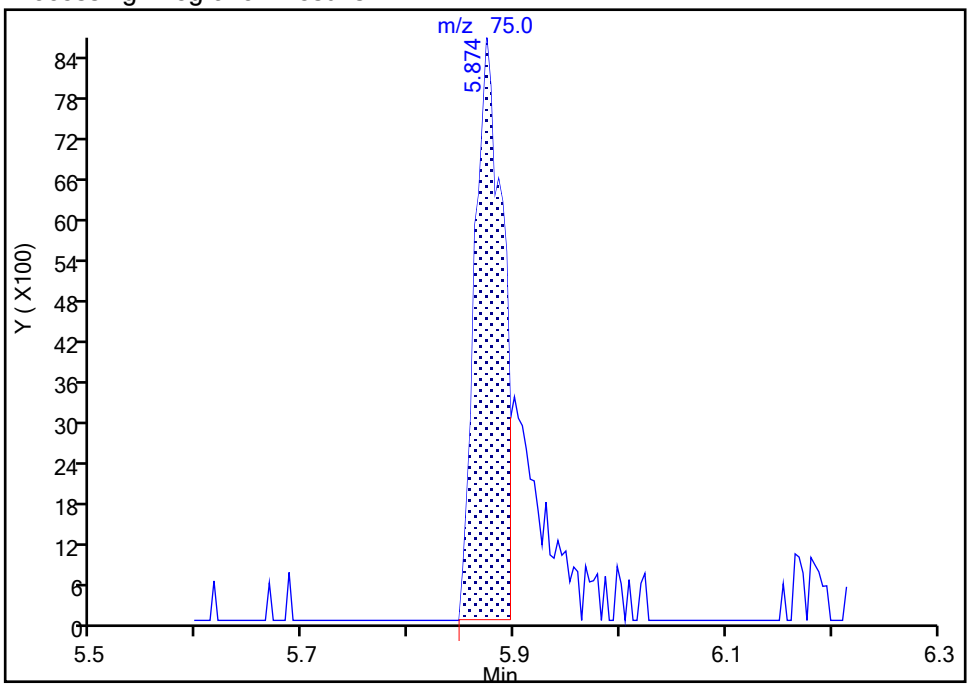
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

72 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

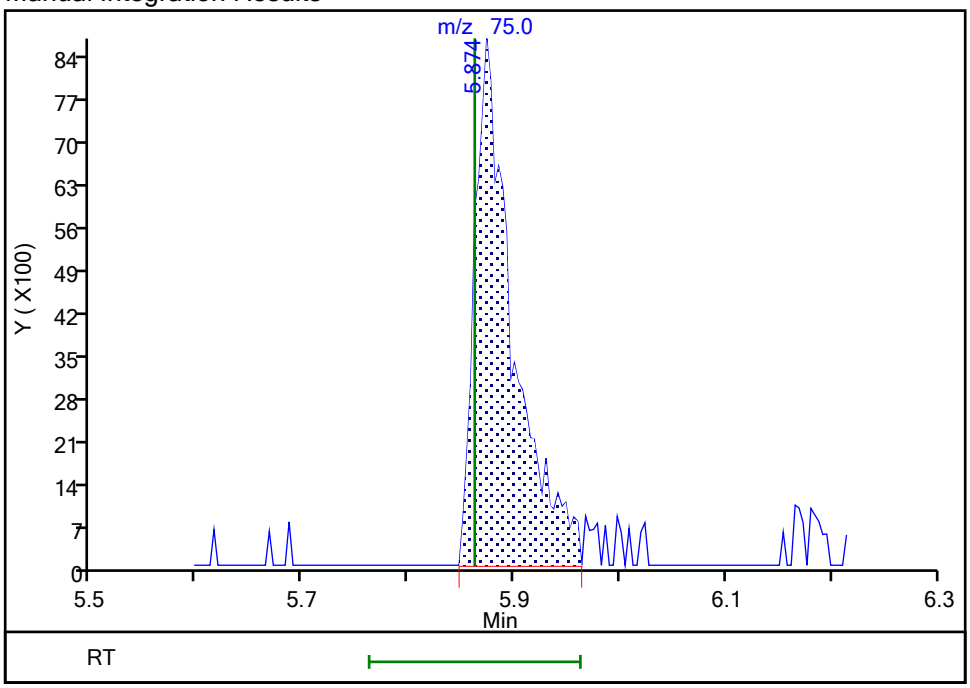
Processing Integration Results

RT: 5.87
Area: 15660
Amount: 1.743069
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 21877
Amount: 2.042382
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:26:10 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver

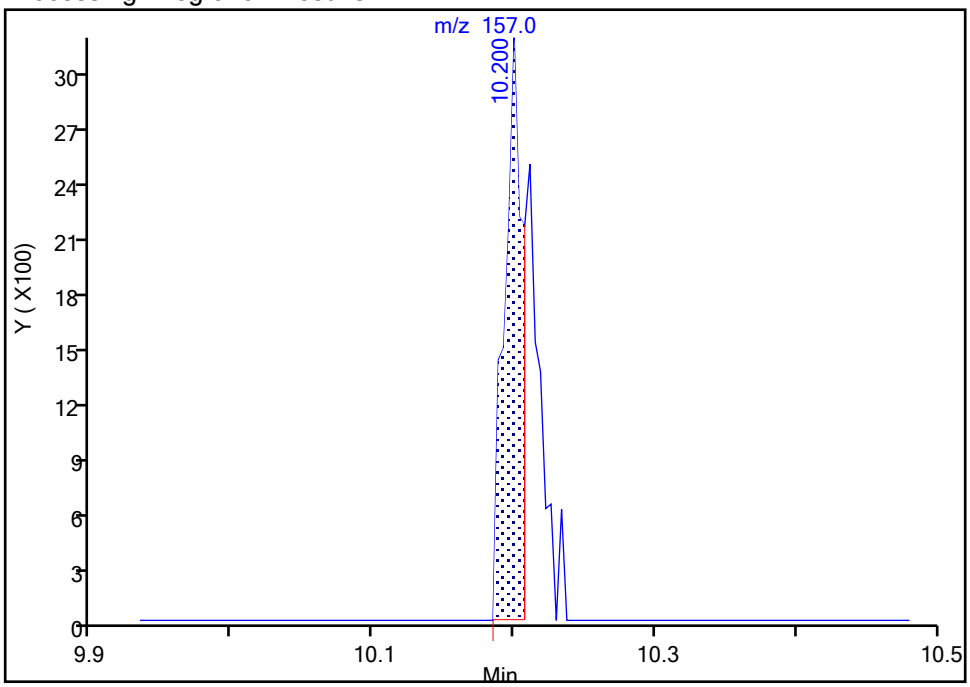
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Injection Date: 30-Jul-2024 12:40:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 3 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

108 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

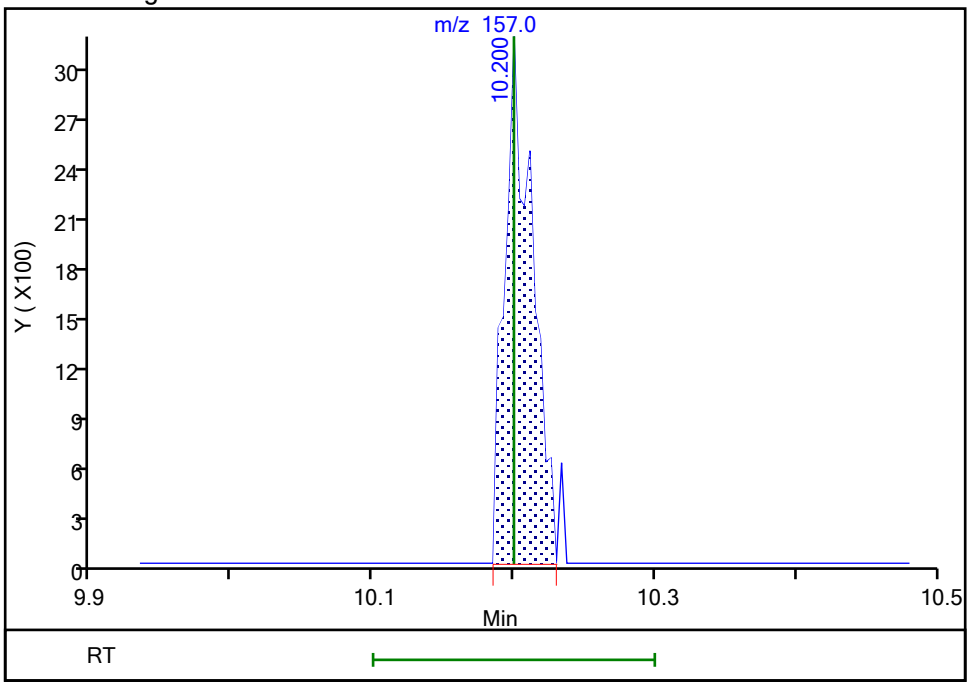
Processing Integration Results

RT: 10.20
Area: 2831
Amount: 1.778504
Amount Units: ug/l



Manual Integration Results

RT: 10.20
Area: 4314
Amount: 1.804374
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:49:57 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14233.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jul-2024 13:01:30 ALS Bottle#: 4 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:29 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:25:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2083715	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	498795	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	95	792210	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.928	-0.004	93	508440	50.0	49.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	527555	50.0	50.9	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	2092352	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.947	-0.004	89	716556	50.0	51.4	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	63374	5.00	5.91	
10 Chloromethane	50	1.548	1.551	-0.003	99	56887	5.00	5.24	M
11 Vinyl chloride	62	1.562	1.562	0.000	98	66314	5.00	5.41	
12 Bromomethane	94	1.780	1.783	-0.003	89	37707	5.00	5.37	
13 Chloroethane	64	1.862	1.869	-0.007	99	44367	5.00	5.17	
14 Dichlorofluoromethane	67	2.019	2.023	-0.004	97	92462	5.00	5.20	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	68786	5.00	5.14	
18 Ethyl ether	59	2.236	2.236	0.000	91	29441	5.00	4.28	
19 Acrolein	56	2.345	2.333	0.012	96	28100	49.4	39.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	76	27056	5.00	4.21	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	34170	5.00	4.18	
22 Acetone	43	2.438	2.427	0.011	99	35091	20.0	13.8	
23 Iodomethane	142	2.506	2.509	-0.003	99	25275	5.00	5.37	M
25 Carbon disulfide	76	2.562	2.562	0.000	99	109860	5.00	4.39	
26 Methyl acetate	43	2.636	2.633	0.003	95	38497	10.0	8.30	
16 3-Chloro-1-propene	41	2.648	2.644	0.004	92	53160	5.00	4.58	
28 Methylene Chloride	84	2.734	2.734	0.000	90	44051	5.00	4.59	
29 2-Methyl-2-propanol	59	2.786	2.782	0.004	100	47182	50.0	47.4	
30 Acrylonitrile	53	2.898	2.883	0.015	61	105084	50.0	42.6	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	93	129120	5.00	4.57	
32 trans-1,2-Dichloroethene	96	2.913	2.910	0.003	97	38256	5.00	4.23	
33 Hexane	57	3.089	3.089	0.000	91	46966	5.00	4.24	
35 Vinyl acetate	43	3.209	3.194	0.015	86	115043	10.0	9.15	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	71809	5.00	4.46	

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	3.591	3.572	0.019	60	54712	20.0	17.1	
40 cis-1,2-Dichloroethene	96	3.591	3.587	0.004	82	40484	5.00	4.18	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	78	54632	5.00	4.24	
44 sec-Butyl Alcohol	45	3.699	3.688	0.011	99	55398	120.0	109.3	
46 Chlorobromomethane	128	3.759	3.755	0.004	91	19759	5.00	4.53	
47 Tetrahydrofuran	42	3.770	3.763	0.007	83	15821	10.0	7.89	
48 Chloroform	83	3.815	3.815	0.000	92	69151	5.00	4.37	
49 1,1,1-Trichloroethane	97	3.935	3.939	-0.004	99	60112	5.00	4.35	
50 Cyclohexane	56	3.991	3.991	0.000	87	66976	5.00	4.29	
51 Carbon tetrachloride	117	4.051	4.047	0.004	98	48468	5.00	4.11	
52 1,1-Dichloropropene	75	4.055	4.051	0.004	93	50894	5.00	4.16	
53 Isobutyl alcohol	41	4.100	4.092	0.008	91	18264	125.0	95.3	
54 Benzene	78	4.193	4.193	0.000	95	161329	5.00	4.24	
55 1,2-Dichloroethane	62	4.234	4.227	0.007	95	47715	5.00	4.35	
57 n-Heptane	43	4.388	4.384	0.004	89	40472	5.00	4.19	
59 Trichloroethene	95	4.669	4.669	0.001	98	39419	5.00	4.36	
60 2-Pentanone	43	4.796	4.781	0.015	98	75816	16.0	13.0	
61 Methylcyclohexane	55	4.841	4.844	-0.003	91	48267	5.00	4.35	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	43420	5.00	4.47	
64 1,4-Dioxane	88	4.927	4.915	0.012	43	11154	100.0	97.2	
65 Dibromomethane	93	4.938	4.934	0.004	97	25753	5.00	4.43	
66 Dichlorobromomethane	83	5.061	5.058	0.003	98	51643	5.00	4.21	
68 2-Chloroethyl vinyl ether	63	5.282	5.271	0.011	90	18097	5.00	4.21	
69 cis-1,3-Dichloropropene	75	5.406	5.402	0.004	97	59511	5.00	4.32	
70 4-Methyl-2-pentanone (MIBK)	43	5.511	5.507	0.004	94	151251	20.0	17.9	
71 Toluene	91	5.679	5.675	0.004	97	178729	5.00	4.33	
72 trans-1,3-Dichloropropene	75	5.877	5.862	0.015	91	52552	5.00	4.02	
73 Ethyl methacrylate	69	5.903	5.896	0.007	85	48422	5.00	4.58	
74 1,1,2-Trichloroethane	97	6.027	6.023	0.004	90	38168	5.00	4.30	
75 Tetrachloroethene	164	6.106	6.102	0.004	96	32497	5.00	4.38	
76 1,3-Dichloropropane	76	6.169	6.165	0.004	85	64670	5.00	4.46	
77 2-Hexanone	43	6.207	6.199	0.008	95	93995	20.0	17.7	
78 Chlorodibromomethane	129	6.349	6.349	0.000	89	46091	5.00	4.73	
79 Ethylene Dibromide	107	6.465	6.457	0.008	99	37892	5.00	4.50	
80 1-Chlorohexane	91	6.865	6.861	0.004	36	47204	4.00	3.41	
81 Chlorobenzene	112	6.884	6.888	-0.004	96	115552	5.00	4.42	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	96	41154	5.00	4.37	
83 Ethylbenzene	106	6.970	6.970	0.000	98	59124	5.00	4.23	
84 m-Xylene & p-Xylene	106	7.094	7.090	0.004	99	64628	5.00	3.96	
85 o-Xylene	106	7.442	7.438	0.004	96	75006	5.00	4.47	
86 Styrene	104	7.464	7.456	0.008	94	112484	5.00	4.18	
87 Bromoform	173	7.625	7.625	0.000	96	30573	5.00	4.47	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	180084	5.00	4.36	
89 Cyclohexanone	55	7.864	7.861	0.003	90	75869	150.0	135.6	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	95	56003	5.00	4.65	
92 Bromobenzene	156	8.081	8.078	0.003	90	44604	5.00	4.32	
93 trans-1,4-Dichloro-2-butene	53	8.119	8.111	0.008	65	10447	5.00	4.77	
94 1,2,3-Trichloropropane	110	8.130	8.126	0.004	85	17991	5.00	5.06	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	48629	5.00	4.38	
96 2-Chlorotoluene	126	8.261	8.257	0.004	97	43944	5.00	4.42	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	141001	5.00	4.36	
98 4-Chlorotoluene	126	8.381	8.373	0.008	95	45889	5.00	4.54	

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	8.647	8.647	0.001	92	124106	5.00	4.36	
100 1,2,4-Trimethylbenzene	105	8.710	8.706	0.004	97	147256	5.00	4.58	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	37283	5.00	4.35	
102 1,3-Dichlorobenzene	146	8.983	8.980	0.003	98	79542	5.00	4.26	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	152026	5.00	4.46	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	93	88100	5.00	4.38	
106 n-Butylbenzene	91	9.414	9.410	0.004	98	124867	5.00	4.35	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	97	82621	5.00	4.41	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	84	10863	5.00	4.42	
110 1,2,4-Trichlorobenzene	180	11.019	11.012	0.007	93	39819	5.00	4.33	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	97	20620	5.00	4.52	
112 Naphthalene	128	11.277	11.270	0.007	97	98194	5.00	4.15	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	96	36934	5.00	4.35	
S 115 1,2-Dichloroethene, Total	1				0		10.0	8.40	
S 116 1,3-Dichloropropene, Total	1				0		10.0	8.35	
S 117 Xylenes, Total	106				0		10.0	8.43	
S 118 Total BTEX	1				0			21.2	
S 119 Trihalomethanes, Total	1				0		20.0	17.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MV-MegaMain B_00107	Amount Added:	2.50	Units: uL	
MV-Gas B_00168	Amount Added:	1.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

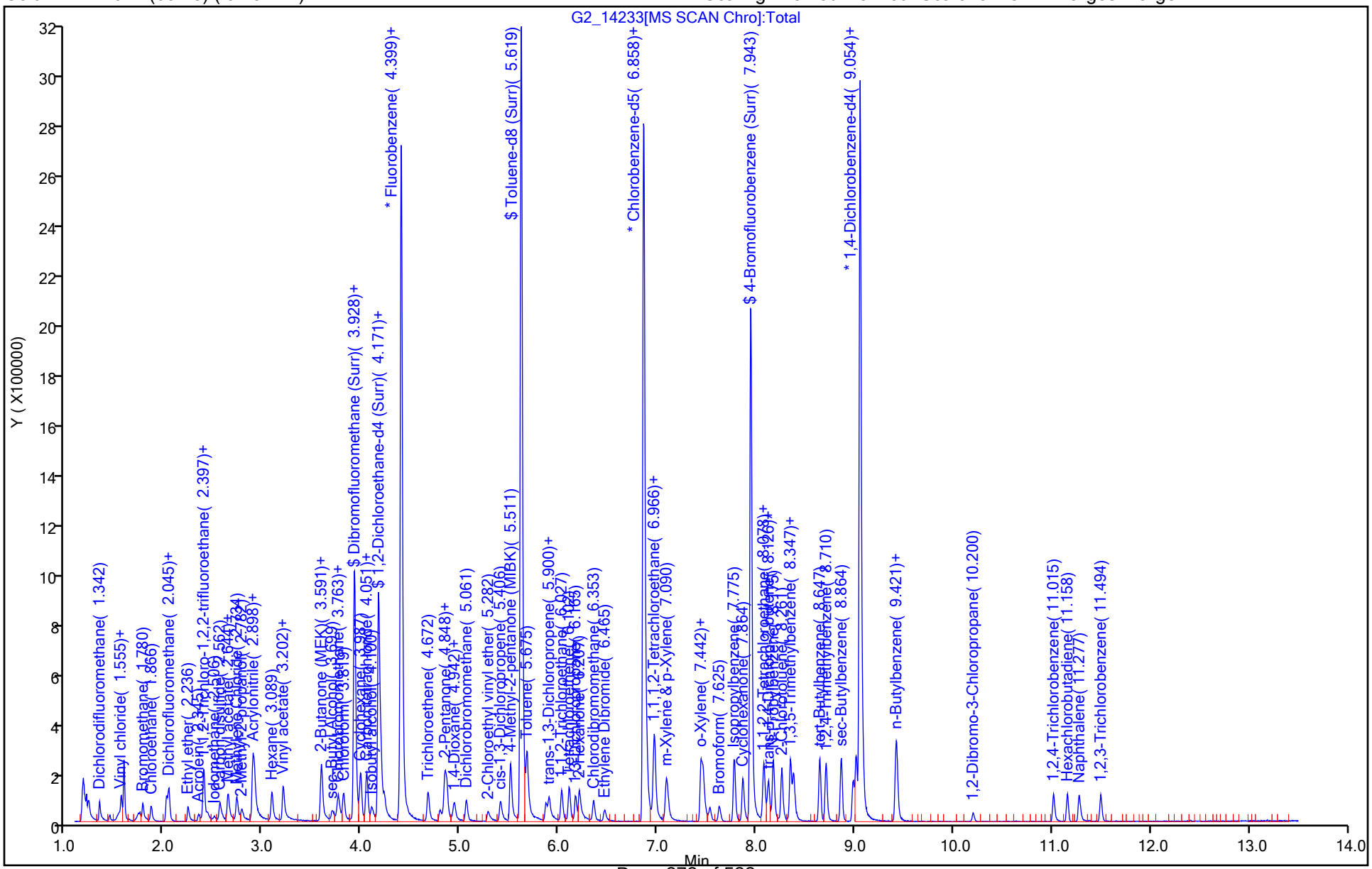
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Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14233.D

Injection Date:	30-Jul-2024 13:01:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD5			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSG2_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

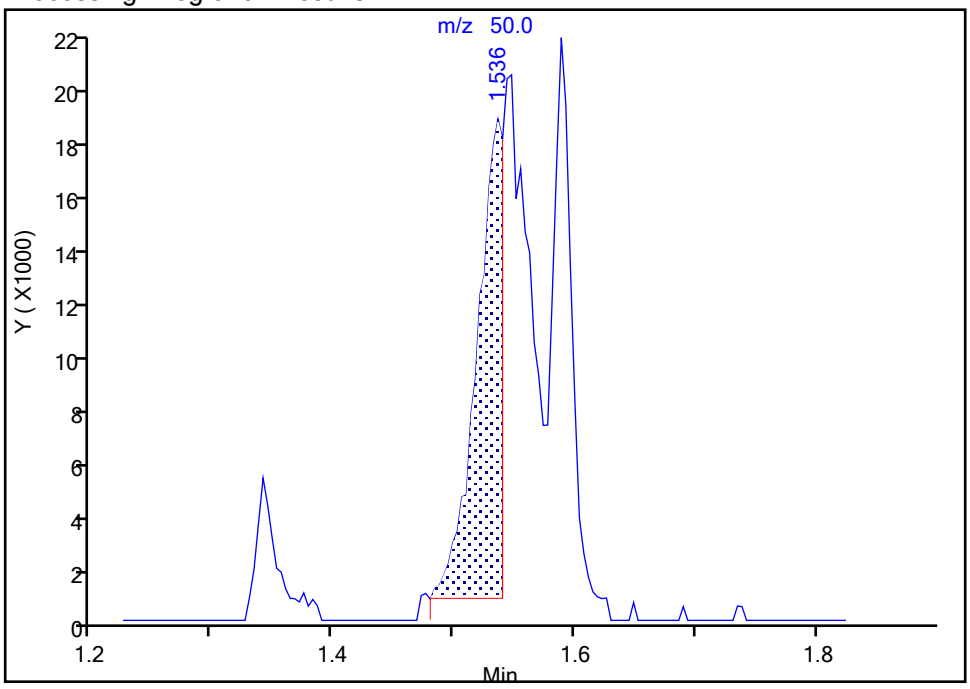
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Injection Date: 30-Jul-2024 13:01:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER ALS Bottle#: 4 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

10 Chloromethane, CAS: 74-87-3

Signal: 1

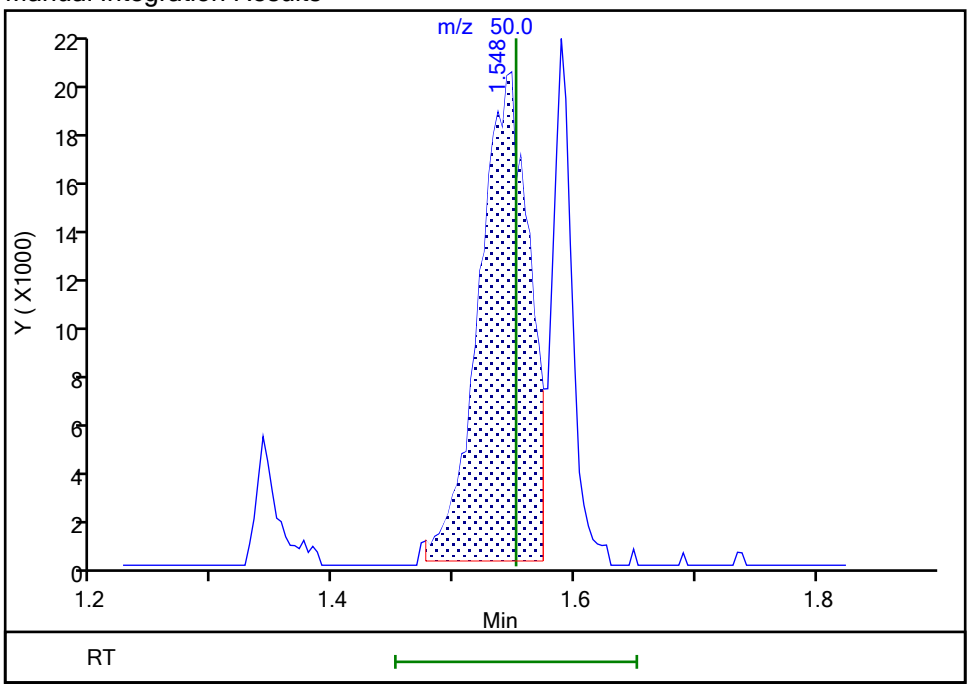
Processing Integration Results

RT: 1.54
Area: 26679
Amount: 3.410262
Amount Units: ug/l



Manual Integration Results

RT: 1.55
Area: 56887
Amount: 5.238542
Amount Units: ug/l



Reviewer: BMJ3, 30-Jul-2024 14:22:51 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

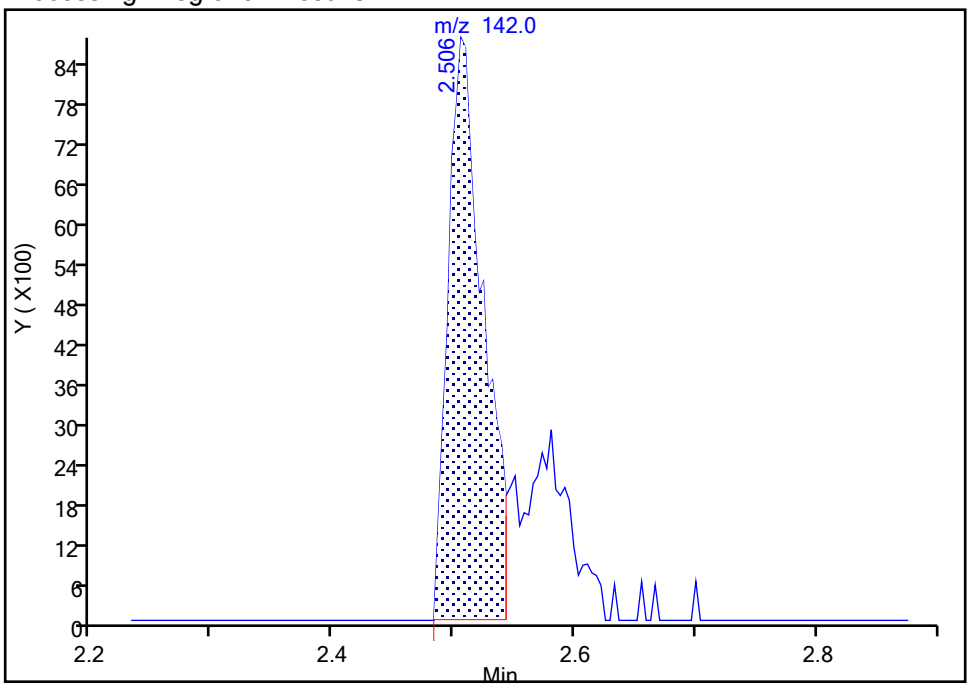
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Injection Date: 30-Jul-2024 13:01:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER ALS Bottle#: 4 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

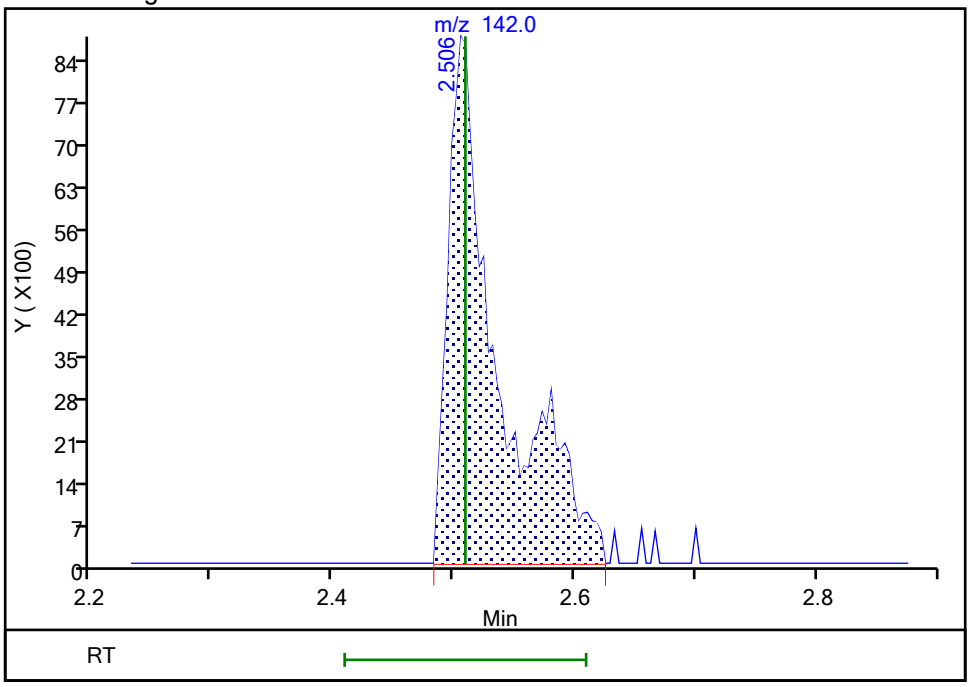
Processing Integration Results

RT: 2.51
Area: 17691
Amount: 5.916253
Amount Units: ug/l



Manual Integration Results

RT: 2.51
Area: 25275
Amount: 5.371522
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:45:21 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14234.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Jul-2024 13:22:30 ALS Bottle#: 5 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:34 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:11:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	2066114	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	85	504583	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	94	816205	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	511276	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	97	521640	50.0	50.8	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	2112430	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	90	712445	50.0	49.6	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	119953	10.0	10.9	
10 Chloromethane	50	1.548	1.548	0.000	98	112069	10.0	10.4	
11 Vinyl chloride	62	1.563	1.563	0.000	97	125260	10.0	10.3	
12 Bromomethane	94	1.776	1.776	0.000	89	58031	10.0	8.34	
13 Chloroethane	64	1.858	1.858	0.000	99	85763	10.0	10.1	
14 Dichlorofluoromethane	67	2.019	2.019	0.000	96	174601	10.0	9.90	
15 Trichlorofluoromethane	101	2.042	2.042	0.000	98	131492	10.0	9.91	
18 Ethyl ether	59	2.236	2.236	0.000	89	68826	10.0	10.1	
19 Acrolein	56	2.341	2.341	0.000	99	77693	98.8	84.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.393	2.393	0.000	71	65048	10.0	10.2	
21 1,1-Dichloroethene	96	2.397	2.397	0.000	98	83345	10.0	10.3	
22 Acetone	43	2.431	2.431	0.000	100	88974	40.0	36.0	
23 Iodomethane	142	2.502	2.502	0.000	98	60600	10.0	8.50	M
25 Carbon disulfide	76	2.562	2.562	0.000	98	257350	10.0	10.4	
26 Methyl acetate	43	2.637	2.637	0.000	88	105922	20.0	19.3	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	92	118922	10.0	10.3	
28 Methylene Chloride	84	2.730	2.730	0.000	87	96891	10.0	10.2	
29 2-Methyl-2-propanol	59	2.786	2.786	0.000	99	95535	100.0	93.1	
30 Acrylonitrile	53	2.887	2.887	0.000	99	278562	100.0	88.0	
31 Methyl tert-butyl ether	73	2.899	2.899	0.000	94	277166	10.0	9.89	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	92329	10.0	10.3	
33 Hexane	57	3.089	3.089	0.000	90	117950	10.0	10.5	
35 Vinyl acetate	43	3.198	3.198	0.000	97	251859	20.0	19.2	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	156790	10.0	9.82	

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	3.580	3.580	0.000	96	131378	40.0	35.3	
40 cis-1,2-Dichloroethene	96	3.591	3.591	0.000	82	98686	10.0	9.46	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	79	127309	10.0	9.96	
44 sec-Butyl Alcohol	45	3.696	3.696	0.000	99	131477	240.0	198.0	
46 Chlorobromomethane	128	3.756	3.756	0.000	94	46699	10.0	10.8	
47 Tetrahydrofuran	42	3.767	3.767	0.000	85	47969	20.0	19.4	
48 Chloroform	83	3.815	3.815	0.000	93	162110	10.0	10.3	
49 1,1,1-Trichloroethane	97	3.935	3.935	0.000	98	139997	10.0	10.2	
50 Cyclohexane	56	3.988	3.988	0.000	87	155854	10.0	10.1	
51 Carbon tetrachloride	117	4.047	4.047	0.000	96	117353	10.0	10.0	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	96	118260	10.0	9.74	
53 Isobutyl alcohol	41	4.100	4.100	0.000	95	53266	250.0	205.6	
54 Benzene	78	4.190	4.190	0.000	95	381688	10.0	10.1	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	108871	10.0	10.0	
57 n-Heptane	43	4.388	4.388	0.000	87	97119	10.0	10.1	
59 Trichloroethene	95	4.669	4.669	0.000	98	89653	10.0	9.81	
60 2-Pentanone	43	4.788	4.788	0.000	98	184650	32.0	29.9	
61 Methylcyclohexane	55	4.841	4.841	0.000	90	113445	10.0	10.3	
62 1,2-Dichloropropane	63	4.859	4.859	0.000	97	98873	10.0	10.3	
64 1,4-Dioxane	88	4.931	4.931	0.000	93	24721	200.0	193.8	M
65 Dibromomethane	93	4.938	4.938	0.000	96	57991	10.0	10.0	
66 Dichlorobromomethane	83	5.062	5.062	0.000	99	120339	10.0	9.89	
68 2-Chloroethyl vinyl ether	63	5.279	5.279	0.000	90	46754	10.0	8.76	
69 cis-1,3-Dichloropropene	75	5.406	5.406	0.000	97	140811	10.0	10.1	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	95	344384	40.0	39.0	
71 Toluene	91	5.675	5.675	0.000	98	420949	10.0	10.3	
72 trans-1,3-Dichloropropene	75	5.866	5.866	0.000	91	124151	10.0	8.79	
73 Ethyl methacrylate	69	5.896	5.896	0.000	87	112330	10.0	9.25	
74 1,1,2-Trichloroethane	97	6.027	6.027	0.000	89	88733	10.0	10.1	
75 Tetrachloroethene	164	6.106	6.106	0.000	97	74501	10.0	9.94	
76 1,3-Dichloropropane	76	6.169	6.169	0.000	85	147259	10.0	10.0	
77 2-Hexanone	43	6.203	6.203	0.000	94	224076	40.0	38.1	
78 Chlorodibromomethane	129	6.353	6.353	0.000	90	99156	10.0	10.1	
79 Ethylene Dibromide	107	6.461	6.461	0.000	100	87326	10.0	10.3	
80 1-Chlorohexane	91	6.862	6.862	0.000	37	108683	8.00	7.76	
81 Chlorobenzene	112	6.888	6.888	0.000	96	266963	10.0	10.1	
82 1,1,1,2-Tetrachloroethane	131	6.963	6.963	0.000	96	95000	10.0	9.97	
83 Ethylbenzene	106	6.970	6.970	0.000	98	143248	10.0	10.1	
84 m-Xylene & p-Xylene	106	7.094	7.094	0.000	100	164541	10.0	9.97	
85 o-Xylene	106	7.438	7.438	0.000	95	168884	10.0	9.95	
86 Styrene	104	7.460	7.460	0.000	95	275019	10.0	9.37	
87 Bromoform	173	7.629	7.629	0.000	96	66515	10.0	9.61	
88 Isopropylbenzene	105	7.778	7.778	0.000	95	436928	10.0	10.3	
89 Cyclohexanone	55	7.865	7.865	0.000	90	167239	300.0	295.4	
91 1,1,2,2-Tetrachloroethane	83	8.074	8.074	0.000	94	128389	10.0	10.3	
92 Bromobenzene	156	8.082	8.082	0.000	91	106606	10.0	10.0	
93 trans-1,4-Dichloro-2-butene	53	8.112	8.112	0.000	87	24111	10.0	9.18	
94 1,2,3-Trichloropropane	110	8.123	8.123	0.000	86	37677	10.0	10.3	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	114579	10.0	10.0	
96 2-Chlorotoluene	126	8.257	8.257	0.000	97	101857	10.0	9.95	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	335805	10.0	10.1	
98 4-Chlorotoluene	126	8.377	8.377	0.000	96	101496	10.0	9.75	

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	8.647	8.647	0.000	93	296190	10.0	10.1	
100 1,2,4-Trimethylbenzene	105	8.707	8.707	0.000	97	330427	10.0	9.97	
101 sec-Butylbenzene	134	8.860	8.860	0.000	94	88052	10.0	9.97	
102 1,3-Dichlorobenzene	146	8.983	8.983	0.000	98	196433	10.0	10.2	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	357063	10.0	10.2	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	212529	10.0	10.2	
106 n-Butylbenzene	91	9.414	9.414	0.000	97	298282	10.0	10.1	
107 1,2-Dichlorobenzene	146	9.429	9.429	0.000	97	188951	10.0	9.79	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	86	24254	10.0	9.58	
110 1,2,4-Trichlorobenzene	180	11.015	11.015	0.000	95	92315	10.0	9.73	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	97	46406	10.0	9.87	
112 Naphthalene	128	11.274	11.274	0.000	97	241992	10.0	9.93	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	83014	10.0	9.49	
S 115 1,2-Dichloroethene, Total	1				0		20.0	19.7	
S 116 1,3-Dichloropropene, Total	1				0		20.0	18.9	
S 117 Xylenes, Total	106				0		20.0	19.9	
S 118 Total BTEX	1				0			50.4	
S 119 Trihalomethanes, Total	1				0		40.0	39.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MV-MegaMain B_00107	Amount Added:	5.00	Units: uL	
MV-Gas B_00168	Amount Added:	2.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

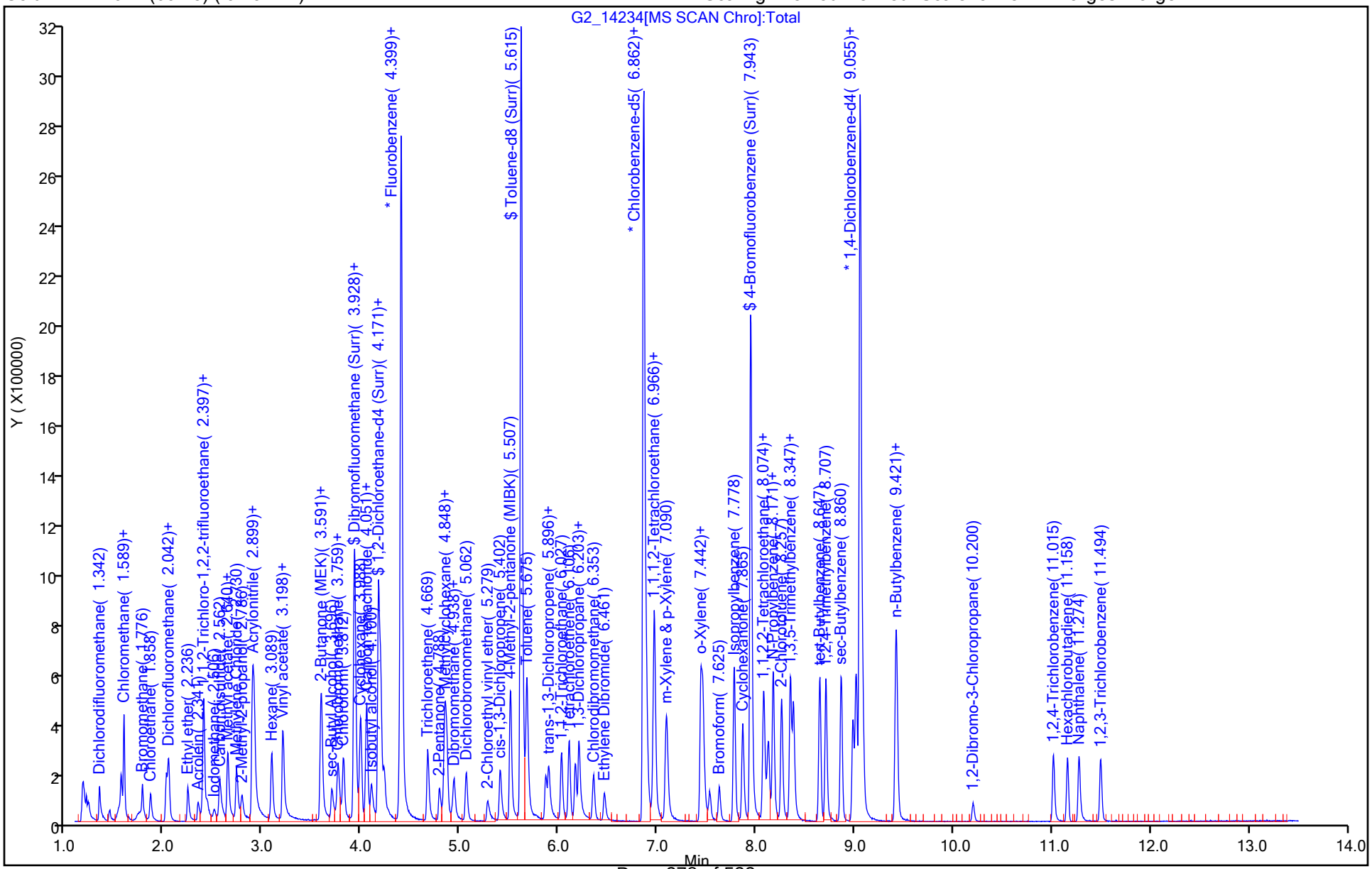
Report Date: 31-Jul-2024 11:07:35 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14234.D

Injection Date:	30-Jul-2024 13:22:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD10			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

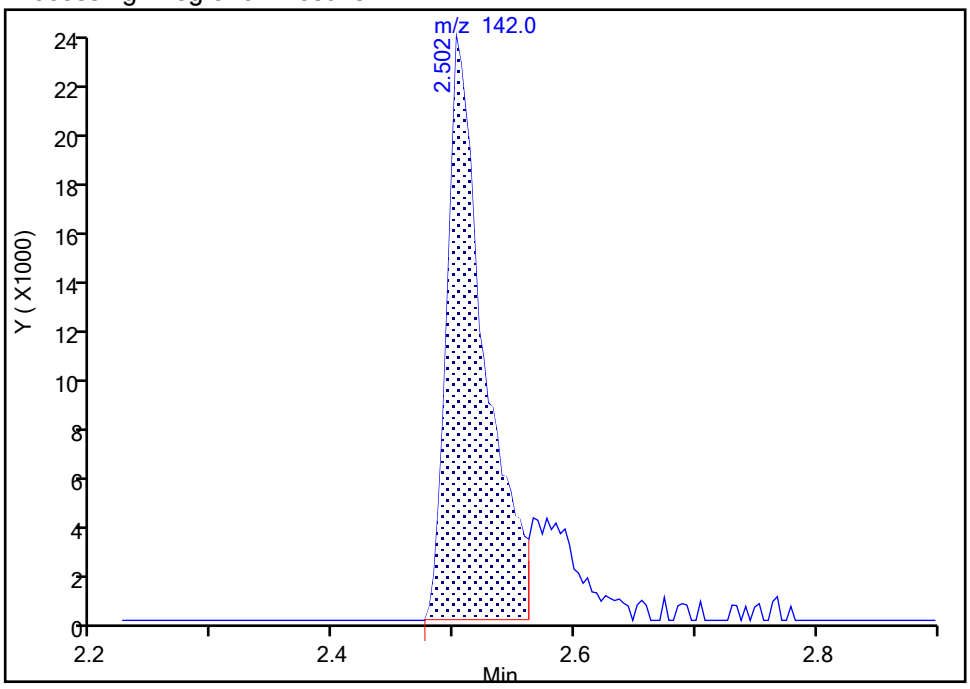
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Injection Date: 30-Jul-2024 13:22:30 Instrument ID: VMS_G2
Lims ID: STD10
Client ID:
Operator ID: COULTER ALS Bottle#: 5 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

23 Iodomethane, CAS: 74-88-4

Signal: 1

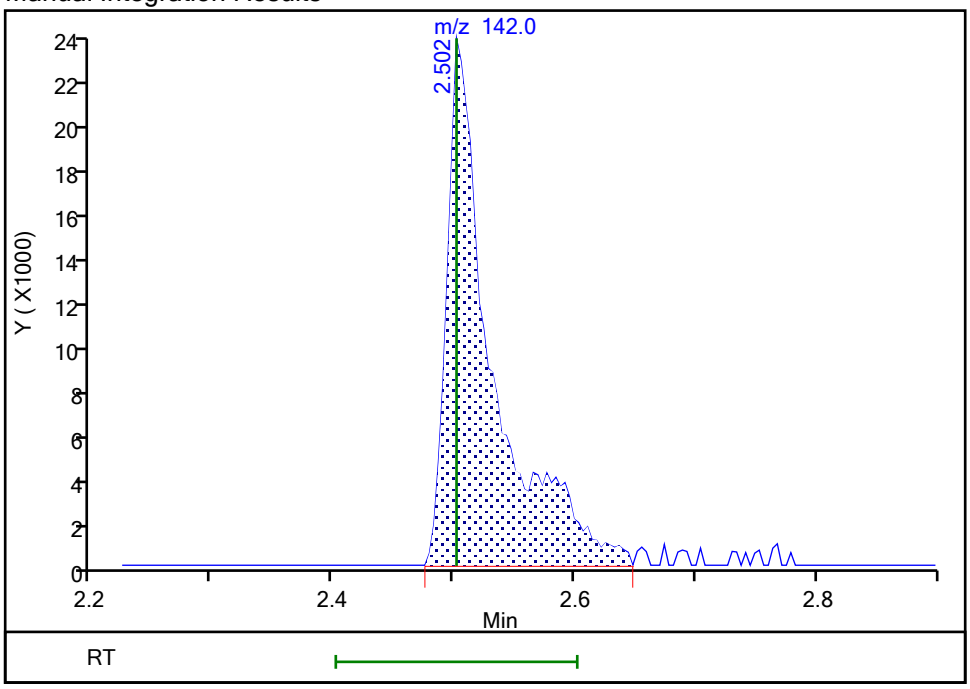
Processing Integration Results

RT: 2.50
Area: 49889
Amount: 8.225919
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 60600
Amount: 8.500534
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 18:46:09 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

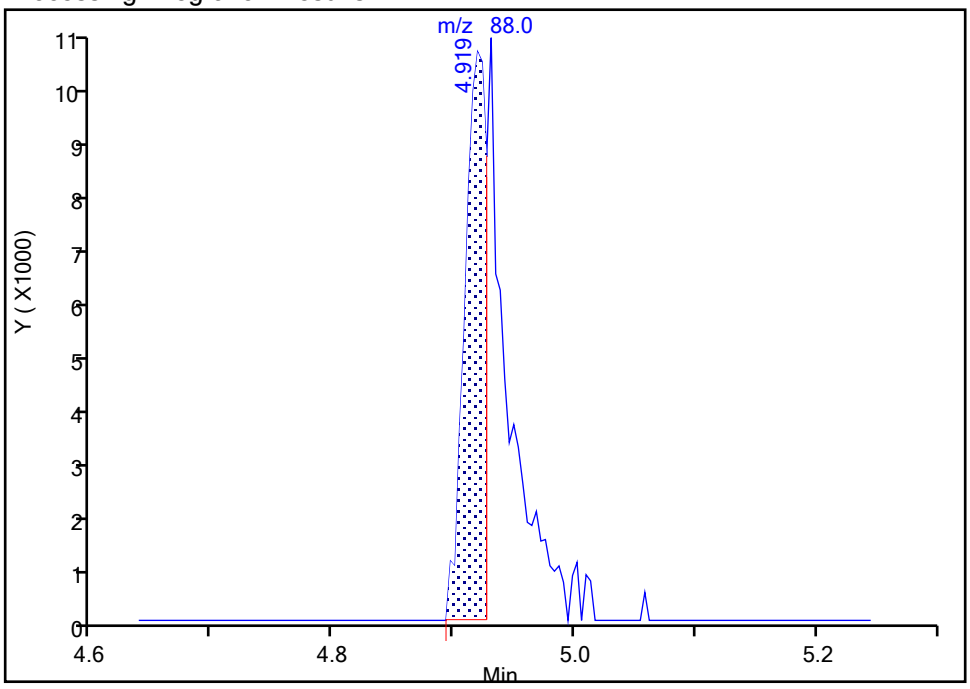
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14234.D
Injection Date: 30-Jul-2024 13:22:30 Instrument ID: VMS_G2
Lims ID: STD10
Client ID:
Operator ID: COULTER ALS Bottle#: 5 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

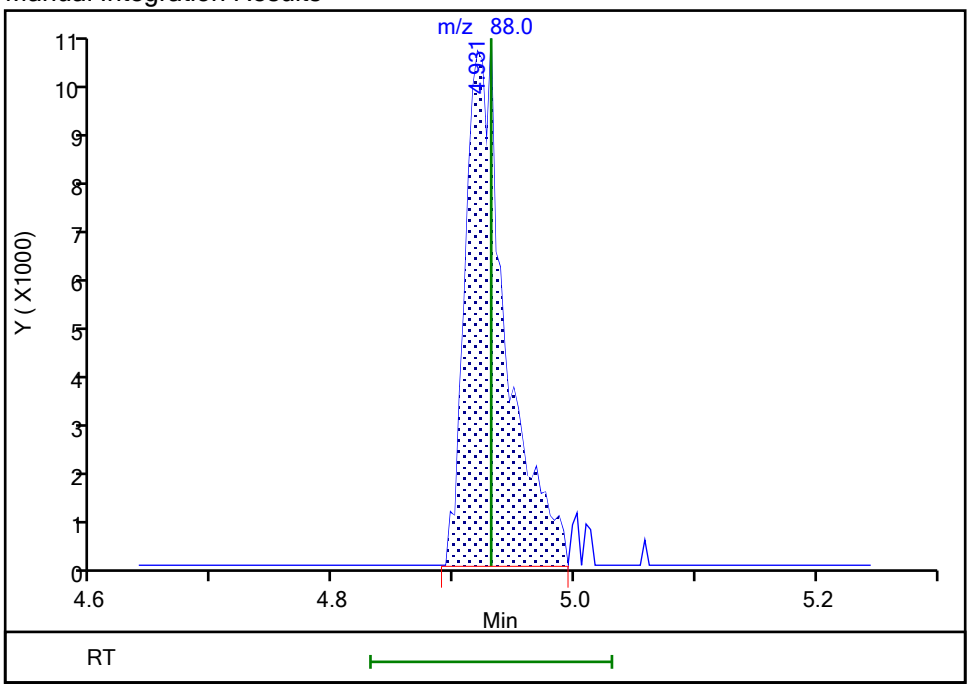
Processing Integration Results

RT: 4.92
Area: 12985
Amount: 120.8049
Amount Units: ug/l



Manual Integration Results

RT: 4.93
Area: 24721
Amount: 193.7633
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 17:52:59 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14235.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 30-Jul-2024 13:43:30 ALS Bottle#: 6 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:41 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:28:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	2185490	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.861	6.861	0.000	89	539883	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.054	0.000	93	879748	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	546447	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	537323	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	94	2213027	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	92	754053	50.0	48.7	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	648116	50.0	54.1	
10 Chloromethane	50	1.551	1.551	0.000	92	600968	50.0	52.8	
11 Vinyl chloride	62	1.562	1.562	0.000	98	692145	50.0	53.8	
12 Bromomethane	94	1.783	1.783	0.000	89	405334	50.0	55.1	
13 Chloroethane	64	1.869	1.869	0.000	99	469609	50.0	52.2	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	97	976963	50.0	52.4	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	99	746168	50.0	53.2	
18 Ethyl ether	59	2.236	2.236	0.000	89	408565	50.0	56.7	
19 Acrolein	56	2.333	2.333	0.000	99	555530	493.8	483.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	73	372397	50.0	55.2	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	478022	50.0	55.7	
22 Acetone	43	2.427	2.427	0.000	99	533525	200.0	205.8	
23 Iodomethane	142	2.509	2.509	0.000	98	540313	50.0	48.1	
25 Carbon disulfide	76	2.562	2.562	0.000	99	1400981	50.0	53.3	
26 Methyl acetate	43	2.633	2.633	0.000	96	700325	100.0	109.7	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	92	677771	50.0	55.7	
28 Methylene Chloride	84	2.734	2.734	0.000	88	540443	50.0	53.6	
29 2-Methyl-2-propanol	59	2.782	2.782	0.000	100	601136	500.0	535.7	
30 Acrylonitrile	53	2.883	2.883	0.000	99	1987540	500.0	504.5	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	1618106	50.0	54.6	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	517882	50.0	54.5	
33 Hexane	57	3.089	3.089	0.000	89	669133	50.0	55.8	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1610068	100.0	112.0	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	932727	50.0	55.2	

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	3.572	3.572	0.000	98	878282	200.0	200.3	
40 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	82	579981	50.0	50.0	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	86	730179	50.0	54.0	
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	1063099	1200.0	1209.4	
46 Chlorobromomethane	128	3.755	3.755	0.000	96	254498	50.0	55.7	
47 Tetrahydrofuran	42	3.763	3.763	0.000	87	299674	100.0	103.0	
48 Chloroform	83	3.815	3.815	0.000	94	890622	50.0	53.7	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	772491	50.0	53.3	
50 Cyclohexane	56	3.991	3.991	0.000	88	888360	50.0	54.2	
51 Carbon tetrachloride	117	4.047	4.047	0.000	93	671415	50.0	54.3	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	97	707379	50.0	55.1	
53 Isobutyl alcohol	41	4.092	4.092	0.000	95	421239	1250.0	1287.8	
54 Benzene	78	4.193	4.193	0.000	95	2187867	50.0	54.8	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	648512	50.0	56.4	
57 n-Heptane	43	4.384	4.384	0.000	89	560638	50.0	55.3	
59 Trichloroethene	95	4.669	4.669	0.000	98	529888	50.0	54.2	
60 2-Pentanone	43	4.781	4.781	0.000	98	1116619	160.0	164.4	
61 Methylcyclohexane	55	4.844	4.844	0.000	90	638889	50.0	54.9	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	563267	50.0	55.3	
64 1,4-Dioxane	88	4.915	4.915	0.000	91	148743	1000.0	1012.9	
65 Dibromomethane	93	4.934	4.934	0.000	96	335693	50.0	55.0	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	700813	50.0	54.5	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	92	327689	50.0	50.3	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	820903	50.0	55.1	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	94	2080284	200.0	214.8	
71 Toluene	91	5.675	5.675	0.000	98	2333194	50.0	53.9	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	91	795102	50.0	50.3	
73 Ethyl methacrylate	69	5.896	5.896	0.000	85	770786	50.0	54.0	
74 1,1,2-Trichloroethane	97	6.023	6.023	0.000	90	499578	50.0	53.6	
75 Tetrachloroethene	164	6.102	6.102	0.000	97	429703	50.0	53.6	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	87	865929	50.0	55.2	
77 2-Hexanone	43	6.199	6.199	0.000	93	1426738	200.0	213.8	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	576476	50.0	54.6	
79 Ethylene Dibromide	107	6.457	6.457	0.000	98	504814	50.0	55.4	
80 1-Chlorohexane	91	6.861	6.861	0.000	77	626367	40.0	41.8	
81 Chlorobenzene	112	6.888	6.888	0.000	96	1526997	50.0	53.9	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	97	553075	50.0	54.2	
83 Ethylbenzene	106	6.970	6.970	0.000	98	836019	50.0	55.2	
84 m-Xylene & p-Xylene	106	7.090	7.090	0.000	100	975506	50.0	55.2	
85 o-Xylene	106	7.438	7.438	0.000	96	984584	50.0	54.2	
86 Styrene	104	7.456	7.456	0.000	95	1665887	50.0	50.7	
87 Bromoform	173	7.625	7.625	0.000	96	400757	50.0	54.1	
88 Isopropylbenzene	105	7.778	7.778	0.000	95	2494145	50.0	54.4	
89 Cyclohexanone	55	7.861	7.861	0.000	89	1027793	1500.0	1696.6	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	702256	50.0	52.5	
92 Bromobenzene	156	8.078	8.078	0.000	93	629317	50.0	54.8	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	86	166501	50.0	52.2	
94 1,2,3-Trichloropropane	110	8.126	8.126	0.000	84	217431	50.0	55.1	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	677377	50.0	54.9	
96 2-Chlorotoluene	126	8.257	8.257	0.000	97	589741	50.0	53.4	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1926535	50.0	53.7	
98 4-Chlorotoluene	126	8.373	8.373	0.000	96	612899	50.0	54.6	

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	8.647	8.647	0.000	93	1677021	50.0	53.1	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	1902147	50.0	53.3	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	507629	50.0	53.3	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	1142226	50.0	55.1	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	2039356	50.0	53.8	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	96	1173082	50.0	52.5	
106 n-Butylbenzene	91	9.410	9.410	0.000	98	1776101	50.0	55.7	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	1113067	50.0	53.5	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	90	147907	50.0	54.2	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	561034	50.0	54.9	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	267494	50.0	52.8	
112 Naphthalene	128	11.270	11.270	0.000	97	1476256	50.0	56.2	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	503036	50.0	53.4	
S 115 1,2-Dichloroethene, Total	1				0		100.0	104.6	
S 116 1,3-Dichloropropene, Total	1				0		100.0	105.4	
S 117 Xylenes, Total	106				0		100.0	109.4	
S 119 Trihalomethanes, Total	1				0		200.0	216.9	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00107	Amount Added:	25.00	Units: uL	
MV-Gas B_00168	Amount Added:	10.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

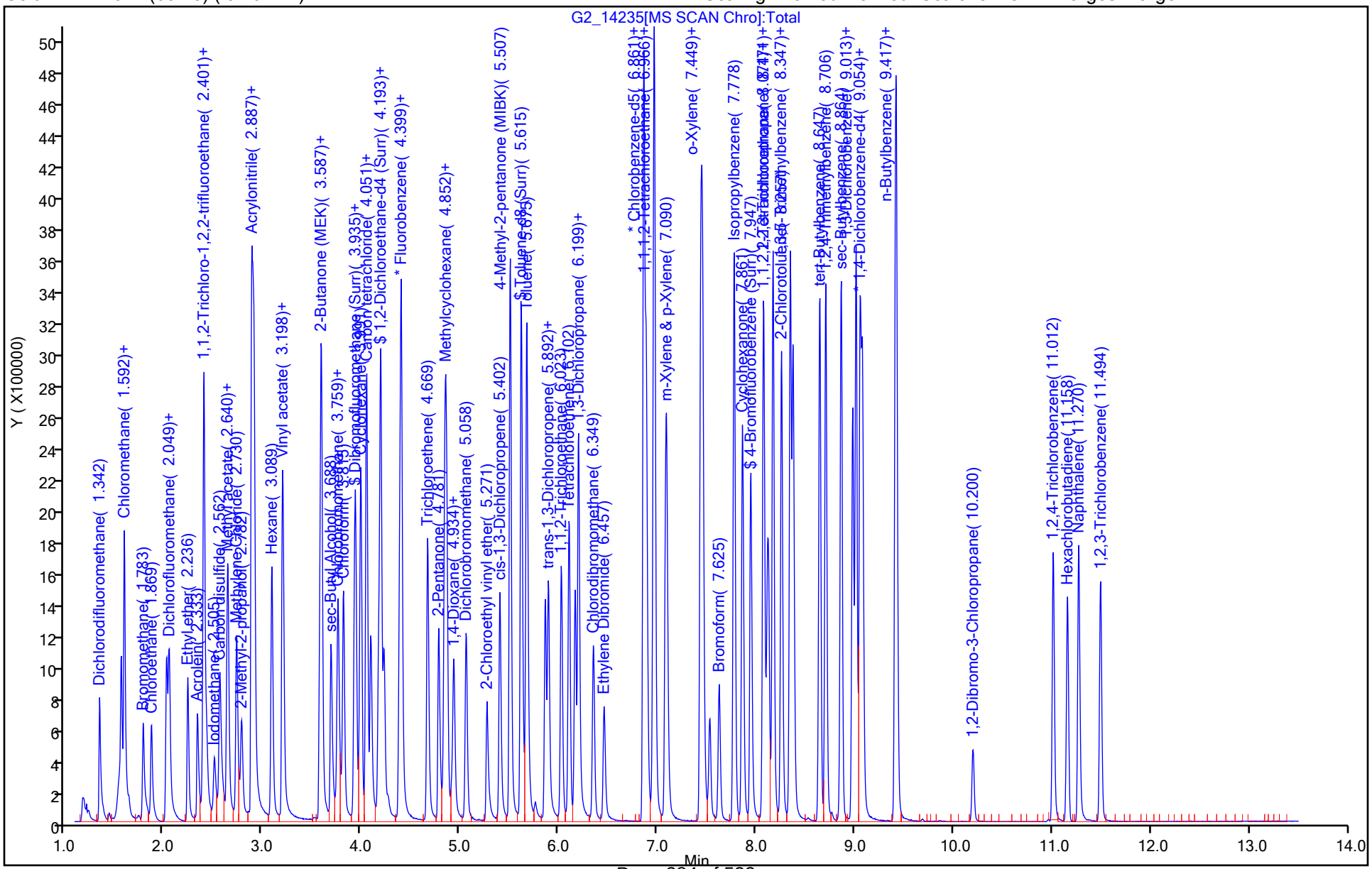
Report Date: 31-Jul-2024 11:07:41 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14235.D

Injection Date:	30-Jul-2024 13:43:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	ICIS			Worklist Smp#:	32
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14236.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Jul-2024 14:04:30 ALS Bottle#: 7 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:48 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 30-Jul-2024 14:25:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	2139447	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.861	6.861	0.000	85	531471	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.054	0.000	93	882241	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	528658	50.0	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	514751	50.0	48.4	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	92	2180397	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	91	755458	50.0	48.6	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	946516	75.0	80.5	
10 Chloromethane	50	1.551	1.551	0.000	98	917617	75.0	82.3	
11 Vinyl chloride	62	1.562	1.562	0.000	98	1029655	75.0	81.8	
12 Bromomethane	94	1.780	1.783	-0.003	89	494315	75.0	68.6	
13 Chloroethane	64	1.862	1.869	-0.007	99	698771	75.0	79.3	
14 Dichlorofluoromethane	67	2.019	2.023	-0.004	97	1462770	75.0	80.1	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	1115291	75.0	81.2	
18 Ethyl ether	59	2.236	2.236	0.000	89	577328	75.0	81.8	
19 Acrolein	56	2.333	2.333	0.000	100	850432	740.6	747.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.397	2.401	-0.004	94	526219	75.0	79.7	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	97	664595	75.0	79.2	
22 Acetone	43	2.427	2.427	0.000	99	769193	300.0	303.3	
23 Iodomethane	142	2.506	2.509	-0.003	98	859867	75.0	76.3	
25 Carbon disulfide	76	2.562	2.562	0.000	99	1996113	75.0	77.6	
26 Methyl acetate	43	2.633	2.633	0.000	96	971214	150.0	154.6	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	915964	75.0	76.9	
28 Methylene Chloride	84	2.730	2.734	-0.004	90	763115	75.0	77.4	
29 2-Methyl-2-propanol	59	2.786	2.782	0.004	100	849074	750.0	771.4	
30 Acrylonitrile	53	2.883	2.883	0.000	99	2881602	750.0	739.6	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	2250610	75.0	77.5	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	729314	75.0	78.5	
33 Hexane	57	3.089	3.089	0.000	89	958966	75.0	81.2	
35 Vinyl acetate	43	3.194	3.194	0.000	97	2179222	150.0	154.5	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	1294514	75.0	78.3	

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	3.572	3.572	0.000	98	1248922	300.0	289.1	
40 cis-1,2-Dichloroethene	96	3.591	3.587	0.004	82	829376	75.0	72.8	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	84	1025118	75.0	77.5	
44 sec-Butyl Alcohol	45	3.692	3.688	0.004	99	1567983	1800.0	1799.0	
46 Chlorobromomethane	128	3.755	3.755	0.000	94	364121	75.0	81.4	
47 Tetrahydrofuran	42	3.763	3.763	0.000	86	431651	150.0	150.5	
48 Chloroform	83	3.815	3.815	0.000	93	1254789	75.0	77.3	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	1090108	75.0	76.9	
50 Cyclohexane	56	3.991	3.991	0.000	87	1264681	75.0	78.9	
51 Carbon tetrachloride	117	4.047	4.047	0.000	98	967594	75.0	80.0	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	97	1001592	75.0	79.7	
53 Isobutyl alcohol	41	4.092	4.092	0.000	95	608148	1875.0	1881.0	
54 Benzene	78	4.193	4.193	0.000	95	3065556	75.0	78.4	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	903232	75.0	80.2	
57 n-Heptane	43	4.384	4.384	0.000	90	795366	75.0	80.2	
59 Trichloroethene	95	4.669	4.669	0.001	98	763438	75.0	79.3	
60 2-Pentanone	43	4.781	4.781	0.000	98	1748460	240.0	262.1	
61 Methylcyclohexane	55	4.844	4.844	0.000	90	908993	75.0	79.8	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	795141	75.0	79.8	
64 1,4-Dioxane	88	4.916	4.915	0.001	91	222749	1500.0	1539.3	
65 Dibromomethane	93	4.934	4.934	0.000	97	468817	75.0	78.5	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	988407	75.0	78.5	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	91	509316	75.0	79.0	
69 cis-1,3-Dichloropropene	75	5.398	5.402	-0.004	97	1171642	75.0	79.9	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	94	2932665	300.0	308.7	
71 Toluene	91	5.675	5.675	0.000	98	3330800	75.0	78.6	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	92	1128267	75.0	72.7	
73 Ethyl methacrylate	69	5.892	5.896	-0.004	87	1061685	75.0	75.2	
74 1,1,2-Trichloroethane	97	6.023	6.023	0.000	91	706728	75.0	77.5	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	616187	75.0	78.0	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	87	1217046	75.0	78.8	
77 2-Hexanone	43	6.199	6.199	0.000	93	2090314	300.0	316.9	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	802787	75.0	77.3	
79 Ethylene Dibromide	107	6.457	6.457	0.000	98	718793	75.0	80.2	
80 1-Chlorohexane	91	6.861	6.861	0.000	93	893368	60.0	60.5	
81 Chlorobenzene	112	6.888	6.888	0.000	96	2173733	75.0	78.0	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	97	779748	75.0	77.7	
83 Ethylbenzene	106	6.970	6.970	0.000	98	1197750	75.0	80.4	
84 m-Xylene & p-Xylene	106	7.090	7.090	0.000	100	1423714	75.0	81.9	
85 o-Xylene	106	7.438	7.438	0.000	96	1429544	75.0	79.9	
86 Styrene	104	7.457	7.456	0.000	95	2427574	75.0	74.8	
87 Bromoform	173	7.625	7.625	0.000	97	580493	75.0	79.7	
88 Isopropylbenzene	105	7.778	7.778	0.000	95	3619642	75.0	78.7	
89 Cyclohexanone	55	7.861	7.861	0.000	89	1506509	2250.0	2526.2	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	992107	75.0	74.0	
92 Bromobenzene	156	8.078	8.078	0.000	92	911542	75.0	79.2	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	86	241279	75.0	74.9	
94 1,2,3-Trichloropropane	110	8.123	8.126	-0.003	83	311644	75.0	78.7	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	981214	75.0	79.4	
96 2-Chlorotoluene	126	8.257	8.257	0.000	97	854895	75.0	77.2	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	2811043	75.0	78.1	
98 4-Chlorotoluene	126	8.373	8.373	0.000	96	883864	75.0	78.6	

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	8.647	8.647	0.001	92	2445821	75.0	77.2	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	2776934	75.0	77.5	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	751103	75.0	78.7	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	1666525	75.0	80.2	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	2946916	75.0	77.6	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	1728771	75.0	77.1	
106 n-Butylbenzene	91	9.414	9.410	0.004	98	2587374	75.0	81.0	
107 1,2-Dichlorobenzene	146	9.421	9.425	-0.004	98	1649522	75.0	79.0	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	89	215336	75.0	78.7	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	93	859234	75.0	83.8	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	397176	75.0	78.2	
112 Naphthalene	128	11.270	11.270	0.000	97	2213502	75.0	84.0	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	763953	75.0	80.8	
S 115 1,2-Dichloroethene, Total	1				0		150.0	151.3	
S 116 1,3-Dichloropropene, Total	1				0		150.0	152.6	
S 117 Xylenes, Total	106				0		150.0	161.8	
S 118 Total BTEX	1				0			399.2	
S 119 Trihalomethanes, Total	1				0		300.0	312.7	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00107	Amount Added:	37.50	Units: uL	
MV-Gas B_00168	Amount Added:	15.00	Units: uL	
mv-IS_SS_00084	Amount Added:	5.00	Units: uL	Run Reagent

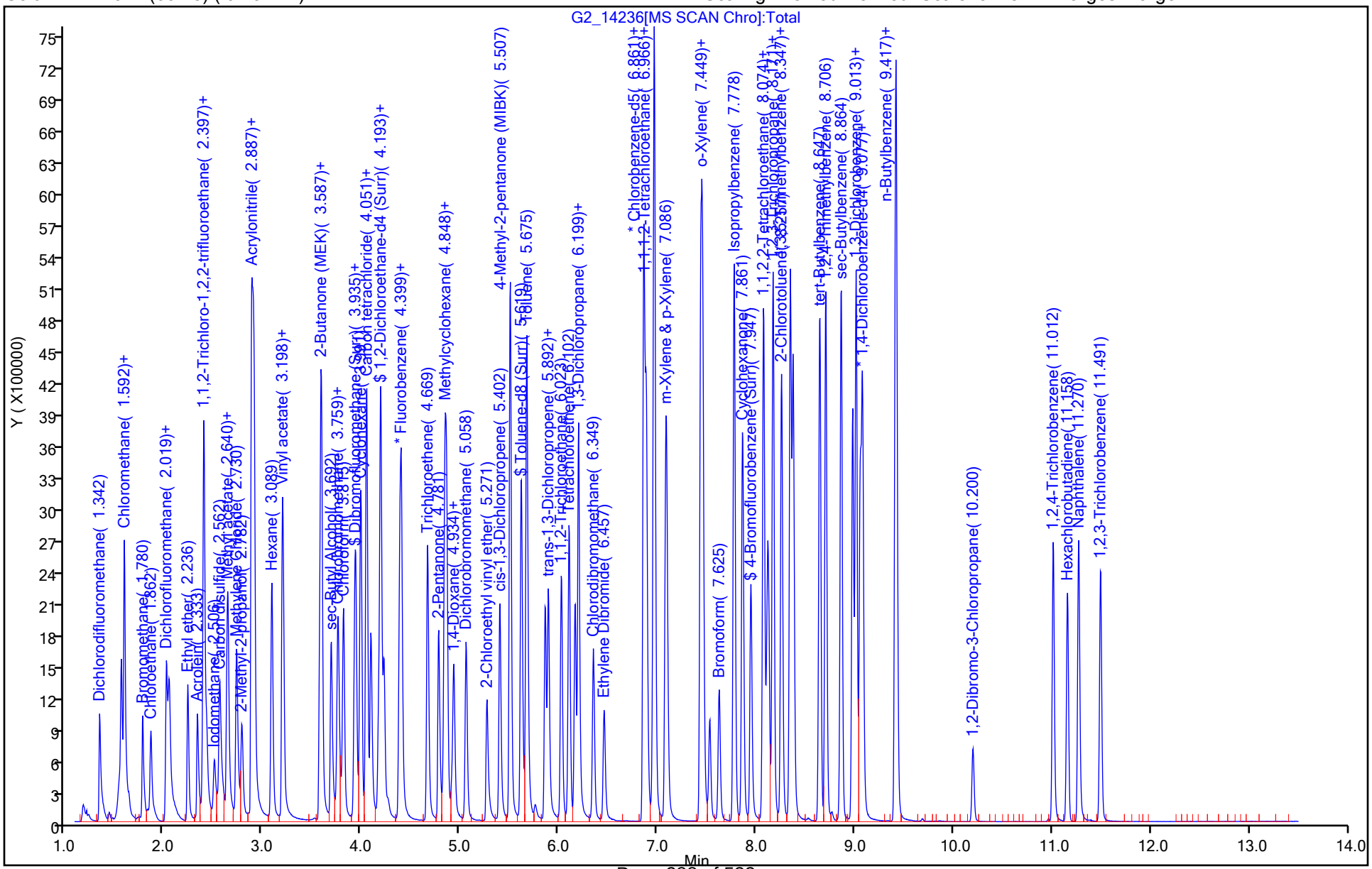
Report Date: 31-Jul-2024 11:07:48 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14236.D

Injection Date:	30-Jul-2024 14:04:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD75			Worklist Smp#:	33
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14237.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 30-Jul-2024 14:25:30 ALS Bottle#: 8 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:07:55 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 17:56:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	2300786	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.861	-0.003	85	572904	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.054	0.001	93	938552	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	583677	50.0	50.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	566125	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	2325046	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	91	807275	50.0	48.8	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	1236421	100.0	97.6	
10 Chloromethane	50	1.551	1.551	0.000	98	1222904	100.0	102.0	
11 Vinyl chloride	62	1.563	1.562	0.001	97	1373049	100.0	101.4	
12 Bromomethane	94	1.780	1.783	-0.003	89	832079	100.0	107.4	M
13 Chloroethane	64	1.866	1.869	-0.003	99	924375	100.0	97.6	
14 Dichlorofluoromethane	67	2.019	2.023	-0.004	98	1962832	100.0	99.9	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	99	1484392	100.0	100.5	
18 Ethyl ether	59	2.236	2.236	0.000	89	862275	100.0	113.6	
19 Acrolein	56	2.334	2.333	0.001	99	1250758	987.5	1017.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.397	2.401	-0.004	94	763061	100.0	107.5	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	977681	100.0	108.3	
22 Acetone	43	2.427	2.427	0.000	99	1129006	400.0	414.1	
23 Iodomethane	142	2.506	2.509	-0.003	98	1268259	100.0	103.4	
25 Carbon disulfide	76	2.562	2.562	0.000	99	2867012	100.0	103.7	
26 Methyl acetate	43	2.629	2.633	-0.004	97	1354748	200.0	199.9	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	1280837	100.0	99.9	
28 Methylene Chloride	84	2.730	2.734	-0.004	90	1105028	100.0	104.2	
29 2-Methyl-2-propanol	59	2.783	2.782	0.001	100	1275110	1000.0	1075.8	
30 Acrylonitrile	53	2.880	2.883	-0.003	99	4304278	1000.0	1021.3	
31 Methyl tert-butyl ether	73	2.899	2.898	0.001	93	3346879	100.0	107.2	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	1080690	100.0	108.1	
33 Hexane	57	3.089	3.089	0.000	89	1353226	100.0	106.3	
35 Vinyl acetate	43	3.191	3.194	-0.004	97	3263662	200.0	214.9	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	1900201	100.0	106.9	

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	3.572	3.572	0.000	98	1911686	400.0	409.6	
40 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	82	1212781	100.0	98.8	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	74	1493505	100.0	105.0	
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	2333144	2400.0	2471.7	
46 Chlorobromomethane	128	3.756	3.755	0.001	94	523675	100.0	108.8	
47 Tetrahydrofuran	42	3.763	3.763	0.000	85	632610	200.0	204.2	
48 Chloroform	83	3.815	3.815	0.000	93	1848546	100.0	105.9	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	1597048	100.0	104.7	
50 Cyclohexane	56	3.991	3.991	0.000	87	1816221	100.0	105.3	
51 Carbon tetrachloride	117	4.047	4.047	0.000	92	1414200	100.0	108.7	
52 1,1-Dichloropropene	75	4.047	4.051	-0.004	97	1480877	100.0	109.6	
53 Isobutyl alcohol	41	4.092	4.092	0.000	95	885094	2500.0	2532.0	
54 Benzene	78	4.193	4.193	0.000	96	4496880	100.0	107.0	
55 1,2-Dichloroethane	62	4.223	4.227	-0.004	97	1263650	100.0	104.3	
57 n-Heptane	43	4.384	4.384	0.000	88	1120345	100.0	105.1	
59 Trichloroethene	95	4.669	4.669	0.001	98	1138960	100.0	109.8	
60 2-Pentanone	43	4.777	4.781	-0.004	98	2436989	320.0	339.3	
61 Methylcyclohexane	55	4.845	4.844	0.001	90	1305716	100.0	106.6	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	1163630	100.0	108.6	
64 1,4-Dioxane	88	4.916	4.915	0.001	91	313423	2000.0	2008.2	
65 Dibromomethane	93	4.934	4.934	0.000	97	695271	100.0	108.2	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	1465892	100.0	108.2	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	91	699267	100.0	100.4	
69 cis-1,3-Dichloropropene	75	5.398	5.402	-0.004	97	1744342	100.0	110.3	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	94	4312954	400.0	421.5	
71 Toluene	91	5.672	5.675	-0.003	98	4829443	100.0	106.0	
72 trans-1,3-Dichloropropene	75	5.859	5.862	-0.003	90	1697728	100.0	101.5	
73 Ethyl methacrylate	69	5.892	5.896	-0.004	86	1592877	100.0	104.3	
74 1,1,2-Trichloroethane	97	6.023	6.023	0.000	90	1041962	100.0	106.3	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	899543	100.0	105.7	
76 1,3-Dichloropropane	76	6.166	6.165	0.001	86	1808582	100.0	108.6	
77 2-Hexanone	43	6.199	6.199	0.000	93	3029585	400.0	425.1	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	1199886	100.0	107.2	
79 Ethylene Dibromide	107	6.457	6.457	0.000	98	1061701	100.0	109.8	
80 1-Chlorohexane	91	6.862	6.861	0.001	93	1293153	80.0	81.3	
81 Chlorobenzene	112	6.884	6.888	-0.004	96	3183211	100.0	105.9	
82 1,1,1,2-Tetrachloroethane	131	6.963	6.959	0.004	97	1170392	100.0	108.2	
83 Ethylbenzene	106	6.966	6.970	-0.004	98	1769234	100.0	110.2	
84 m-Xylene & p-Xylene	106	7.086	7.090	-0.004	99	2008801	100.0	107.2	
85 o-Xylene	106	7.438	7.438	0.000	96	2067822	100.0	107.2	
86 Styrene	104	7.457	7.456	0.001	95	3545700	100.0	101.2	
87 Bromoform	173	7.621	7.625	-0.004	97	852851	100.0	108.6	
88 Isopropylbenzene	105	7.775	7.778	-0.003	95	5192655	100.0	106.1	
89 Cyclohexanone	55	7.861	7.861	0.000	89	2136226	3000.0	3323.1	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	1461901	100.0	102.4	
92 Bromobenzene	156	8.078	8.078	0.000	92	1336274	100.0	109.2	
93 trans-1,4-Dichloro-2-butene	53	8.112	8.111	0.001	86	356669	100.0	103.6	
94 1,2,3-Trichloropropane	110	8.127	8.126	0.001	84	449601	100.0	106.7	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	1423975	100.0	108.3	
96 2-Chlorotoluene	126	8.258	8.257	0.001	97	1247091	100.0	105.9	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	4048083	100.0	105.7	
98 4-Chlorotoluene	126	8.374	8.373	0.001	96	1285446	100.0	107.4	

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	8.647	8.647	0.001	93	3505549	100.0	104.1	
100 1,2,4-Trimethylbenzene	105	8.707	8.706	0.001	97	4018518	100.0	105.5	
101 sec-Butylbenzene	134	8.860	8.864	-0.004	94	1086864	100.0	107.1	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	2427931	100.0	109.9	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	4234599	100.0	104.8	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	2503820	100.0	105.0	
106 n-Butylbenzene	91	9.414	9.410	0.004	97	3708954	100.0	109.1	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	2375301	100.0	107.0	
108 1,2-Dibromo-3-Chloropropane	157	10.196	10.200	-0.004	90	315146	100.0	108.2	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	1229774	100.0	112.8	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	567734	100.0	105.0	
112 Naphthalene	128	11.270	11.270	0.000	97	3154406	100.0	112.6	
113 1,2,3-Trichlorobenzene	180	11.491	11.494	-0.003	95	1107643	100.0	110.1	
S 115 1,2-Dichloroethene, Total	1				0		200.0	206.9	
S 116 1,3-Dichloropropene, Total	1				0		200.0	211.8	
S 117 Xylenes, Total	106				0		200.0	214.4	
S 118 Total BTEX	1				0			537.5	
S 119 Trihalomethanes, Total	1				0		400.0	429.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MV-MegaMain B_00107	Amount Added: 50.00	Units: uL	
MV-Gas B_00168	Amount Added: 20.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

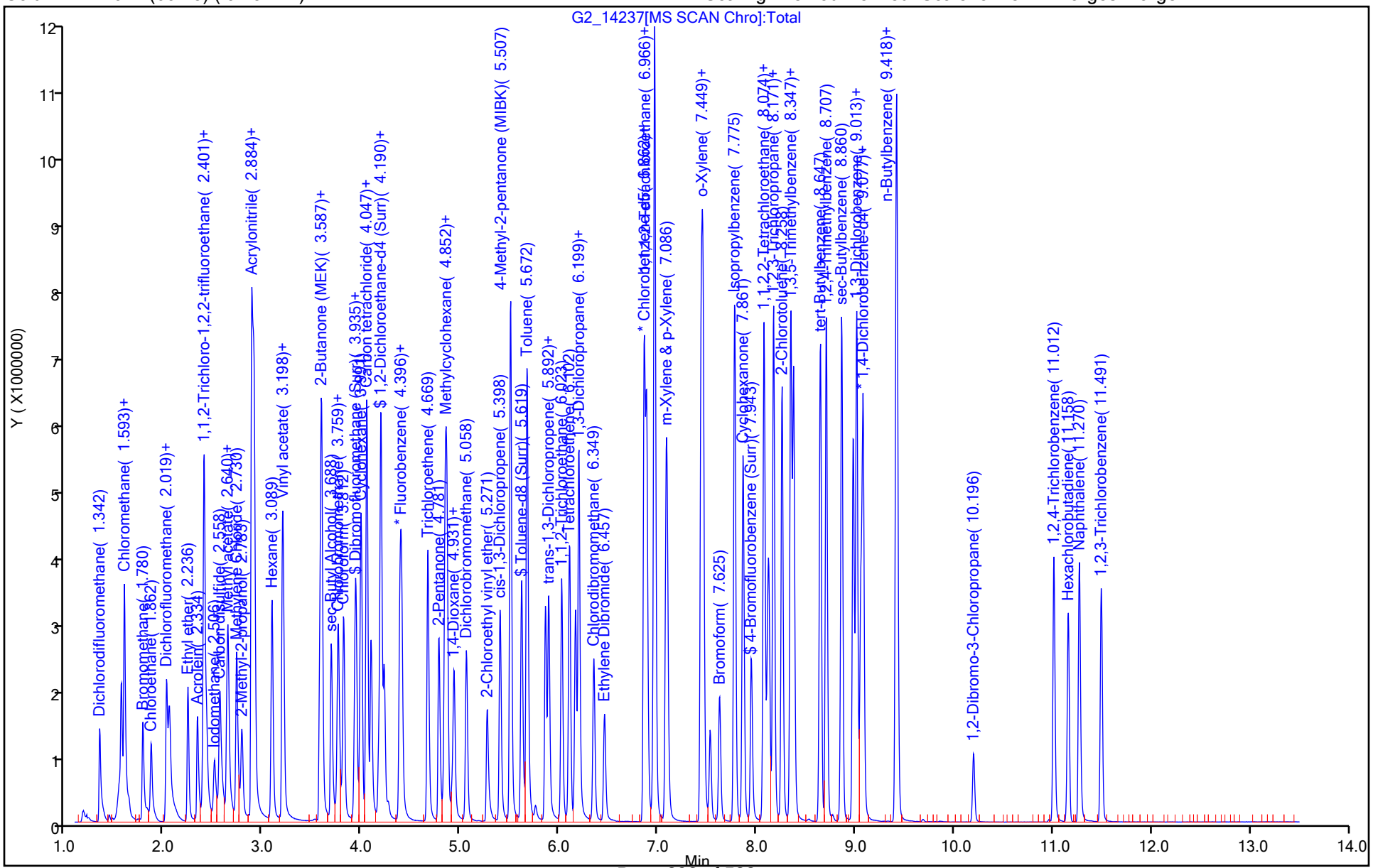
Report Date: 31-Jul-2024 11:07:56 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14237.D

Injection Date:	30-Jul-2024 14:25:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD100			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

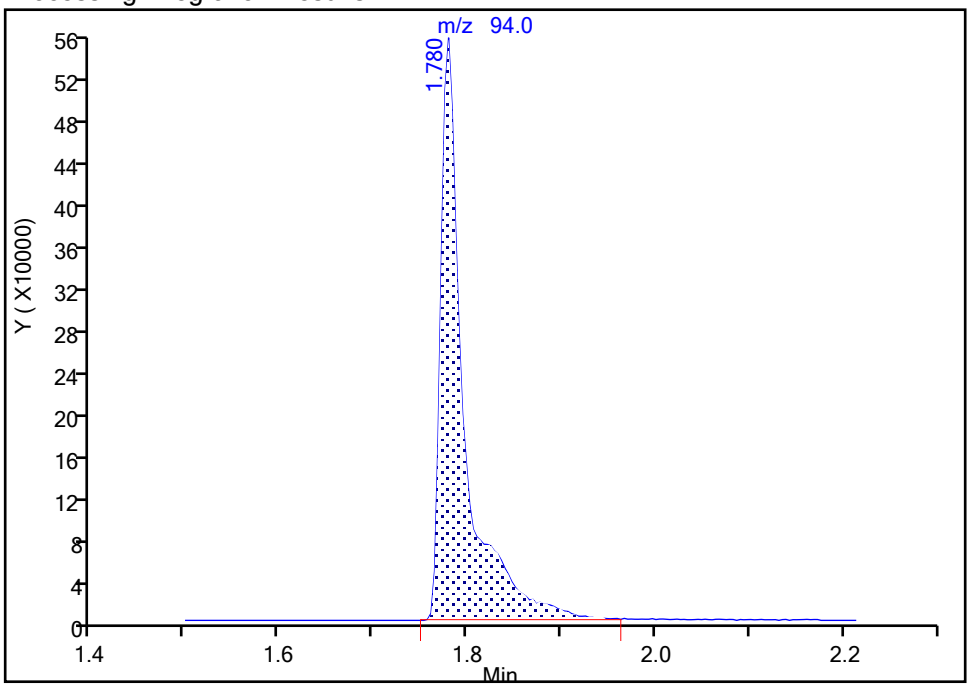
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Injection Date: 30-Jul-2024 14:25:30 Instrument ID: VMS_G2
Lims ID: STD100
Client ID:
Operator ID: COULTER ALS Bottle#: 8 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 1

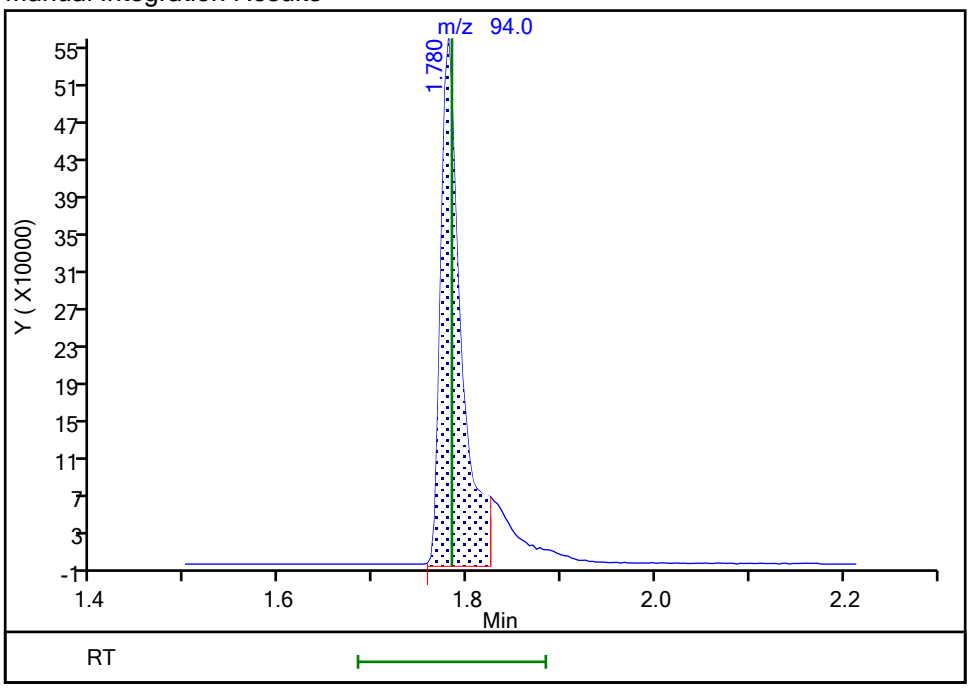
Processing Integration Results

RT: 1.78
Area: 969327
Amount: 120.8494
Amount Units: ug/l



Manual Integration Results

RT: 1.78
Area: 832079
Amount: 107.4141
Amount Units: ug/l



Reviewer: BMJ3, 31-Jul-2024 11:05:03 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14238.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 30-Jul-2024 14:46:30 ALS Bottle#: 9 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:08:02 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 17:57:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	2440449	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.861	0.001	86	630295	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.058	9.054	0.004	93	1002143	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	618275	50.0	50.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	97	592937	50.0	48.9	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	2434970	50.0	46.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.947	0.000	91	838298	50.0	47.5	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	2578877	200.0	191.6	
10 Chloromethane	50	1.544	1.551	-0.007	98	2548955	200.0	200.4	
11 Vinyl chloride	62	1.559	1.562	-0.003	99	2832113	200.0	197.3	
12 Bromomethane	94	1.783	1.783	0.000	90	991208	200.0	120.6	
13 Chloroethane	64	1.854	1.869	-0.015	99	1941596	200.0	193.3	
14 Dichlorofluoromethane	67	2.015	2.023	-0.008	97	4051776	200.0	194.5	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	97	3091391	200.0	197.3	
18 Ethyl ether	59	2.236	2.236	0.000	89	1821417	200.0	226.3	
19 Acrolein	56	2.330	2.333	-0.003	100	2583864	1975.0	1966.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.397	2.401	-0.004	94	1673669	200.0	222.3	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	97	2100593	200.0	219.3	
22 Acetone	43	2.423	2.427	-0.004	99	2266713	800.0	784.2	
23 Iodomethane	142	2.502	2.509	-0.007	98	2805466	200.0	212.3	
25 Carbon disulfide	76	2.558	2.562	-0.004	98	6042512	200.0	206.1	
26 Methyl acetate	43	2.629	2.633	-0.004	97	2911735	400.0	402.8	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	2366053	200.0	174.1	
28 Methylene Chloride	84	2.726	2.734	-0.008	89	2327768	200.0	206.9	
29 2-Methyl-2-propanol	59	2.786	2.782	0.004	100	2533207	2000.0	2011.7	
30 Acrylonitrile	53	2.880	2.883	-0.003	98	9003258	2000.0	1998.9	
31 Methyl tert-butyl ether	73	2.899	2.898	0.000	94	7121573	200.0	215.1	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	2397577	200.0	226.1	
33 Hexane	57	3.089	3.089	0.000	88	2936760	200.0	209.7	
35 Vinyl acetate	43	3.190	3.194	-0.004	97	5914445	400.0	366.5	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	4020897	200.0	213.3	

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	3.572	3.572	0.000	98	4013012	800.0	806.5	
40 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	82	2669539	200.0	204.5	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	85	3229344	200.0	214.0	
44 sec-Butyl Alcohol	45	3.692	3.688	0.004	99	4810408	4800.0	4761.3	
46 Chlorobromomethane	128	3.755	3.755	0.000	94	1092396	200.0	214.0	
47 Tetrahydrofuran	42	3.763	3.763	0.000	85	1302747	400.0	394.3	
48 Chloroform	83	3.815	3.815	0.000	94	3880674	200.0	209.5	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	3420530	200.0	211.5	
50 Cyclohexane	56	3.991	3.991	0.000	87	3894620	200.0	212.9	
51 Carbon tetrachloride	117	4.047	4.047	0.000	91	3121316	200.0	226.1	
52 1,1-Dichloropropene	75	4.047	4.051	-0.004	97	3256863	200.0	227.2	
53 Isobutyl alcohol	41	4.096	4.092	0.004	95	1860388	5000.0	4979.6	
54 Benzene	78	4.193	4.193	0.000	96	9348555	200.0	209.6	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	2763122	200.0	215.0	
57 n-Heptane	43	4.384	4.384	0.000	88	2415085	200.0	213.5	
59 Trichloroethene	95	4.669	4.669	0.001	98	2473893	200.0	216.7	
60 2-Pentanone	43	4.781	4.781	0.000	98	4962947	640.0	650.2	
61 Methylcyclohexane	55	4.844	4.844	0.000	90	2842467	200.0	218.8	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	2494015	200.0	219.4	
64 1,4-Dioxane	88	4.916	4.915	0.001	91	665189	4000.0	3999.1	
65 Dibromomethane	93	4.931	4.934	-0.003	97	1493945	200.0	219.2	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	3100422	200.0	215.8	
68 2-Chloroethyl vinyl ether	63	5.267	5.271	-0.004	91	1463674	200.0	196.9	
69 cis-1,3-Dichloropropene	75	5.398	5.402	-0.004	98	3704035	200.0	213.0	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	93	8666210	800.0	797.0	
71 Toluene	91	5.672	5.675	-0.003	99	10046525	200.0	207.8	
72 trans-1,3-Dichloropropene	75	5.859	5.862	-0.003	91	3602549	200.0	202.4	
73 Ethyl methacrylate	69	5.892	5.896	-0.004	85	3339817	200.0	197.8	
74 1,1,2-Trichloroethane	97	6.023	6.023	0.000	90	2197551	200.0	211.3	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	1999298	200.0	213.4	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	87	3771918	200.0	205.9	
77 2-Hexanone	43	6.199	6.199	0.000	92	6157627	800.0	783.1	
78 Chlorodibromomethane	129	6.349	6.349	0.000	92	2580739	200.0	209.5	
79 Ethylene Dibromide	107	6.457	6.457	0.000	99	2252900	200.0	211.9	
80 1-Chlorohexane	91	6.862	6.861	0.001	93	2818922	160.0	161.1	
81 Chlorobenzene	112	6.884	6.888	-0.004	95	6741059	200.0	203.8	
82 1,1,1,2-Tetrachloroethane	131	6.963	6.959	0.004	98	2612841	200.0	219.5	
83 Ethylbenzene	106	6.970	6.970	0.000	97	3971490	200.0	224.8	
84 m-Xylene & p-Xylene	106	7.086	7.090	-0.004	99	4410666	200.0	213.9	
85 o-Xylene	106	7.438	7.438	0.000	95	4537823	200.0	213.9	
86 Styrene	104	7.457	7.456	0.001	94	7713232	200.0	199.6	
87 Bromoform	173	7.625	7.625	0.000	97	1831578	200.0	211.9	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	10844274	200.0	207.5	
89 Cyclohexanone	55	7.864	7.861	0.003	88	4308218	6000.0	6091.6	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	3035881	200.0	199.2	
92 Bromobenzene	156	8.078	8.078	0.000	91	2942990	200.0	225.2	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	87	752185	200.0	203.5	
94 1,2,3-Trichloropropane	110	8.126	8.126	0.000	84	942322	200.0	209.5	
95 N-Propylbenzene	120	8.171	8.171	0.000	98	3132487	200.0	223.0	
96 2-Chlorotoluene	126	8.257	8.257	0.000	97	2700474	200.0	214.8	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	95	8721491	200.0	213.3	
98 4-Chlorotoluene	126	8.373	8.373	0.000	96	2828269	200.0	221.4	

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	8.647	8.647	0.001	93	7516340	200.0	208.9	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	8607791	200.0	211.6	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	2368048	200.0	218.5	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	5311915	200.0	225.1	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	96	9089496	200.0	210.6	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	5457636	200.0	214.3	
106 n-Butylbenzene	91	9.414	9.410	0.004	97	8124443	200.0	223.9	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	5279110	200.0	222.7	
108 1,2-Dibromo-3-Chloropropane	157	10.196	10.200	-0.004	90	647013	200.0	208.1	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	2705703	200.0	232.4	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	1226568	200.0	212.5	
112 Naphthalene	128	11.270	11.270	0.000	97	6714142	200.0	224.4	
113 1,2,3-Trichlorobenzene	180	11.491	11.494	-0.003	95	2401764	200.0	223.7	
S 115 1,2-Dichloroethene, Total	1				0		400.0	430.6	
S 116 1,3-Dichloropropene, Total	1				0		400.0	415.4	
S 117 Xylenes, Total	106				0		400.0	427.8	
S 118 Total BTEX	1				0			1070.0	
S 119 Trihalomethanes, Total	1				0		800.0	846.7	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00107	Amount Added: 100.00	Units: uL	
MV-Gas B_00168	Amount Added: 40.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

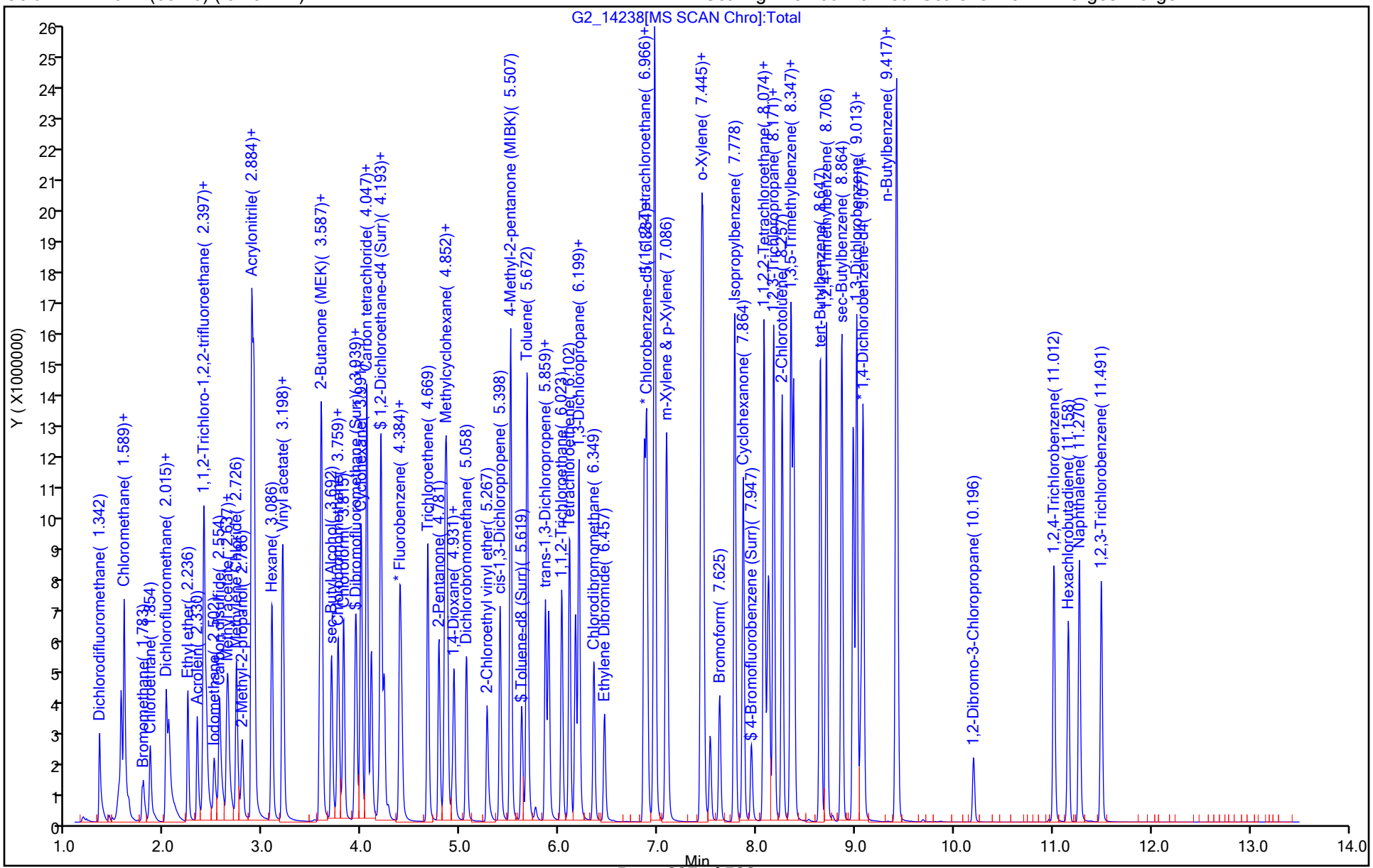
Report Date: 31-Jul-2024 11:08:03 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14238.D

Injection Date:	30-Jul-2024 14:46:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD200			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	AQ_VMSG2_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 / Dichlorodifluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

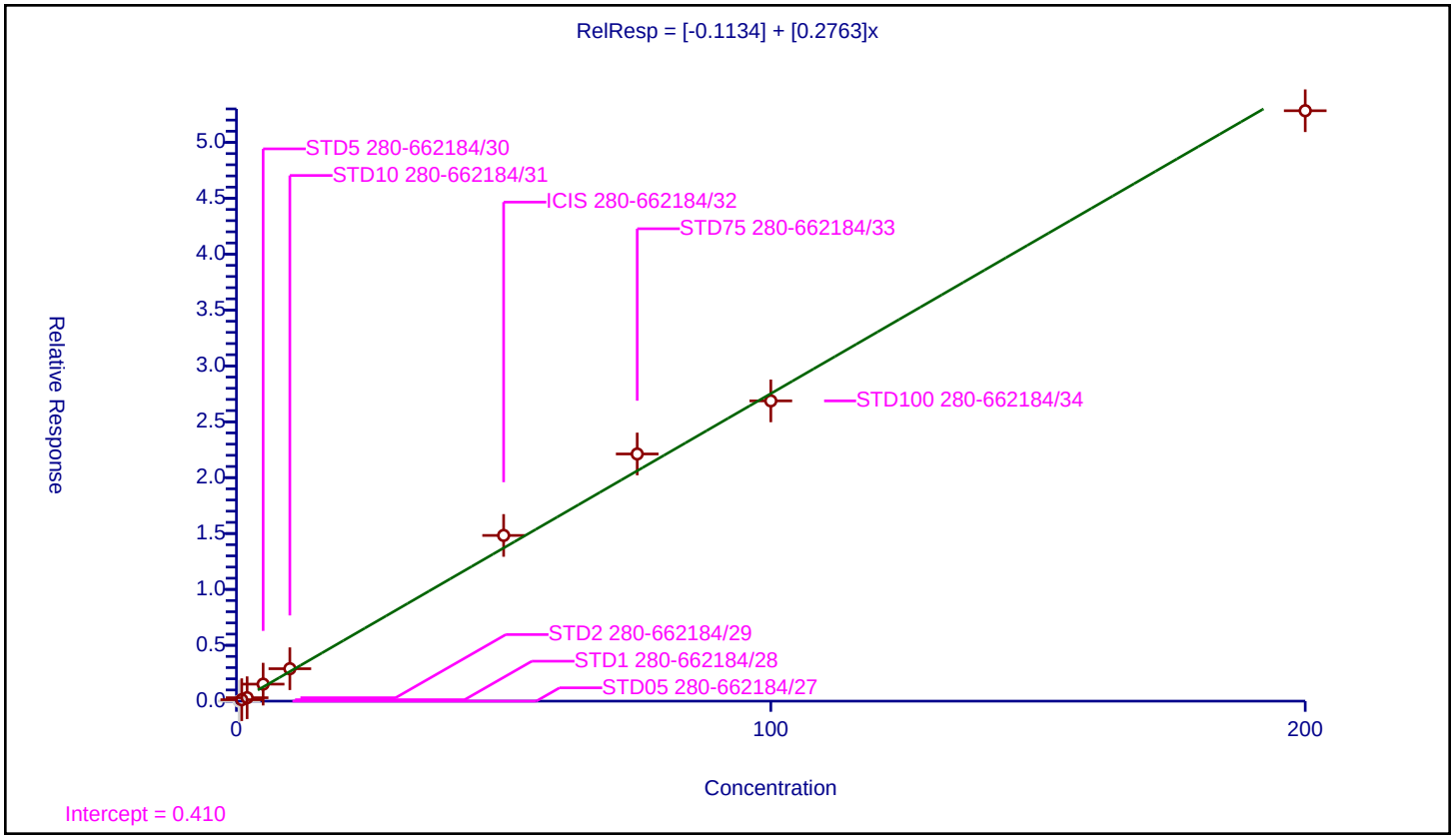
Curve Coefficients

Intercept:	-0.1134
Slope:	0.2763

Error Coefficients

Relative Standard Deviation:	14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.129004	50.0	2111172.0	0.129004	Y
3	STD2 280-662184/29	2.0	0.306831	50.0	2039562.0	0.153415	Y
4	STD5 280-662184/30	5.0	1.520697	50.0	2083715.0	0.304139	Y
5	STD10 280-662184/31	10.0	2.902865	50.0	2066114.0	0.290286	Y
6	ICIS 280-662184/32	50.0	14.827705	50.0	2185490.0	0.296554	Y
7	STD75 280-662184/33	75.0	22.120576	50.0	2139447.0	0.294941	Y
8	STD100 280-662184/34	100.0	26.869535	50.0	2300786.0	0.268695	Y
9	STD200 280-662184/35	200.0	52.836117	50.0	2440449.0	0.264181	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

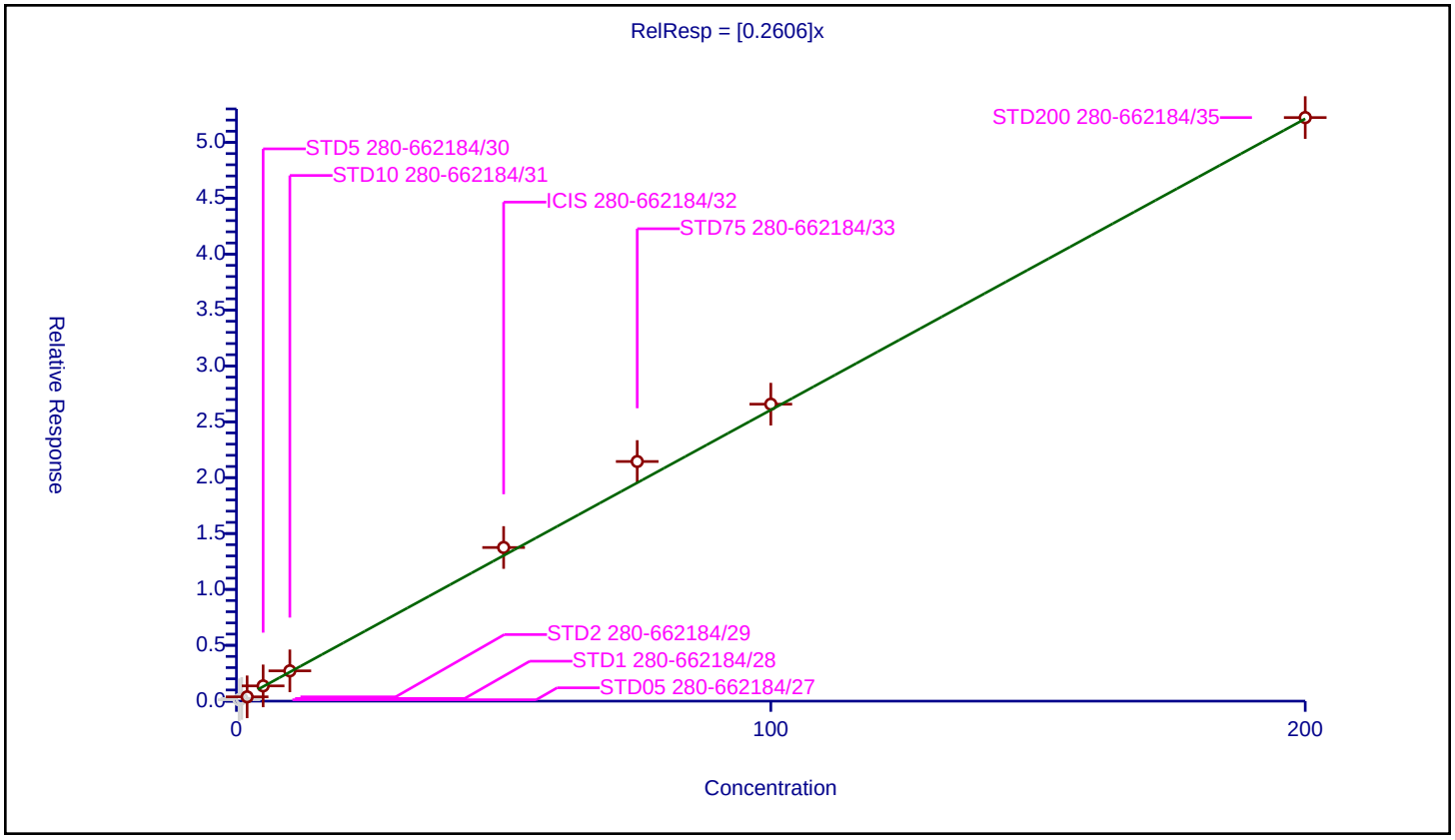
Curve Coefficients

Intercept:	0
Slope:	0.2606

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.126075	50.0	2118979.0	0.25215	N
2	STD1 280-662184/28	1.0	0.235983	50.0	2111172.0	0.235983	N
3	STD2 280-662184/29	2.0	0.384053	50.0	2039562.0	0.192027	Y
4	STD5 280-662184/30	5.0	1.365038	50.0	2083715.0	0.273008	Y
5	STD10 280-662184/31	10.0	2.712072	50.0	2066114.0	0.271207	Y
6	ICIS 280-662184/32	50.0	13.749045	50.0	2185490.0	0.274981	Y
7	STD75 280-662184/33	75.0	21.445191	50.0	2139447.0	0.285936	Y
8	STD100 280-662184/34	100.0	26.575788	50.0	2300786.0	0.265758	Y
9	STD200 280-662184/35	200.0	52.223075	50.0	2440449.0	0.261115	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

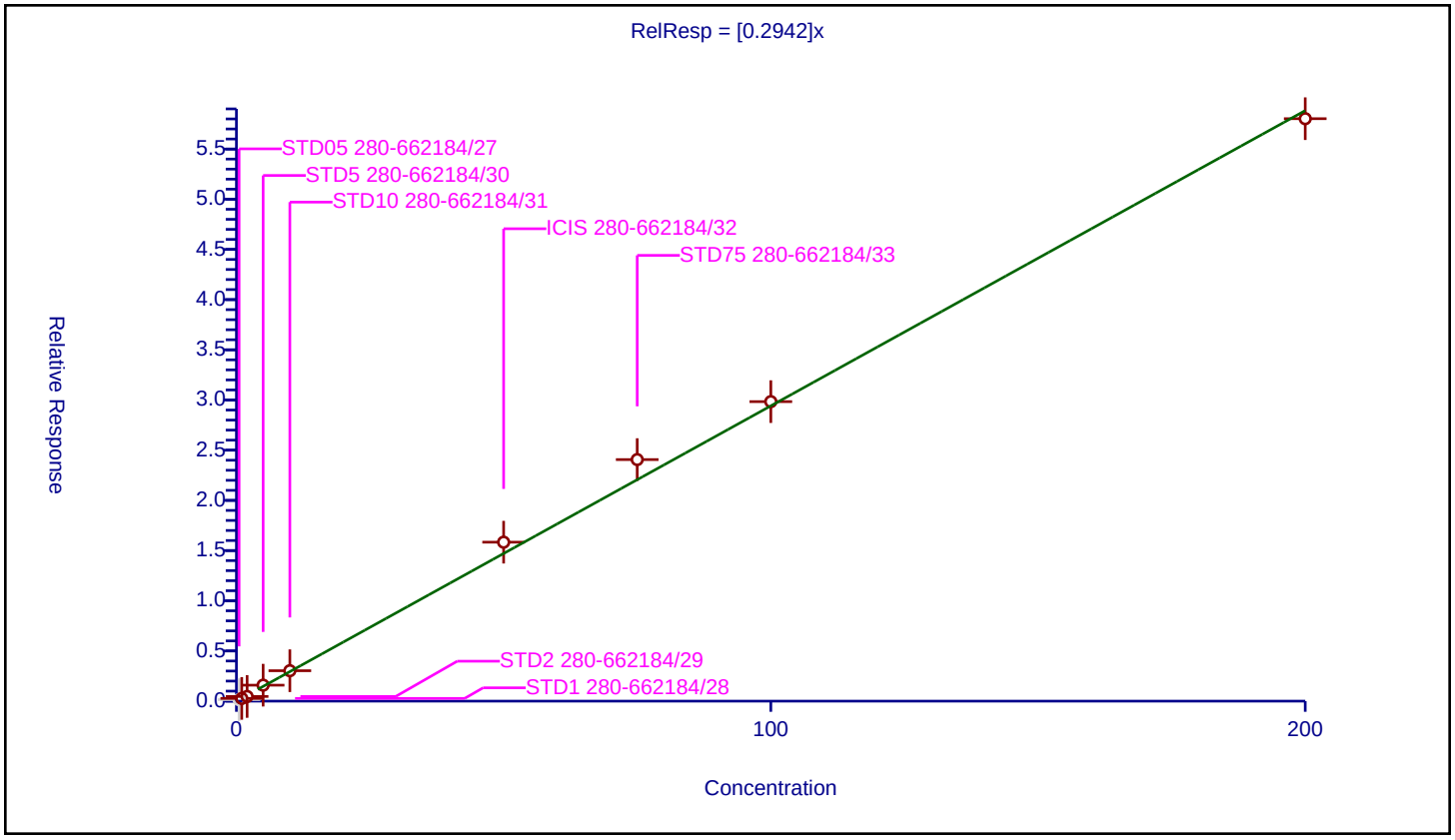
Curve Coefficients

Intercept:	0
Slope:	0.2942

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.150568	50.0	2118979.0	0.301136	N
2	STD1 280-662184/28	1.0	0.273166	50.0	2111172.0	0.273166	Y
3	STD2 280-662184/29	2.0	0.465198	50.0	2039562.0	0.232599	Y
4	STD5 280-662184/30	5.0	1.591244	50.0	2083715.0	0.318249	Y
5	STD10 280-662184/31	10.0	3.031294	50.0	2066114.0	0.303129	Y
6	ICIS 280-662184/32	50.0	15.835007	50.0	2185490.0	0.3167	Y
7	STD75 280-662184/33	75.0	24.063578	50.0	2139447.0	0.320848	Y
8	STD100 280-662184/34	100.0	29.838694	50.0	2300786.0	0.298387	Y
9	STD200 280-662184/35	200.0	58.024425	50.0	2440449.0	0.290122	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

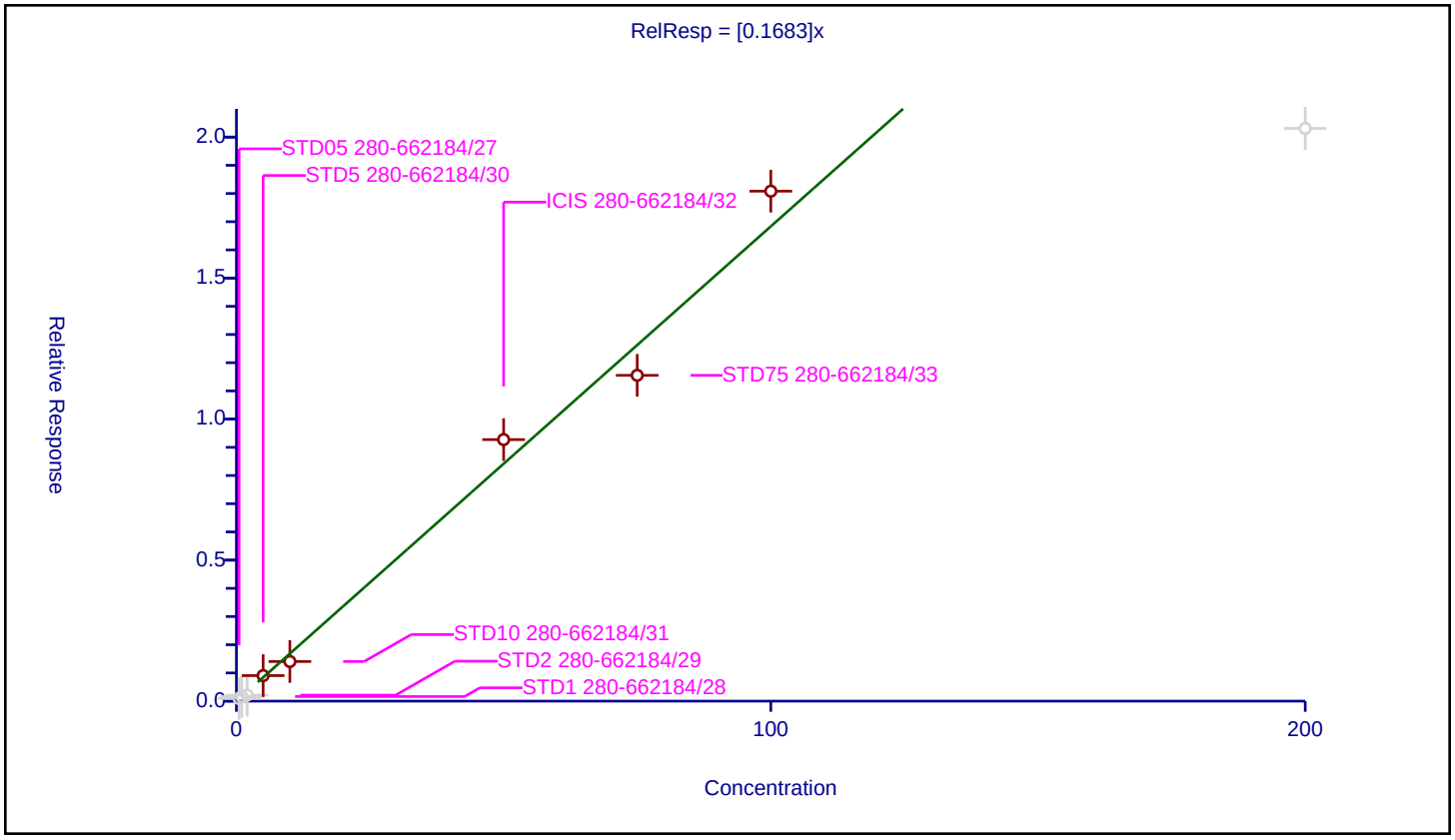
Curve Coefficients

Intercept:	0
Slope:	0.1683

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.093559	50.0	2118979.0	0.187118	N
2	STD1 280-662184/28	1.0	0.163274	50.0	2111172.0	0.163274	N
3	STD2 280-662184/29	2.0	0.212644	50.0	2039562.0	0.106322	N
4	STD5 280-662184/30	5.0	0.904802	50.0	2083715.0	0.18096	Y
5	STD10 280-662184/31	10.0	1.404351	50.0	2066114.0	0.140435	Y
6	ICIS 280-662184/32	50.0	9.273298	50.0	2185490.0	0.185466	Y
7	STD75 280-662184/33	75.0	11.552401	50.0	2139447.0	0.154032	Y
8	STD100 280-662184/34	100.0	18.082494	50.0	2300786.0	0.180825	Y
9	STD200 280-662184/35	200.0	20.307902	50.0	2440449.0	0.10154	N



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

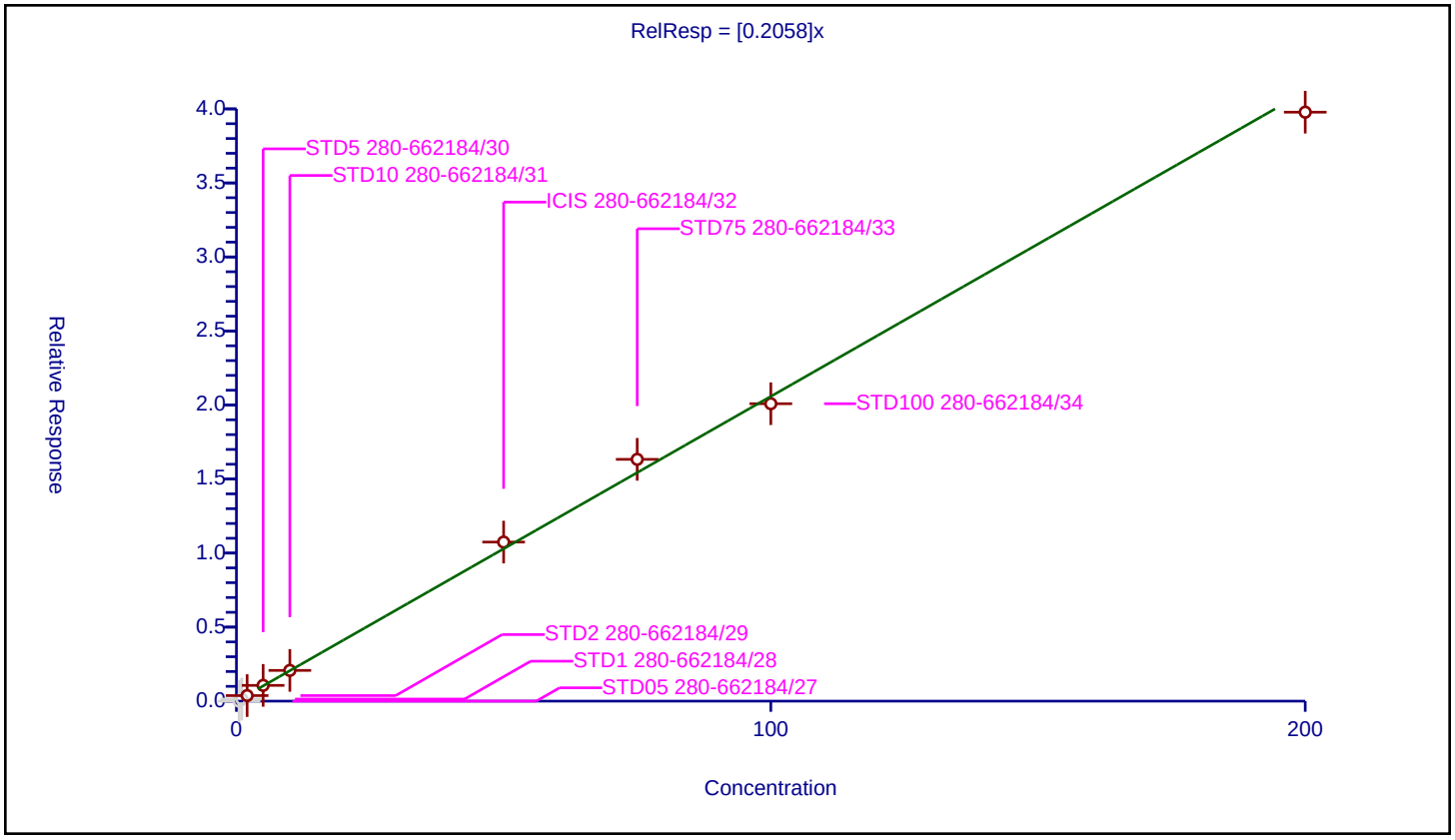
Curve Coefficients

Intercept:	0
Slope:	0.2058

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.142077	50.0	2111172.0	0.142077	N
3	STD2 280-662184/29	2.0	0.375595	50.0	2039562.0	0.187798	Y
4	STD5 280-662184/30	5.0	1.064613	50.0	2083715.0	0.212923	Y
5	STD10 280-662184/31	10.0	2.075466	50.0	2066114.0	0.207547	Y
6	ICIS 280-662184/32	50.0	10.743792	50.0	2185490.0	0.214876	Y
7	STD75 280-662184/33	75.0	16.330645	50.0	2139447.0	0.217742	Y
8	STD100 280-662184/34	100.0	20.088244	50.0	2300786.0	0.200882	Y
9	STD200 280-662184/35	200.0	39.779483	50.0	2440449.0	0.198897	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

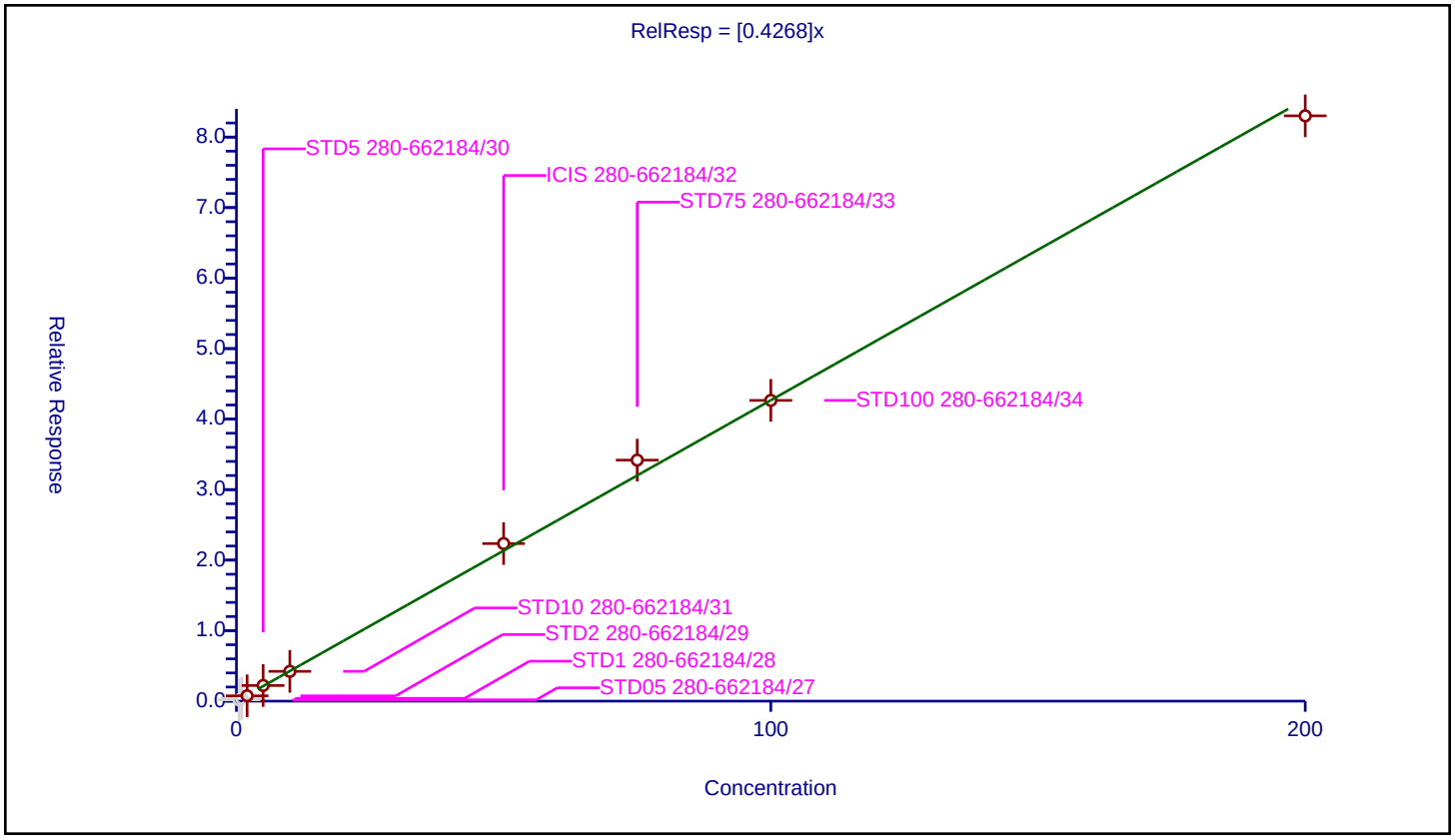
Curve Coefficients

Intercept:	0
Slope:	0.4268

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.185891	50.0	2118979.0	0.371783	N
2	STD1 280-662184/28	1.0	0.397315	50.0	2111172.0	0.397315	N
3	STD2 280-662184/29	2.0	0.753716	50.0	2039562.0	0.376858	Y
4	STD5 280-662184/30	5.0	2.218682	50.0	2083715.0	0.443736	Y
5	STD10 280-662184/31	10.0	4.225348	50.0	2066114.0	0.422535	Y
6	ICIS 280-662184/32	50.0	22.35112	50.0	2185490.0	0.447022	Y
7	STD75 280-662184/33	75.0	34.185703	50.0	2139447.0	0.455809	Y
8	STD100 280-662184/34	100.0	42.655684	50.0	2300786.0	0.426557	Y
9	STD200 280-662184/35	200.0	83.012921	50.0	2440449.0	0.415065	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

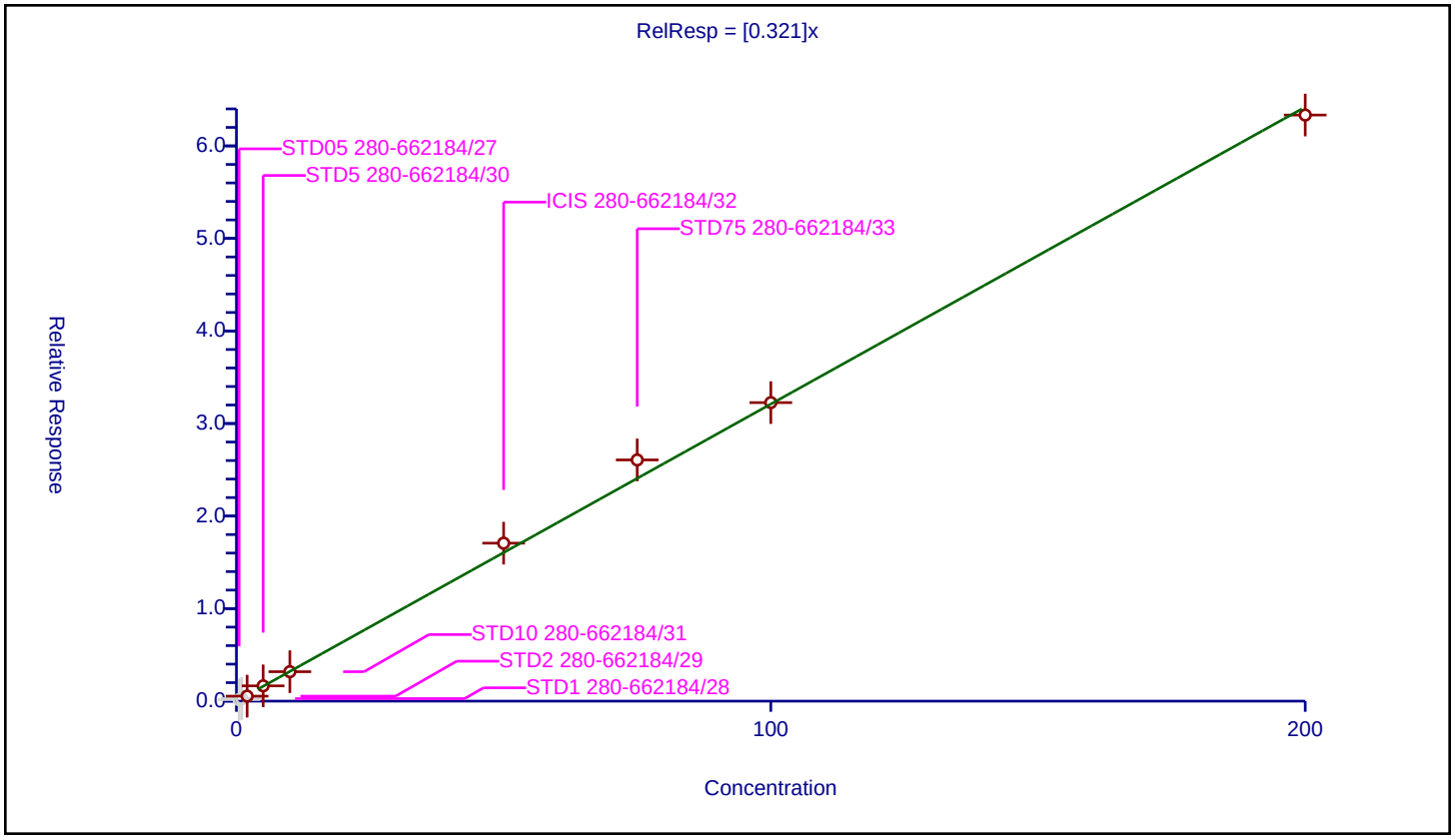
Curve Coefficients

Intercept:	0
Slope:	0.321

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.165669	50.0	2118979.0	0.331339	N
2	STD1 280-662184/28	1.0	0.275724	50.0	2111172.0	0.275724	N
3	STD2 280-662184/29	2.0	0.541048	50.0	2039562.0	0.270524	Y
4	STD5 280-662184/30	5.0	1.650562	50.0	2083715.0	0.330112	Y
5	STD10 280-662184/31	10.0	3.182109	50.0	2066114.0	0.318211	Y
6	ICIS 280-662184/32	50.0	17.070954	50.0	2185490.0	0.341419	Y
7	STD75 280-662184/33	75.0	26.064936	50.0	2139447.0	0.347532	Y
8	STD100 280-662184/34	100.0	32.258367	50.0	2300786.0	0.322584	Y
9	STD200 280-662184/35	200.0	63.336521	50.0	2440449.0	0.316683	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

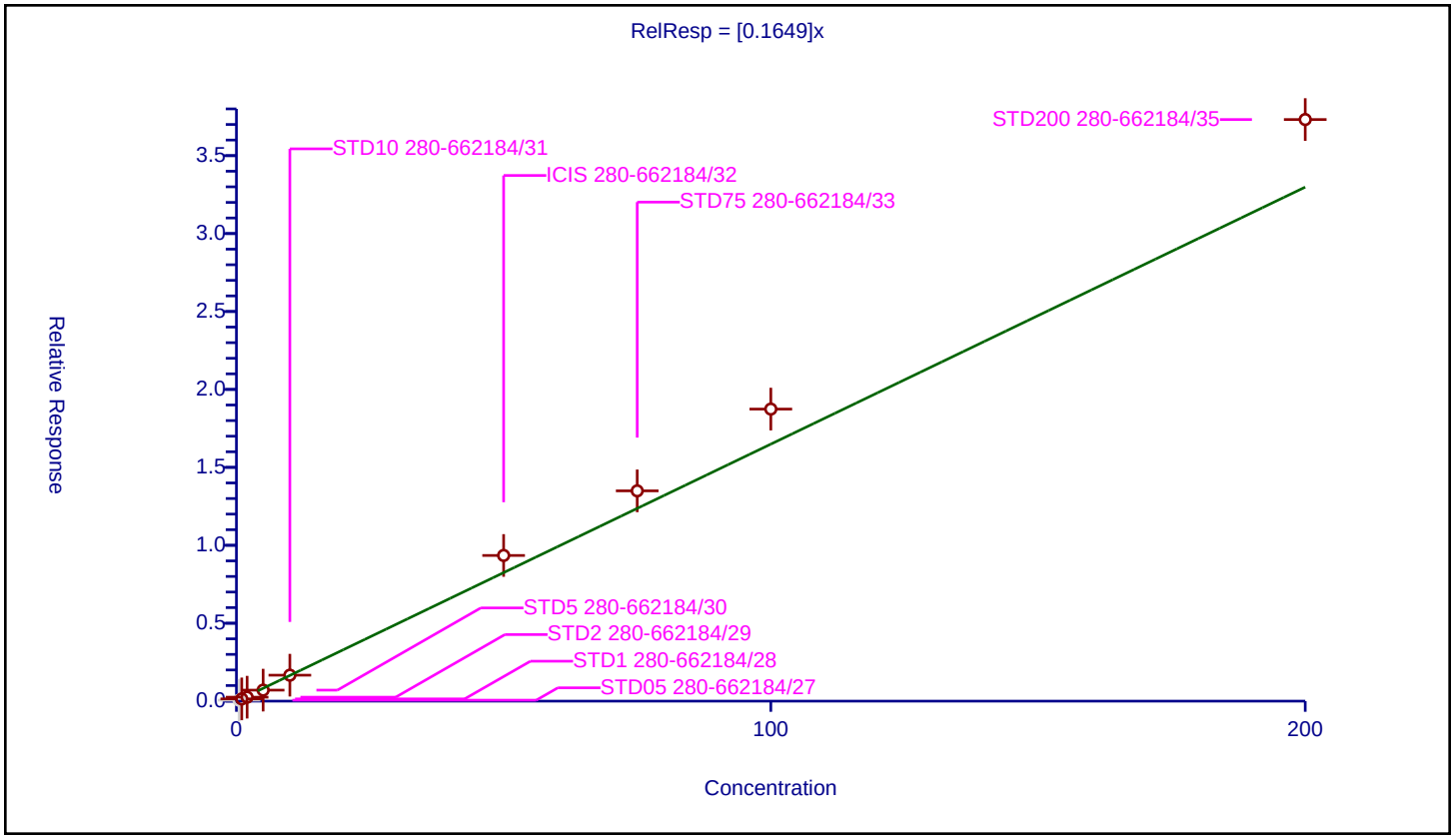
Curve Coefficients

Intercept:	0
Slope:	0.1649

Error Coefficients

Relative Standard Deviation:	14.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.062624	50.0	2118979.0	0.125249	N
2	STD1 280-662184/28	1.0	0.143617	50.0	2111172.0	0.143617	Y
3	STD2 280-662184/29	2.0	0.253927	50.0	2039562.0	0.126964	Y
4	STD5 280-662184/30	5.0	0.706455	50.0	2083715.0	0.141291	Y
5	STD10 280-662184/31	10.0	1.665591	50.0	2066114.0	0.166559	Y
6	ICIS 280-662184/32	50.0	9.347217	50.0	2185490.0	0.186944	Y
7	STD75 280-662184/33	75.0	13.492459	50.0	2139447.0	0.179899	Y
8	STD100 280-662184/34	100.0	18.738705	50.0	2300786.0	0.187387	Y
9	STD200 280-662184/35	200.0	37.317252	50.0	2440449.0	0.186586	Y



Calibration / Acrolein

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

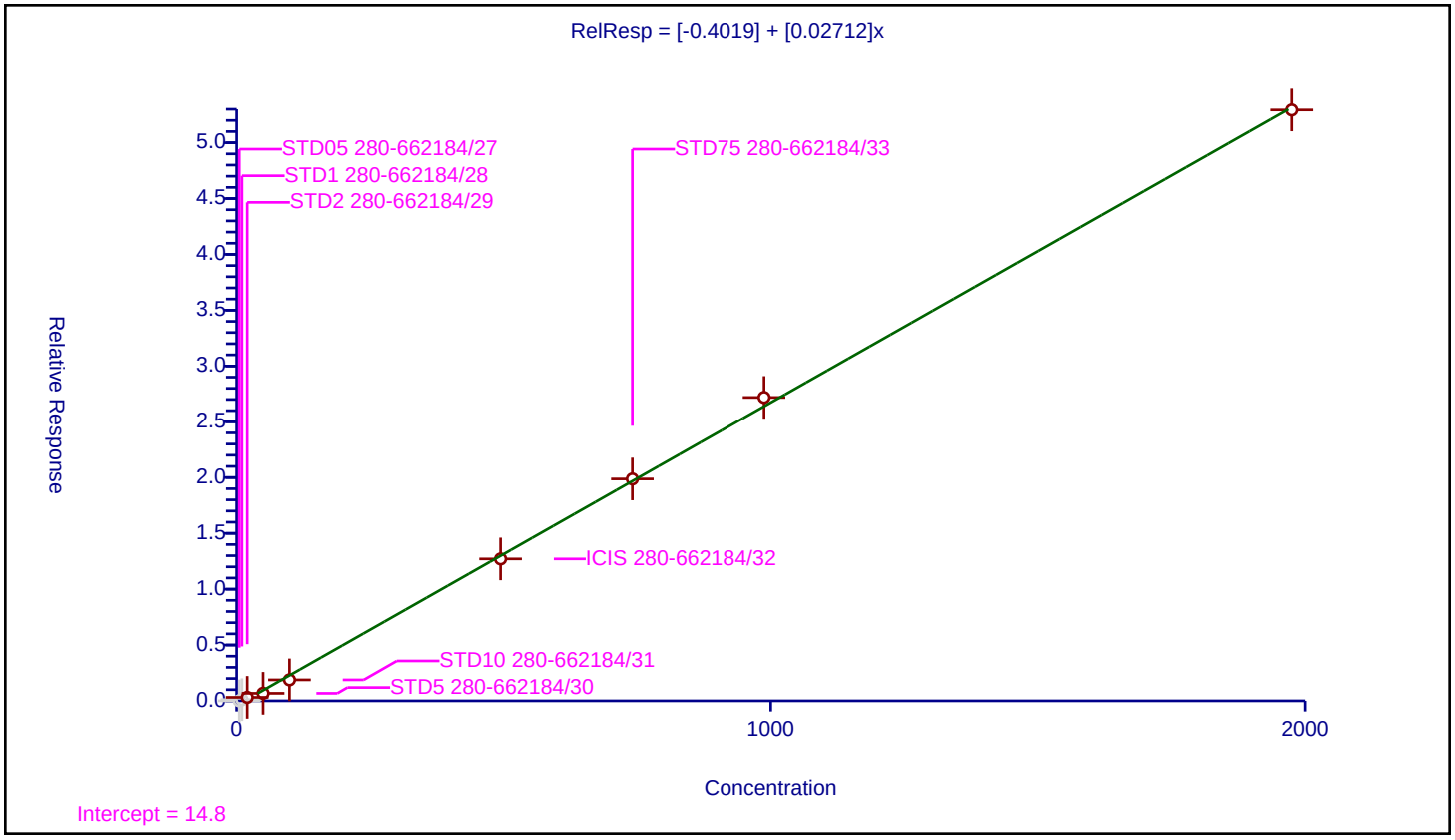
Curve Coefficients

Intercept:	-0.4019
Slope:	0.02712

Error Coefficients

Relative Standard Deviation:	18.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	4.9375	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	9.875	0.108257	50.0	2111172.0	0.010963	N
3	STD2 280-662184/29	19.75	0.310704	50.0	2039562.0	0.015732	Y
4	STD5 280-662184/30	49.375	0.674276	50.0	2083715.0	0.013656	Y
5	STD10 280-662184/31	98.75	1.880172	50.0	2066114.0	0.01904	Y
6	ICIS 280-662184/32	493.75	12.709507	50.0	2185490.0	0.025741	Y
7	STD75 280-662184/33	740.625	19.875042	50.0	2139447.0	0.026836	Y
8	STD100 280-662184/34	987.5	27.181102	50.0	2300786.0	0.027525	Y
9	STD200 280-662184/35	1975.0	52.938291	50.0	2440449.0	0.026804	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

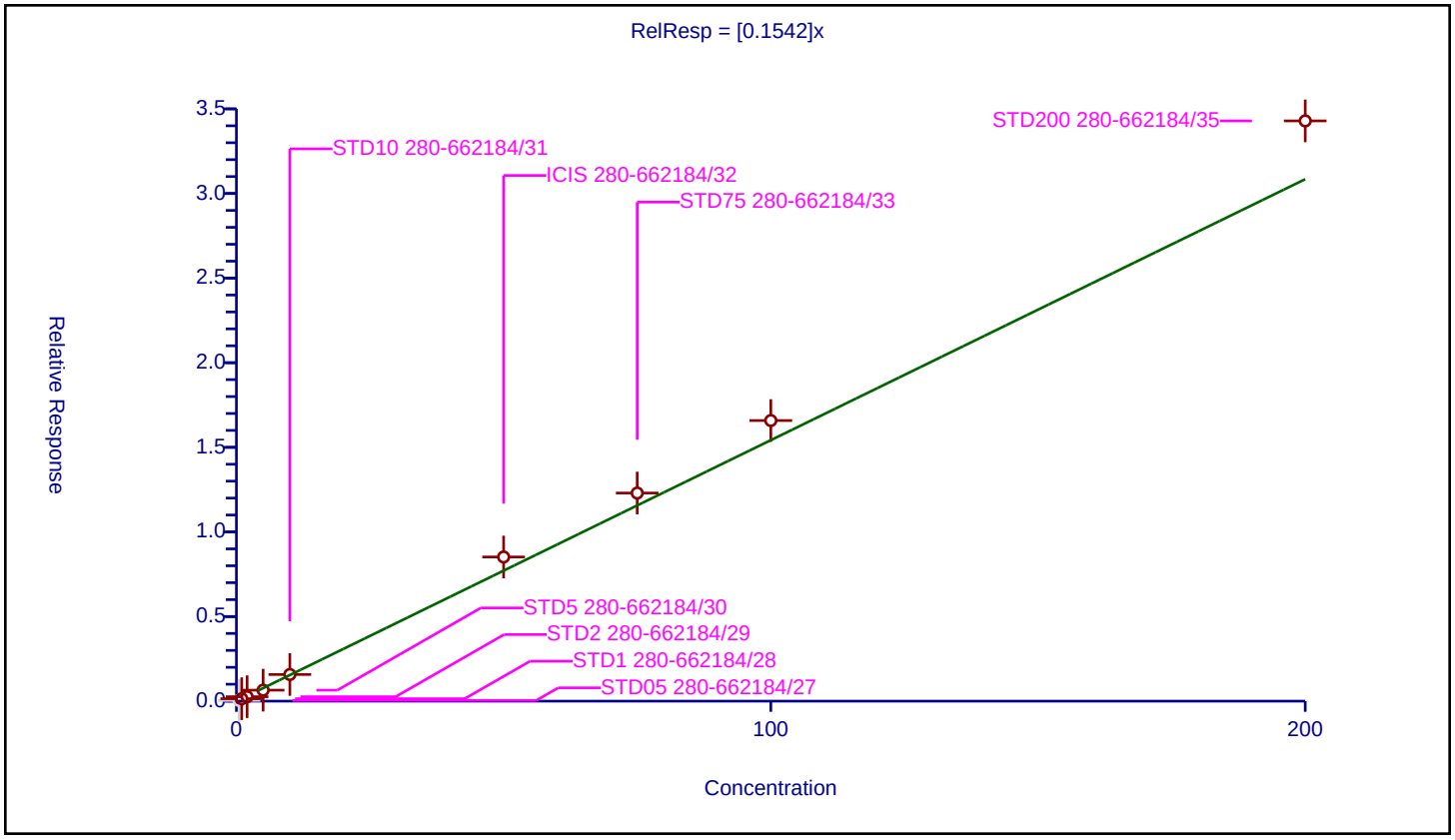
Curve Coefficients

Intercept:	0
Slope:	0.1542

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.043158	50.0	2118979.0	0.086315	N
2	STD1 280-662184/28	1.0	0.143854	50.0	2111172.0	0.143854	Y
3	STD2 280-662184/29	2.0	0.262066	50.0	2039562.0	0.131033	Y
4	STD5 280-662184/30	5.0	0.649225	50.0	2083715.0	0.129845	Y
5	STD10 280-662184/31	10.0	1.574163	50.0	2066114.0	0.157416	Y
6	ICIS 280-662184/32	50.0	8.51976	50.0	2185490.0	0.170395	Y
7	STD75 280-662184/33	75.0	12.298014	50.0	2139447.0	0.163974	Y
8	STD100 280-662184/34	100.0	16.582616	50.0	2300786.0	0.165826	Y
9	STD200 280-662184/35	200.0	34.290186	50.0	2440449.0	0.171451	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

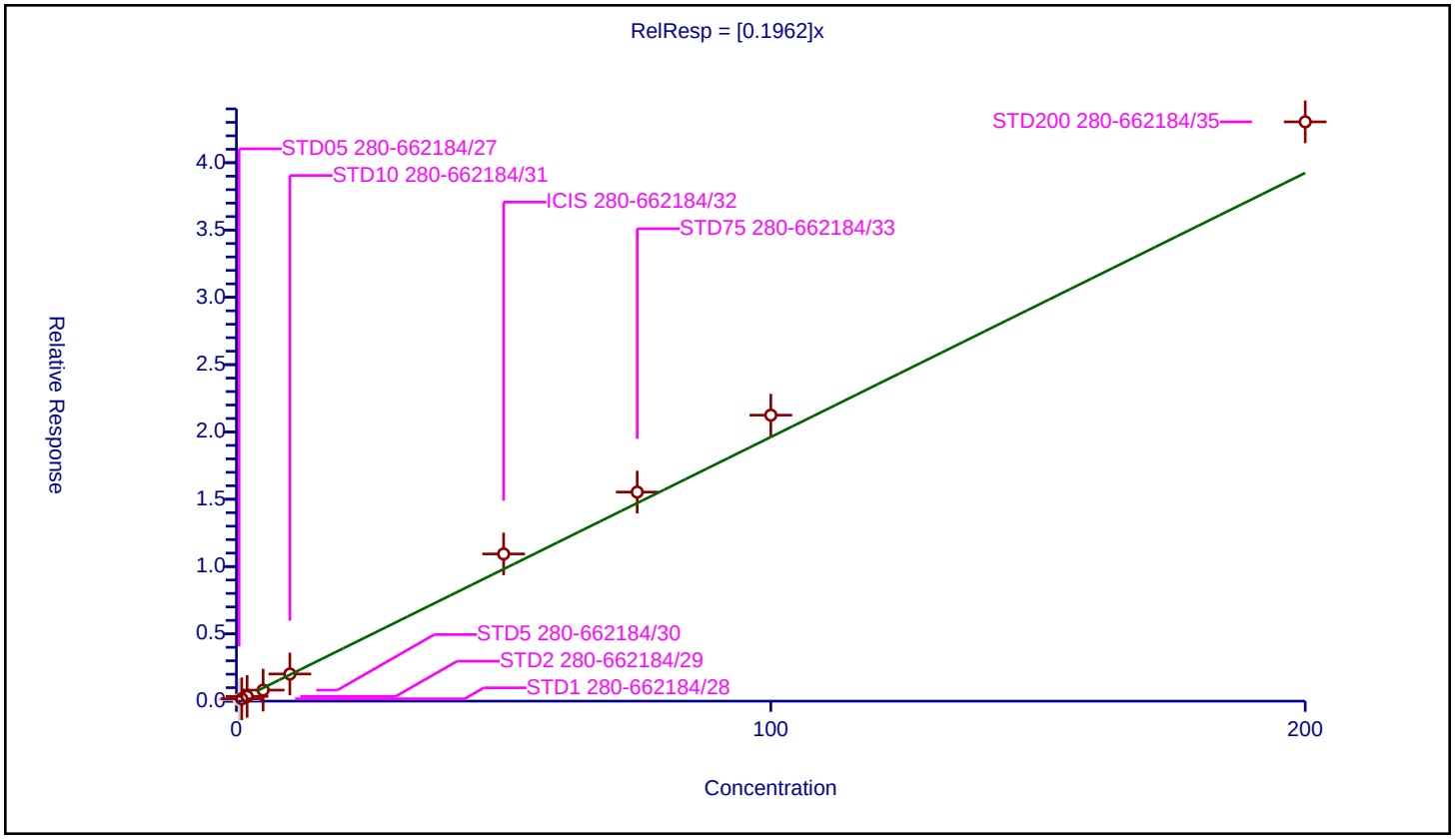
Curve Coefficients

Intercept:	0
Slope:	0.1962

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.11397	50.0	2118979.0	0.22794	N
2	STD1 280-662184/28	1.0	0.174145	50.0	2111172.0	0.174145	Y
3	STD2 280-662184/29	2.0	0.352796	50.0	2039562.0	0.176398	Y
4	STD5 280-662184/30	5.0	0.81993	50.0	2083715.0	0.163986	Y
5	STD10 280-662184/31	10.0	2.016951	50.0	2066114.0	0.201695	Y
6	ICIS 280-662184/32	50.0	10.936266	50.0	2185490.0	0.218725	Y
7	STD75 280-662184/33	75.0	15.531934	50.0	2139447.0	0.207092	Y
8	STD100 280-662184/34	100.0	21.246674	50.0	2300786.0	0.212467	Y
9	STD200 280-662184/35	200.0	43.037019	50.0	2440449.0	0.215185	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

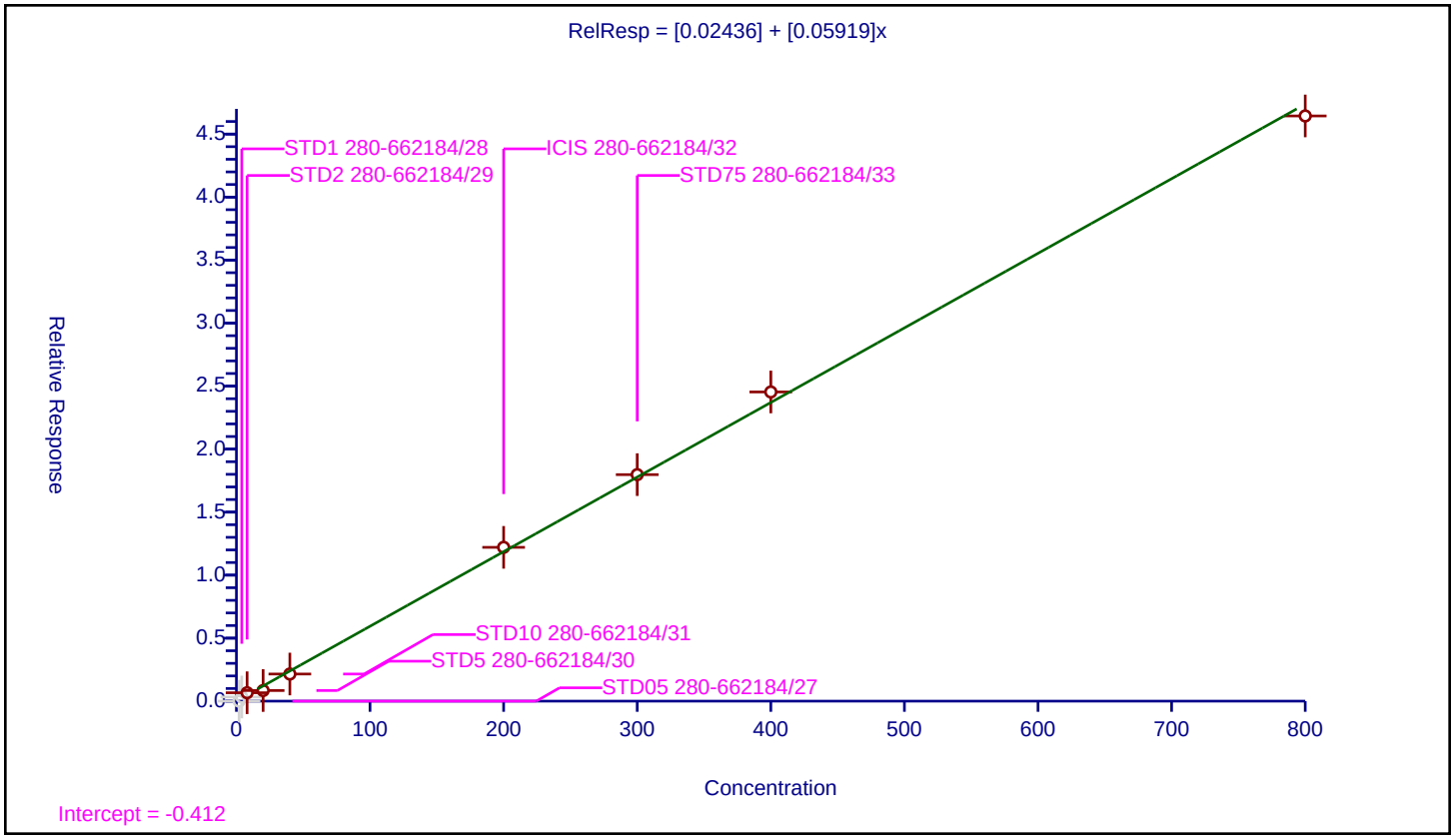
Curve Coefficients

Intercept:	0.02436
Slope:	0.05919

Error Coefficients

Relative Standard Deviation:	21.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	2.0	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	4.0	0.32778	50.0	2111172.0	0.081945	N
3	STD2 280-662184/29	8.0	0.665829	50.0	2039562.0	0.083229	Y
4	STD5 280-662184/30	20.0	0.84203	50.0	2083715.0	0.042101	Y
5	STD10 280-662184/31	40.0	2.153173	50.0	2066114.0	0.053829	Y
6	ICIS 280-662184/32	200.0	12.206073	50.0	2185490.0	0.06103	Y
7	STD75 280-662184/33	300.0	17.976444	50.0	2139447.0	0.059921	Y
8	STD100 280-662184/34	400.0	24.535224	50.0	2300786.0	0.061338	Y
9	STD200 280-662184/35	800.0	46.440491	50.0	2440449.0	0.058051	Y



Calibration / Iodomethane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

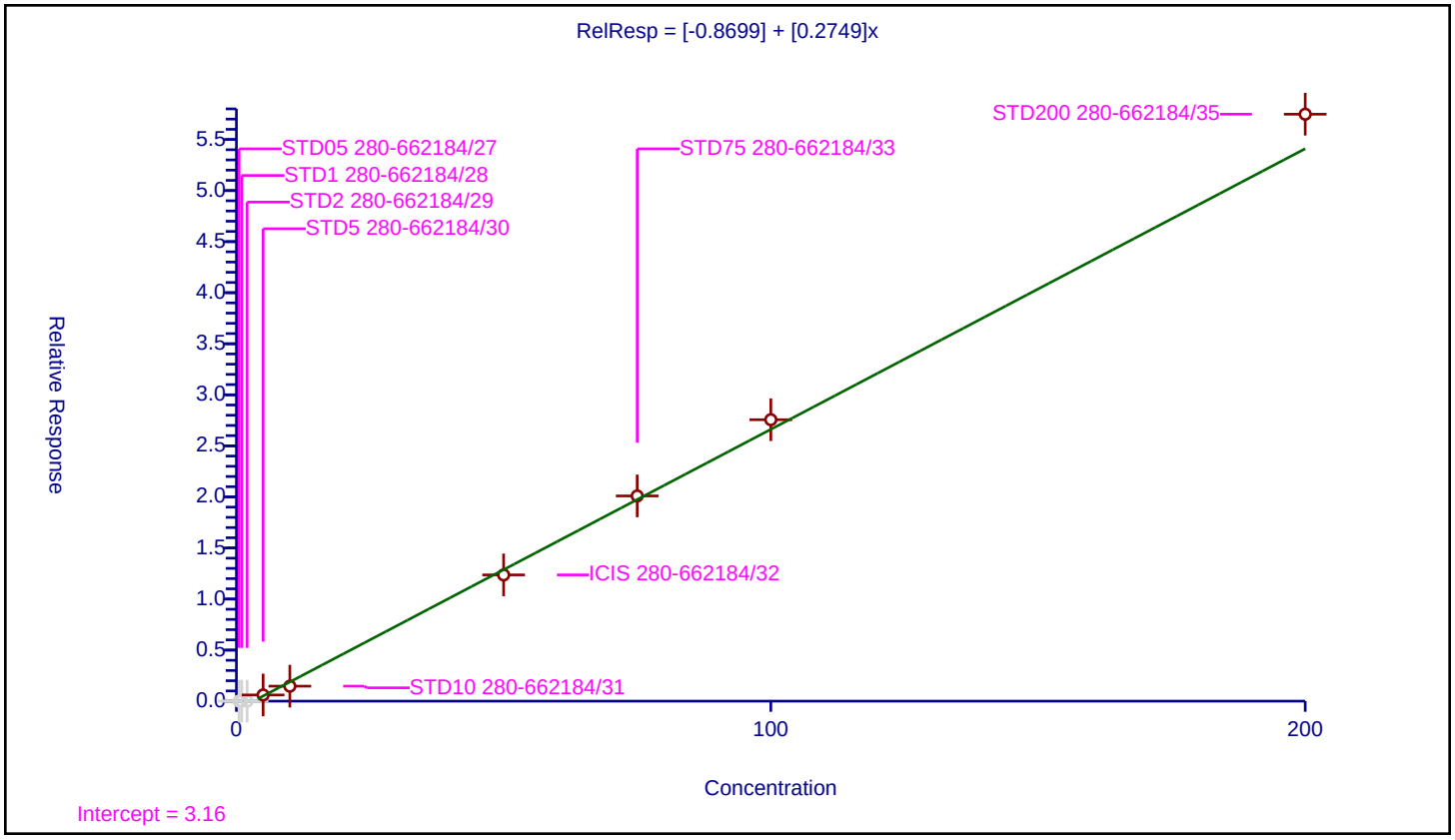
Curve Coefficients

Intercept:	-0.8699
Slope:	0.2749

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	2.0	0.0	50.0	2039562.0	0.0	N
4	STD5 280-662184/30	5.0	0.606489	50.0	2083715.0	0.121298	Y
5	STD10 280-662184/31	10.0	1.466521	50.0	2066114.0	0.146652	Y
6	ICIS 280-662184/32	50.0	12.36137	50.0	2185490.0	0.247227	Y
7	STD75 280-662184/33	75.0	20.095543	50.0	2139447.0	0.267941	Y
8	STD100 280-662184/34	100.0	27.561429	50.0	2300786.0	0.275614	Y
9	STD200 280-662184/35	200.0	57.47848	50.0	2440449.0	0.287392	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

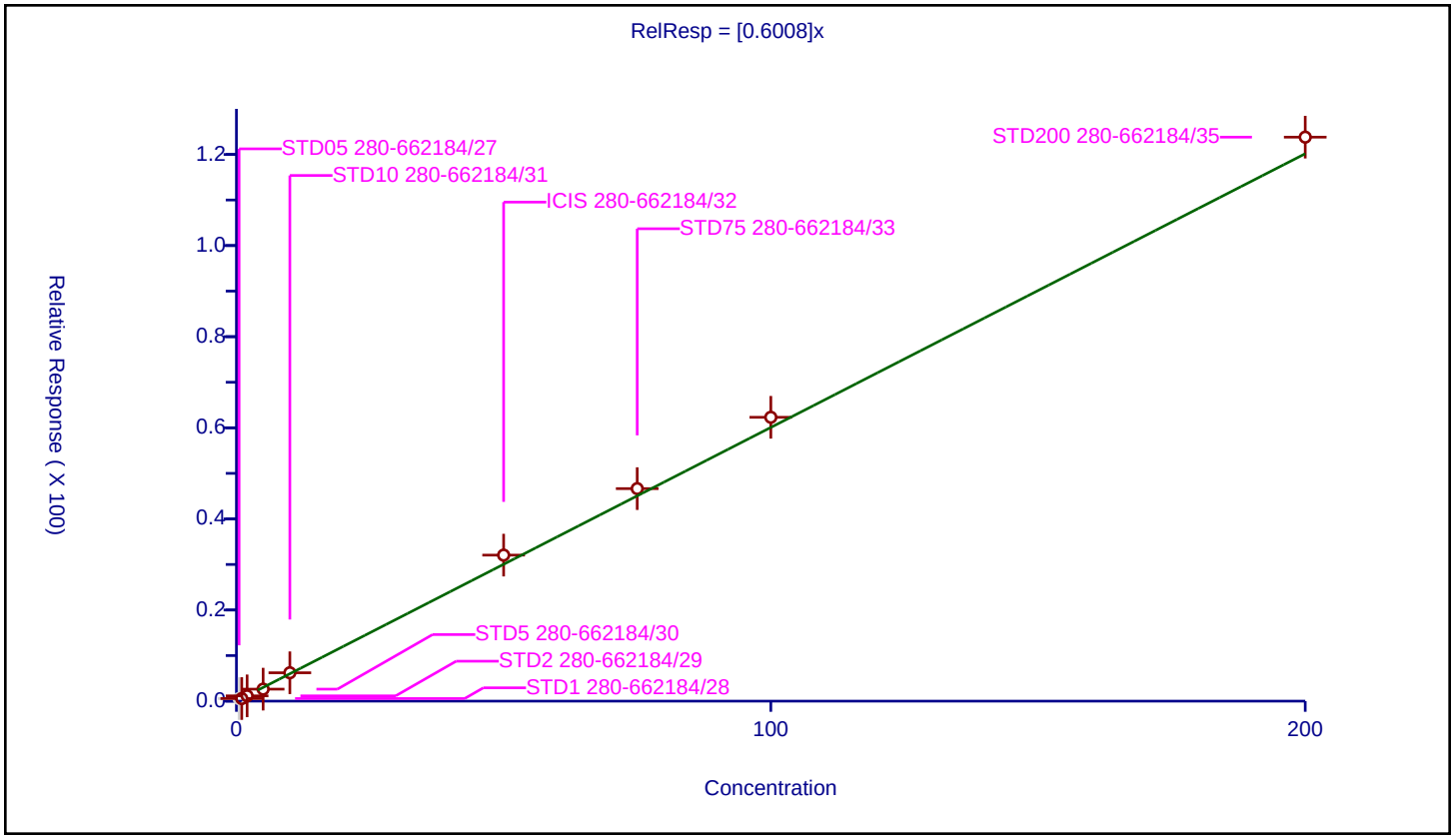
Curve Coefficients

Intercept:	0
Slope:	0.6008

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.562747	50.0	2118979.0	1.125495	N
2	STD1 280-662184/28	1.0	0.570134	50.0	2111172.0	0.570134	Y
3	STD2 280-662184/29	2.0	1.162357	50.0	2039562.0	0.581179	Y
4	STD5 280-662184/30	5.0	2.636157	50.0	2083715.0	0.527231	Y
5	STD10 280-662184/31	10.0	6.227875	50.0	2066114.0	0.622788	Y
6	ICIS 280-662184/32	50.0	32.051874	50.0	2185490.0	0.641037	Y
7	STD75 280-662184/33	75.0	46.650209	50.0	2139447.0	0.622003	Y
8	STD100 280-662184/34	100.0	62.305056	50.0	2300786.0	0.623051	Y
9	STD200 280-662184/35	200.0	123.799186	50.0	2440449.0	0.618996	Y



Calibration / Methyl acetate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

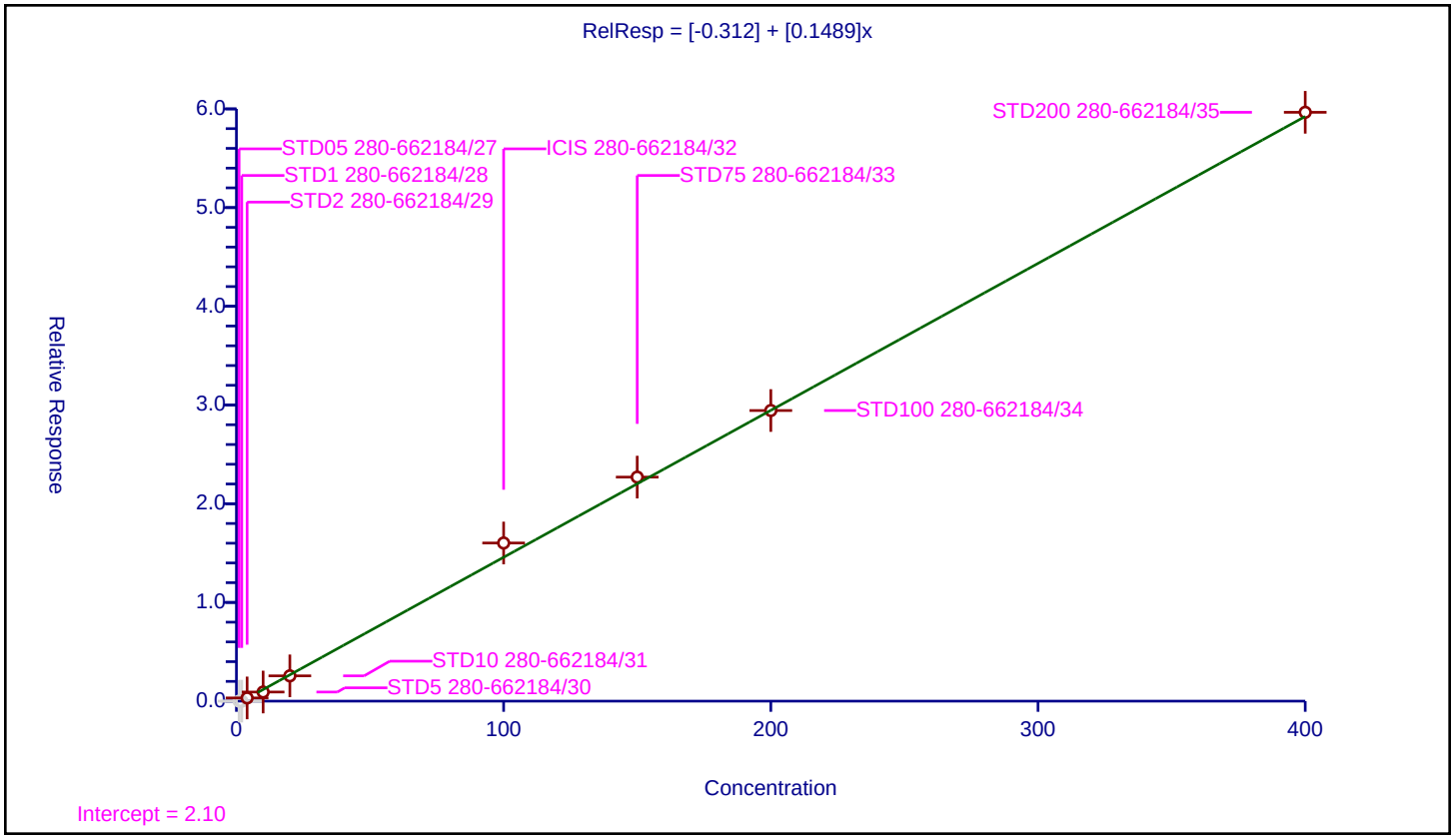
Curve Coefficients

Intercept:	-0.312
Slope:	0.1489

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	1.0	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	2.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	4.0	0.325168	50.0	2039562.0	0.081292	Y
4	STD5 280-662184/30	10.0	0.923759	50.0	2083715.0	0.092376	Y
5	STD10 280-662184/31	20.0	2.563315	50.0	2066114.0	0.128166	Y
6	ICIS 280-662184/32	100.0	16.022151	50.0	2185490.0	0.160222	Y
7	STD75 280-662184/33	150.0	22.697781	50.0	2139447.0	0.151319	Y
8	STD100 280-662184/34	200.0	29.440982	50.0	2300786.0	0.147205	Y
9	STD200 280-662184/35	400.0	59.655723	50.0	2440449.0	0.149139	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

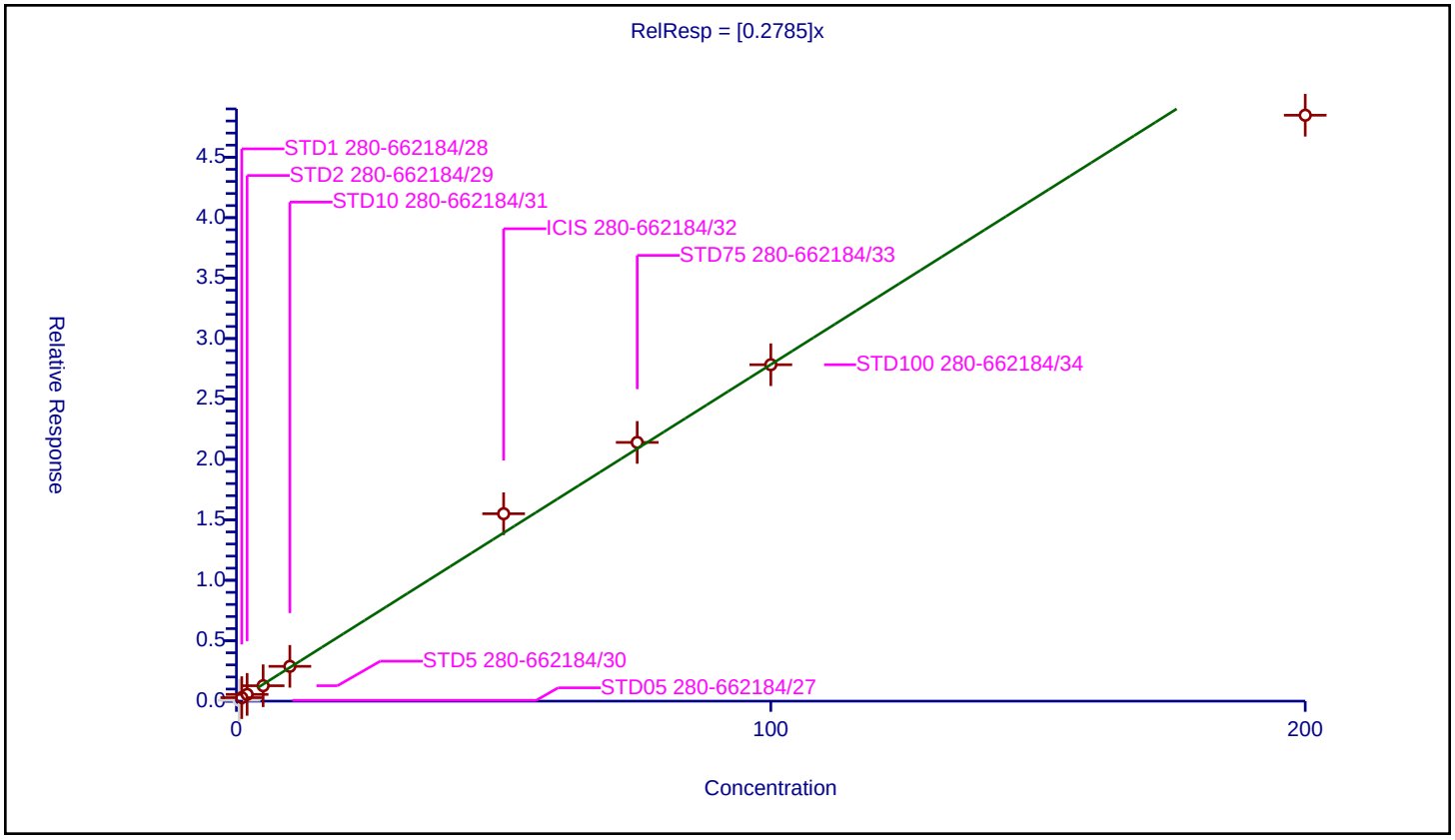
Curve Coefficients

Intercept:	0
Slope:	0.2785

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.068476	50.0	2118979.0	0.136953	N
2	STD1 280-662184/28	1.0	0.289934	50.0	2111172.0	0.289934	Y
3	STD2 280-662184/29	2.0	0.55762	50.0	2039562.0	0.27881	Y
4	STD5 280-662184/30	5.0	1.275606	50.0	2083715.0	0.255121	Y
5	STD10 280-662184/31	10.0	2.877915	50.0	2066114.0	0.287791	Y
6	ICIS 280-662184/32	50.0	15.506157	50.0	2185490.0	0.310123	Y
7	STD75 280-662184/33	75.0	21.40656	50.0	2139447.0	0.285421	Y
8	STD100 280-662184/34	100.0	27.83477	50.0	2300786.0	0.278348	Y
9	STD200 280-662184/35	200.0	48.475772	50.0	2440449.0	0.242379	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

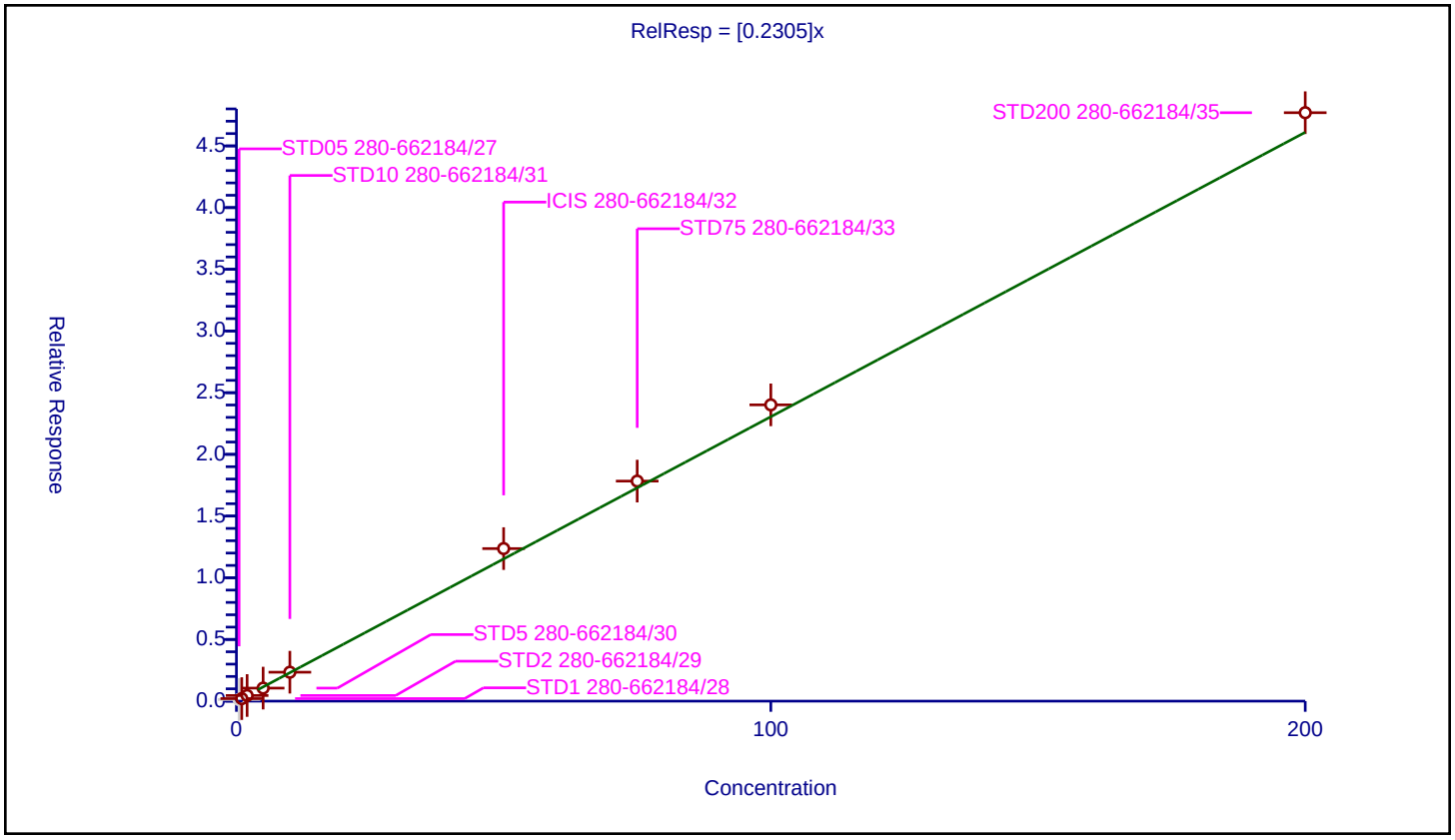
Curve Coefficients

Intercept:	0
Slope:	0.2305

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.127538	50.0	2118979.0	0.255076	N
2	STD1 280-662184/28	1.0	0.206497	50.0	2111172.0	0.206497	Y
3	STD2 280-662184/29	2.0	0.456103	50.0	2039562.0	0.228051	Y
4	STD5 280-662184/30	5.0	1.05703	50.0	2083715.0	0.211406	Y
5	STD10 280-662184/31	10.0	2.344764	50.0	2066114.0	0.234476	Y
6	ICIS 280-662184/32	50.0	12.364344	50.0	2185490.0	0.247287	Y
7	STD75 280-662184/33	75.0	17.834398	50.0	2139447.0	0.237792	Y
8	STD100 280-662184/34	100.0	24.014141	50.0	2300786.0	0.240141	Y
9	STD200 280-662184/35	200.0	47.691388	50.0	2440449.0	0.238457	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

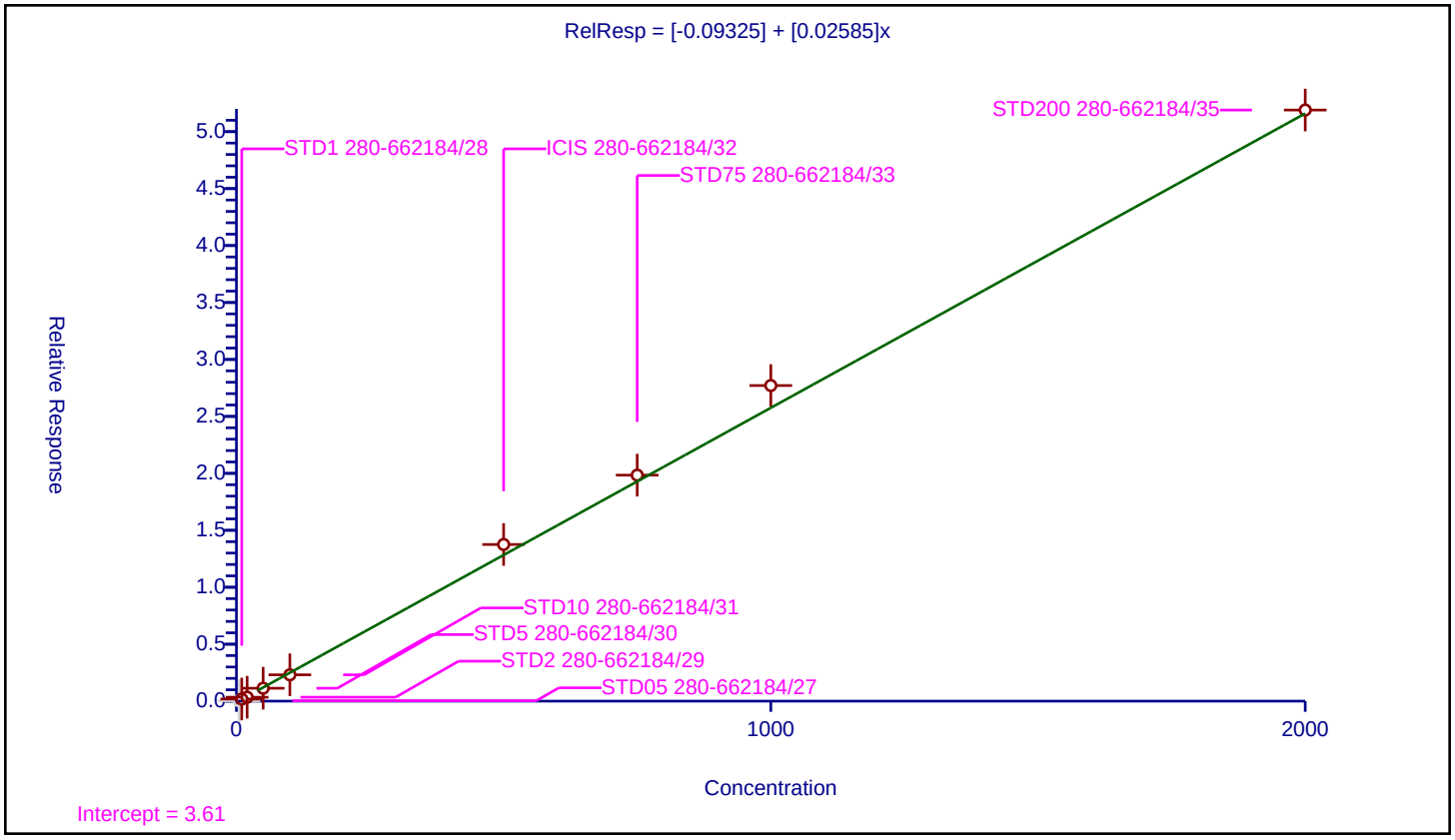
Curve Coefficients

Intercept:	-0.09325
Slope:	0.02585

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	5.0	0.034309	50.0	2118979.0	0.006862	N
2	STD1 280-662184/28	10.0	0.188426	50.0	2111172.0	0.018843	Y
3	STD2 280-662184/29	20.0	0.345957	50.0	2039562.0	0.017298	Y
4	STD5 280-662184/30	50.0	1.132161	50.0	2083715.0	0.022643	Y
5	STD10 280-662184/31	100.0	2.311949	50.0	2066114.0	0.023119	Y
6	ICIS 280-662184/32	500.0	13.752888	50.0	2185490.0	0.027506	Y
7	STD75 280-662184/33	750.0	19.843305	50.0	2139447.0	0.026458	Y
8	STD100 280-662184/34	1000.0	27.710313	50.0	2300786.0	0.02771	Y
9	STD200 280-662184/35	2000.0	51.900429	50.0	2440449.0	0.02595	Y



Calibration / Acrylonitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

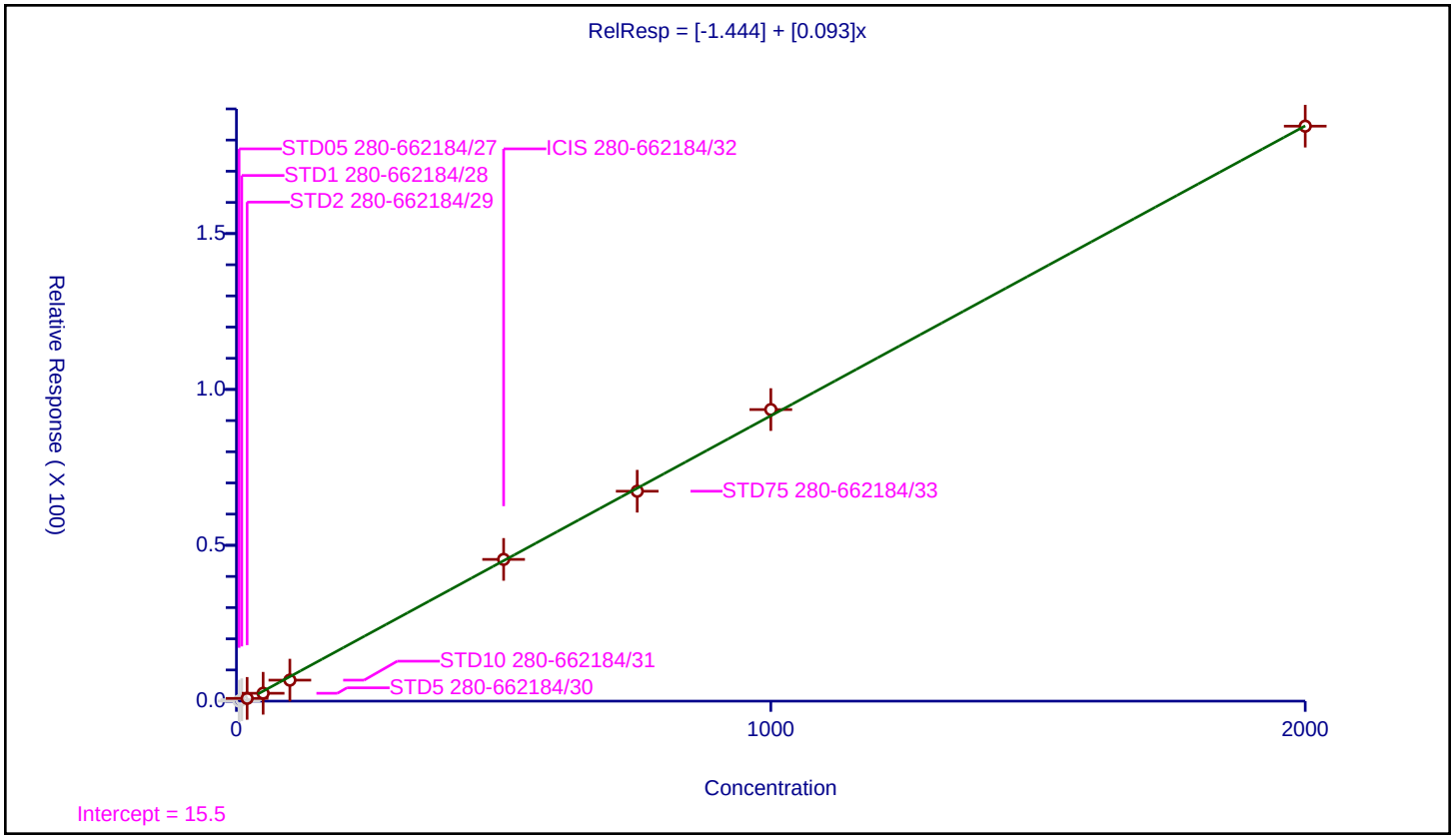
Curve Coefficients

Intercept:	-1.444
Slope:	0.093

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	5.0	0.028032	50.0	2118979.0	0.005606	N
2	STD1 280-662184/28	10.0	0.47772	50.0	2111172.0	0.047772	N
3	STD2 280-662184/29	20.0	0.883033	50.0	2039562.0	0.044152	Y
4	STD5 280-662184/30	50.0	2.521554	50.0	2083715.0	0.050431	Y
5	STD10 280-662184/31	100.0	6.741206	50.0	2066114.0	0.067412	Y
6	ICIS 280-662184/32	500.0	45.471267	50.0	2185490.0	0.090943	Y
7	STD75 280-662184/33	750.0	67.344552	50.0	2139447.0	0.089793	Y
8	STD100 280-662184/34	1000.0	93.539295	50.0	2300786.0	0.093539	Y
9	STD200 280-662184/35	2000.0	184.459048	50.0	2440449.0	0.09223	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

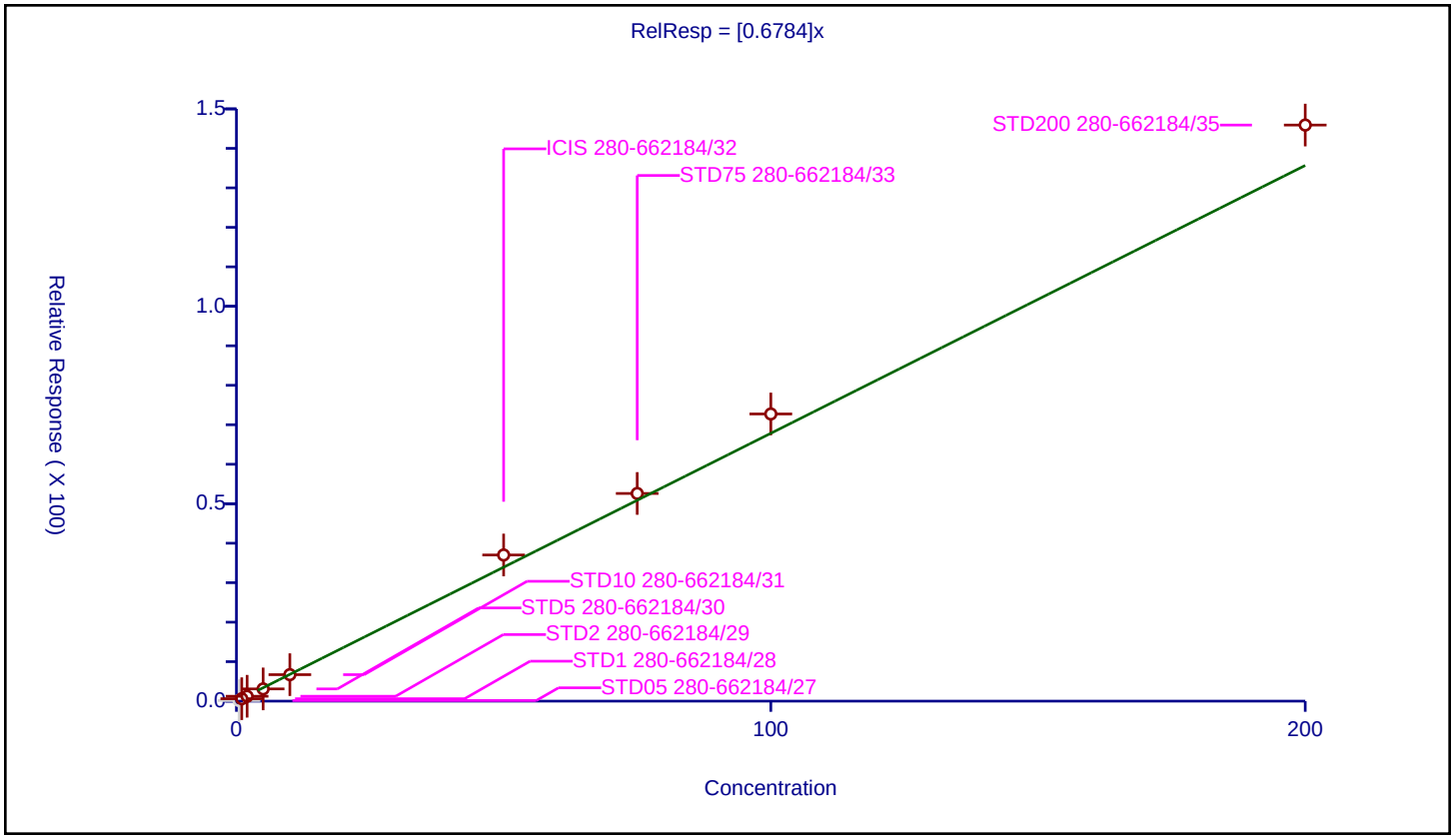
Curve Coefficients

Intercept:	0
Slope:	0.6784

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.150875	50.0	2118979.0	0.301749	N
2	STD1 280-662184/28	1.0	0.620201	50.0	2111172.0	0.620201	Y
3	STD2 280-662184/29	2.0	1.235608	50.0	2039562.0	0.617804	Y
4	STD5 280-662184/30	5.0	3.098312	50.0	2083715.0	0.619662	Y
5	STD10 280-662184/31	10.0	6.707423	50.0	2066114.0	0.670742	Y
6	ICIS 280-662184/32	50.0	37.019295	50.0	2185490.0	0.740386	Y
7	STD75 280-662184/33	75.0	52.597938	50.0	2139447.0	0.701306	Y
8	STD100 280-662184/34	100.0	72.733383	50.0	2300786.0	0.727334	Y
9	STD200 280-662184/35	200.0	145.907024	50.0	2440449.0	0.729535	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

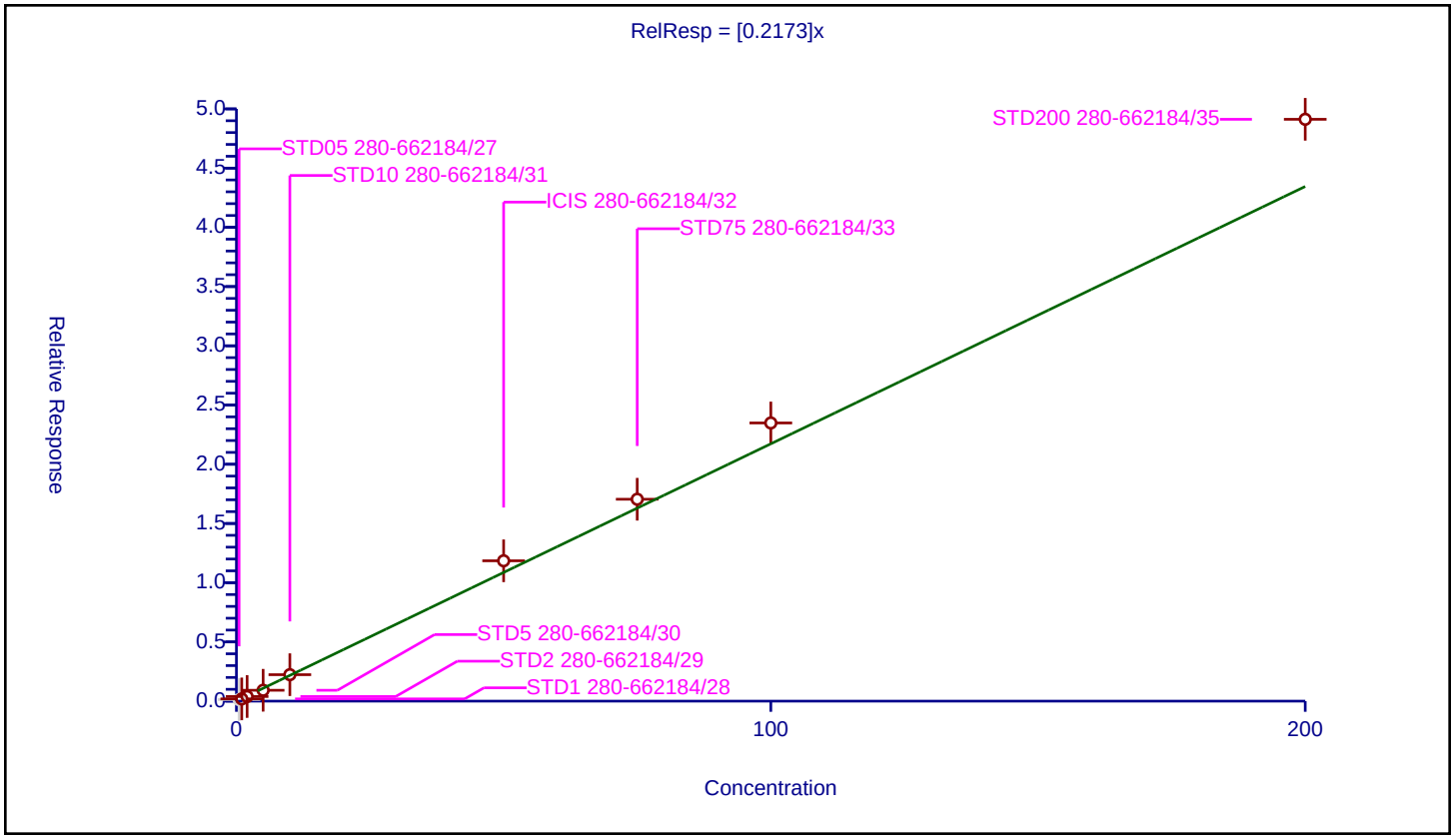
Curve Coefficients

Intercept:	0
Slope:	0.2173

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.131644	50.0	2118979.0	0.263287	N
2	STD1 280-662184/28	1.0	0.191031	50.0	2111172.0	0.191031	Y
3	STD2 280-662184/29	2.0	0.39055	50.0	2039562.0	0.195275	Y
4	STD5 280-662184/30	5.0	0.917976	50.0	2083715.0	0.183595	Y
5	STD10 280-662184/31	10.0	2.234364	50.0	2066114.0	0.223436	Y
6	ICIS 280-662184/32	50.0	11.84819	50.0	2185490.0	0.236964	Y
7	STD75 280-662184/33	75.0	17.044451	50.0	2139447.0	0.227259	Y
8	STD100 280-662184/34	100.0	23.485235	50.0	2300786.0	0.234852	Y
9	STD200 280-662184/35	200.0	49.121637	50.0	2440449.0	0.245608	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

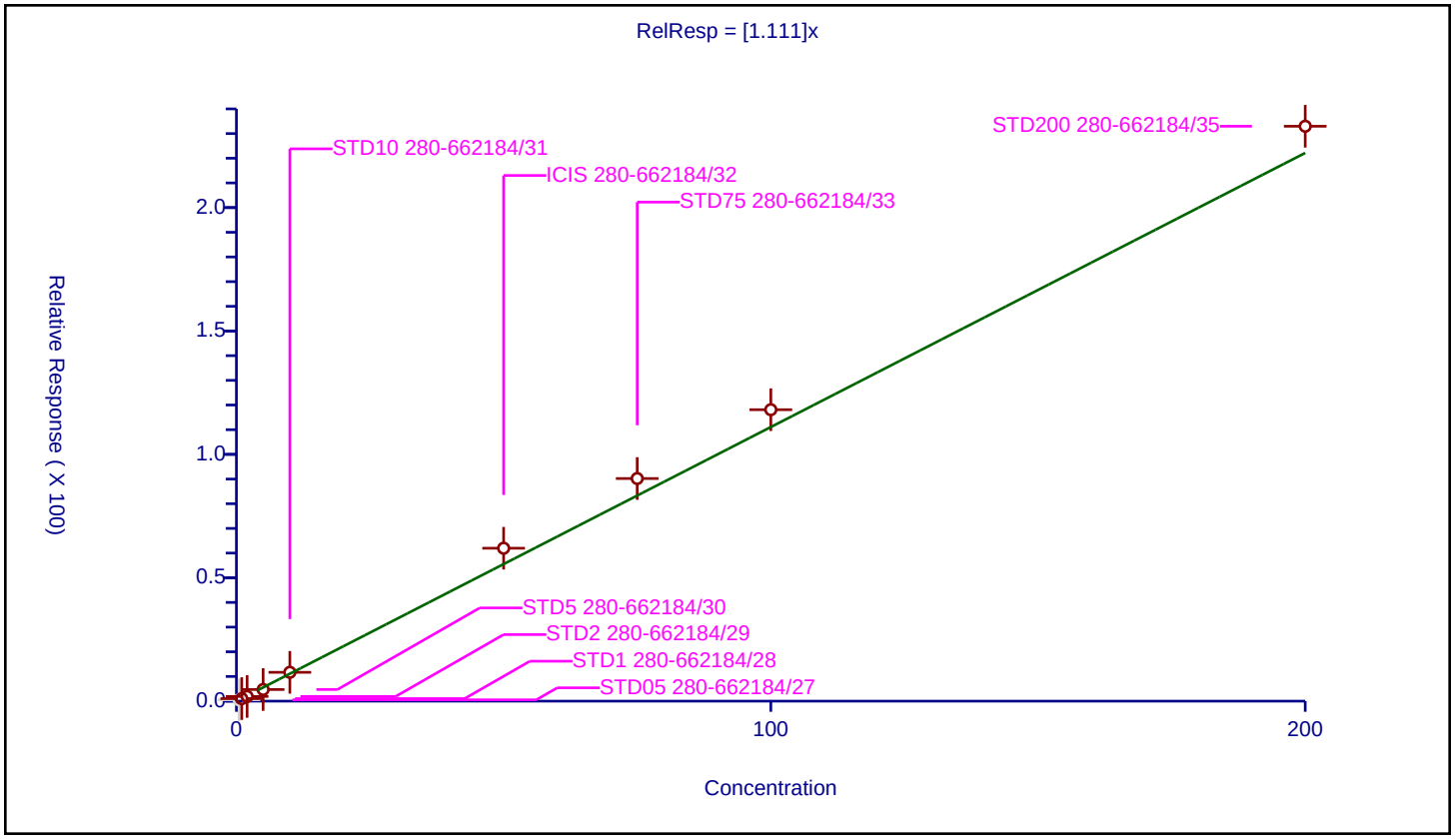
Curve Coefficients

Intercept:	0
Slope:	1.111

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.538776	50.0	512179.0	1.077553	N
2	STD1 280-662184/28	1.0	1.035197	50.0	503962.0	1.035197	Y
3	STD2 280-662184/29	2.0	1.904405	50.0	484272.0	0.952202	Y
4	STD5 280-662184/30	5.0	4.707946	50.0	498795.0	0.941589	Y
5	STD10 280-662184/31	10.0	11.687869	50.0	504583.0	1.168787	Y
6	ICIS 280-662184/32	50.0	61.970186	50.0	539883.0	1.239404	Y
7	STD75 280-662184/33	75.0	90.218093	50.0	531471.0	1.202908	Y
8	STD100 280-662184/34	100.0	118.102335	50.0	572904.0	1.181023	Y
9	STD200 280-662184/35	200.0	232.967103	50.0	630295.0	1.164836	Y



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

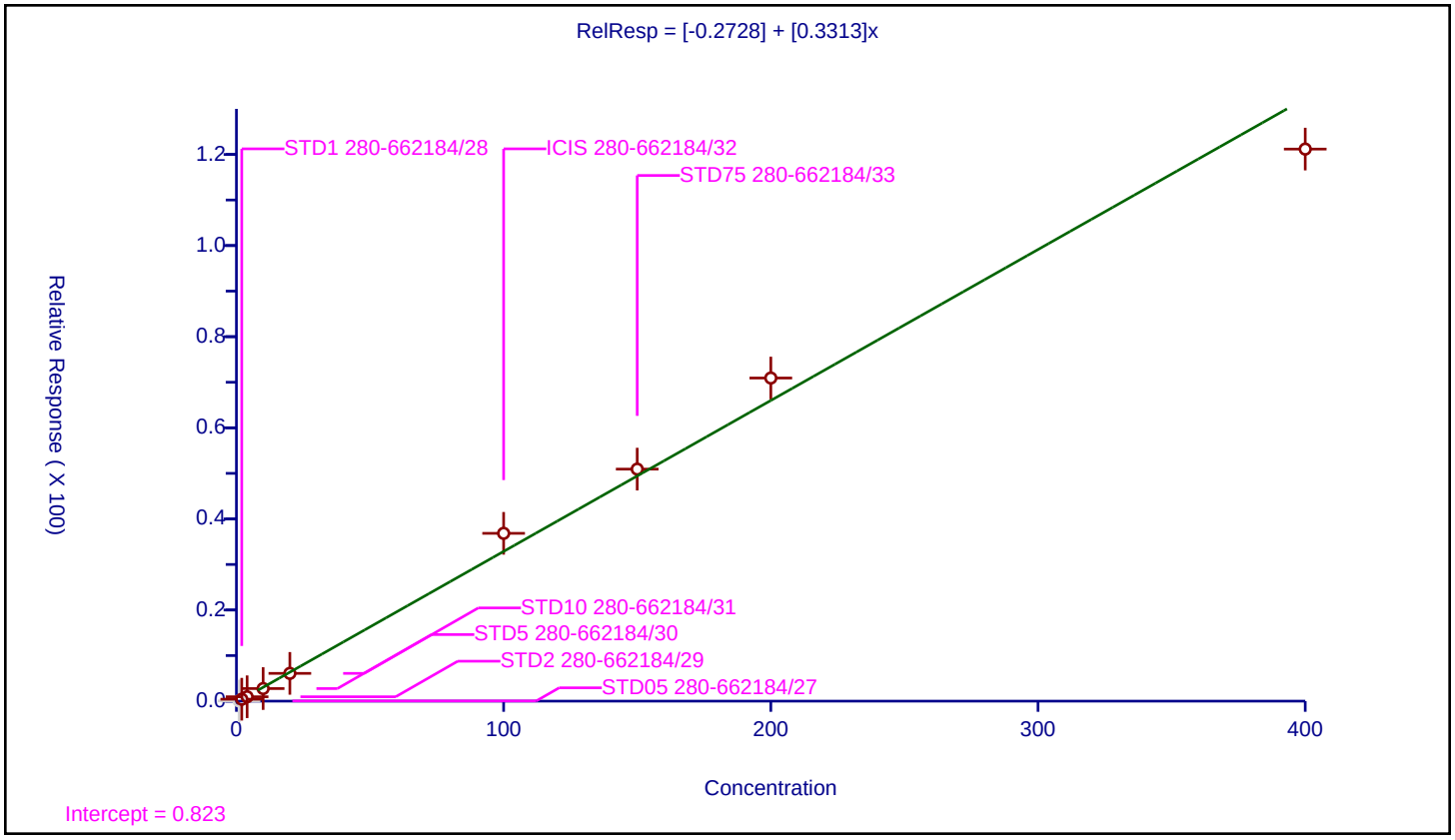
Curve Coefficients

Intercept:	-0.2728
Slope:	0.3313

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	1.0	0.045753	50.0	2118979.0	0.045753	N
2	STD1 280-662184/28	2.0	0.424764	50.0	2111172.0	0.212382	Y
3	STD2 280-662184/29	4.0	0.959863	50.0	2039562.0	0.239966	Y
4	STD5 280-662184/30	10.0	2.760526	50.0	2083715.0	0.276053	Y
5	STD10 280-662184/31	20.0	6.094993	50.0	2066114.0	0.30475	Y
6	ICIS 280-662184/32	100.0	36.835401	50.0	2185490.0	0.368354	Y
7	STD75 280-662184/33	150.0	50.929563	50.0	2139447.0	0.33953	Y
8	STD100 280-662184/34	200.0	70.924936	50.0	2300786.0	0.354625	Y
9	STD200 280-662184/35	400.0	121.175345	50.0	2440449.0	0.302938	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

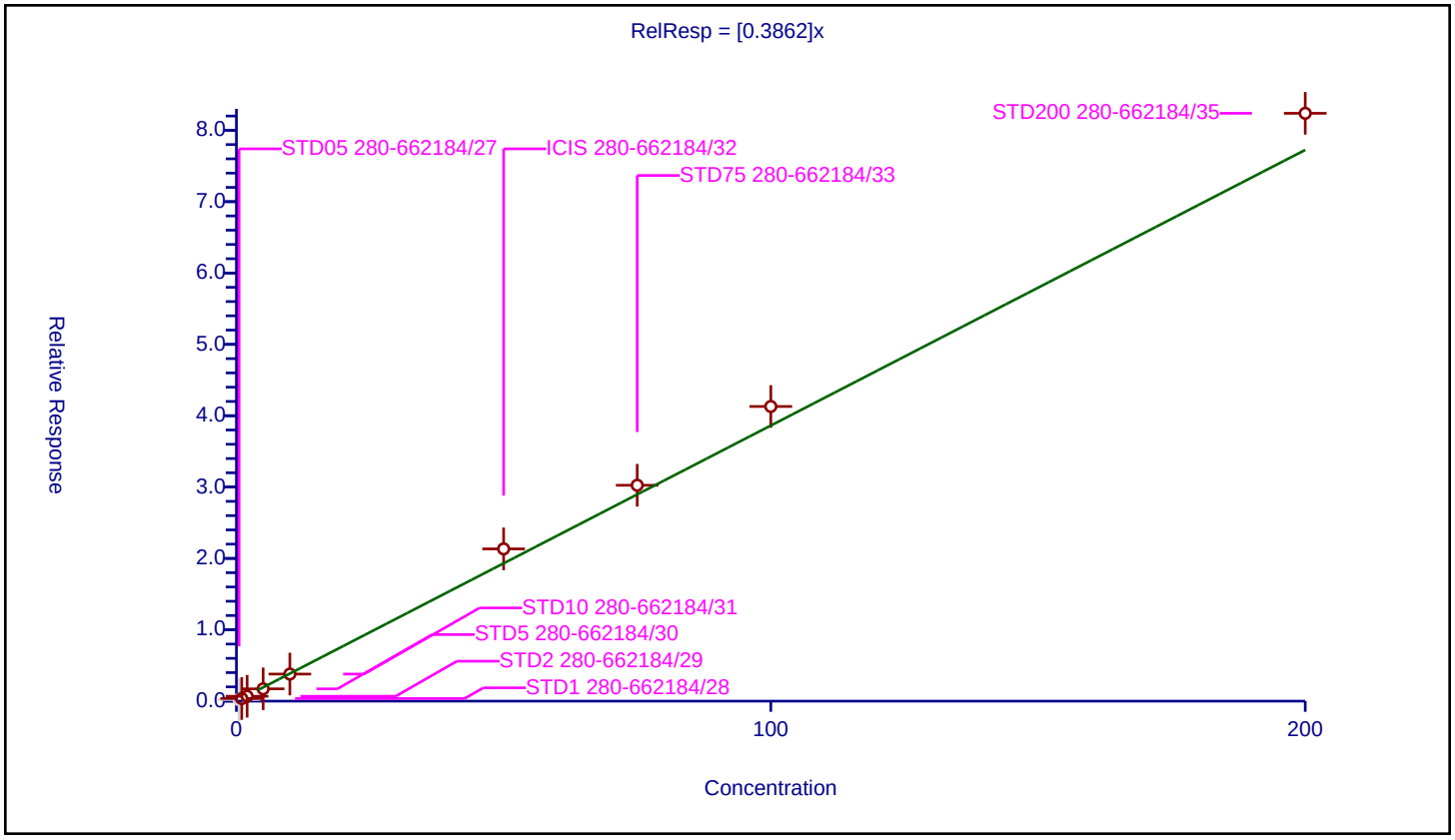
Curve Coefficients

Intercept:	0
Slope:	0.3862

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.219988	50.0	2118979.0	0.439976	N
2	STD1 280-662184/28	1.0	0.369203	50.0	2111172.0	0.369203	Y
3	STD2 280-662184/29	2.0	0.683431	50.0	2039562.0	0.341716	Y
4	STD5 280-662184/30	5.0	1.7231	50.0	2083715.0	0.34462	Y
5	STD10 280-662184/31	10.0	3.794321	50.0	2066114.0	0.379432	Y
6	ICIS 280-662184/32	50.0	21.339082	50.0	2185490.0	0.426782	Y
7	STD75 280-662184/33	75.0	30.253472	50.0	2139447.0	0.40338	Y
8	STD100 280-662184/34	100.0	41.294605	50.0	2300786.0	0.412946	Y
9	STD200 280-662184/35	200.0	82.380271	50.0	2440449.0	0.411901	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

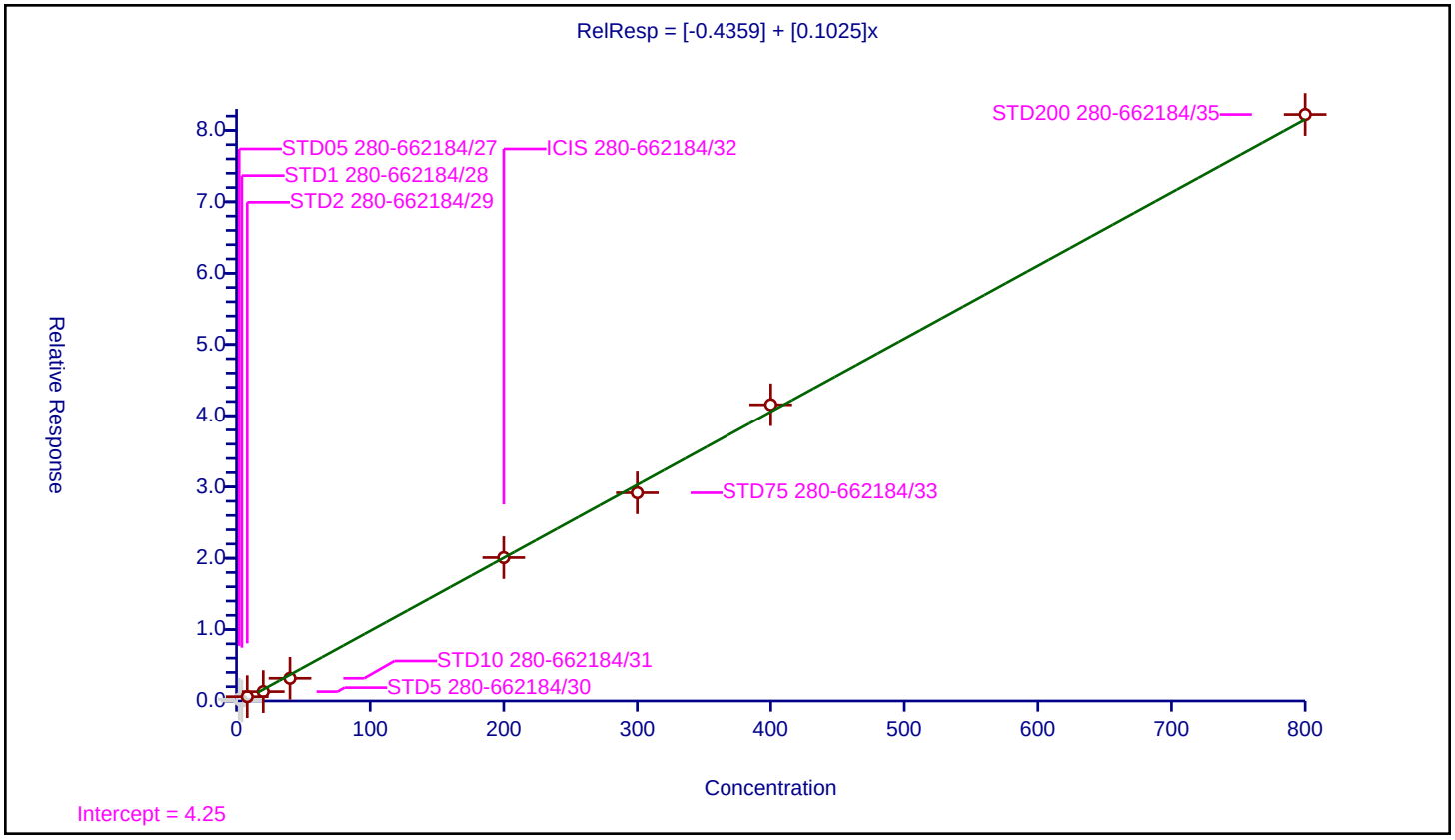
Curve Coefficients

Intercept:	-0.4359
Slope:	0.1025

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	2.0	0.244599	50.0	2118979.0	0.122299	N
2	STD1 280-662184/28	4.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	8.0	0.603365	50.0	2039562.0	0.075421	Y
4	STD5 280-662184/30	20.0	1.312847	50.0	2083715.0	0.065642	Y
5	STD10 280-662184/31	40.0	3.17935	50.0	2066114.0	0.079484	Y
6	ICIS 280-662184/32	200.0	20.09348	50.0	2185490.0	0.100467	Y
7	STD75 280-662184/33	300.0	29.187963	50.0	2139447.0	0.097293	Y
8	STD100 280-662184/34	400.0	41.544194	50.0	2300786.0	0.10386	Y
9	STD200 280-662184/35	800.0	82.218723	50.0	2440449.0	0.102773	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

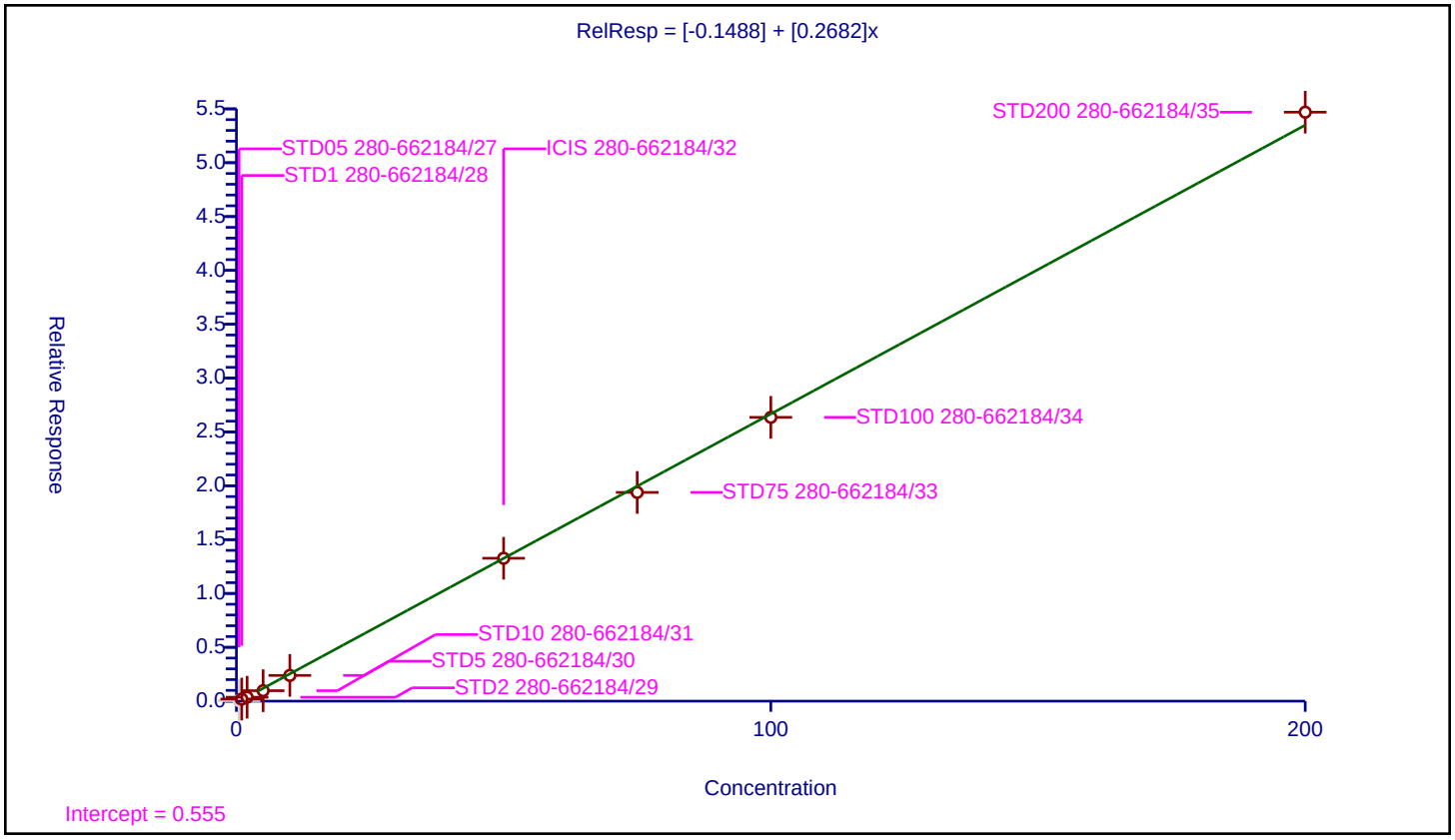
Curve Coefficients

Intercept:	-0.1488
Slope:	0.2682

Error Coefficients

Relative Standard Deviation:	13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.046154	50.0	2118979.0	0.092309	N
2	STD1 280-662184/28	1.0	0.193518	50.0	2111172.0	0.193518	Y
3	STD2 280-662184/29	2.0	0.366034	50.0	2039562.0	0.183017	Y
4	STD5 280-662184/30	5.0	0.971438	50.0	2083715.0	0.194288	Y
5	STD10 280-662184/31	10.0	2.388203	50.0	2066114.0	0.23882	Y
6	ICIS 280-662184/32	50.0	13.268901	50.0	2185490.0	0.265378	Y
7	STD75 280-662184/33	75.0	19.382953	50.0	2139447.0	0.258439	Y
8	STD100 280-662184/34	100.0	26.355798	50.0	2300786.0	0.263558	Y
9	STD200 280-662184/35	200.0	54.693604	50.0	2440449.0	0.273468	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

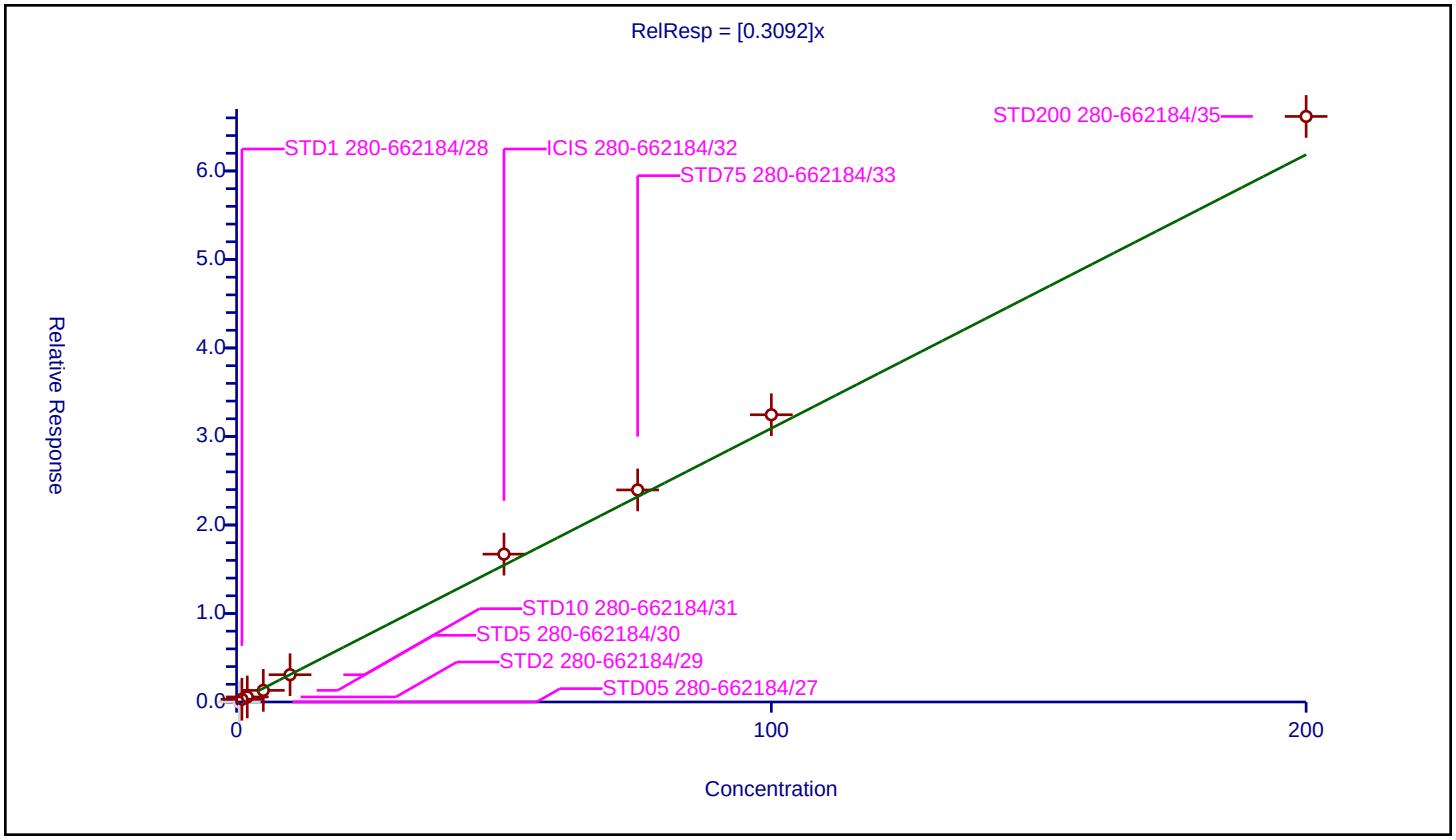
Curve Coefficients

Intercept:	0
Slope:	0.3092

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.309236	50.0	2111172.0	0.309236	Y
3	STD2 280-662184/29	2.0	0.57076	50.0	2039562.0	0.28538	Y
4	STD5 280-662184/30	5.0	1.310928	50.0	2083715.0	0.262186	Y
5	STD10 280-662184/31	10.0	3.08088	50.0	2066114.0	0.308088	Y
6	ICIS 280-662184/32	50.0	16.705155	50.0	2185490.0	0.334103	Y
7	STD75 280-662184/33	75.0	23.957546	50.0	2139447.0	0.319434	Y
8	STD100 280-662184/34	100.0	32.456408	50.0	2300786.0	0.324564	Y
9	STD200 280-662184/35	200.0	66.162907	50.0	2440449.0	0.330815	Y



Calibration / sec-Butyl Alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

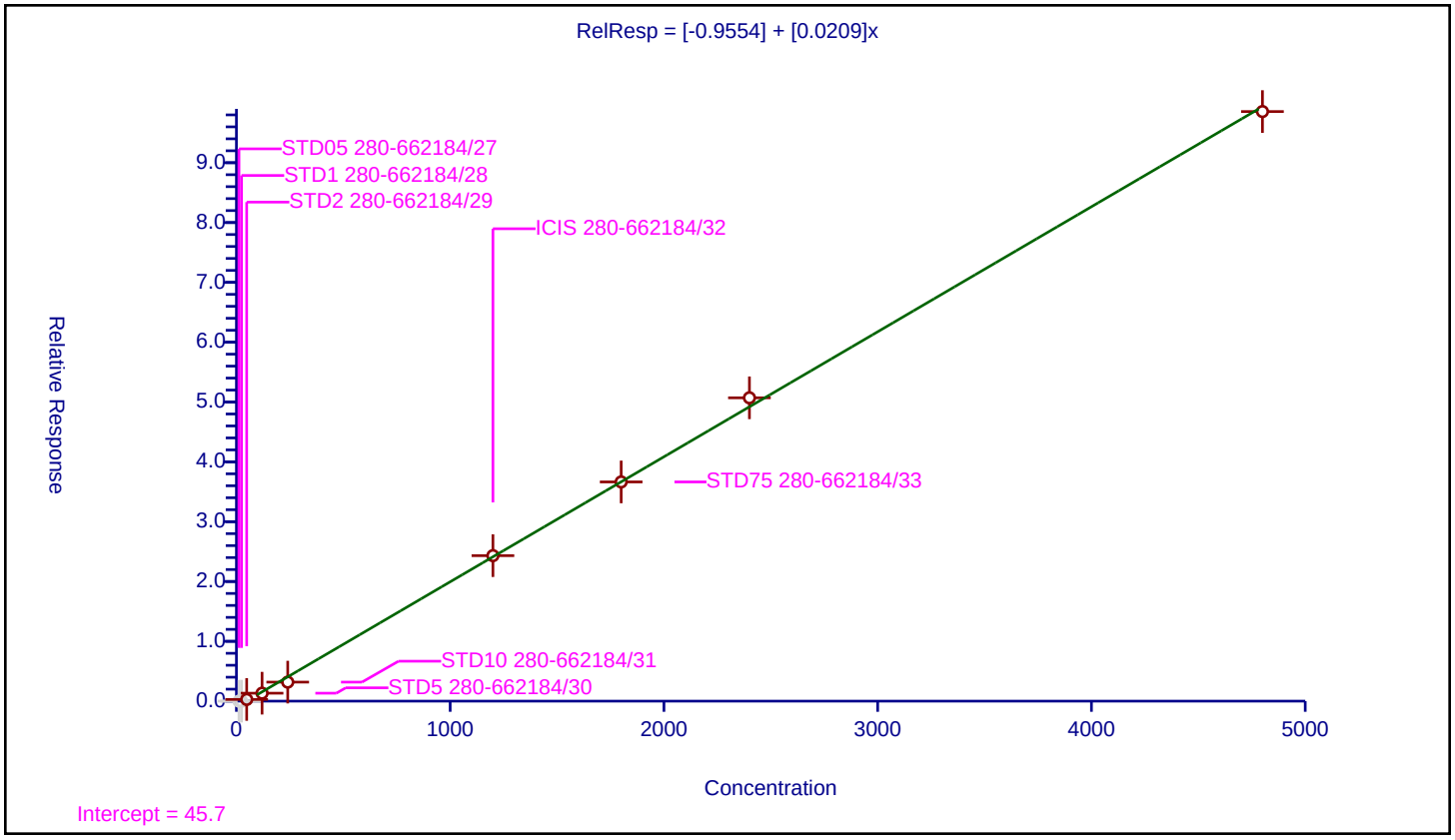
Curve Coefficients

Intercept:	-0.9554
Slope:	0.0209

Error Coefficients

Relative Standard Deviation:	13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	12.0	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	24.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	48.0	0.283615	50.0	2039562.0	0.005909	Y
4	STD5 280-662184/30	120.0	1.329308	50.0	2083715.0	0.011078	Y
5	STD10 280-662184/31	240.0	3.181746	50.0	2066114.0	0.013257	Y
6	ICIS 280-662184/32	1200.0	24.321754	50.0	2185490.0	0.020268	Y
7	STD75 280-662184/33	1800.0	36.644586	50.0	2139447.0	0.020358	Y
8	STD100 280-662184/34	2400.0	50.703194	50.0	2300786.0	0.021126	Y
9	STD200 280-662184/35	4800.0	98.555799	50.0	2440449.0	0.020532	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

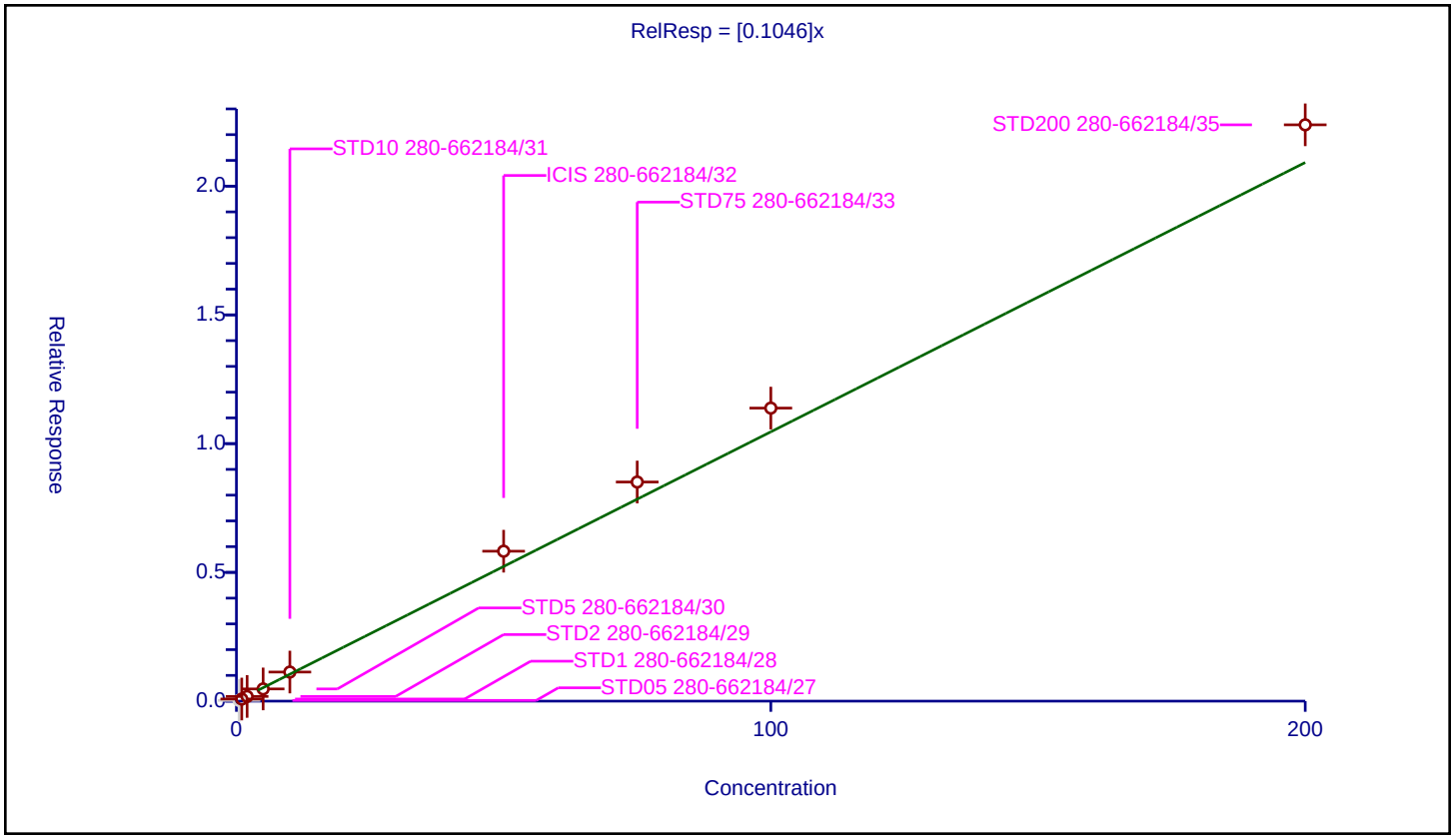
Curve Coefficients

Intercept:	0
Slope:	0.1046

Error Coefficients

Relative Standard Deviation:	12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.028434	50.0	2118979.0	0.056867	N
2	STD1 280-662184/28	1.0	0.082134	50.0	2111172.0	0.082134	Y
3	STD2 280-662184/29	2.0	0.18222	50.0	2039562.0	0.09111	Y
4	STD5 280-662184/30	5.0	0.474129	50.0	2083715.0	0.094826	Y
5	STD10 280-662184/31	10.0	1.130117	50.0	2066114.0	0.113012	Y
6	ICIS 280-662184/32	50.0	5.822447	50.0	2185490.0	0.116449	Y
7	STD75 280-662184/33	75.0	8.509699	50.0	2139447.0	0.113463	Y
8	STD100 280-662184/34	100.0	11.38035	50.0	2300786.0	0.113804	Y
9	STD200 280-662184/35	200.0	22.381045	50.0	2440449.0	0.111905	Y



Calibration / Tetrahydrofuran

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

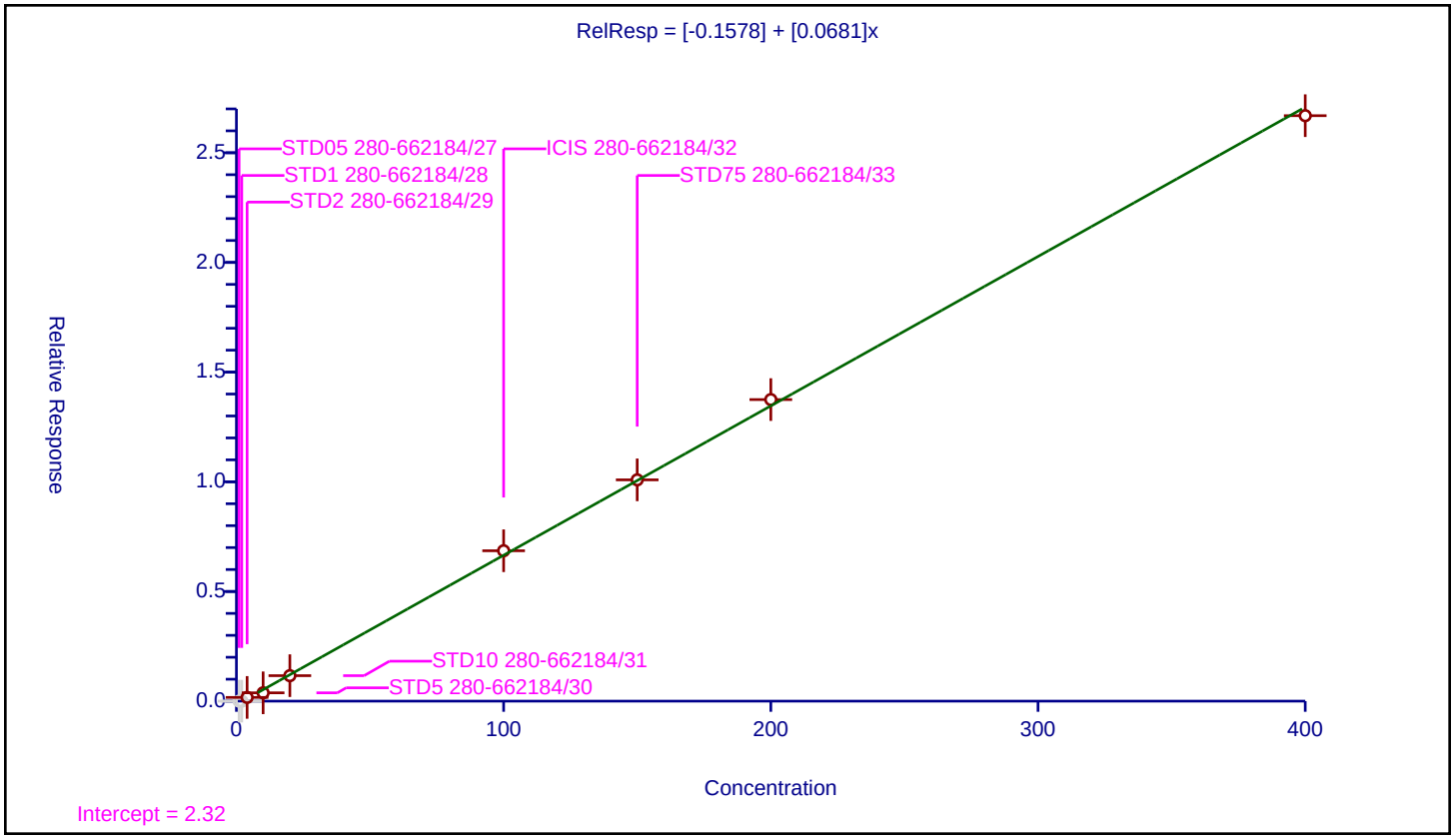
Curve Coefficients

Intercept:	-0.1578
Slope:	0.0681

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	1.0	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	2.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	4.0	0.169865	50.0	2039562.0	0.042466	Y
4	STD5 280-662184/30	10.0	0.379634	50.0	2083715.0	0.037963	Y
5	STD10 280-662184/31	20.0	1.160851	50.0	2066114.0	0.058043	Y
6	ICIS 280-662184/32	100.0	6.855991	50.0	2185490.0	0.06856	Y
7	STD75 280-662184/33	150.0	10.087911	50.0	2139447.0	0.067253	Y
8	STD100 280-662184/34	200.0	13.747693	50.0	2300786.0	0.068738	Y
9	STD200 280-662184/35	400.0	26.690724	50.0	2440449.0	0.066727	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

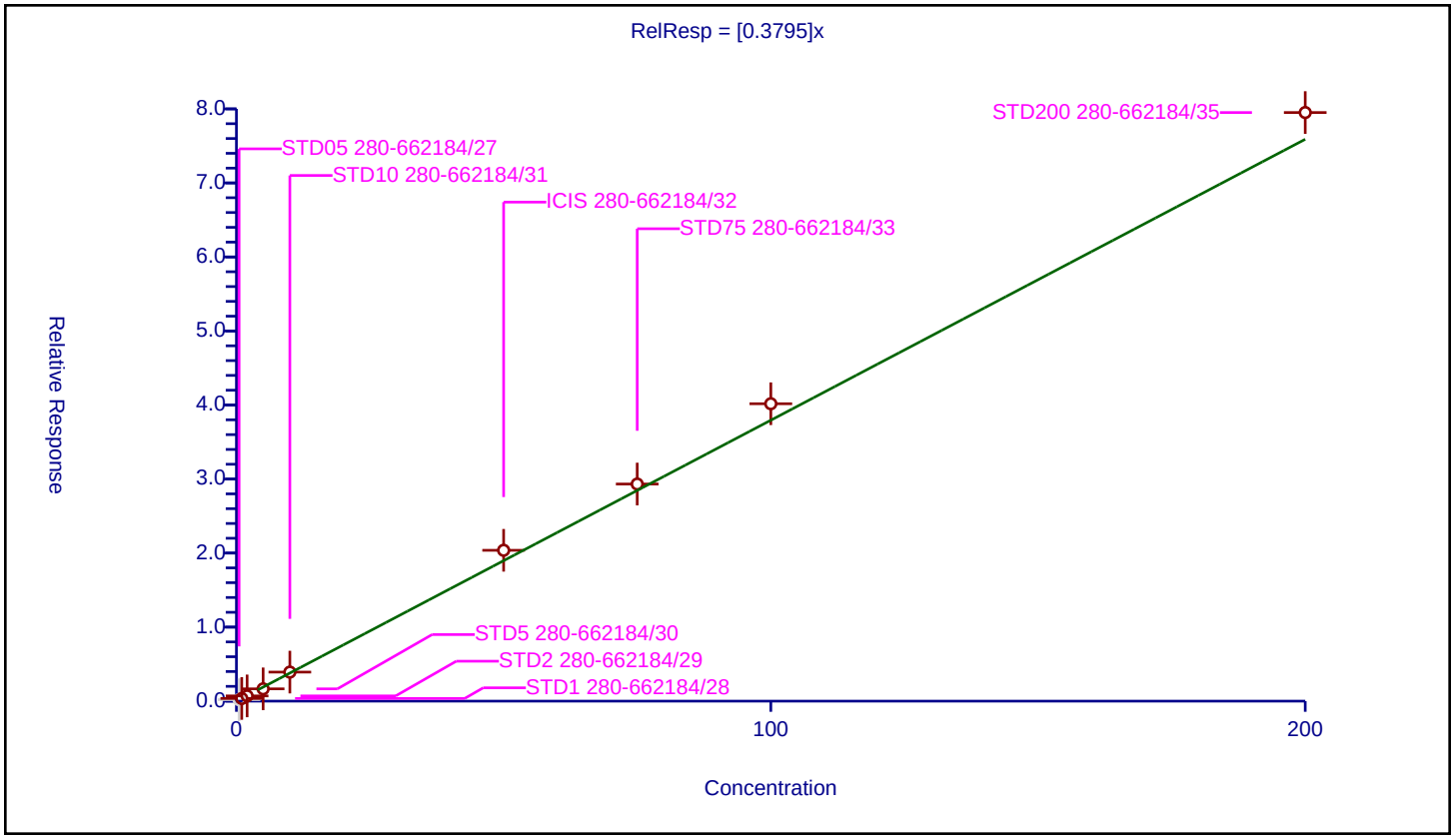
Curve Coefficients

Intercept:	0
Slope:	0.3795

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.198869	50.0	2118979.0	0.397739	N
2	STD1 280-662184/28	1.0	0.360132	50.0	2111172.0	0.360132	Y
3	STD2 280-662184/29	2.0	0.707309	50.0	2039562.0	0.353654	Y
4	STD5 280-662184/30	5.0	1.65932	50.0	2083715.0	0.331864	Y
5	STD10 280-662184/31	10.0	3.923065	50.0	2066114.0	0.392307	Y
6	ICIS 280-662184/32	50.0	20.375797	50.0	2185490.0	0.407516	Y
7	STD75 280-662184/33	75.0	29.325078	50.0	2139447.0	0.391001	Y
8	STD100 280-662184/34	100.0	40.172054	50.0	2300786.0	0.401721	Y
9	STD200 280-662184/35	200.0	79.507378	50.0	2440449.0	0.397537	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

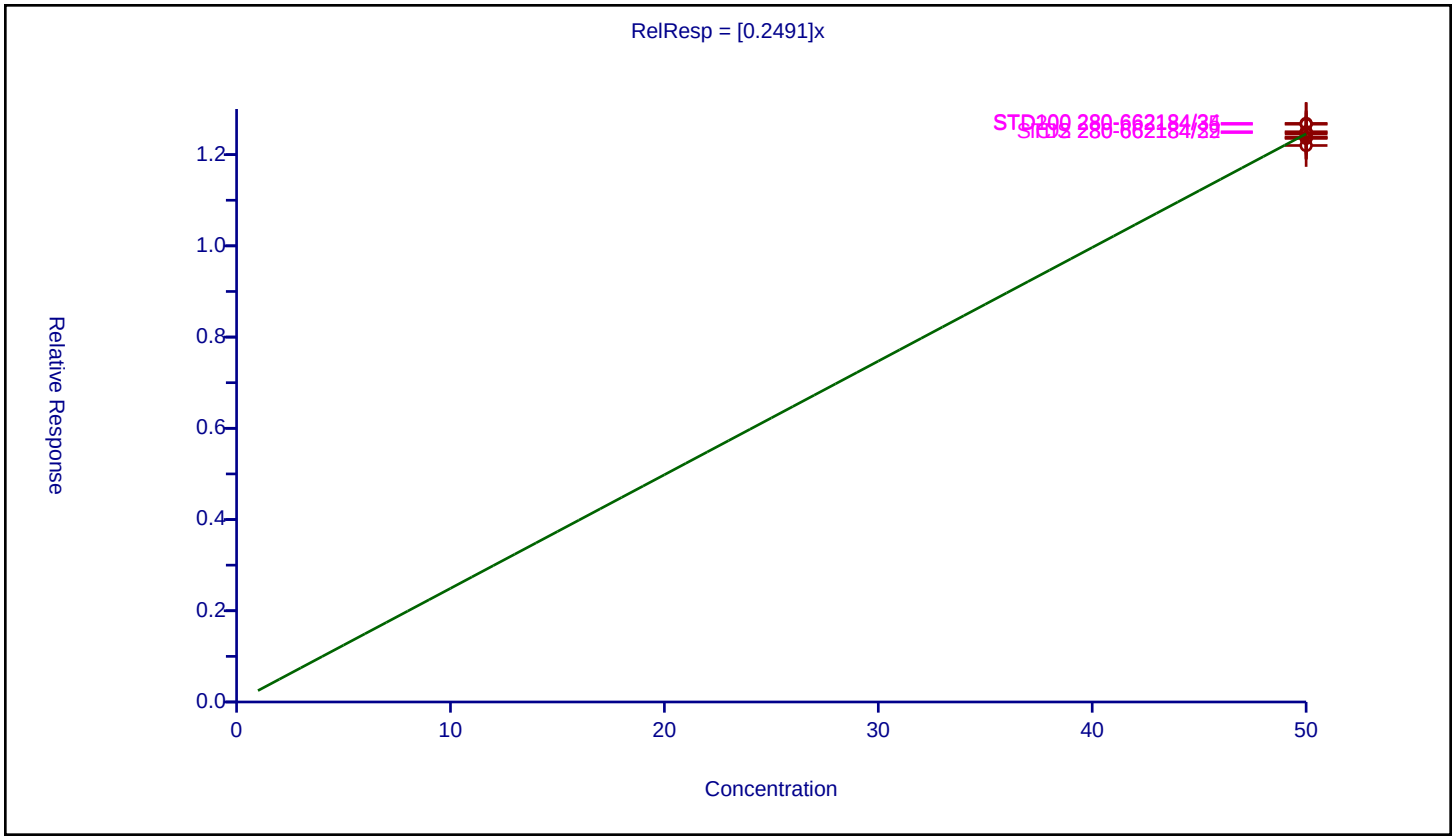
Curve Coefficients

Intercept:	0
Slope:	0.2491

Error Coefficients

Relative Standard Deviation:	1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	50.0	12.381505	50.0	2118979.0	0.24763	Y
2	STD1 280-662184/28	50.0	12.451141	50.0	2111172.0	0.249023	Y
3	STD2 280-662184/29	50.0	12.483759	50.0	2039562.0	0.249675	Y
4	STD5 280-662184/30	50.0	12.200325	50.0	2083715.0	0.244006	Y
5	STD10 280-662184/31	50.0	12.372889	50.0	2066114.0	0.247458	Y
6	ICIS 280-662184/32	50.0	12.501704	50.0	2185490.0	0.250034	Y
7	STD75 280-662184/33	50.0	12.355015	50.0	2139447.0	0.2471	Y
8	STD100 280-662184/34	50.0	12.684296	50.0	2300786.0	0.253686	Y
9	STD200 280-662184/35	50.0	12.667239	50.0	2440449.0	0.253345	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

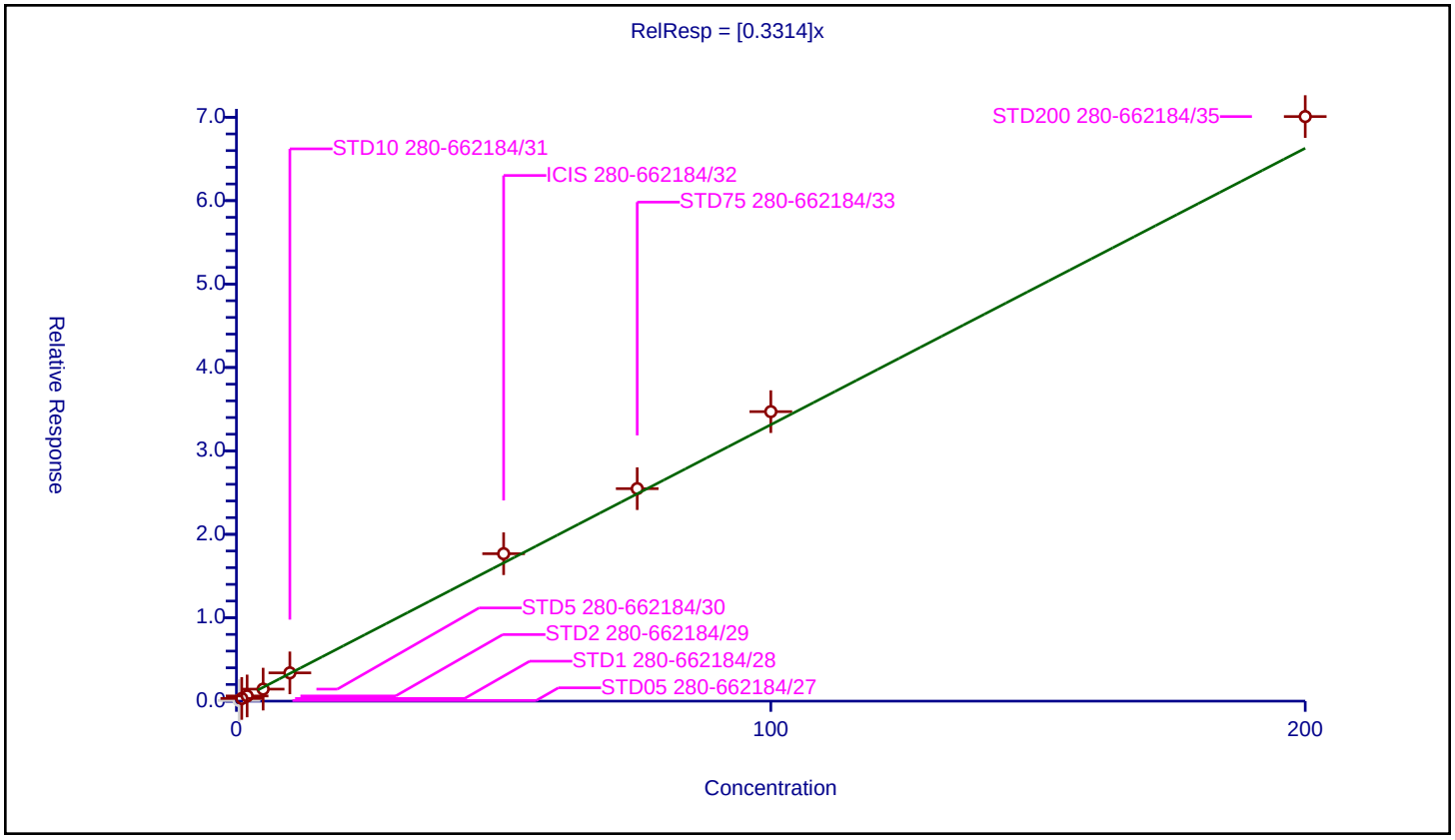
Curve Coefficients

Intercept:	0
Slope:	0.3314

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.078434	50.0	2118979.0	0.156868	N
2	STD1 280-662184/28	1.0	0.322428	50.0	2111172.0	0.322428	Y
3	STD2 280-662184/29	2.0	0.62207	50.0	2039562.0	0.311035	Y
4	STD5 280-662184/30	5.0	1.442424	50.0	2083715.0	0.288485	Y
5	STD10 280-662184/31	10.0	3.38793	50.0	2066114.0	0.338793	Y
6	ICIS 280-662184/32	50.0	17.673176	50.0	2185490.0	0.353464	Y
7	STD75 280-662184/33	75.0	25.476396	50.0	2139447.0	0.339685	Y
8	STD100 280-662184/34	100.0	34.706574	50.0	2300786.0	0.347066	Y
9	STD200 280-662184/35	200.0	70.079932	50.0	2440449.0	0.3504	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

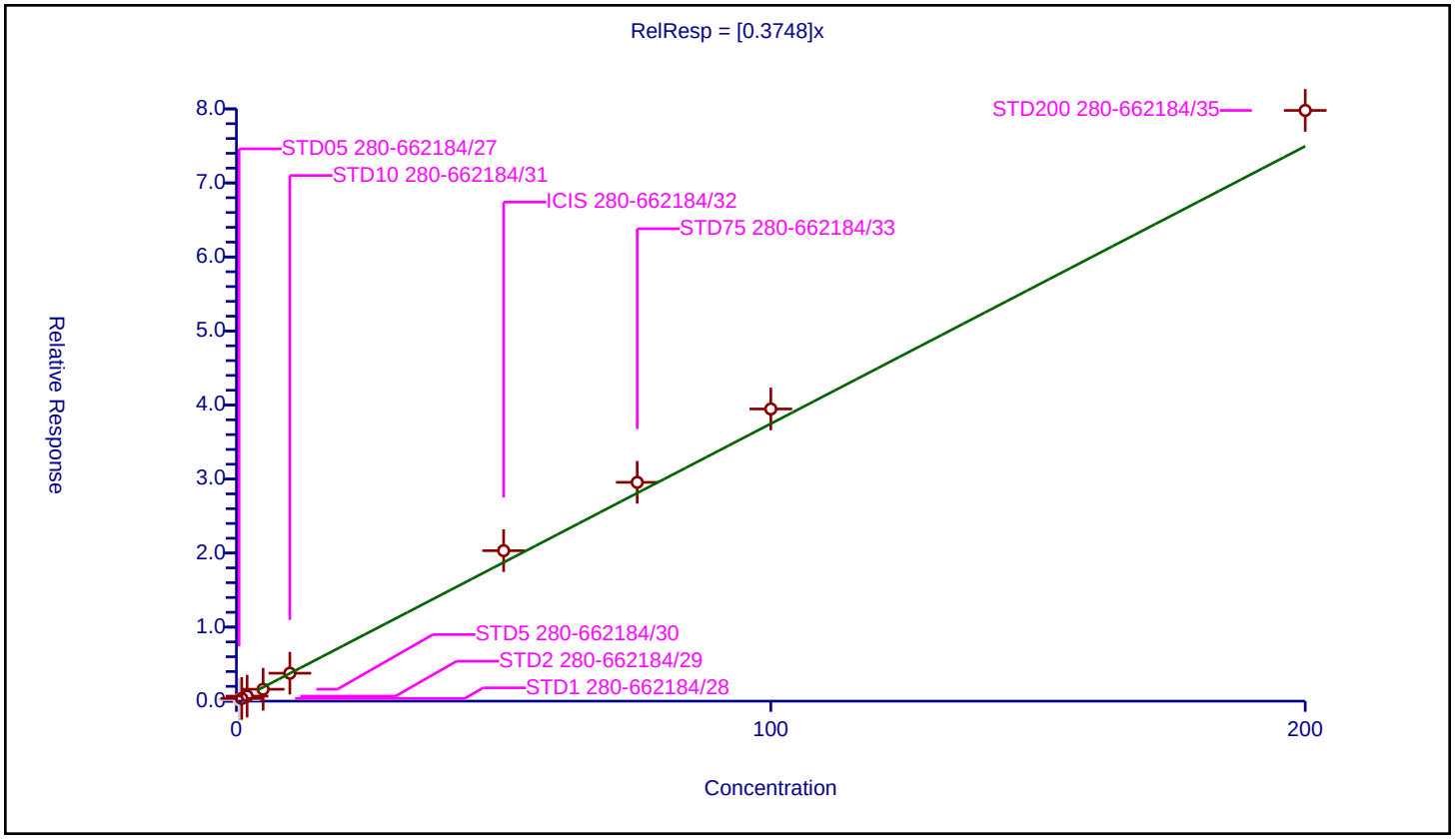
Curve Coefficients

Intercept:	0
Slope:	0.3748

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.202173	50.0	2118979.0	0.404346	N
2	STD1 280-662184/28	1.0	0.364442	50.0	2111172.0	0.364442	Y
3	STD2 280-662184/29	2.0	0.681887	50.0	2039562.0	0.340943	Y
4	STD5 280-662184/30	5.0	1.60713	50.0	2083715.0	0.321426	Y
5	STD10 280-662184/31	10.0	3.77167	50.0	2066114.0	0.377167	Y
6	ICIS 280-662184/32	50.0	20.324046	50.0	2185490.0	0.406481	Y
7	STD75 280-662184/33	75.0	29.556259	50.0	2139447.0	0.394083	Y
8	STD100 280-662184/34	100.0	39.469577	50.0	2300786.0	0.394696	Y
9	STD200 280-662184/35	200.0	79.793104	50.0	2440449.0	0.398966	Y



Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

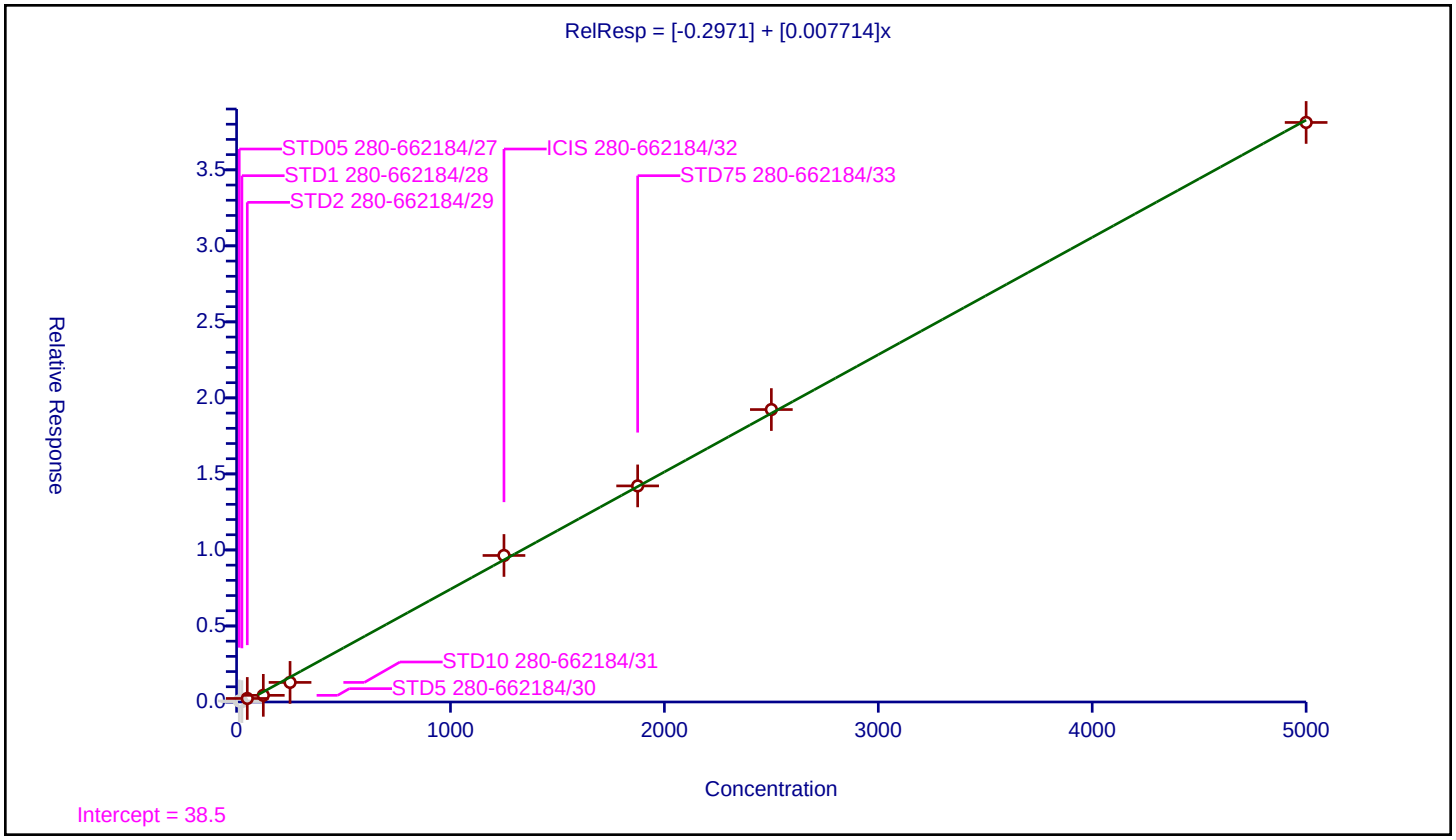
Curve Coefficients

Intercept:	-0.2971
Slope:	0.007714

Error Coefficients

Relative Standard Deviation:	21.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	12.5	0.06673	50.0	2118979.0	0.005338	N
2	STD1 280-662184/28	25.0	0.025152	50.0	2111172.0	0.001006	N
3	STD2 280-662184/29	50.0	0.232354	50.0	2039562.0	0.004647	Y
4	STD5 280-662184/30	125.0	0.438256	50.0	2083715.0	0.003506	Y
5	STD10 280-662184/31	250.0	1.289038	50.0	2066114.0	0.005156	Y
6	ICIS 280-662184/32	1250.0	9.637175	50.0	2185490.0	0.00771	Y
7	STD75 280-662184/33	1875.0	14.212738	50.0	2139447.0	0.00758	Y
8	STD100 280-662184/34	2500.0	19.234601	50.0	2300786.0	0.007694	Y
9	STD200 280-662184/35	5000.0	38.115691	50.0	2440449.0	0.007623	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

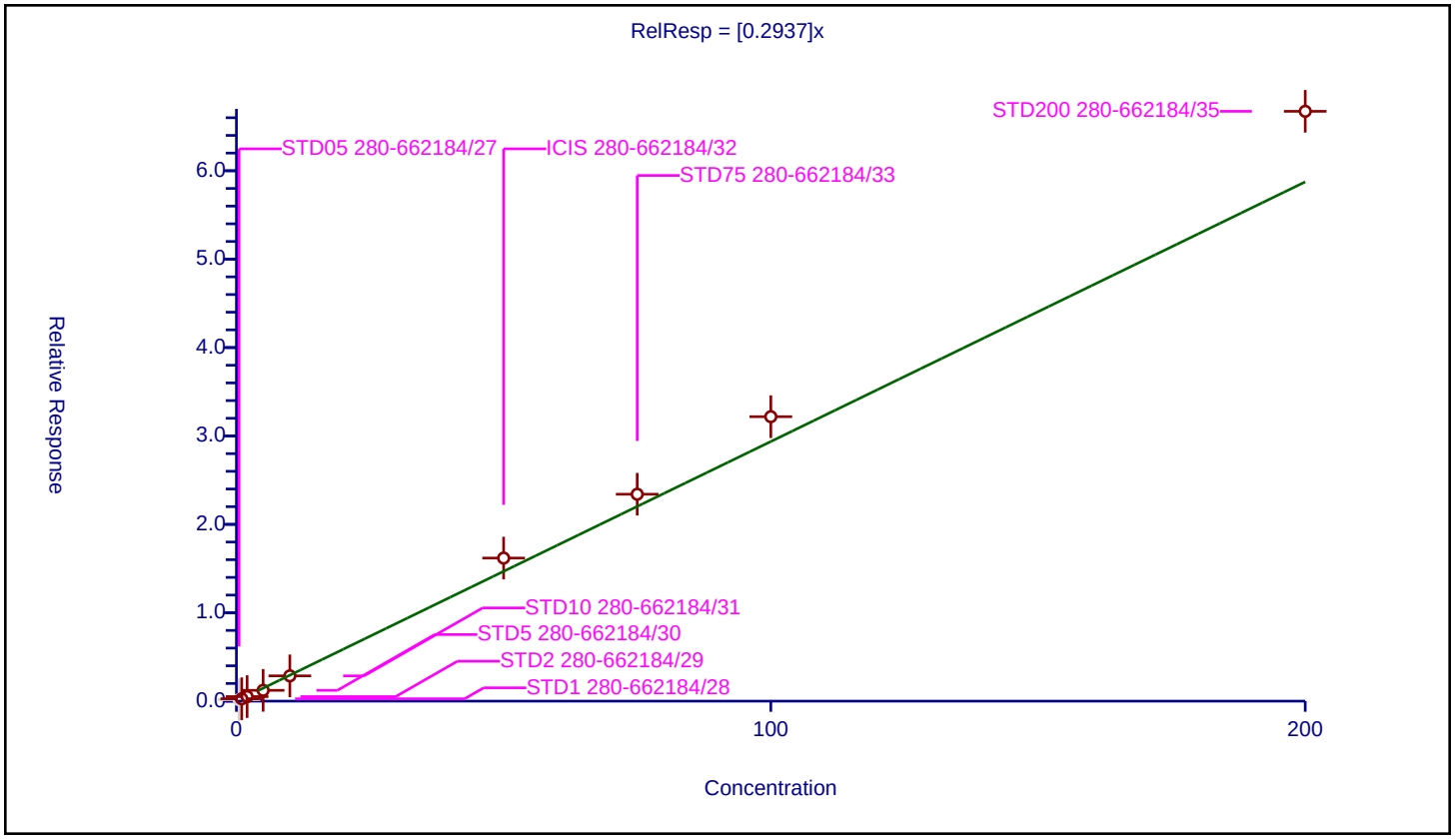
Curve Coefficients

Intercept:	0
Slope:	0.2937

Error Coefficients

Relative Standard Deviation:	11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.164655	50.0	2118979.0	0.32931	N
2	STD1 280-662184/28	1.0	0.271034	50.0	2111172.0	0.271034	Y
3	STD2 280-662184/29	2.0	0.51386	50.0	2039562.0	0.25693	Y
4	STD5 280-662184/30	5.0	1.221232	50.0	2083715.0	0.244246	Y
5	STD10 280-662184/31	10.0	2.861894	50.0	2066114.0	0.286189	Y
6	ICIS 280-662184/32	50.0	16.183533	50.0	2185490.0	0.323671	Y
7	STD75 280-662184/33	75.0	23.407731	50.0	2139447.0	0.312103	Y
8	STD100 280-662184/34	100.0	32.18198	50.0	2300786.0	0.32182	Y
9	STD200 280-662184/35	200.0	66.726717	50.0	2440449.0	0.333634	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

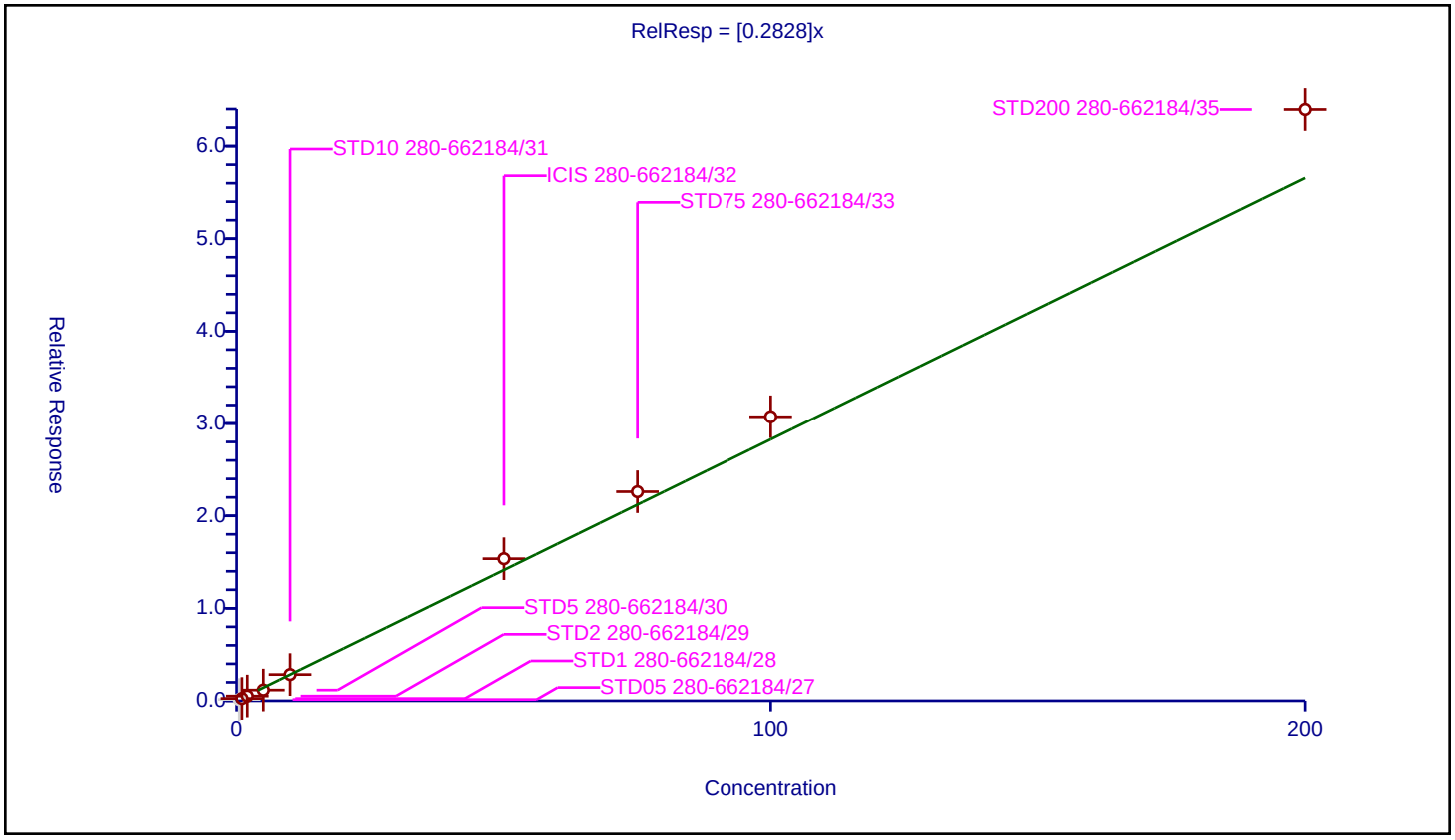
Curve Coefficients

Intercept:	0
Slope:	0.2828

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.140941	50.0	2118979.0	0.281881	N
2	STD1 280-662184/28	1.0	0.25178	50.0	2111172.0	0.25178	Y
3	STD2 280-662184/29	2.0	0.5169	50.0	2039562.0	0.25845	Y
4	STD5 280-662184/30	5.0	1.163019	50.0	2083715.0	0.232604	Y
5	STD10 280-662184/31	10.0	2.839945	50.0	2066114.0	0.283994	Y
6	ICIS 280-662184/32	50.0	15.360743	50.0	2185490.0	0.307215	Y
7	STD75 280-662184/33	75.0	22.61318	50.0	2139447.0	0.301509	Y
8	STD100 280-662184/34	100.0	30.732976	50.0	2300786.0	0.30733	Y
9	STD200 280-662184/35	200.0	63.949626	50.0	2440449.0	0.319748	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

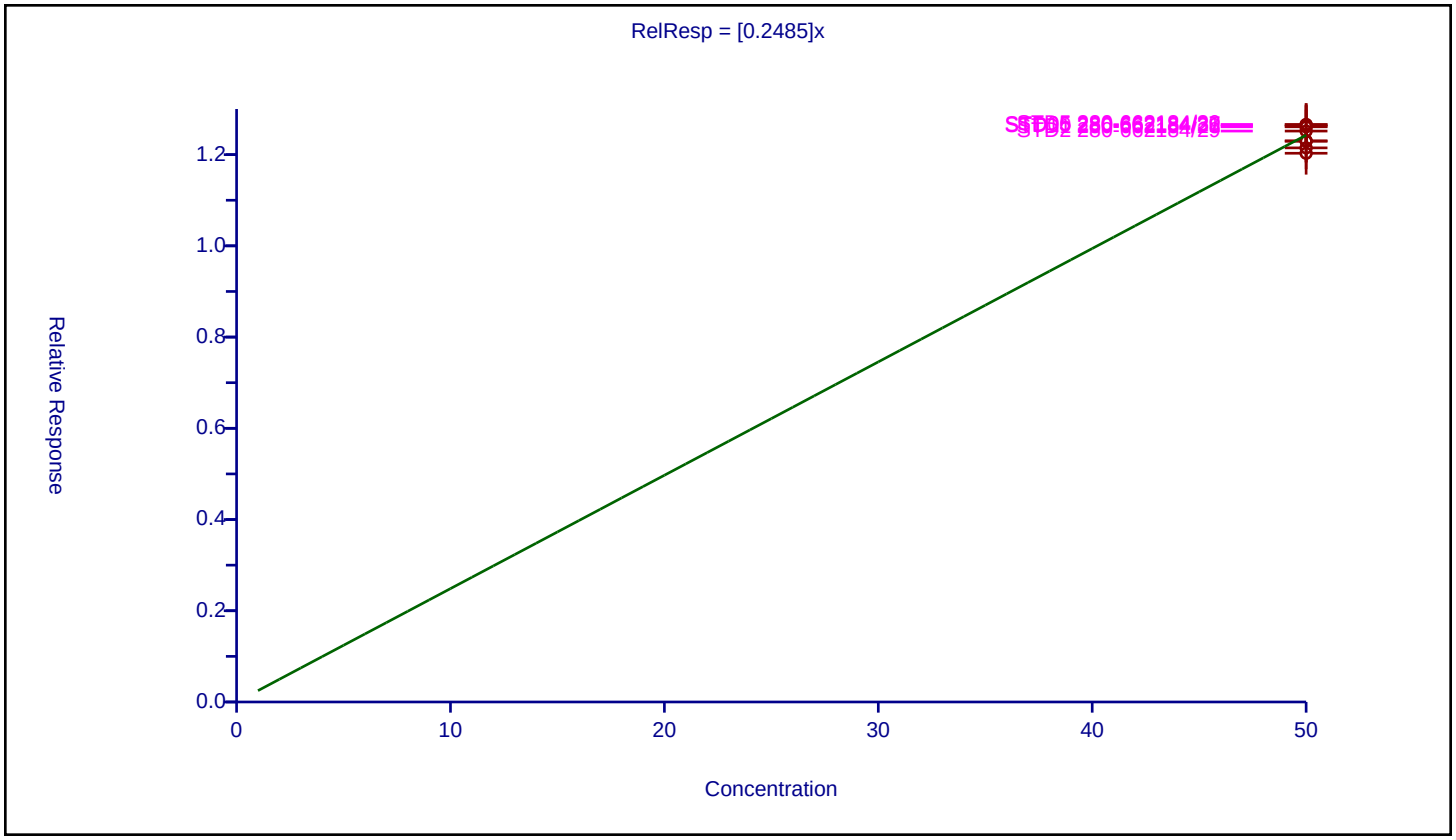
Curve Coefficients

Intercept:	0
Slope:	0.2485

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	50.0	12.656378	50.0	2118979.0	0.253128	Y
2	STD1 280-662184/28	50.0	12.609892	50.0	2111172.0	0.252198	Y
3	STD2 280-662184/29	50.0	12.516486	50.0	2039562.0	0.25033	Y
4	STD5 280-662184/30	50.0	12.659001	50.0	2083715.0	0.25318	Y
5	STD10 280-662184/31	50.0	12.623698	50.0	2066114.0	0.252474	Y
6	ICIS 280-662184/32	50.0	12.292964	50.0	2185490.0	0.245859	Y
7	STD75 280-662184/33	50.0	12.030001	50.0	2139447.0	0.2406	Y
8	STD100 280-662184/34	50.0	12.302861	50.0	2300786.0	0.246057	Y
9	STD200 280-662184/35	50.0	12.148113	50.0	2440449.0	0.242962	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

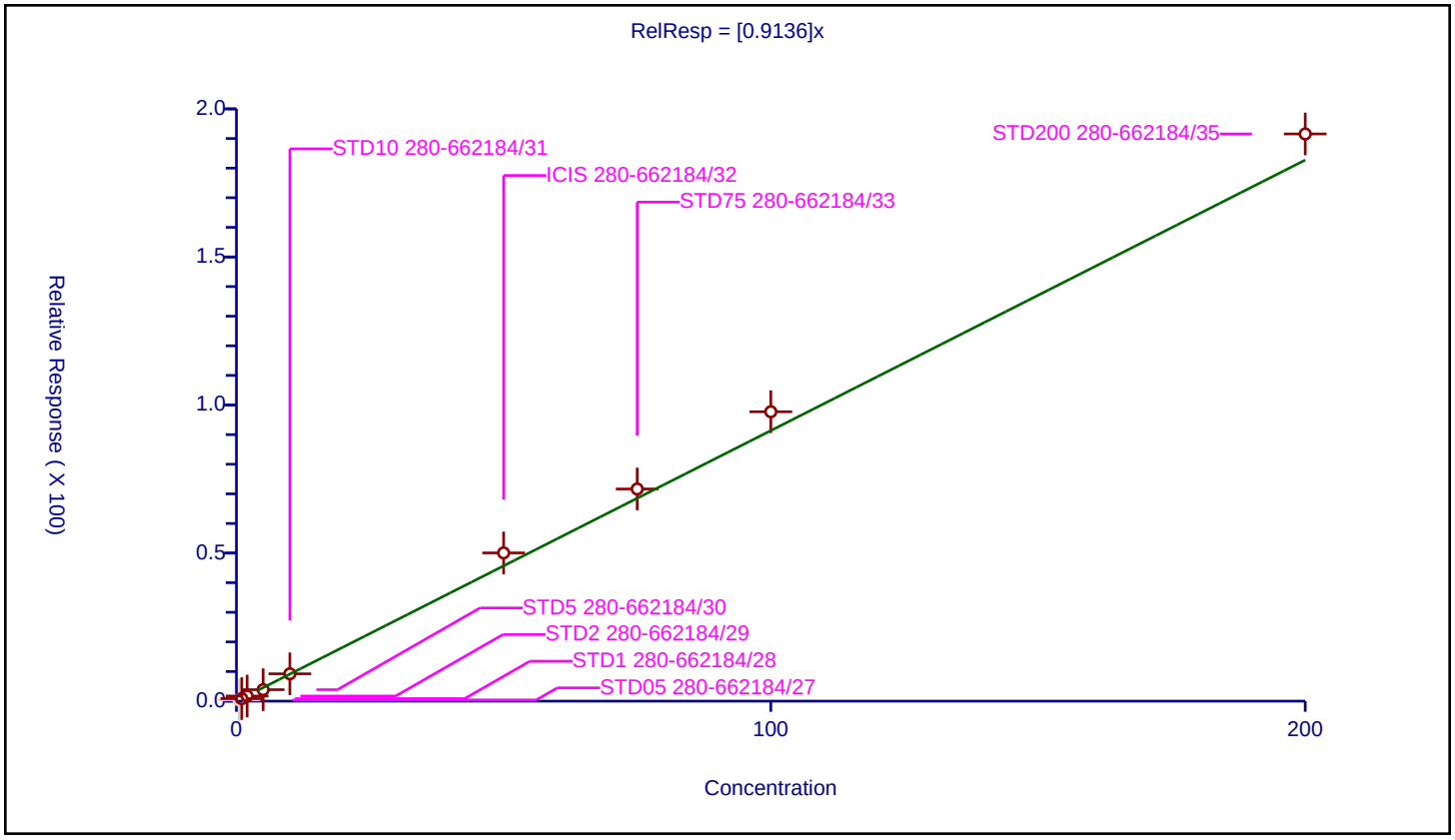
Curve Coefficients

Intercept:	0
Slope:	0.9136

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.404936	50.0	2118979.0	0.809871	N
2	STD1 280-662184/28	1.0	0.857296	50.0	2111172.0	0.857296	Y
3	STD2 280-662184/29	2.0	1.725174	50.0	2039562.0	0.862587	Y
4	STD5 280-662184/30	5.0	3.871187	50.0	2083715.0	0.774237	Y
5	STD10 280-662184/31	10.0	9.236857	50.0	2066114.0	0.923686	Y
6	ICIS 280-662184/32	50.0	50.054381	50.0	2185490.0	1.001088	Y
7	STD75 280-662184/33	75.0	71.643654	50.0	2139447.0	0.955249	Y
8	STD100 280-662184/34	100.0	97.724864	50.0	2300786.0	0.977249	Y
9	STD200 280-662184/35	200.0	191.533505	50.0	2440449.0	0.957668	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

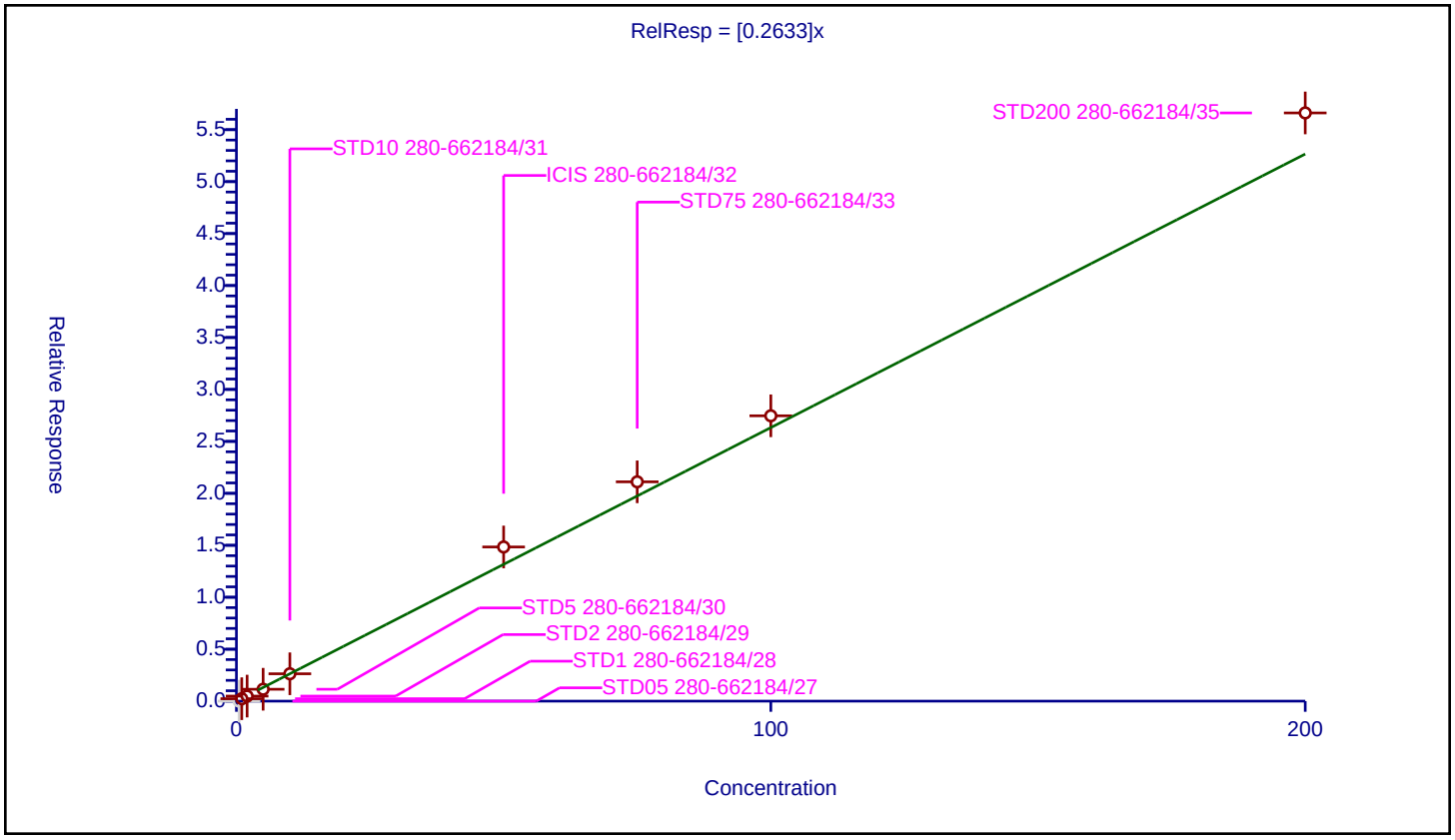
Curve Coefficients

Intercept:	0
Slope:	0.2633

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.235059	50.0	2111172.0	0.235059	Y
3	STD2 280-662184/29	2.0	0.485742	50.0	2039562.0	0.242871	Y
4	STD5 280-662184/30	5.0	1.14495	50.0	2083715.0	0.22899	Y
5	STD10 280-662184/31	10.0	2.63468	50.0	2066114.0	0.263468	Y
6	ICIS 280-662184/32	50.0	14.836764	50.0	2185490.0	0.296735	Y
7	STD75 280-662184/33	75.0	21.109006	50.0	2139447.0	0.281453	Y
8	STD100 280-662184/34	100.0	27.461268	50.0	2300786.0	0.274613	Y
9	STD200 280-662184/35	200.0	56.610935	50.0	2440449.0	0.283055	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

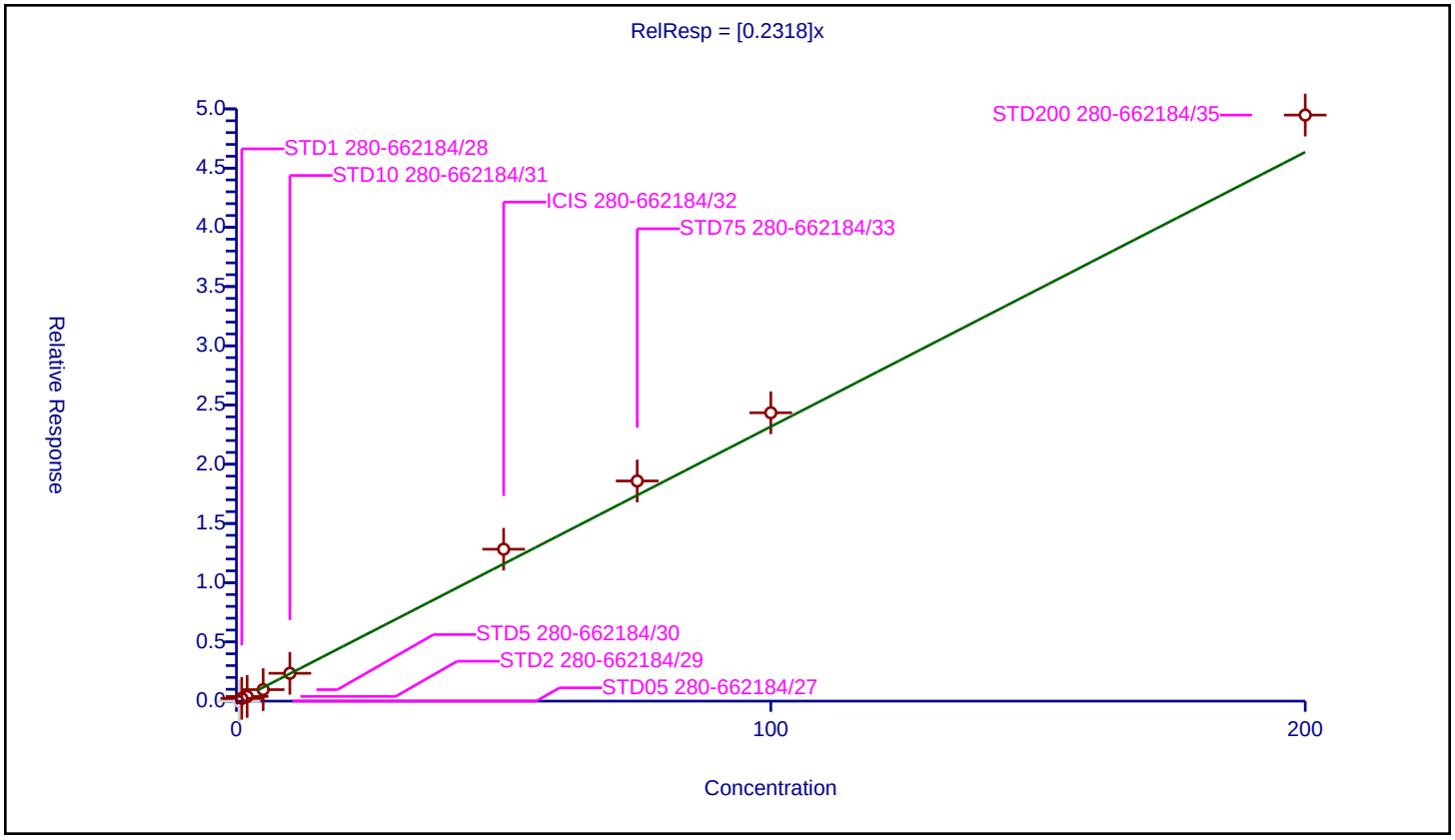
Curve Coefficients

Intercept:	0
Slope:	0.2318

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.231791	50.0	2111172.0	0.231791	Y
3	STD2 280-662184/29	2.0	0.395575	50.0	2039562.0	0.197788	Y
4	STD5 280-662184/30	5.0	0.97115	50.0	2083715.0	0.19423	Y
5	STD10 280-662184/31	10.0	2.350282	50.0	2066114.0	0.235028	Y
6	ICIS 280-662184/32	50.0	12.826368	50.0	2185490.0	0.256527	Y
7	STD75 280-662184/33	75.0	18.588121	50.0	2139447.0	0.247842	Y
8	STD100 280-662184/34	100.0	24.347006	50.0	2300786.0	0.24347	Y
9	STD200 280-662184/35	200.0	49.480342	50.0	2440449.0	0.247402	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

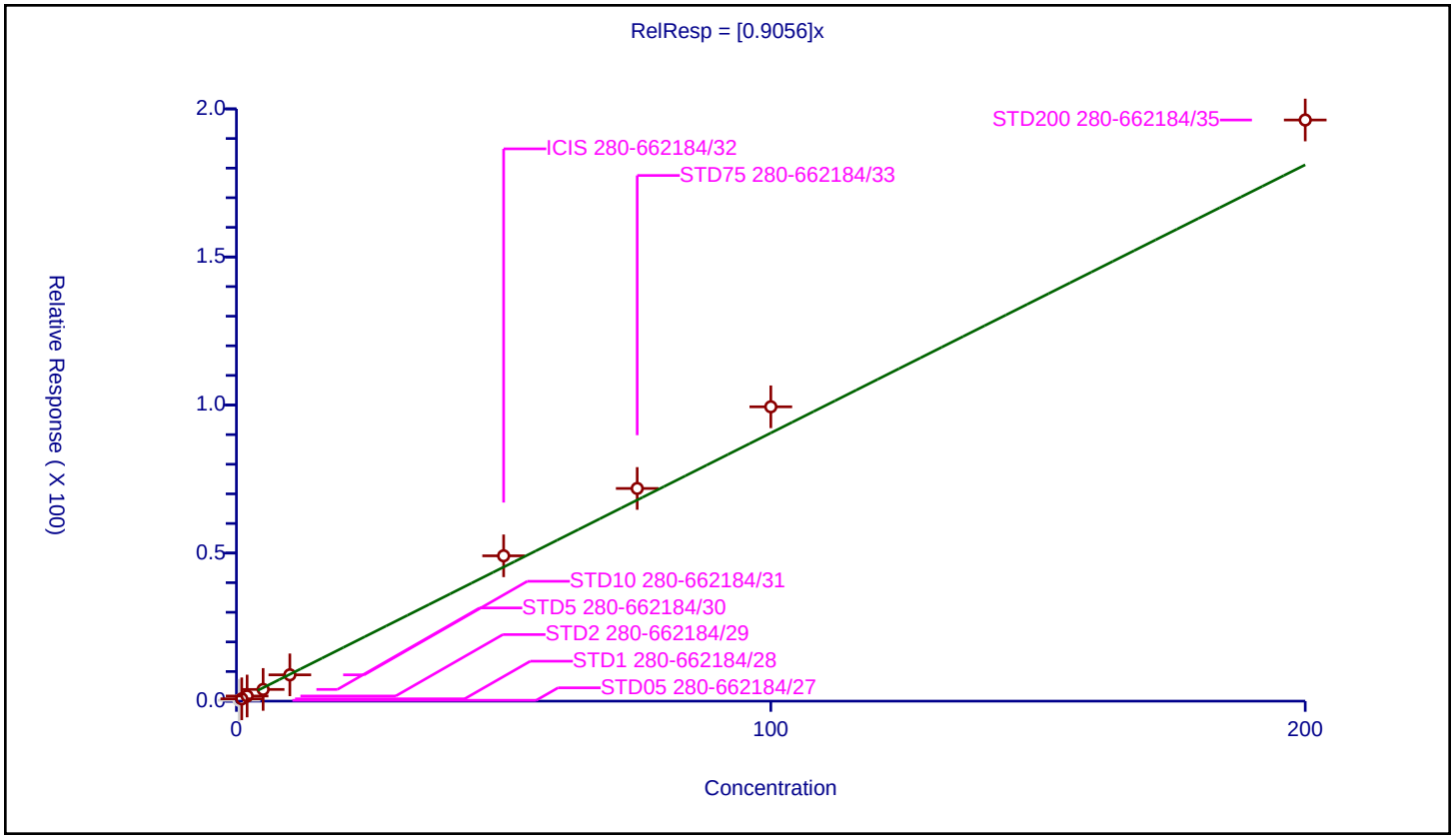
Curve Coefficients

Intercept:	0
Slope:	0.9056

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.291793	50.0	512179.0	0.583585	N
2	STD1 280-662184/28	1.0	0.784583	50.0	503962.0	0.784583	Y
3	STD2 280-662184/29	2.0	1.734253	50.0	484272.0	0.867126	Y
4	STD5 280-662184/30	5.0	3.951423	50.0	498795.0	0.790285	Y
5	STD10 280-662184/31	10.0	8.88387	50.0	504583.0	0.888387	Y
6	ICIS 280-662184/32	50.0	49.074336	50.0	539883.0	0.981487	Y
7	STD75 280-662184/33	75.0	71.82311	50.0	531471.0	0.957641	Y
8	STD100 280-662184/34	100.0	99.402343	50.0	572904.0	0.994023	Y
9	STD200 280-662184/35	200.0	196.24882	50.0	630295.0	0.981244	Y



Calibration / 2-Pentanone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

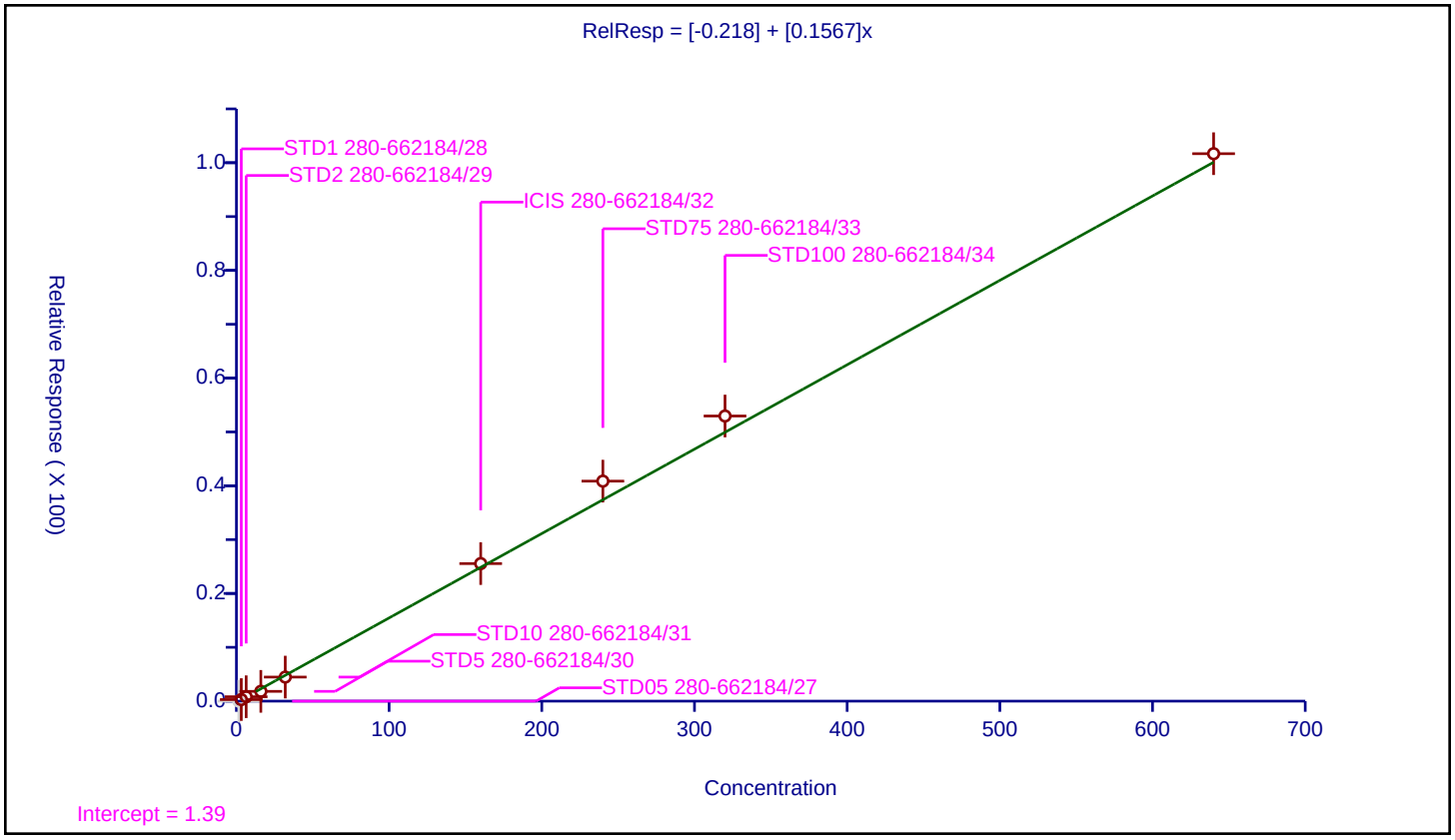
Curve Coefficients

Intercept:	-0.218
Slope:	0.1567

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	1.6	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	3.2	0.29647	50.0	2111172.0	0.092647	Y
3	STD2 280-662184/29	6.4	0.816867	50.0	2039562.0	0.127635	Y
4	STD5 280-662184/30	16.0	1.819251	50.0	2083715.0	0.113703	Y
5	STD10 280-662184/31	32.0	4.468534	50.0	2066114.0	0.139642	Y
6	ICIS 280-662184/32	160.0	25.546193	50.0	2185490.0	0.159664	Y
7	STD75 280-662184/33	240.0	40.862428	50.0	2139447.0	0.17026	Y
8	STD100 280-662184/34	320.0	52.959923	50.0	2300786.0	0.1655	Y
9	STD200 280-662184/35	640.0	101.681023	50.0	2440449.0	0.158877	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

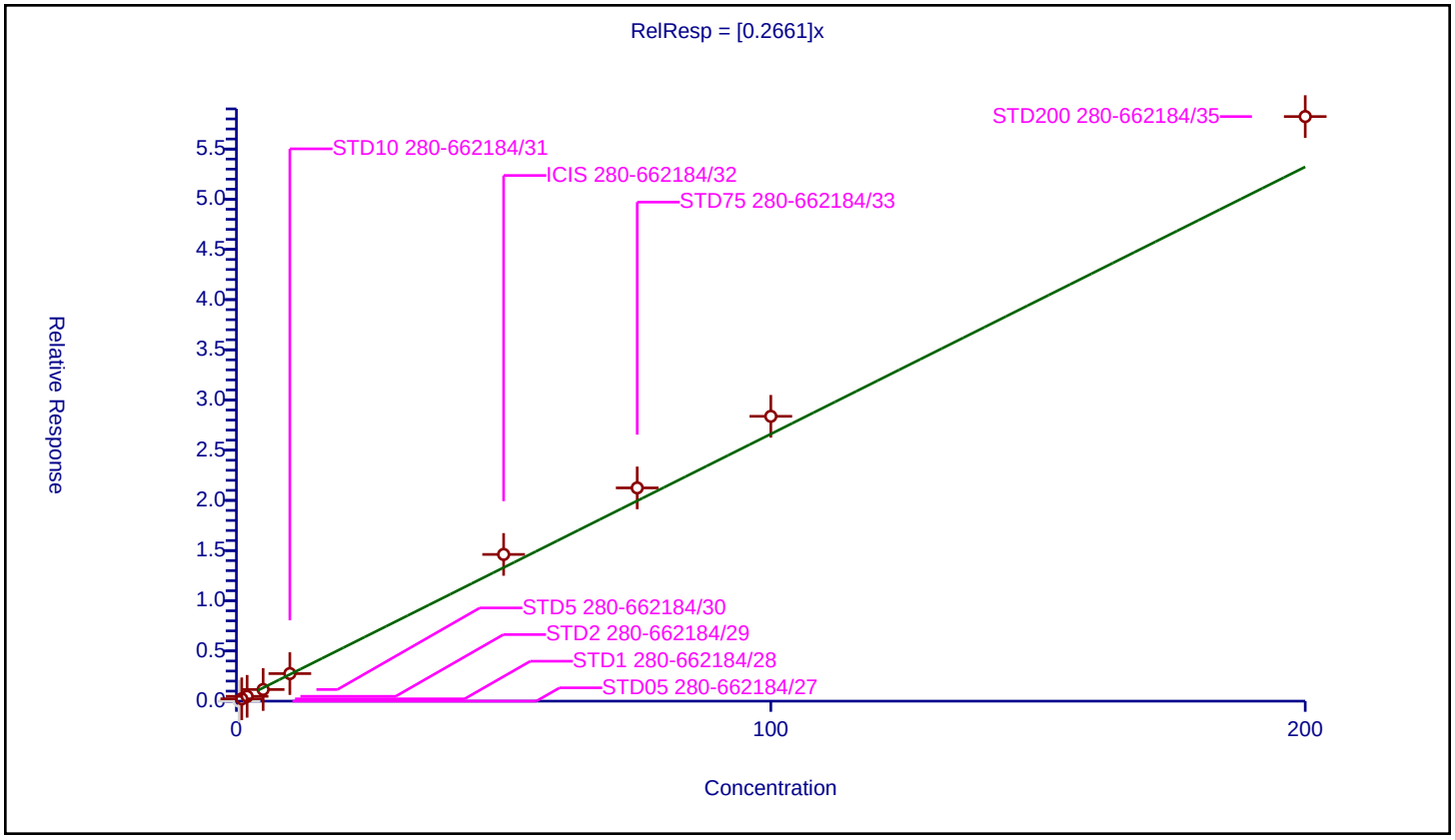
Curve Coefficients

Intercept:	0
Slope:	0.2661

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.231791	50.0	2111172.0	0.231791	Y
3	STD2 280-662184/29	2.0	0.48101	50.0	2039562.0	0.240505	Y
4	STD5 280-662184/30	5.0	1.158196	50.0	2083715.0	0.231639	Y
5	STD10 280-662184/31	10.0	2.745371	50.0	2066114.0	0.274537	Y
6	ICIS 280-662184/32	50.0	14.616608	50.0	2185490.0	0.292332	Y
7	STD75 280-662184/33	75.0	21.243644	50.0	2139447.0	0.283249	Y
8	STD100 280-662184/34	100.0	28.375433	50.0	2300786.0	0.283754	Y
9	STD200 280-662184/35	200.0	58.236558	50.0	2440449.0	0.291183	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

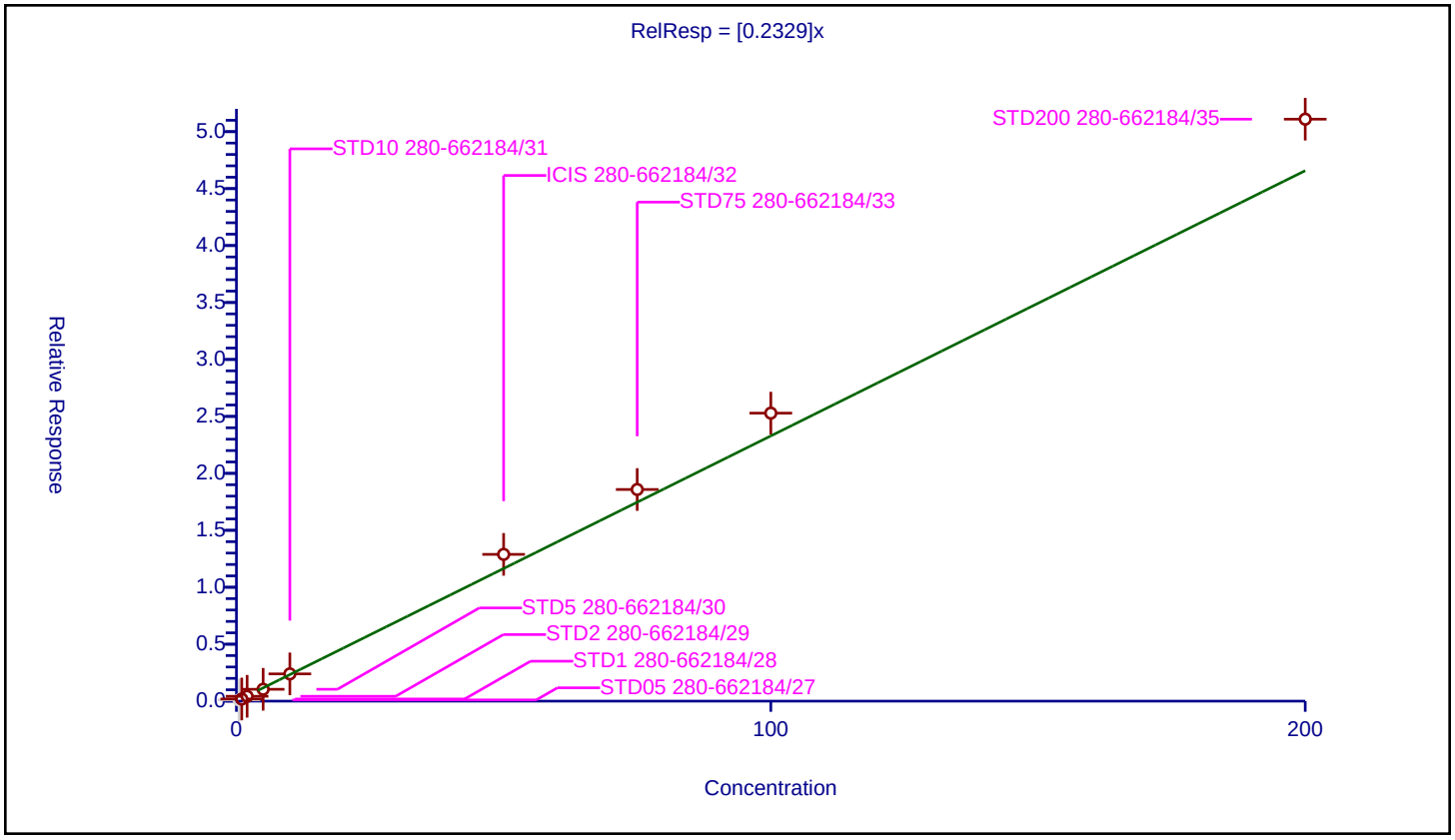
Curve Coefficients

Intercept:	0
Slope:	0.2329

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.107103	50.0	2118979.0	0.214207	N
2	STD1 280-662184/28	1.0	0.188379	50.0	2111172.0	0.188379	Y
3	STD2 280-662184/29	2.0	0.426219	50.0	2039562.0	0.213109	Y
4	STD5 280-662184/30	5.0	1.041889	50.0	2083715.0	0.208378	Y
5	STD10 280-662184/31	10.0	2.392729	50.0	2066114.0	0.239273	Y
6	ICIS 280-662184/32	50.0	12.886515	50.0	2185490.0	0.25773	Y
7	STD75 280-662184/33	75.0	18.582863	50.0	2139447.0	0.247772	Y
8	STD100 280-662184/34	100.0	25.287663	50.0	2300786.0	0.252877	Y
9	STD200 280-662184/35	200.0	51.097462	50.0	2440449.0	0.255487	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

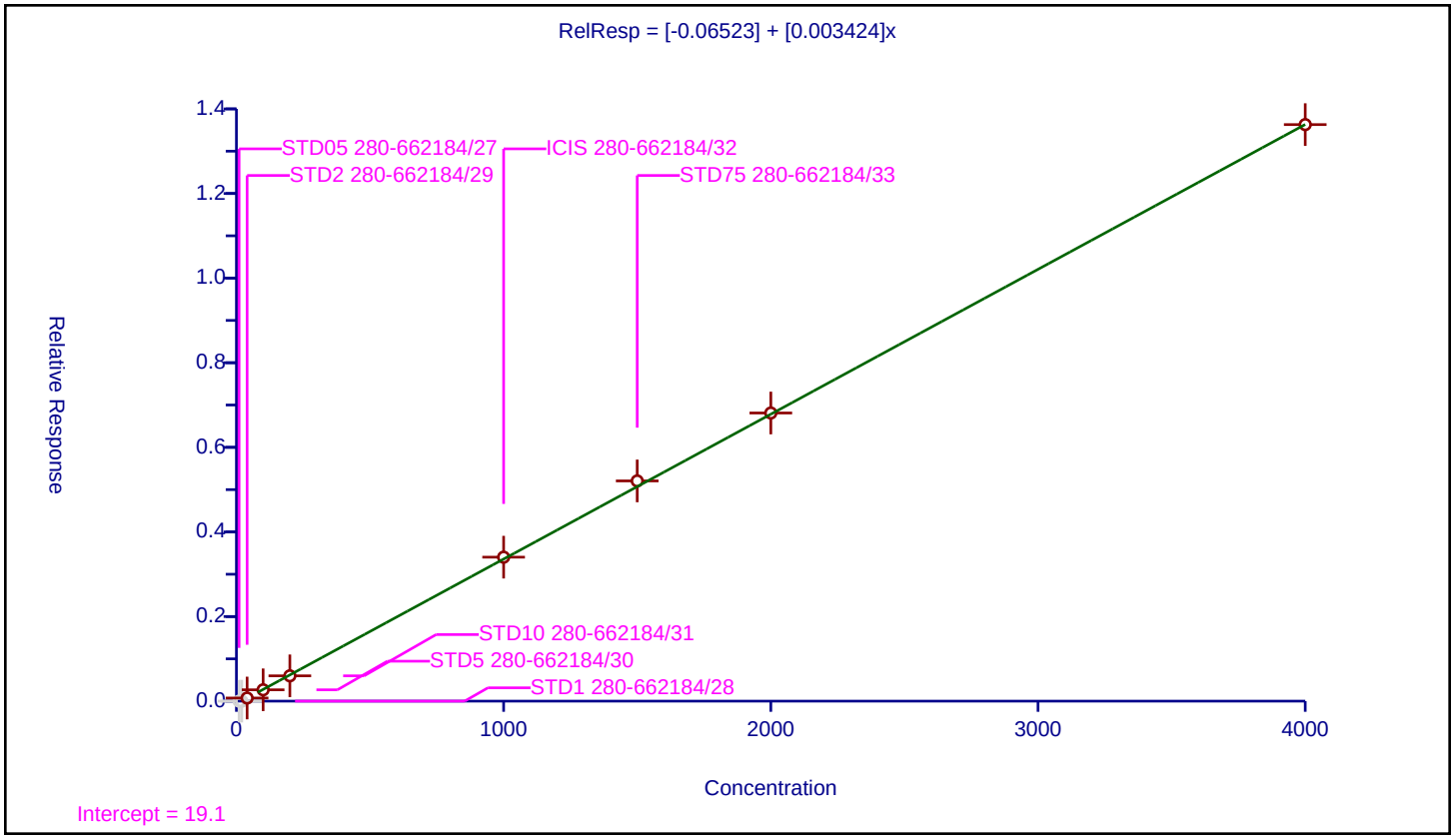
Curve Coefficients

Intercept:	-0.06523
Slope:	0.003424

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	10.0	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	20.0	0.0	50.0	2111172.0	0.0	N
3	STD2 280-662184/29	40.0	0.073937	50.0	2039562.0	0.001848	Y
4	STD5 280-662184/30	100.0	0.267647	50.0	2083715.0	0.002676	Y
5	STD10 280-662184/31	200.0	0.598249	50.0	2066114.0	0.002991	Y
6	ICIS 280-662184/32	1000.0	3.402967	50.0	2185490.0	0.003403	Y
7	STD75 280-662184/33	1500.0	5.205761	50.0	2139447.0	0.003471	Y
8	STD100 280-662184/34	2000.0	6.811216	50.0	2300786.0	0.003406	Y
9	STD200 280-662184/35	4000.0	13.628414	50.0	2440449.0	0.003407	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

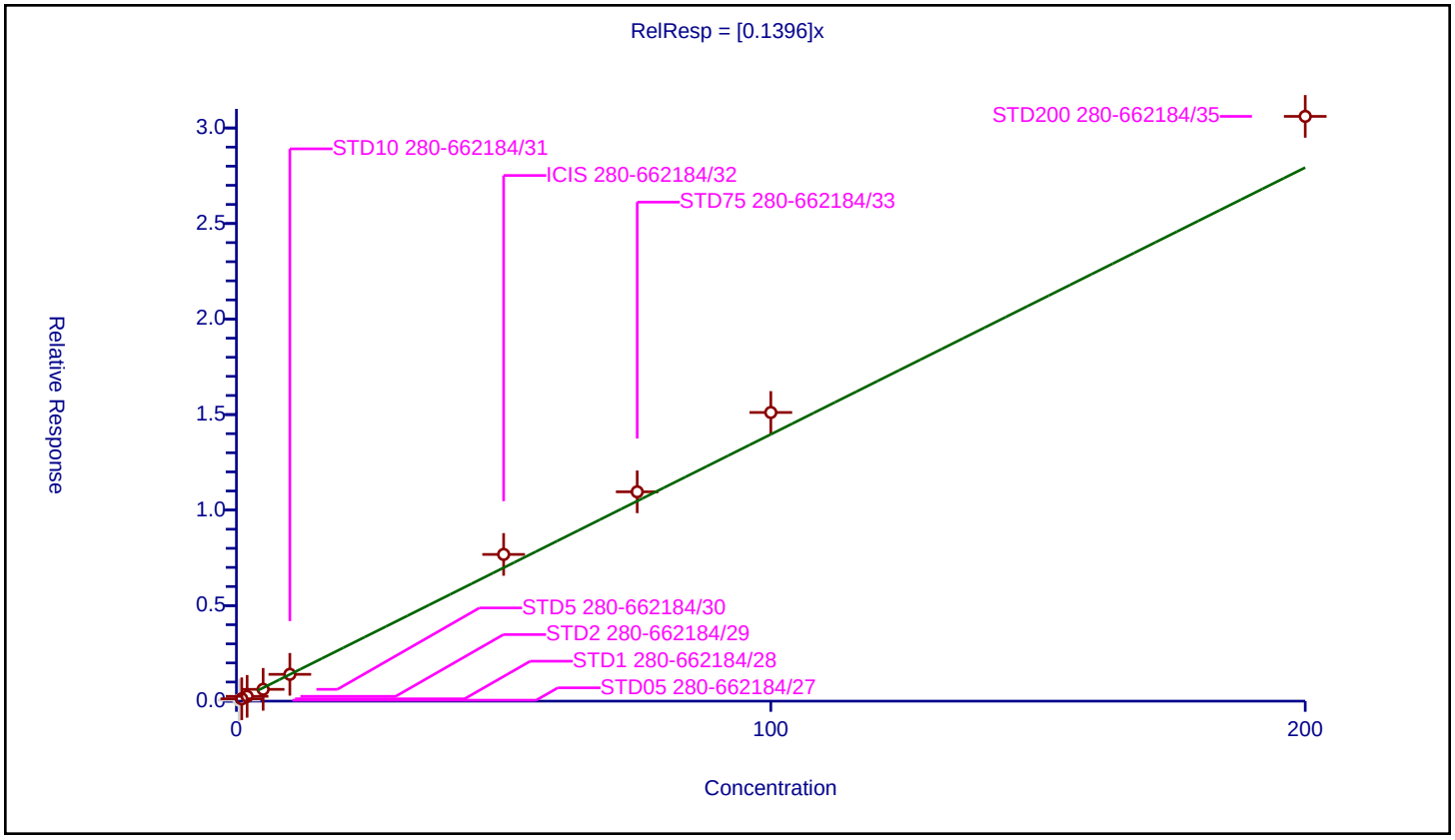
Curve Coefficients

Intercept:	0
Slope:	0.1396

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.05085	50.0	2118979.0	0.1017	N
2	STD1 280-662184/28	1.0	0.123699	50.0	2111172.0	0.123699	Y
3	STD2 280-662184/29	2.0	0.251451	50.0	2039562.0	0.125726	Y
4	STD5 280-662184/30	5.0	0.617959	50.0	2083715.0	0.123592	Y
5	STD10 280-662184/31	10.0	1.403383	50.0	2066114.0	0.140338	Y
6	ICIS 280-662184/32	50.0	7.68004	50.0	2185490.0	0.153601	Y
7	STD75 280-662184/33	75.0	10.9565	50.0	2139447.0	0.146087	Y
8	STD100 280-662184/34	100.0	15.109423	50.0	2300786.0	0.151094	Y
9	STD200 280-662184/35	200.0	30.607995	50.0	2440449.0	0.15304	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

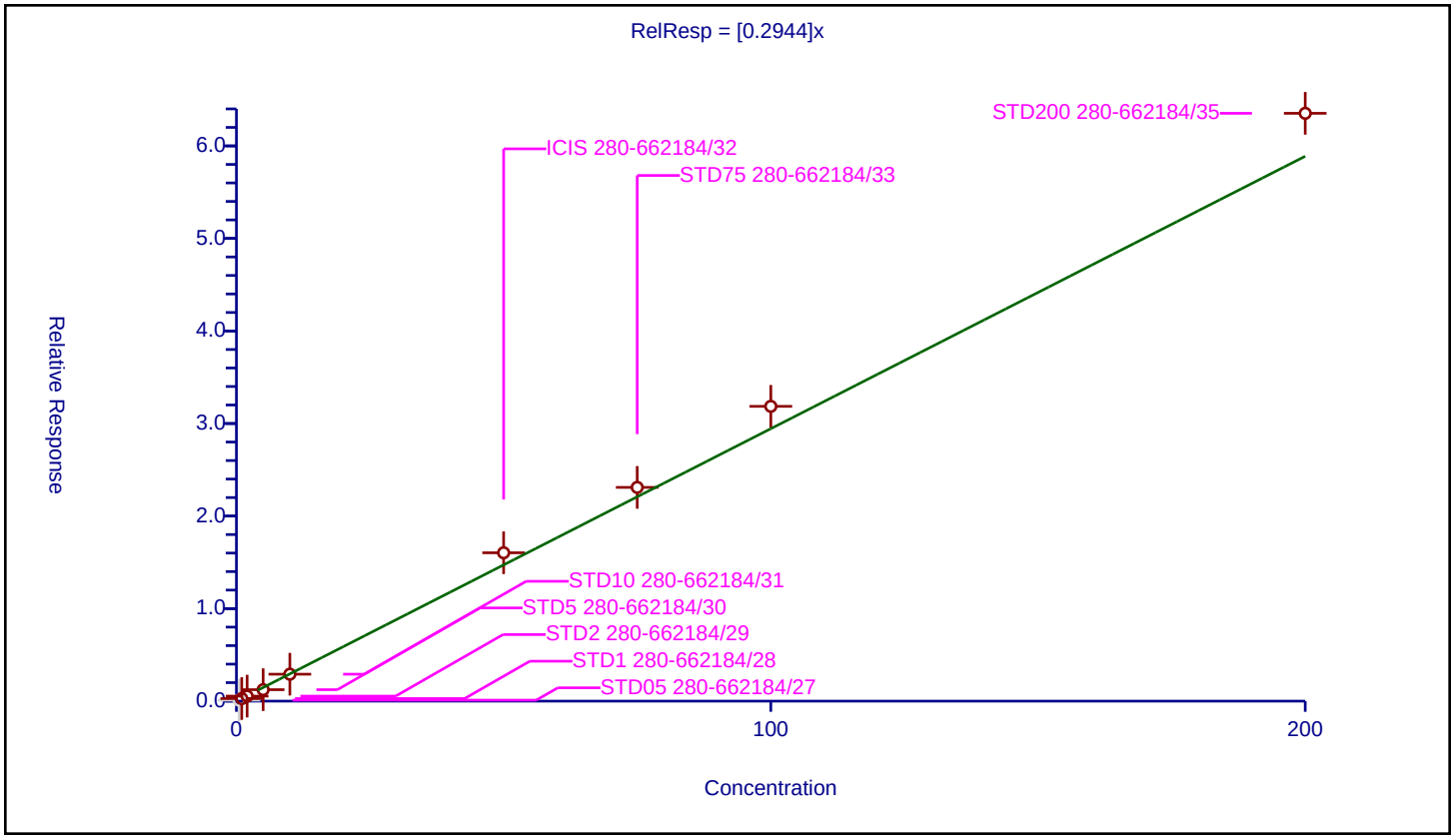
Curve Coefficients

Intercept:	0
Slope:	0.2944

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.106584	50.0	2118979.0	0.213169	N
2	STD1 280-662184/28	1.0	0.279655	50.0	2111172.0	0.279655	Y
3	STD2 280-662184/29	2.0	0.543622	50.0	2039562.0	0.271811	Y
4	STD5 280-662184/30	5.0	1.239205	50.0	2083715.0	0.247841	Y
5	STD10 280-662184/31	10.0	2.912206	50.0	2066114.0	0.291221	Y
6	ICIS 280-662184/32	50.0	16.033315	50.0	2185490.0	0.320666	Y
7	STD75 280-662184/33	75.0	23.099591	50.0	2139447.0	0.307995	Y
8	STD100 280-662184/34	100.0	31.856331	50.0	2300786.0	0.318563	Y
9	STD200 280-662184/35	200.0	63.521549	50.0	2440449.0	0.317608	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

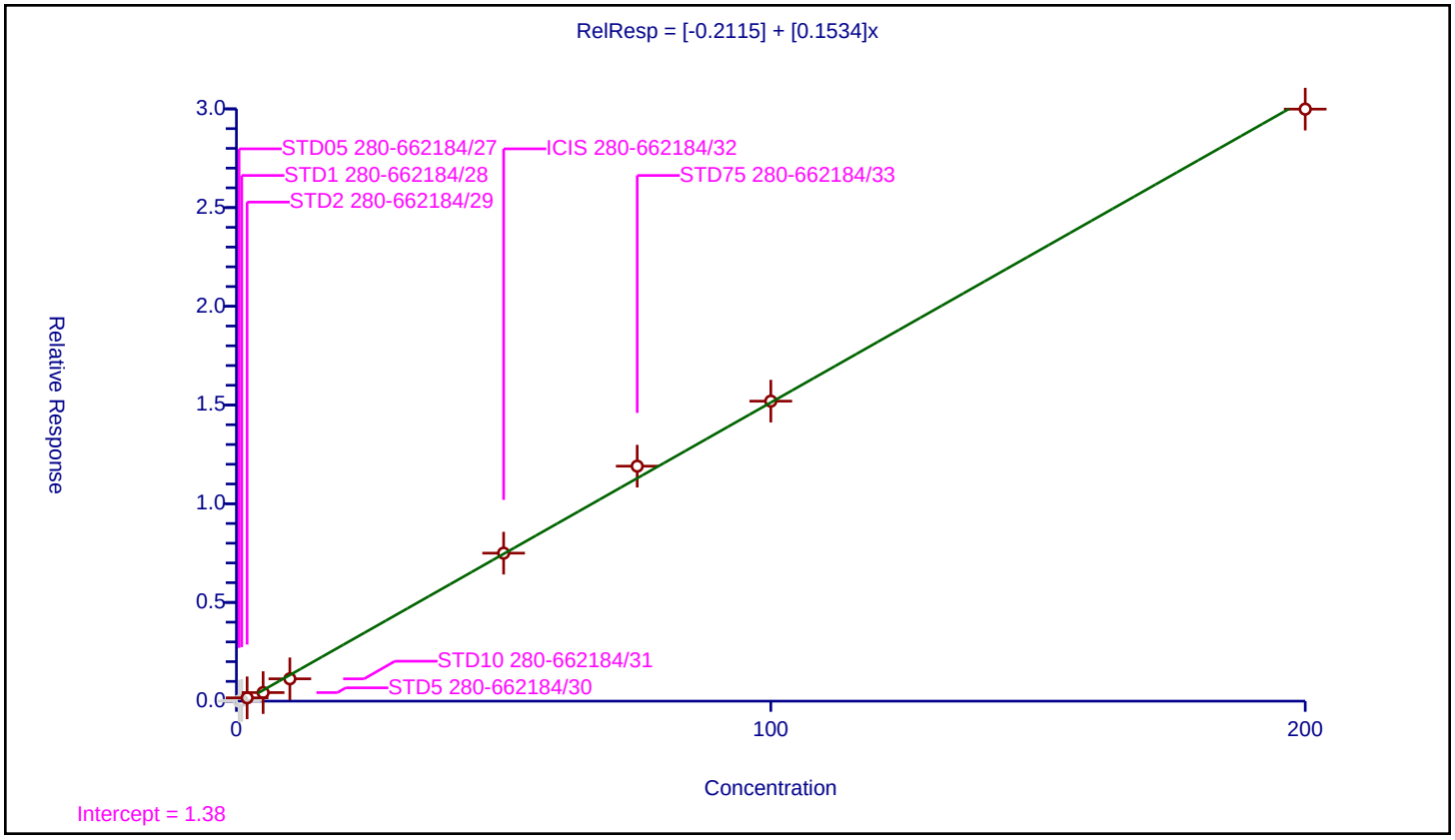
Curve Coefficients

Intercept:	-0.2115
Slope:	0.1534

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.036875	50.0	2111172.0	0.036875	N
3	STD2 280-662184/29	2.0	0.167438	50.0	2039562.0	0.083719	Y
4	STD5 280-662184/30	5.0	0.434248	50.0	2083715.0	0.08685	Y
5	STD10 280-662184/31	10.0	1.131448	50.0	2066114.0	0.113145	Y
6	ICIS 280-662184/32	50.0	7.496923	50.0	2185490.0	0.149938	Y
7	STD75 280-662184/33	75.0	11.902982	50.0	2139447.0	0.158706	Y
8	STD100 280-662184/34	100.0	15.196263	50.0	2300786.0	0.151963	Y
9	STD200 280-662184/35	200.0	29.987801	50.0	2440449.0	0.149939	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

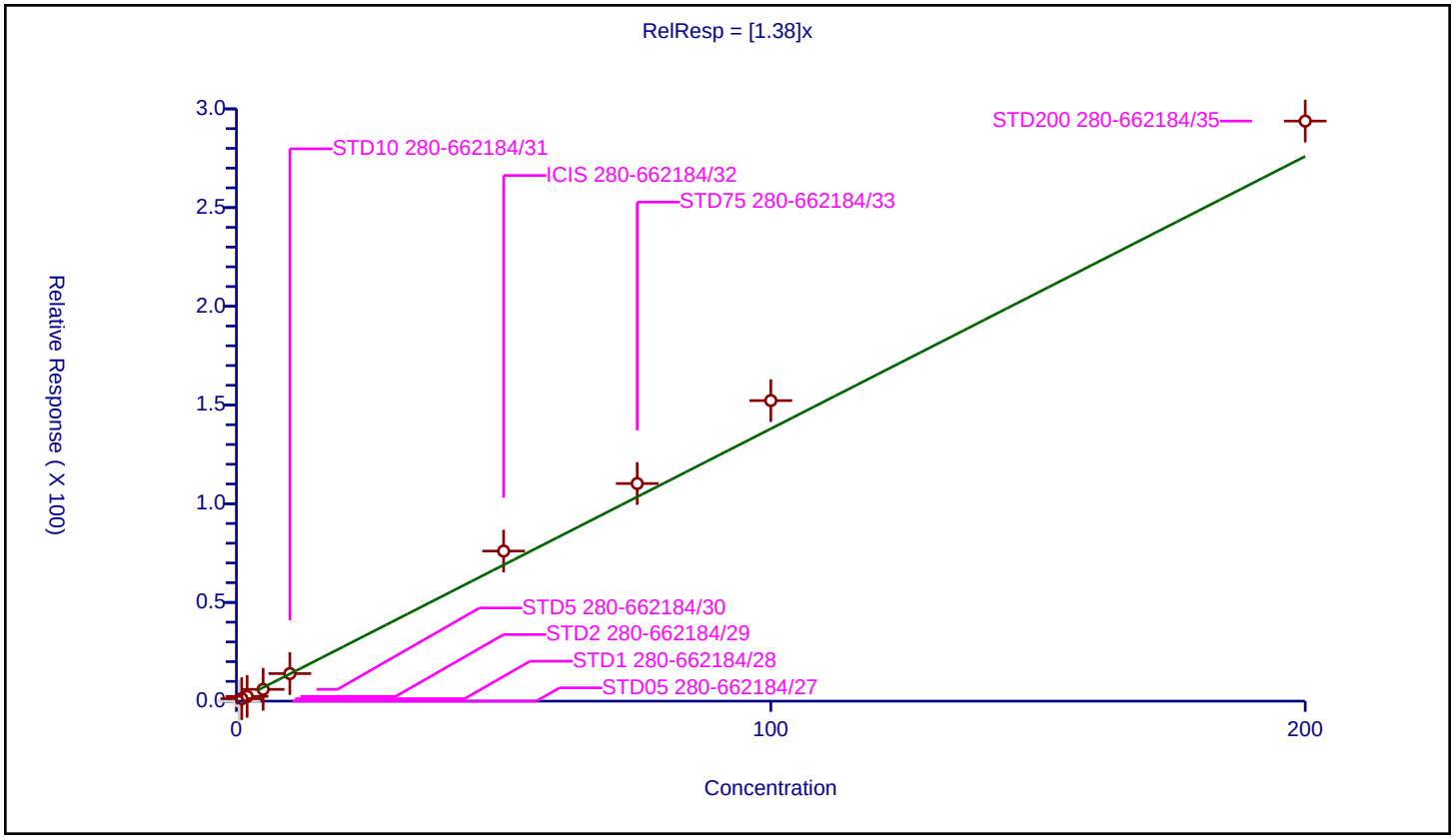
Curve Coefficients

Intercept:	0
Slope:	1.38

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	512179.0	0.0	N
2	STD1 280-662184/28	1.0	1.265076	50.0	503962.0	1.265076	Y
3	STD2 280-662184/29	2.0	2.405983	50.0	484272.0	1.202991	Y
4	STD5 280-662184/30	5.0	5.965477	50.0	498795.0	1.193095	Y
5	STD10 280-662184/31	10.0	13.953205	50.0	504583.0	1.39532	Y
6	ICIS 280-662184/32	50.0	76.026009	50.0	539883.0	1.52052	Y
7	STD75 280-662184/33	75.0	110.226334	50.0	531471.0	1.469684	Y
8	STD100 280-662184/34	100.0	152.236849	50.0	572904.0	1.522368	Y
9	STD200 280-662184/35	200.0	293.833443	50.0	630295.0	1.469167	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

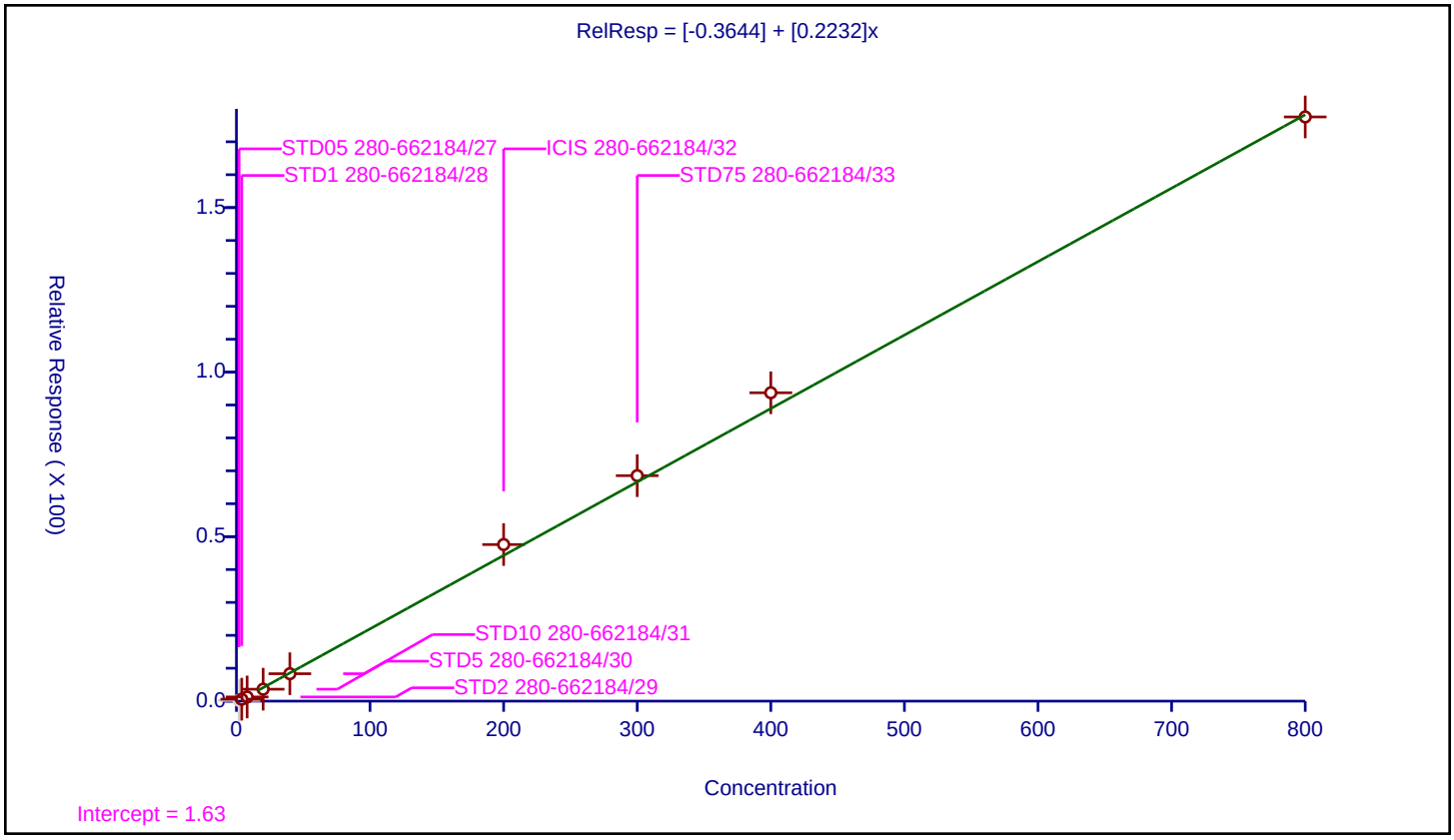
Curve Coefficients

Intercept:	-0.3644
Slope:	0.2232

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	2.0	0.214466	50.0	2118979.0	0.107233	N
2	STD1 280-662184/28	4.0	0.585859	50.0	2111172.0	0.146465	Y
3	STD2 280-662184/29	8.0	1.268336	50.0	2039562.0	0.158542	Y
4	STD5 280-662184/30	20.0	3.629359	50.0	2083715.0	0.181468	Y
5	STD10 280-662184/31	40.0	8.3341	50.0	2066114.0	0.208352	Y
6	ICIS 280-662184/32	200.0	47.59308	50.0	2185490.0	0.237965	Y
7	STD75 280-662184/33	300.0	68.537921	50.0	2139447.0	0.22846	Y
8	STD100 280-662184/34	400.0	93.727839	50.0	2300786.0	0.23432	Y
9	STD200 280-662184/35	800.0	177.553598	50.0	2440449.0	0.221942	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

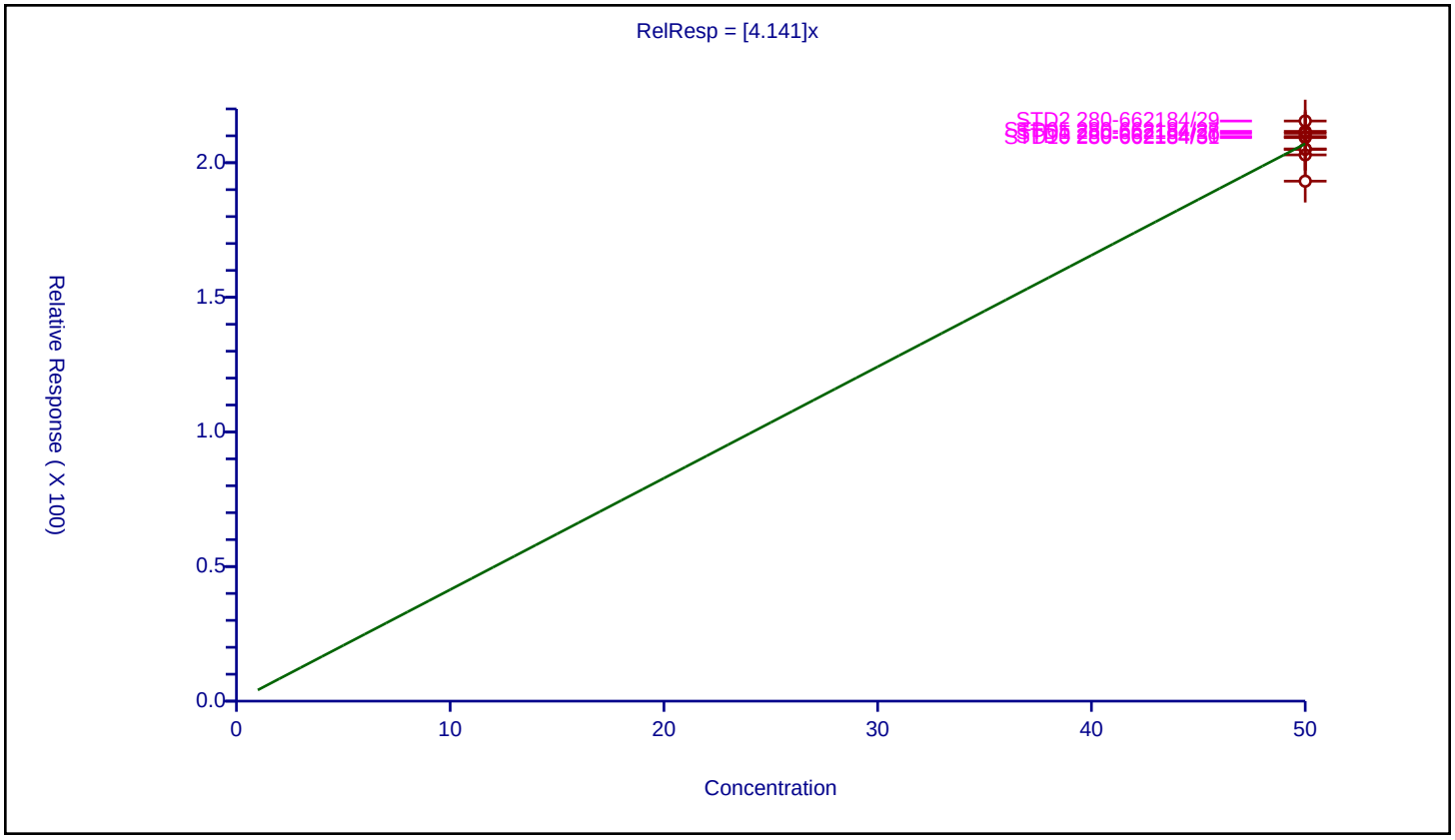
Curve Coefficients

Intercept:	0
Slope:	4.141

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	50.0	211.653836	50.0	512179.0	4.233077	Y
2	STD1 280-662184/28	50.0	210.951619	50.0	503962.0	4.219032	Y
3	STD2 280-662184/29	50.0	215.498005	50.0	484272.0	4.30996	Y
4	STD5 280-662184/30	50.0	209.740675	50.0	498795.0	4.194814	Y
5	STD10 280-662184/31	50.0	209.324333	50.0	504583.0	4.186487	Y
6	ICIS 280-662184/32	50.0	204.954314	50.0	539883.0	4.099086	Y
7	STD75 280-662184/33	50.0	205.128502	50.0	531471.0	4.10257	Y
8	STD100 280-662184/34	50.0	202.917592	50.0	572904.0	4.058352	Y
9	STD200 280-662184/35	50.0	193.161139	50.0	630295.0	3.863223	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

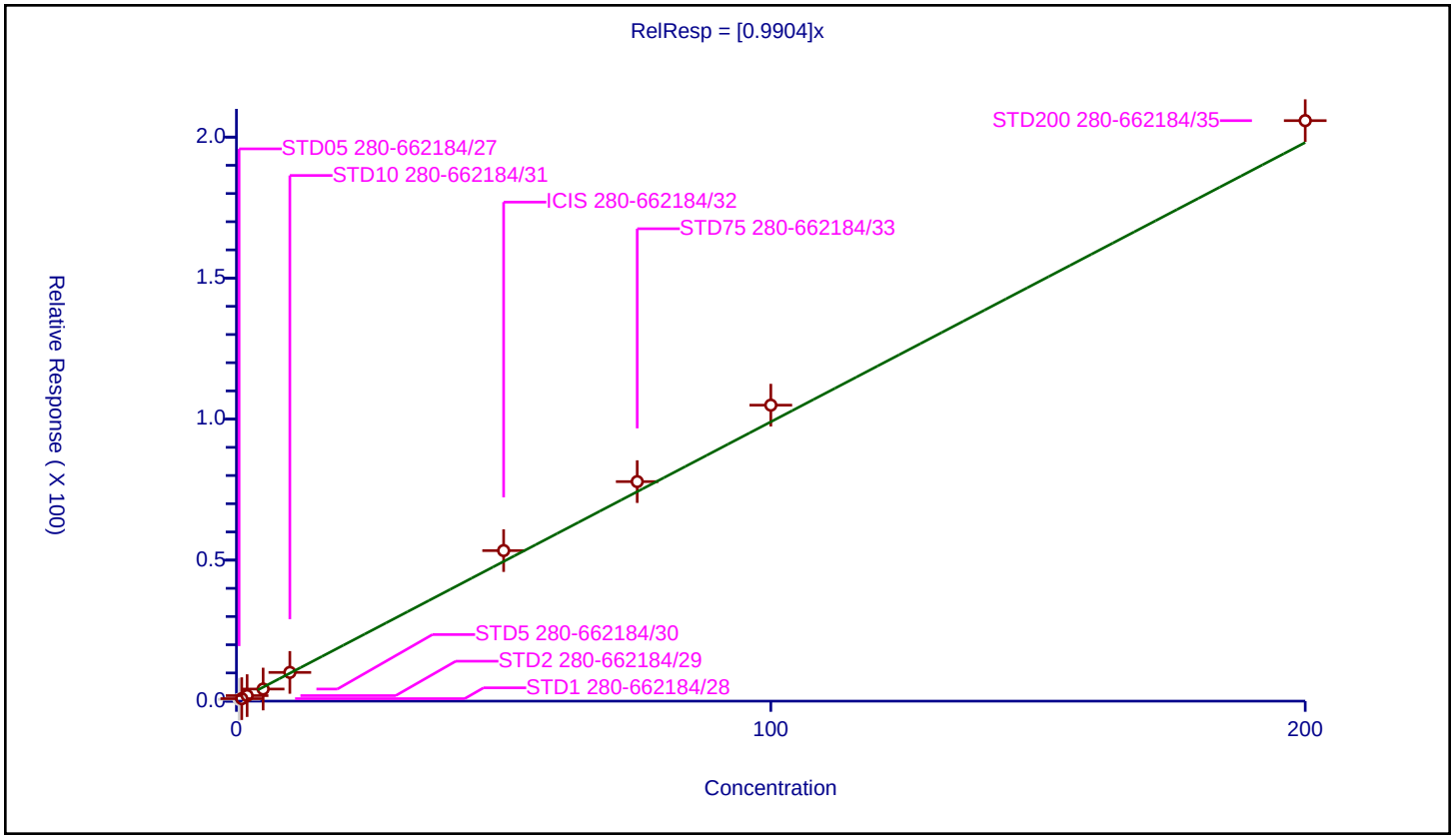
Curve Coefficients

Intercept:	0
Slope:	0.9904

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.63894	50.0	2118979.0	1.27788	N
2	STD1 280-662184/28	1.0	0.883917	50.0	2111172.0	0.883917	Y
3	STD2 280-662184/29	2.0	1.957185	50.0	2039562.0	0.978592	Y
4	STD5 280-662184/30	5.0	4.28871	50.0	2083715.0	0.857742	Y
5	STD10 280-662184/31	10.0	10.186974	50.0	2066114.0	1.018697	Y
6	ICIS 280-662184/32	50.0	53.379196	50.0	2185490.0	1.067584	Y
7	STD75 280-662184/33	75.0	77.842545	50.0	2139447.0	1.037901	Y
8	STD100 280-662184/34	100.0	104.952025	50.0	2300786.0	1.04952	Y
9	STD200 280-662184/35	200.0	205.833537	50.0	2440449.0	1.029168	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

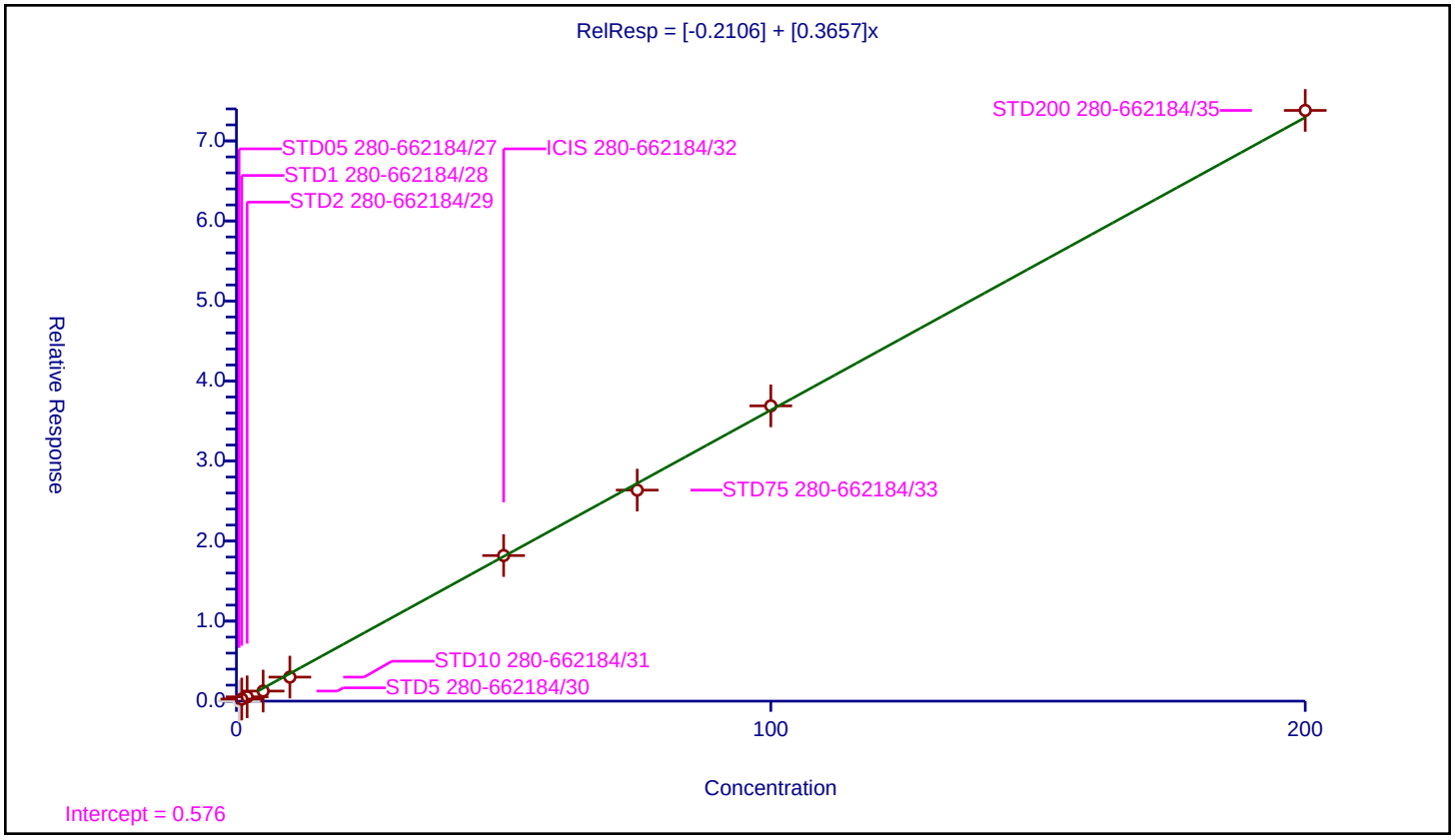
Curve Coefficients

Intercept:	-0.2106
Slope:	0.3657

Error Coefficients

Relative Standard Deviation:	15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	2118979.0	0.0	N
2	STD1 280-662184/28	1.0	0.262248	50.0	2111172.0	0.262248	Y
3	STD2 280-662184/29	2.0	0.536316	50.0	2039562.0	0.268158	Y
4	STD5 280-662184/30	5.0	1.261017	50.0	2083715.0	0.252203	Y
5	STD10 280-662184/31	10.0	3.004457	50.0	2066114.0	0.300446	Y
6	ICIS 280-662184/32	50.0	18.190474	50.0	2185490.0	0.363809	Y
7	STD75 280-662184/33	75.0	26.368192	50.0	2139447.0	0.351576	Y
8	STD100 280-662184/34	100.0	36.894522	50.0	2300786.0	0.368945	Y
9	STD200 280-662184/35	200.0	73.809143	50.0	2440449.0	0.369046	Y



Calibration / Ethyl methacrylate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

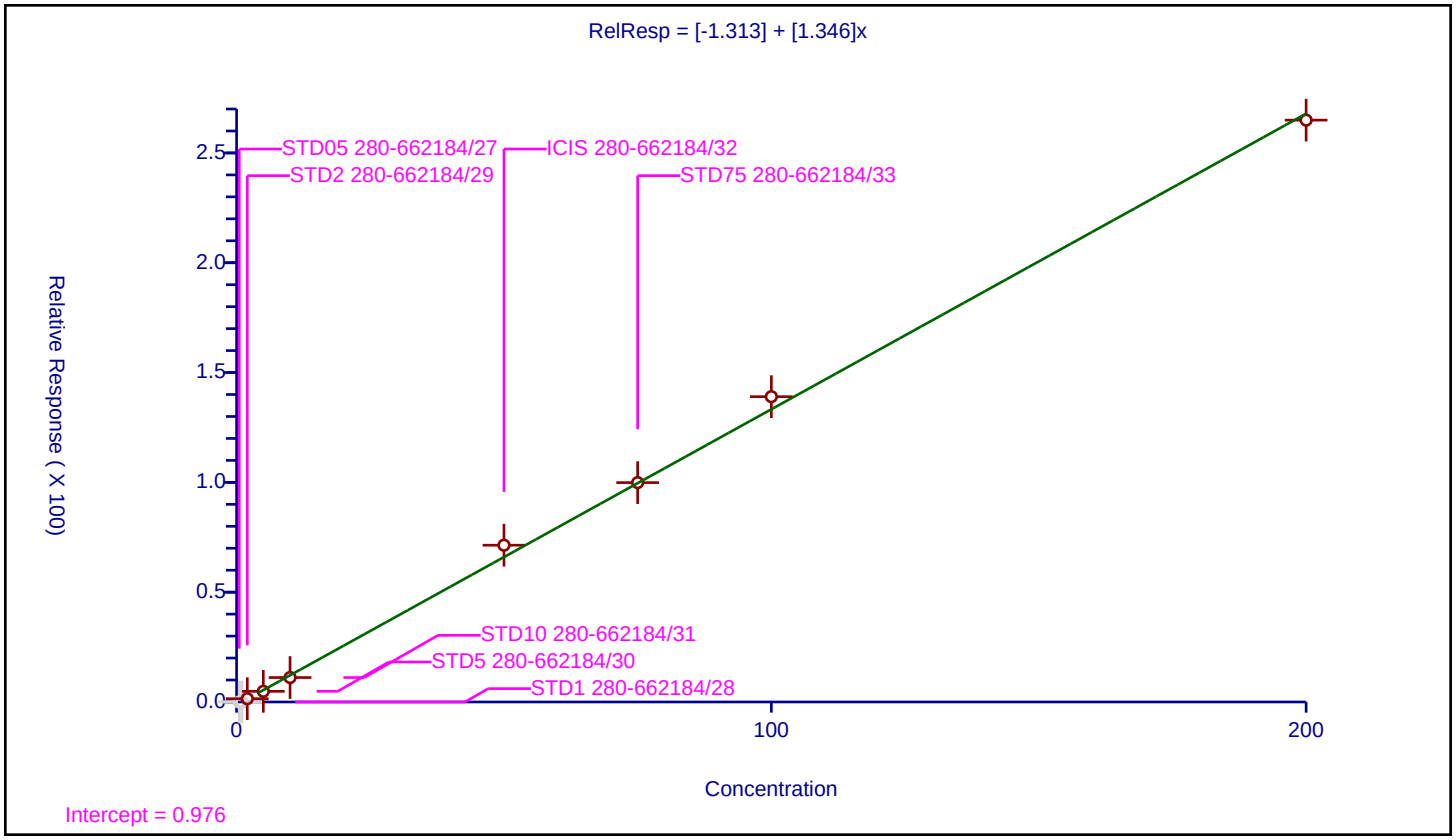
Curve Coefficients

Intercept:	-1.313
Slope:	1.346

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	512179.0	0.0	N
2	STD1 280-662184/28	1.0	0.0	50.0	503962.0	0.0	N
3	STD2 280-662184/29	2.0	1.498641	50.0	484272.0	0.749321	Y
4	STD5 280-662184/30	5.0	4.853898	50.0	498795.0	0.97078	Y
5	STD10 280-662184/31	10.0	11.130973	50.0	504583.0	1.113097	Y
6	ICIS 280-662184/32	50.0	71.384541	50.0	539883.0	1.427691	Y
7	STD75 280-662184/33	75.0	99.881743	50.0	531471.0	1.331757	Y
8	STD100 280-662184/34	100.0	139.017794	50.0	572904.0	1.390178	Y
9	STD200 280-662184/35	200.0	264.940782	50.0	630295.0	1.324704	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

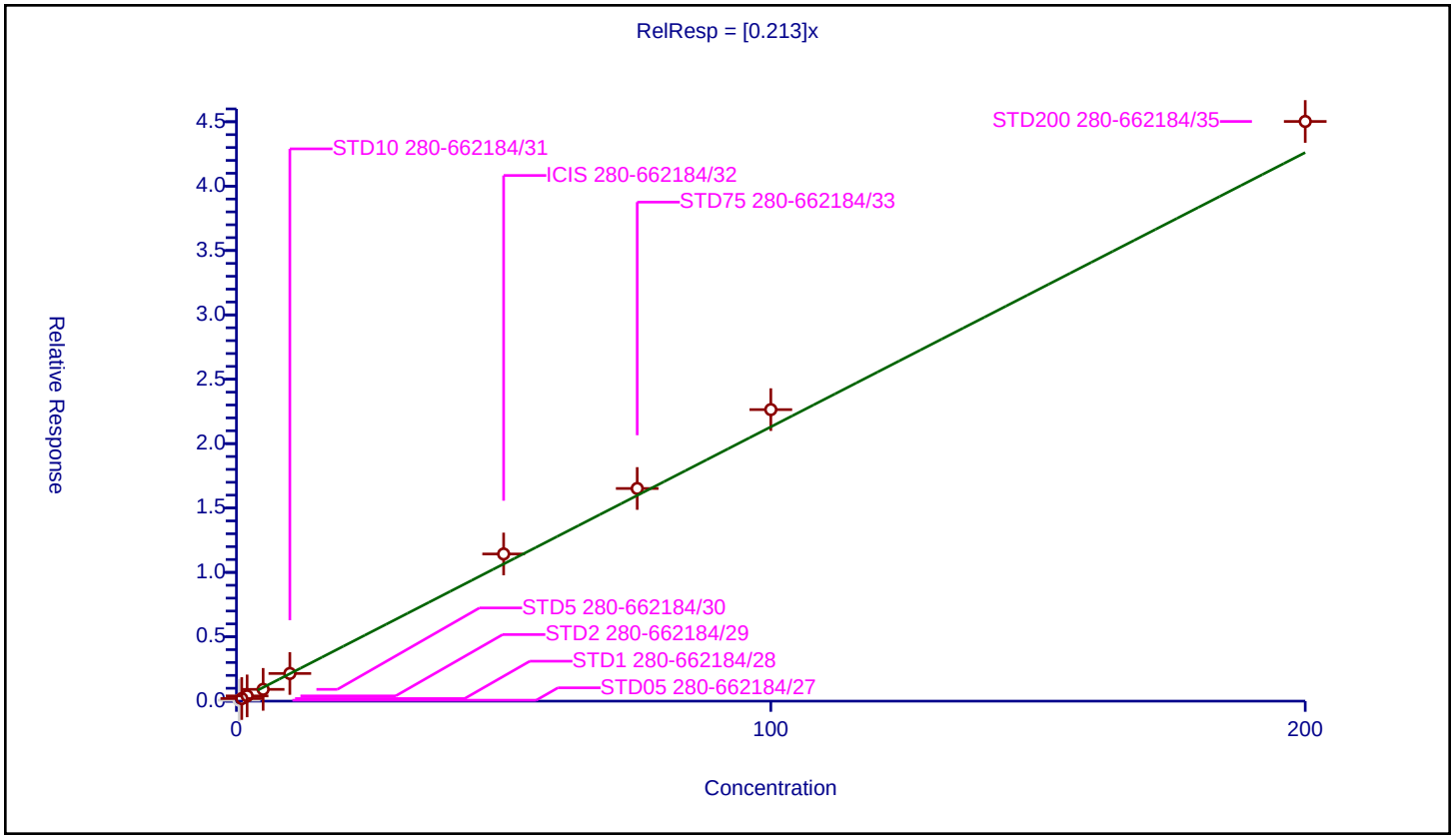
Curve Coefficients

Intercept:	0
Slope:	0.213

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.072441	50.0	2118979.0	0.144881	N
2	STD1 280-662184/28	1.0	0.202399	50.0	2111172.0	0.202399	Y
3	STD2 280-662184/29	2.0	0.407342	50.0	2039562.0	0.203671	Y
4	STD5 280-662184/30	5.0	0.915864	50.0	2083715.0	0.183173	Y
5	STD10 280-662184/31	10.0	2.14734	50.0	2066114.0	0.214734	Y
6	ICIS 280-662184/32	50.0	11.429428	50.0	2185490.0	0.228589	Y
7	STD75 280-662184/33	75.0	16.516605	50.0	2139447.0	0.220221	Y
8	STD100 280-662184/34	100.0	22.64361	50.0	2300786.0	0.226436	Y
9	STD200 280-662184/35	200.0	45.023498	50.0	2440449.0	0.225117	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

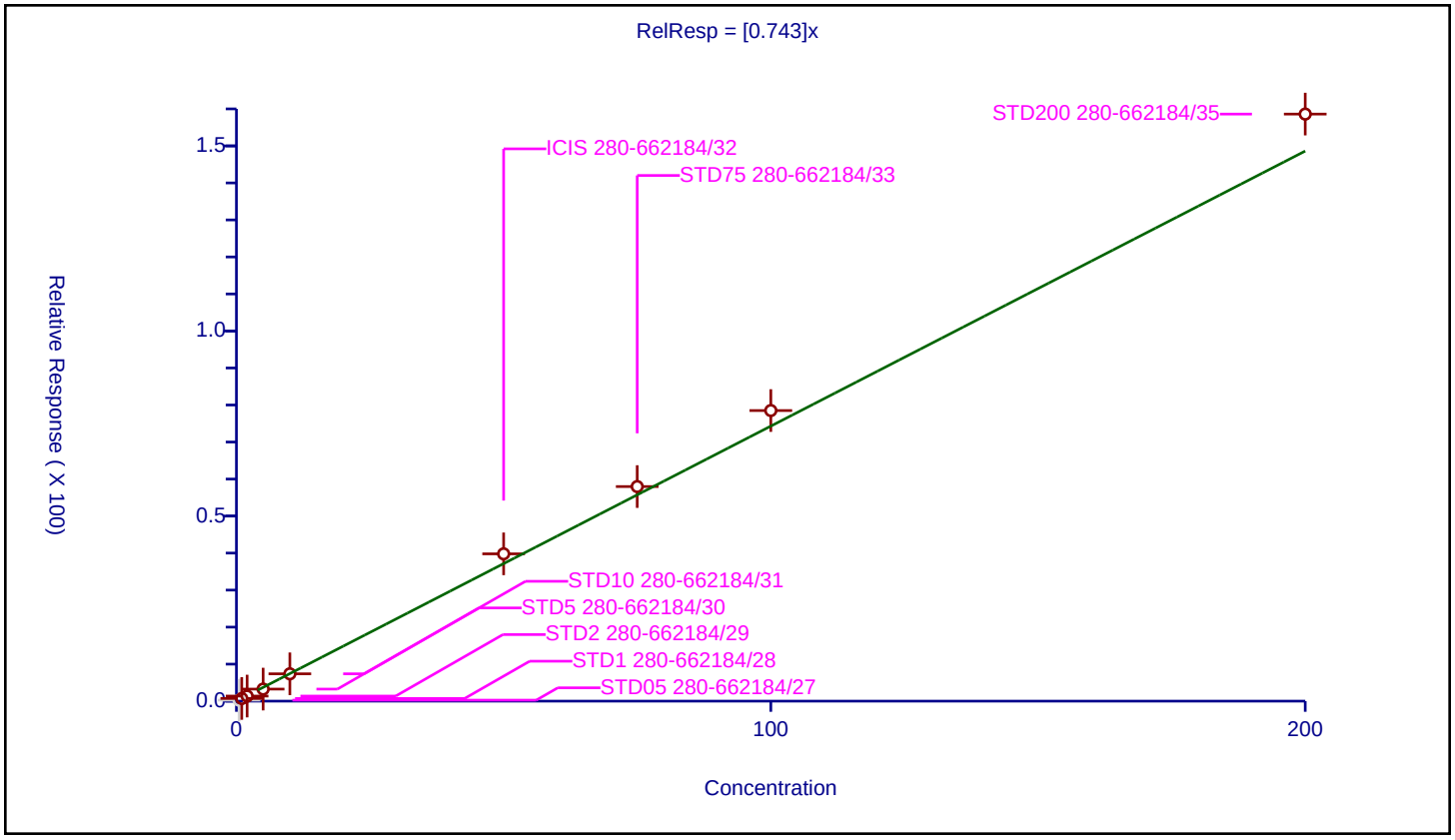
Curve Coefficients

Intercept:	0
Slope:	0.743

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.272073	50.0	512179.0	0.544146	N
2	STD1 280-662184/28	1.0	0.72059	50.0	503962.0	0.72059	Y
3	STD2 280-662184/29	2.0	1.374124	50.0	484272.0	0.687062	Y
4	STD5 280-662184/30	5.0	3.257551	50.0	498795.0	0.65151	Y
5	STD10 280-662184/31	10.0	7.382433	50.0	504583.0	0.738243	Y
6	ICIS 280-662184/32	50.0	39.795937	50.0	539883.0	0.795919	Y
7	STD75 280-662184/33	75.0	57.969955	50.0	531471.0	0.772933	Y
8	STD100 280-662184/34	100.0	78.507307	50.0	572904.0	0.785073	Y
9	STD200 280-662184/35	200.0	158.600179	50.0	630295.0	0.793001	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

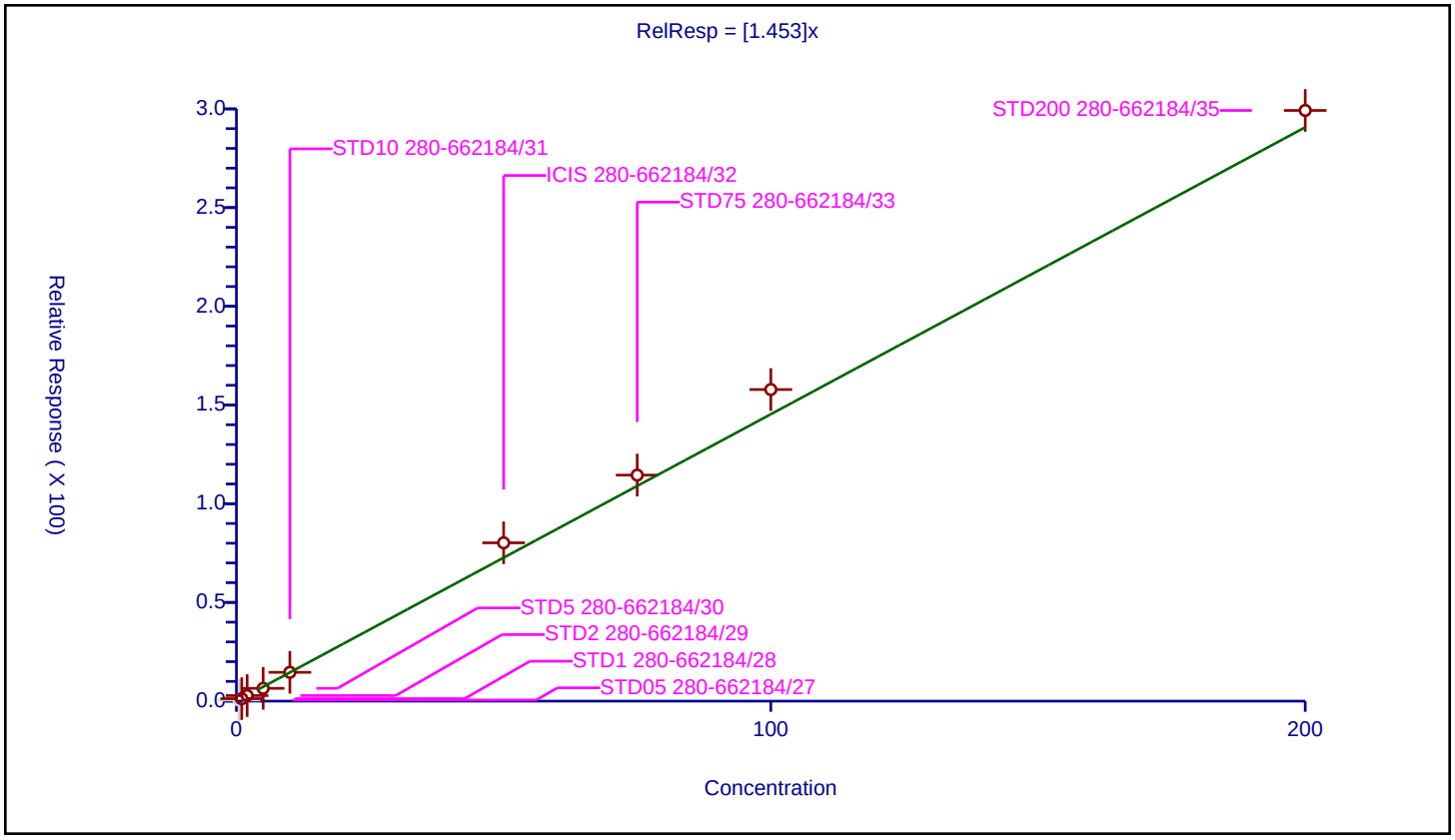
Curve Coefficients

Intercept:	0
Slope:	1.453

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.576361	50.0	512179.0	1.152722	N
2	STD1 280-662184/28	1.0	1.257337	50.0	503962.0	1.257337	Y
3	STD2 280-662184/29	2.0	2.817631	50.0	484272.0	1.408816	Y
4	STD5 280-662184/30	5.0	6.482623	50.0	498795.0	1.296525	Y
5	STD10 280-662184/31	10.0	14.592148	50.0	504583.0	1.459215	Y
6	ICIS 280-662184/32	50.0	80.195987	50.0	539883.0	1.60392	Y
7	STD75 280-662184/33	75.0	114.497875	50.0	531471.0	1.526638	Y
8	STD100 280-662184/34	100.0	157.843373	50.0	572904.0	1.578434	Y
9	STD200 280-662184/35	200.0	299.218461	50.0	630295.0	1.496092	Y



Calibration / 2-Hexanone

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

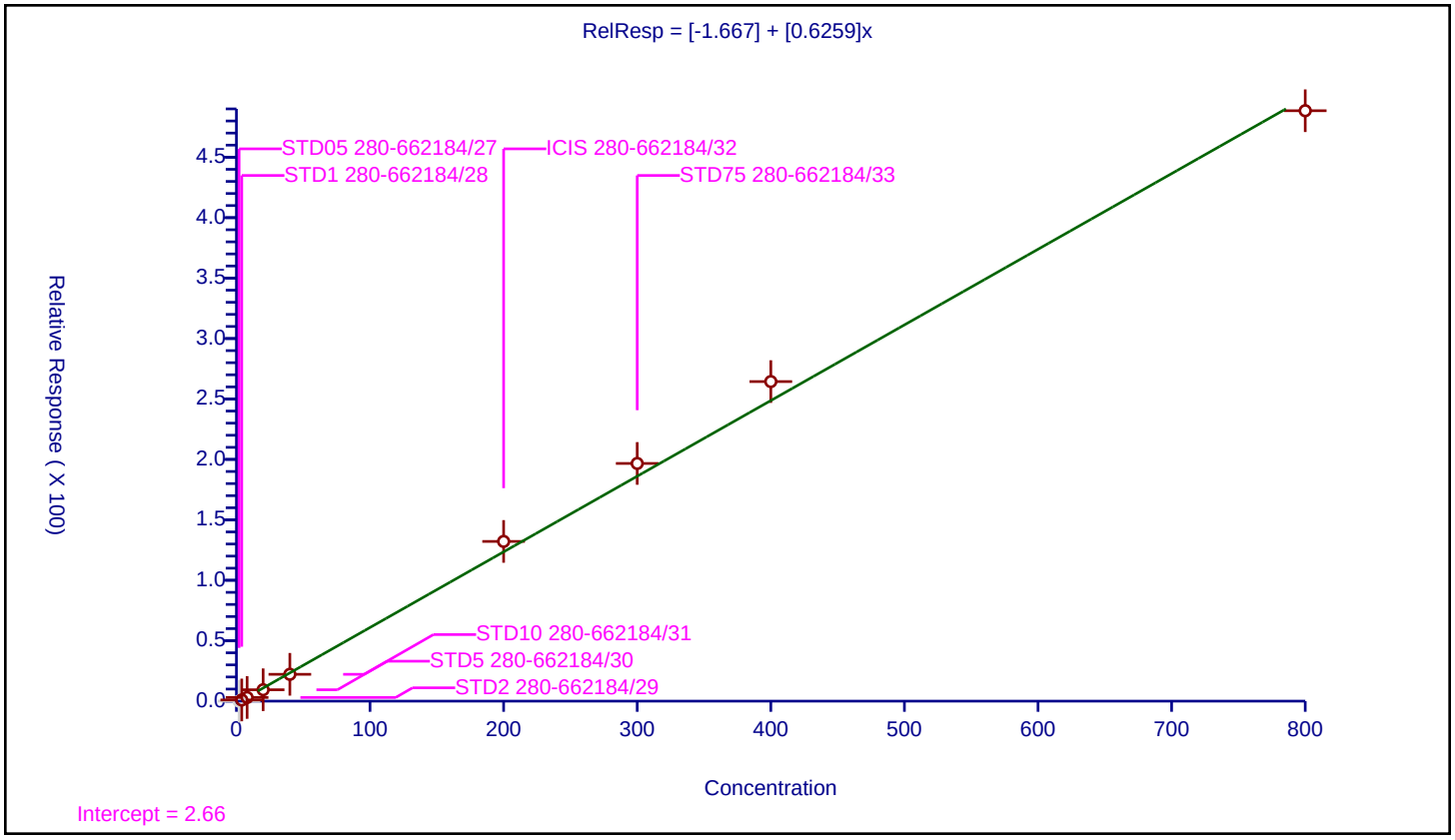
Curve Coefficients

Intercept:	-1.667
Slope:	0.6259

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	2.0	0.0	50.0	512179.0	0.0	N
2	STD1 280-662184/28	4.0	0.975966	50.0	503962.0	0.243992	Y
3	STD2 280-662184/29	8.0	3.028463	50.0	484272.0	0.378558	Y
4	STD5 280-662184/30	20.0	9.422208	50.0	498795.0	0.47111	Y
5	STD10 280-662184/31	40.0	22.204077	50.0	504583.0	0.555102	Y
6	ICIS 280-662184/32	200.0	132.133999	50.0	539883.0	0.66067	Y
7	STD75 280-662184/33	300.0	196.653627	50.0	531471.0	0.655512	Y
8	STD100 280-662184/34	400.0	264.405991	50.0	572904.0	0.661015	Y
9	STD200 280-662184/35	800.0	488.471827	50.0	630295.0	0.61059	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

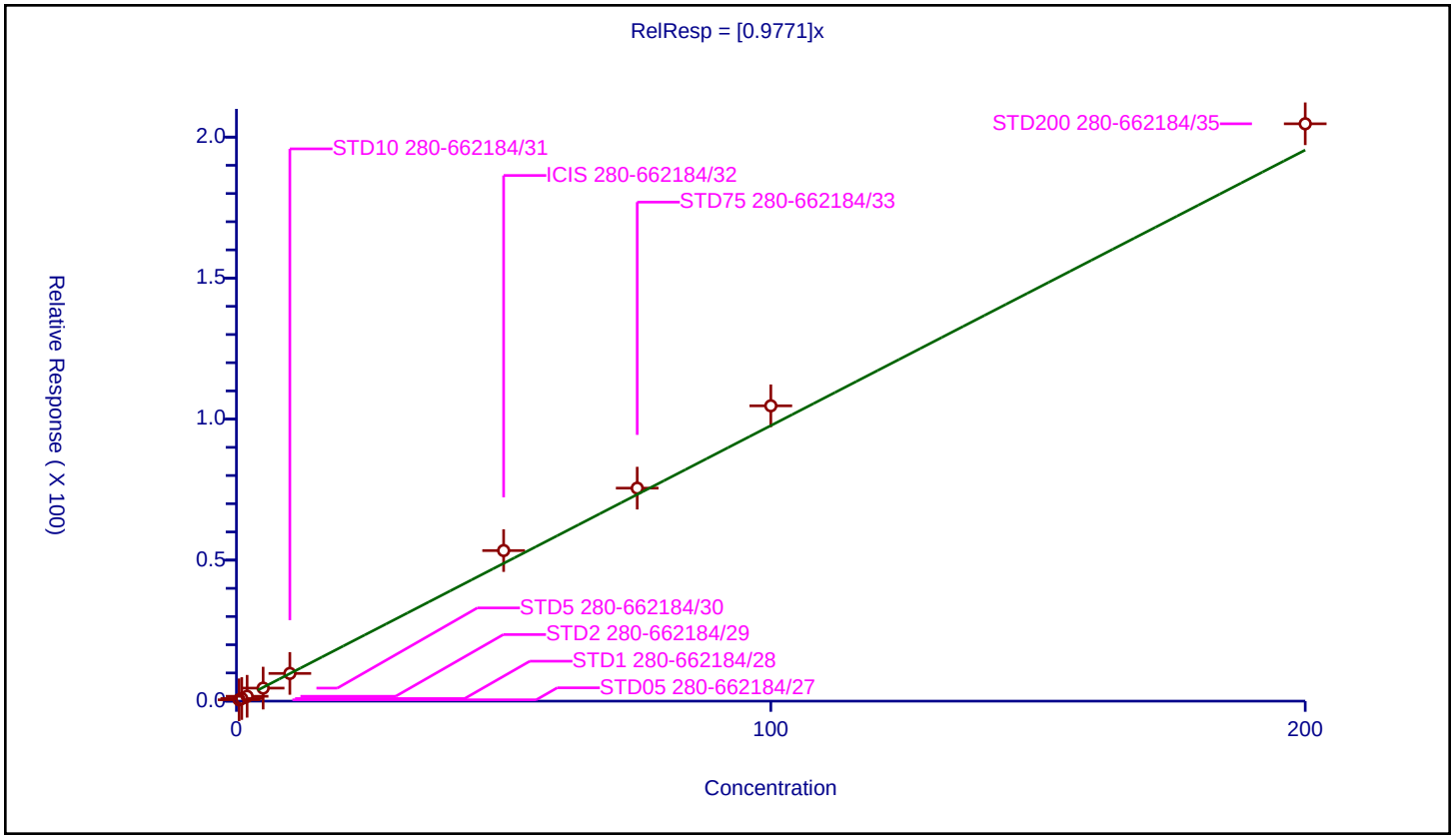
Curve Coefficients

Intercept:	0
Slope:	0.9771

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.478348	50.0	512179.0	0.956697	Y
2	STD1 280-662184/28	1.0	0.9212	50.0	503962.0	0.9212	Y
3	STD2 280-662184/29	2.0	1.726922	50.0	484272.0	0.863461	Y
4	STD5 280-662184/30	5.0	4.620235	50.0	498795.0	0.924047	Y
5	STD10 280-662184/31	10.0	9.825539	50.0	504583.0	0.982554	Y
6	ICIS 280-662184/32	50.0	53.388975	50.0	539883.0	1.06778	Y
7	STD75 280-662184/33	75.0	75.525005	50.0	531471.0	1.007	Y
8	STD100 280-662184/34	100.0	104.719639	50.0	572904.0	1.047196	Y
9	STD200 280-662184/35	200.0	204.724692	50.0	630295.0	1.023623	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

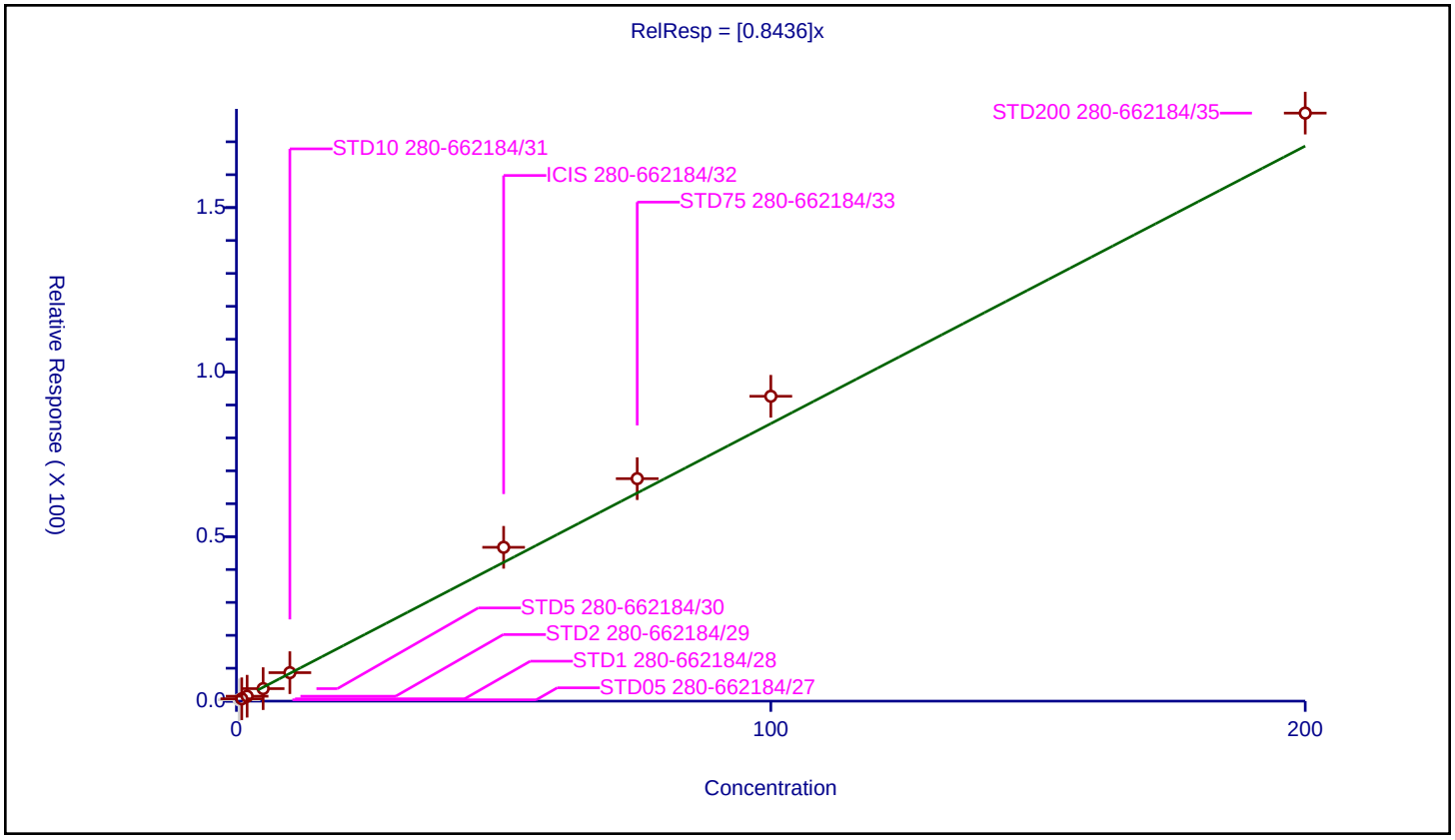
Curve Coefficients

Intercept:	0
Slope:	0.8436

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.404839	50.0	512179.0	0.809678	N
2	STD1 280-662184/28	1.0	0.718209	50.0	503962.0	0.718209	Y
3	STD2 280-662184/29	2.0	1.49668	50.0	484272.0	0.74834	Y
4	STD5 280-662184/30	5.0	3.798354	50.0	498795.0	0.759671	Y
5	STD10 280-662184/31	10.0	8.653284	50.0	504583.0	0.865328	Y
6	ICIS 280-662184/32	50.0	46.752167	50.0	539883.0	0.935043	Y
7	STD75 280-662184/33	75.0	67.622975	50.0	531471.0	0.90164	Y
8	STD100 280-662184/34	100.0	92.65959	50.0	572904.0	0.926596	Y
9	STD200 280-662184/35	200.0	178.717902	50.0	630295.0	0.89359	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

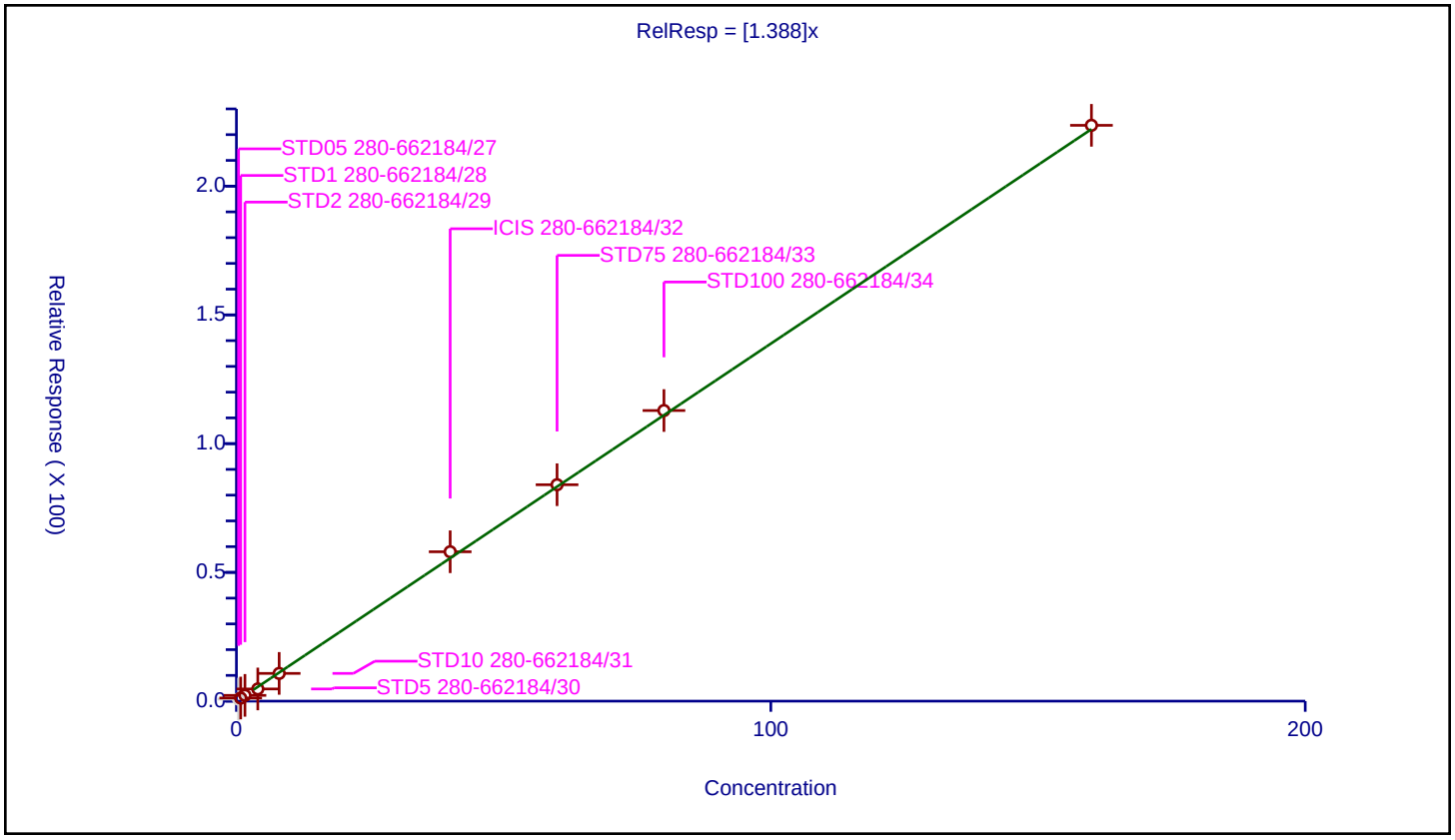
Curve Coefficients

Intercept:	0
Slope:	1.388

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.4	0.789275	50.0	512179.0	1.973187	N
2	STD1 280-662184/28	0.8	1.215568	50.0	503962.0	1.51946	Y
3	STD2 280-662184/29	1.6	2.236863	50.0	484272.0	1.398039	Y
4	STD5 280-662184/30	4.0	4.731804	50.0	498795.0	1.182951	Y
5	STD10 280-662184/31	8.0	10.769586	50.0	504583.0	1.346198	Y
6	ICIS 280-662184/32	40.0	58.009513	50.0	539883.0	1.450238	Y
7	STD75 280-662184/33	60.0	84.046731	50.0	531471.0	1.400779	Y
8	STD100 280-662184/34	80.0	112.859484	50.0	572904.0	1.410744	Y
9	STD200 280-662184/35	160.0	223.619258	50.0	630295.0	1.39762	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

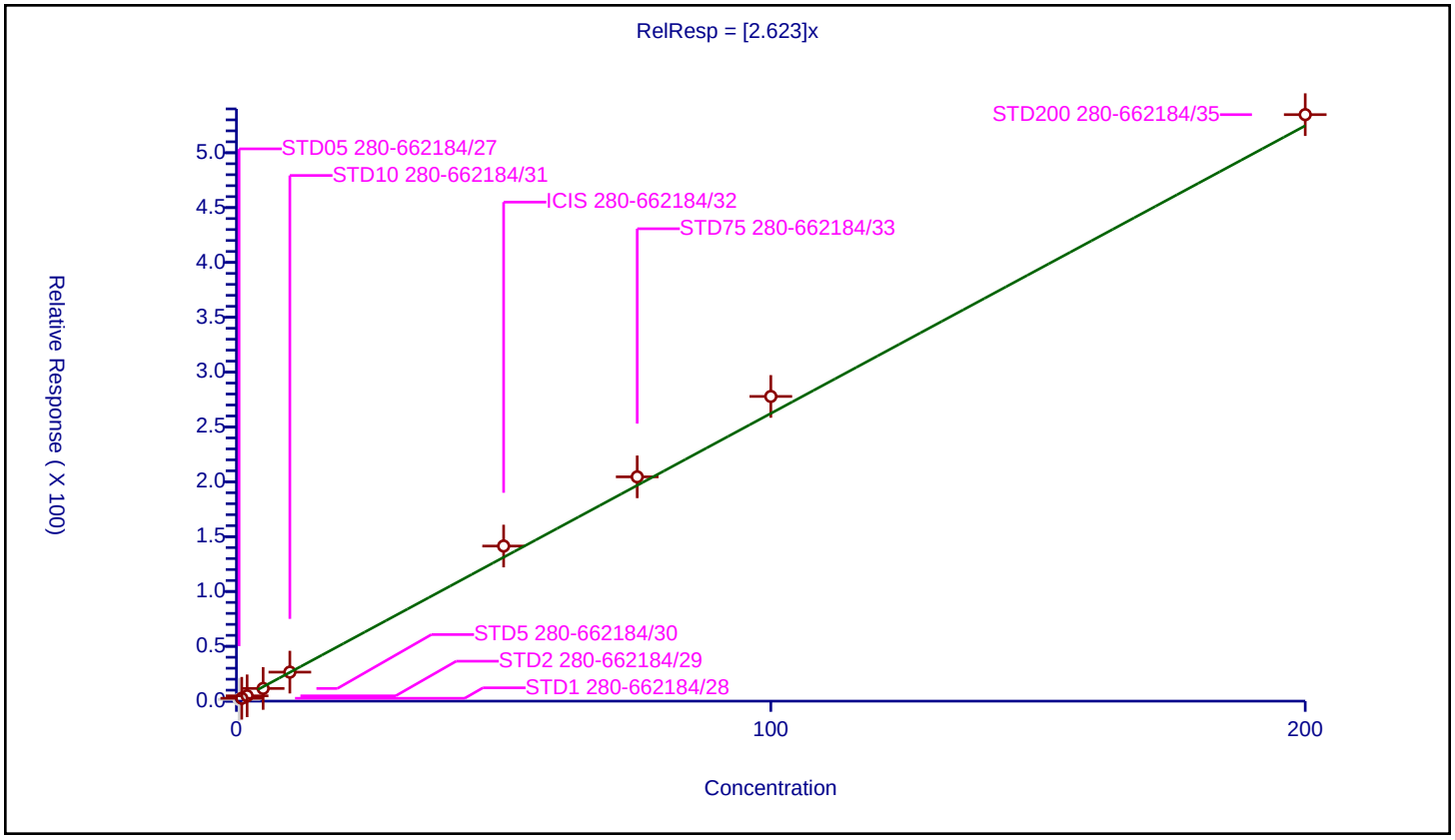
Curve Coefficients

Intercept:	0
Slope:	2.623

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.578354	50.0	512179.0	3.156709	N
2	STD1 280-662184/28	1.0	2.600394	50.0	503962.0	2.600394	Y
3	STD2 280-662184/29	2.0	4.833957	50.0	484272.0	2.416978	Y
4	STD5 280-662184/30	5.0	11.583115	50.0	498795.0	2.316623	Y
5	STD10 280-662184/31	10.0	26.453824	50.0	504583.0	2.645382	Y
6	ICIS 280-662184/32	50.0	141.419252	50.0	539883.0	2.828385	Y
7	STD75 280-662184/33	75.0	204.501563	50.0	531471.0	2.726688	Y
8	STD100 280-662184/34	100.0	277.813648	50.0	572904.0	2.778136	Y
9	STD200 280-662184/35	200.0	534.754282	50.0	630295.0	2.673771	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

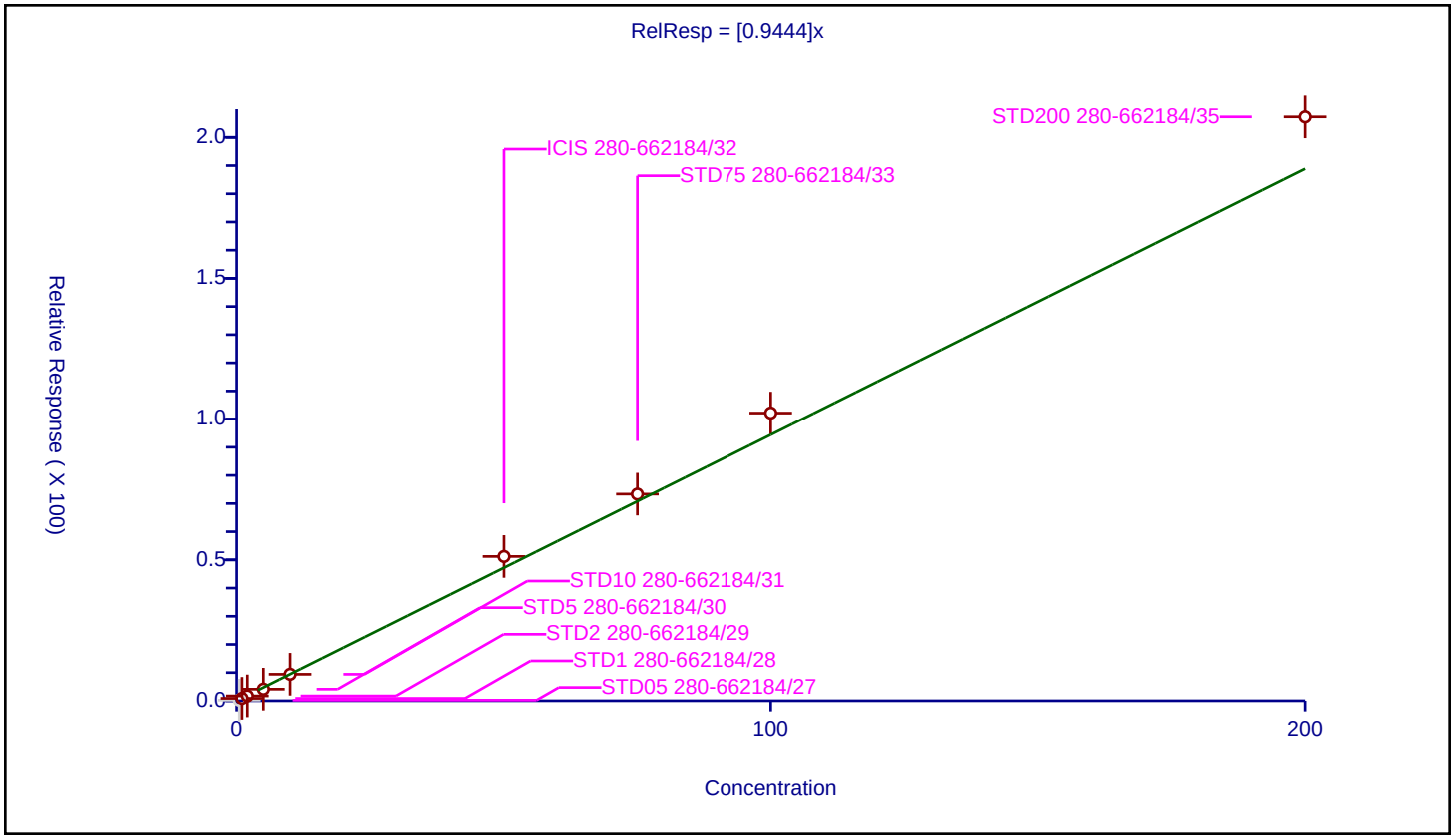
Curve Coefficients

Intercept:	0
Slope:	0.9444

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.223164	50.0	512179.0	0.446328	N
2	STD1 280-662184/28	1.0	0.860482	50.0	503962.0	0.860482	Y
3	STD2 280-662184/29	2.0	1.735285	50.0	484272.0	0.867643	Y
4	STD5 280-662184/30	5.0	4.125342	50.0	498795.0	0.825068	Y
5	STD10 280-662184/31	10.0	9.413714	50.0	504583.0	0.941371	Y
6	ICIS 280-662184/32	50.0	51.221746	50.0	539883.0	1.024435	Y
7	STD75 280-662184/33	75.0	73.35753	50.0	531471.0	0.9781	Y
8	STD100 280-662184/34	100.0	102.14556	50.0	572904.0	1.021456	Y
9	STD200 280-662184/35	200.0	207.271278	50.0	630295.0	1.036356	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

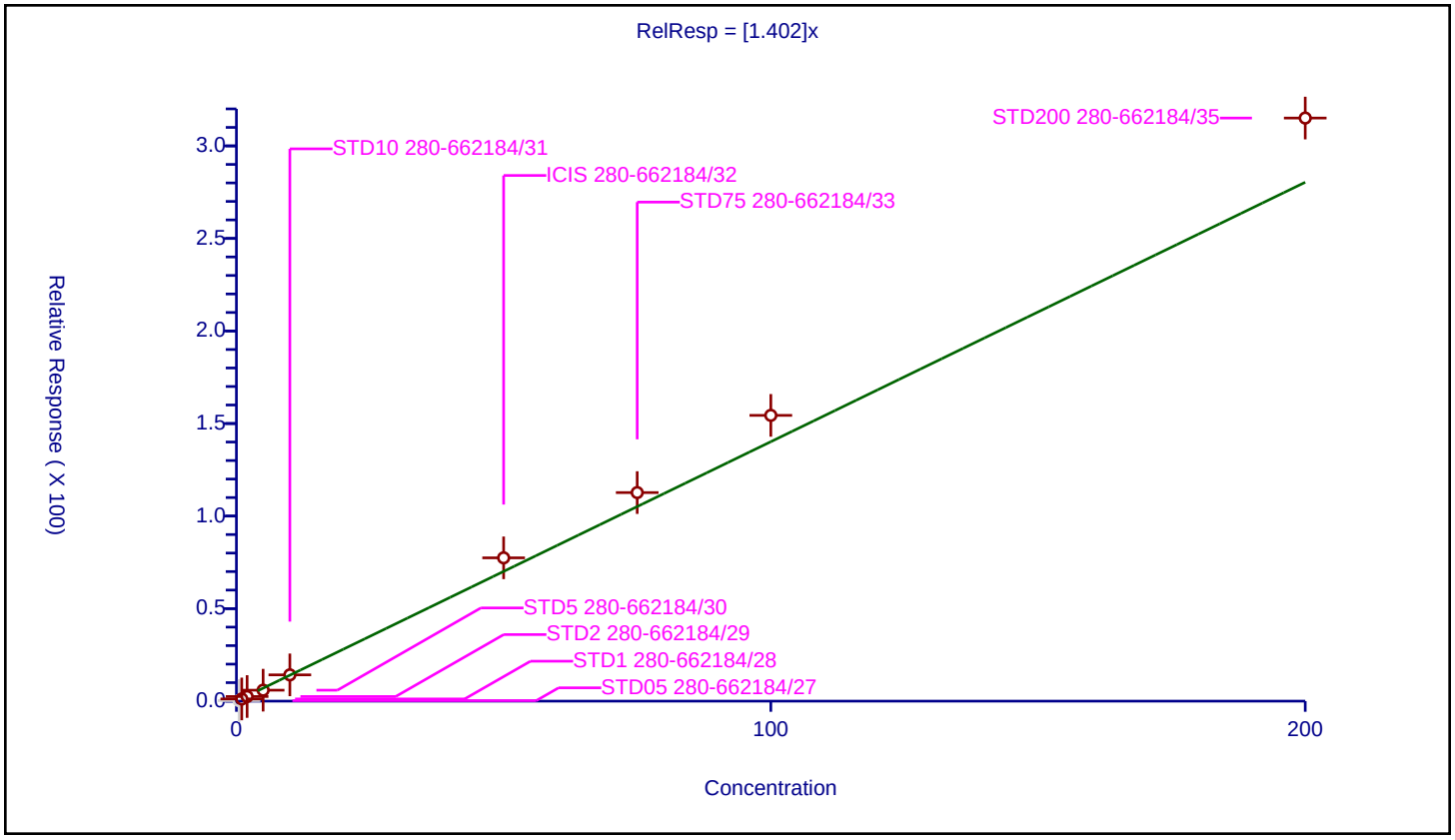
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.285935	50.0	512179.0	0.57187	N
2	STD1 280-662184/28	1.0	1.190268	50.0	503962.0	1.190268	Y
3	STD2 280-662184/29	2.0	2.49746	50.0	484272.0	1.24873	Y
4	STD5 280-662184/30	5.0	5.926683	50.0	498795.0	1.185337	Y
5	STD10 280-662184/31	10.0	14.194691	50.0	504583.0	1.419469	Y
6	ICIS 280-662184/32	50.0	77.425942	50.0	539883.0	1.548519	Y
7	STD75 280-662184/33	75.0	112.682536	50.0	531471.0	1.502434	Y
8	STD100 280-662184/34	100.0	154.40929	50.0	572904.0	1.544093	Y
9	STD200 280-662184/35	200.0	315.050096	50.0	630295.0	1.57525	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

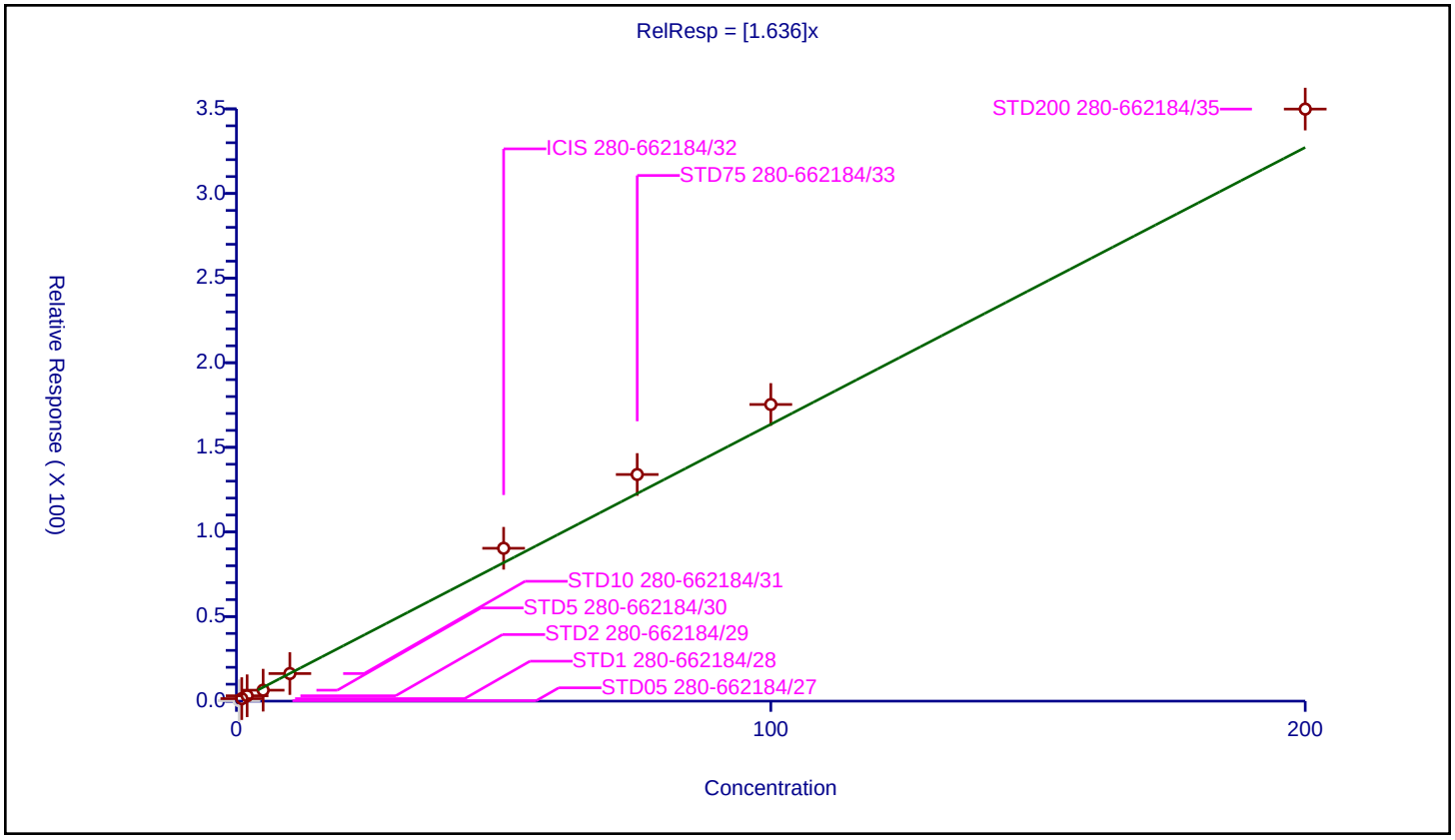
Curve Coefficients

Intercept:	0
Slope:	1.636

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.271292	50.0	512179.0	0.542584	N
2	STD1 280-662184/28	1.0	1.481759	50.0	503962.0	1.481759	Y
3	STD2 280-662184/29	2.0	3.171668	50.0	484272.0	1.585834	Y
4	STD5 280-662184/30	5.0	6.478413	50.0	498795.0	1.295683	Y
5	STD10 280-662184/31	10.0	16.304652	50.0	504583.0	1.630465	Y
6	ICIS 280-662184/32	50.0	90.344204	50.0	539883.0	1.806884	Y
7	STD75 280-662184/33	75.0	133.940892	50.0	531471.0	1.785879	Y
8	STD100 280-662184/34	100.0	175.317418	50.0	572904.0	1.753174	Y
9	STD200 280-662184/35	200.0	349.88902	50.0	630295.0	1.749445	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

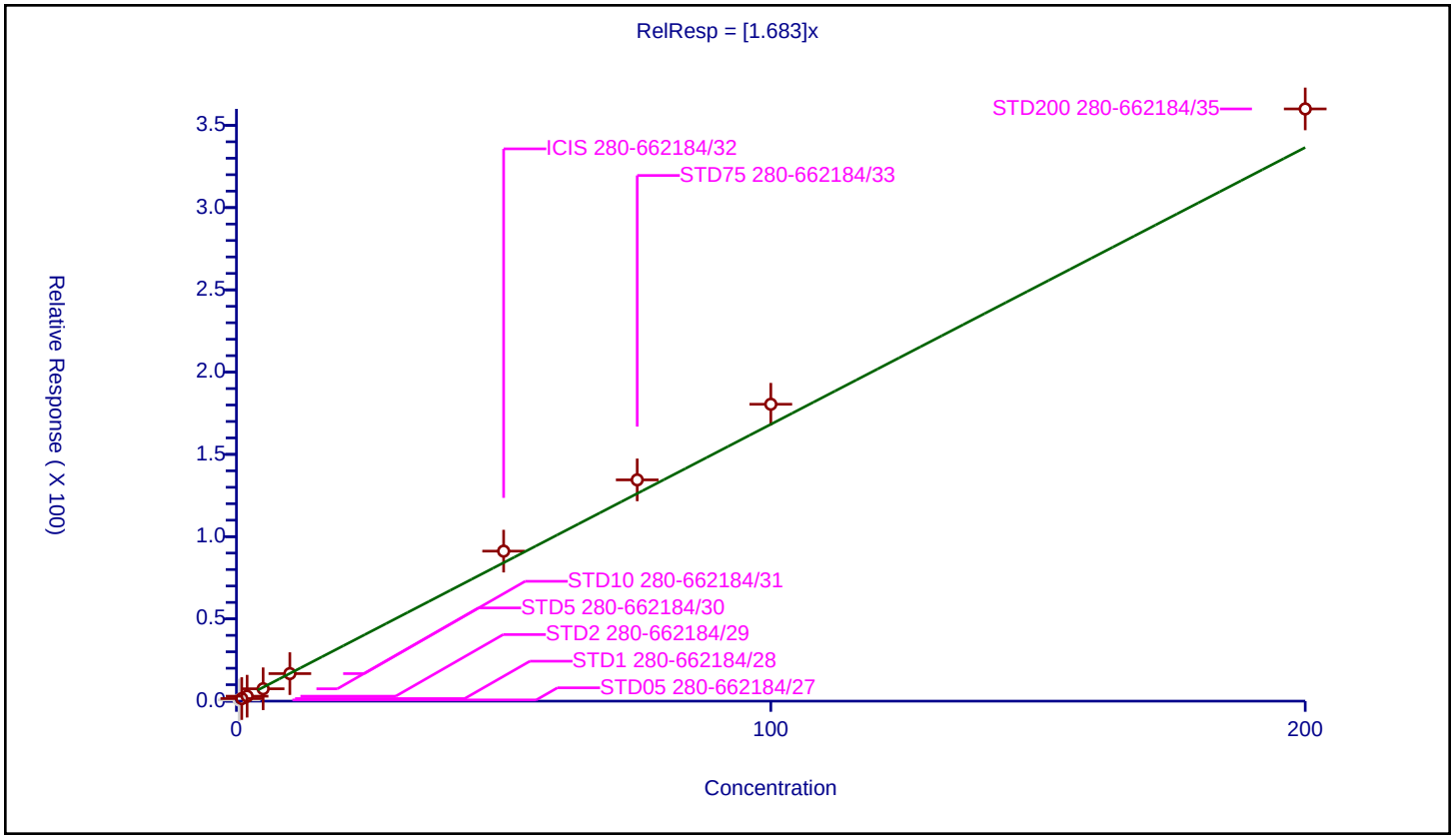
Curve Coefficients

Intercept:	0
Slope:	1.683

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.743392	50.0	512179.0	1.486785	N
2	STD1 280-662184/28	1.0	1.558352	50.0	503962.0	1.558352	Y
3	STD2 280-662184/29	2.0	3.009569	50.0	484272.0	1.504785	Y
4	STD5 280-662184/30	5.0	7.51872	50.0	498795.0	1.503744	Y
5	STD10 280-662184/31	10.0	16.735007	50.0	504583.0	1.673501	Y
6	ICIS 280-662184/32	50.0	91.184942	50.0	539883.0	1.823699	Y
7	STD75 280-662184/33	75.0	134.48937	50.0	531471.0	1.793192	Y
8	STD100 280-662184/34	100.0	180.468455	50.0	572904.0	1.804685	Y
9	STD200 280-662184/35	200.0	359.976122	50.0	630295.0	1.799881	Y



Calibration / Styrene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

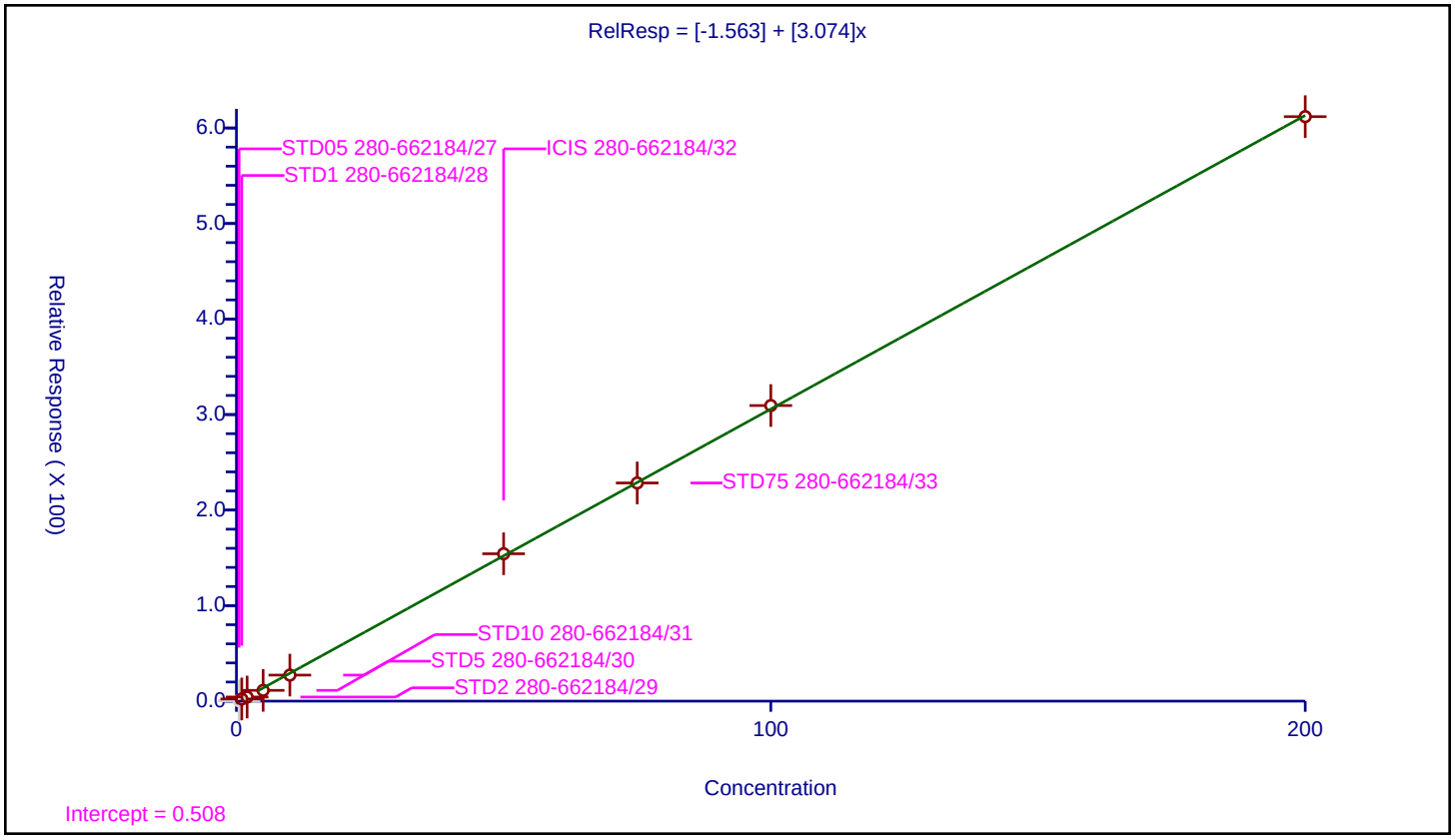
Curve Coefficients

Intercept:	-1.563
Slope:	3.074

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.359738	50.0	512179.0	0.719475	N
2	STD1 280-662184/28	1.0	2.283803	50.0	503962.0	2.283803	Y
3	STD2 280-662184/29	2.0	4.302747	50.0	484272.0	2.151374	Y
4	STD5 280-662184/30	5.0	11.275574	50.0	498795.0	2.255115	Y
5	STD10 280-662184/31	10.0	27.252107	50.0	504583.0	2.725211	Y
6	ICIS 280-662184/32	50.0	154.282224	50.0	539883.0	3.085644	Y
7	STD75 280-662184/33	75.0	228.382546	50.0	531471.0	3.045101	Y
8	STD100 280-662184/34	100.0	309.449751	50.0	572904.0	3.094498	Y
9	STD200 280-662184/35	200.0	611.874757	50.0	630295.0	3.059374	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

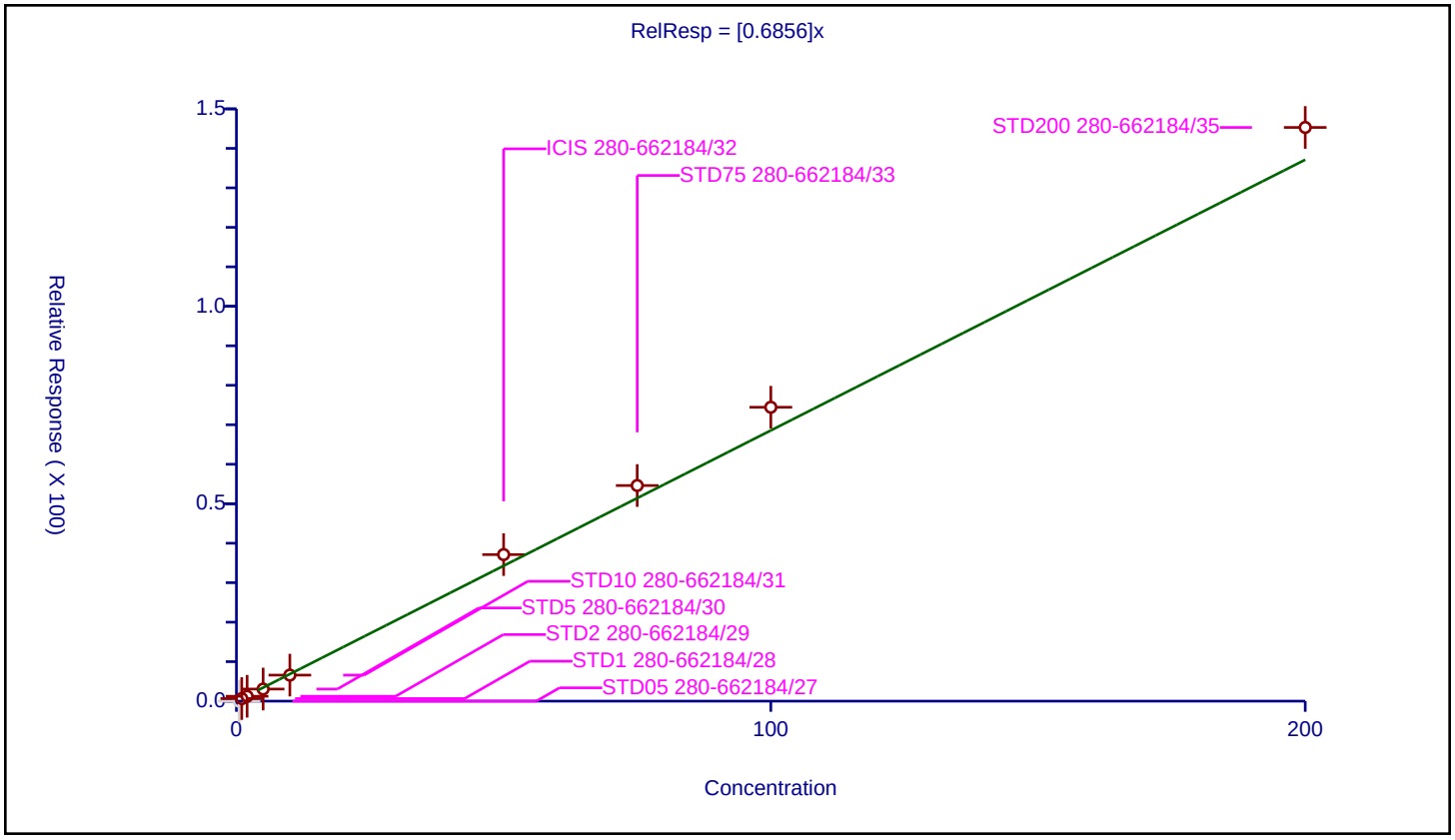
Curve Coefficients

Intercept:	0
Slope:	0.6856

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	512179.0	0.0	N
2	STD1 280-662184/28	1.0	0.651736	50.0	503962.0	0.651736	Y
3	STD2 280-662184/29	2.0	1.239489	50.0	484272.0	0.619745	Y
4	STD5 280-662184/30	5.0	3.064686	50.0	498795.0	0.612937	Y
5	STD10 280-662184/31	10.0	6.591086	50.0	504583.0	0.659109	Y
6	ICIS 280-662184/32	50.0	37.115171	50.0	539883.0	0.742303	Y
7	STD75 280-662184/33	75.0	54.611917	50.0	531471.0	0.728159	Y
8	STD100 280-662184/34	100.0	74.432278	50.0	572904.0	0.744323	Y
9	STD200 280-662184/35	200.0	145.295298	50.0	630295.0	0.726476	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

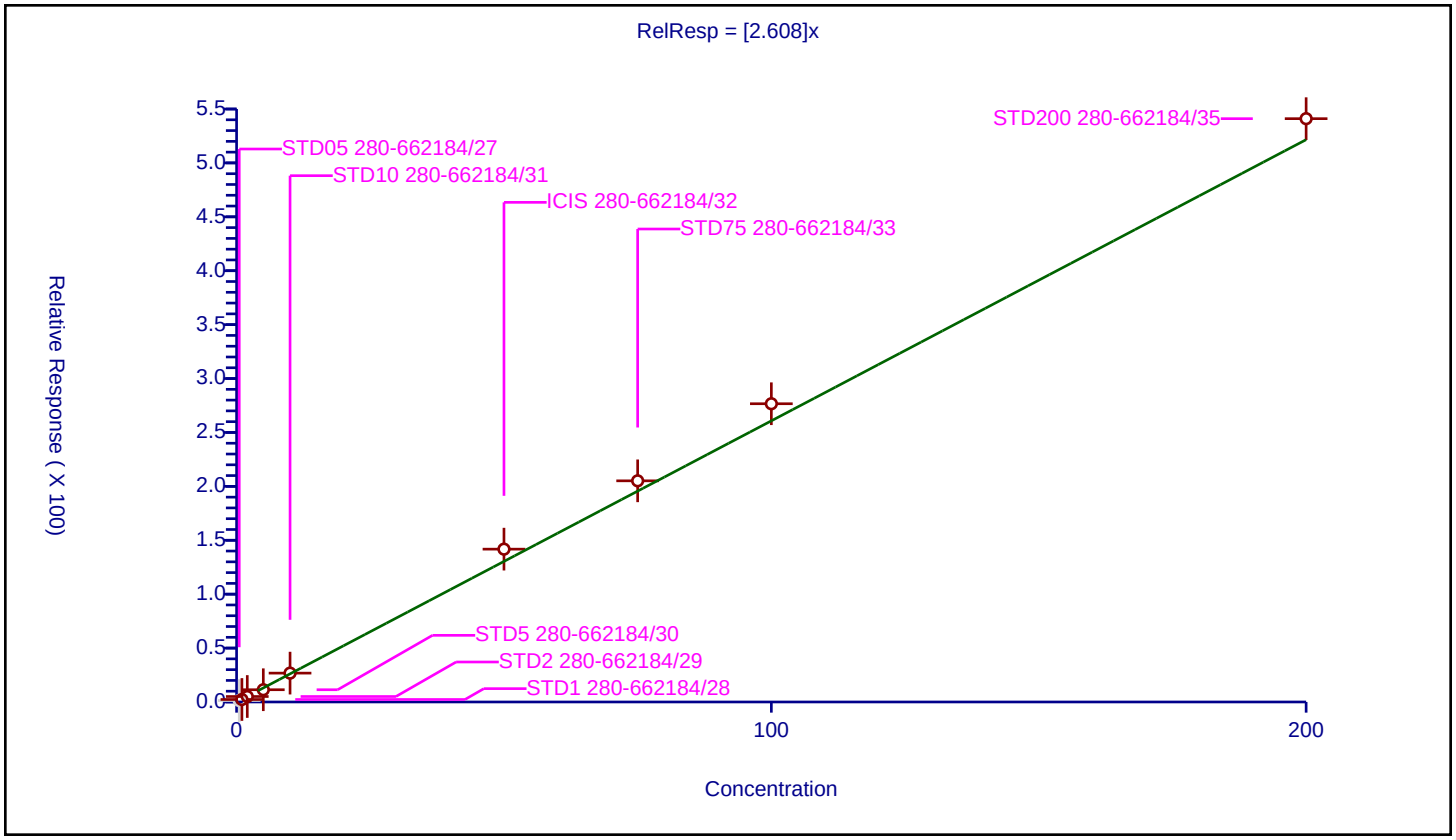
Curve Coefficients

Intercept:	0
Slope:	2.608

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.347918	50.0	788735.0	2.695836	N
2	STD1 280-662184/28	1.0	2.323934	50.0	792815.0	2.323934	Y
3	STD2 280-662184/29	2.0	5.094266	50.0	770690.0	2.547133	Y
4	STD5 280-662184/30	5.0	11.365926	50.0	792210.0	2.273185	Y
5	STD10 280-662184/31	10.0	26.765825	50.0	816205.0	2.676582	Y
6	ICIS 280-662184/32	50.0	141.753377	50.0	879748.0	2.835068	Y
7	STD75 280-662184/33	75.0	205.139072	50.0	882241.0	2.735188	Y
8	STD100 280-662184/34	100.0	276.631183	50.0	938552.0	2.766312	Y
9	STD200 280-662184/35	200.0	541.054221	50.0	1002143.0	2.705271	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

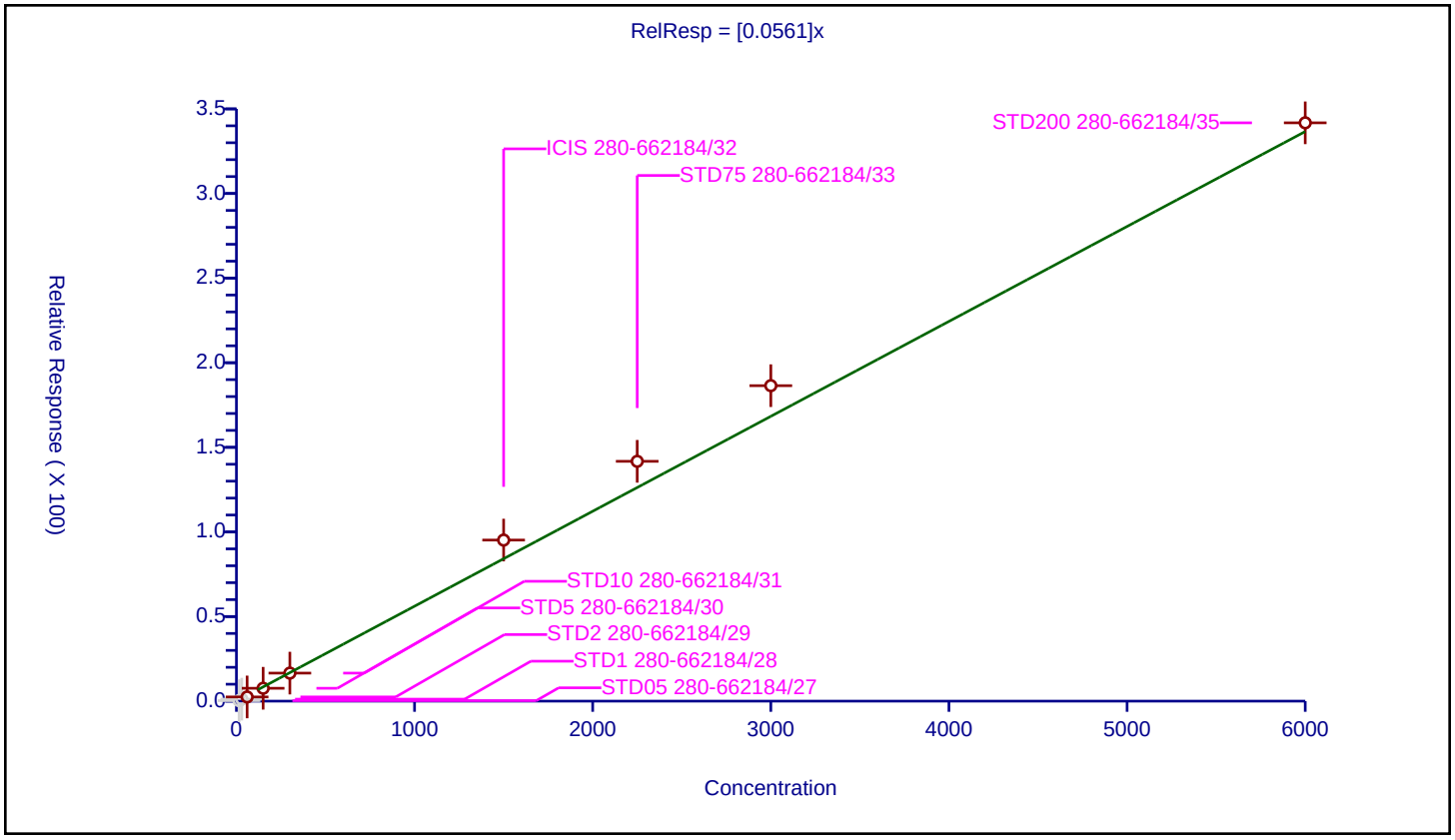
Curve Coefficients

Intercept:	0
Slope:	0.0561

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	15.0	0.295893	50.0	512179.0	0.019726	N
2	STD1 280-662184/28	30.0	1.179156	50.0	503962.0	0.039305	N
3	STD2 280-662184/29	60.0	2.47361	50.0	484272.0	0.041227	Y
4	STD5 280-662184/30	150.0	7.605229	50.0	498795.0	0.050702	Y
5	STD10 280-662184/31	300.0	16.572001	50.0	504583.0	0.05524	Y
6	ICIS 280-662184/32	1500.0	95.186642	50.0	539883.0	0.063458	Y
7	STD75 280-662184/33	2250.0	141.730123	50.0	531471.0	0.062991	Y
8	STD100 280-662184/34	3000.0	186.438391	50.0	572904.0	0.062146	Y
9	STD200 280-662184/35	6000.0	341.762032	50.0	630295.0	0.05696	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

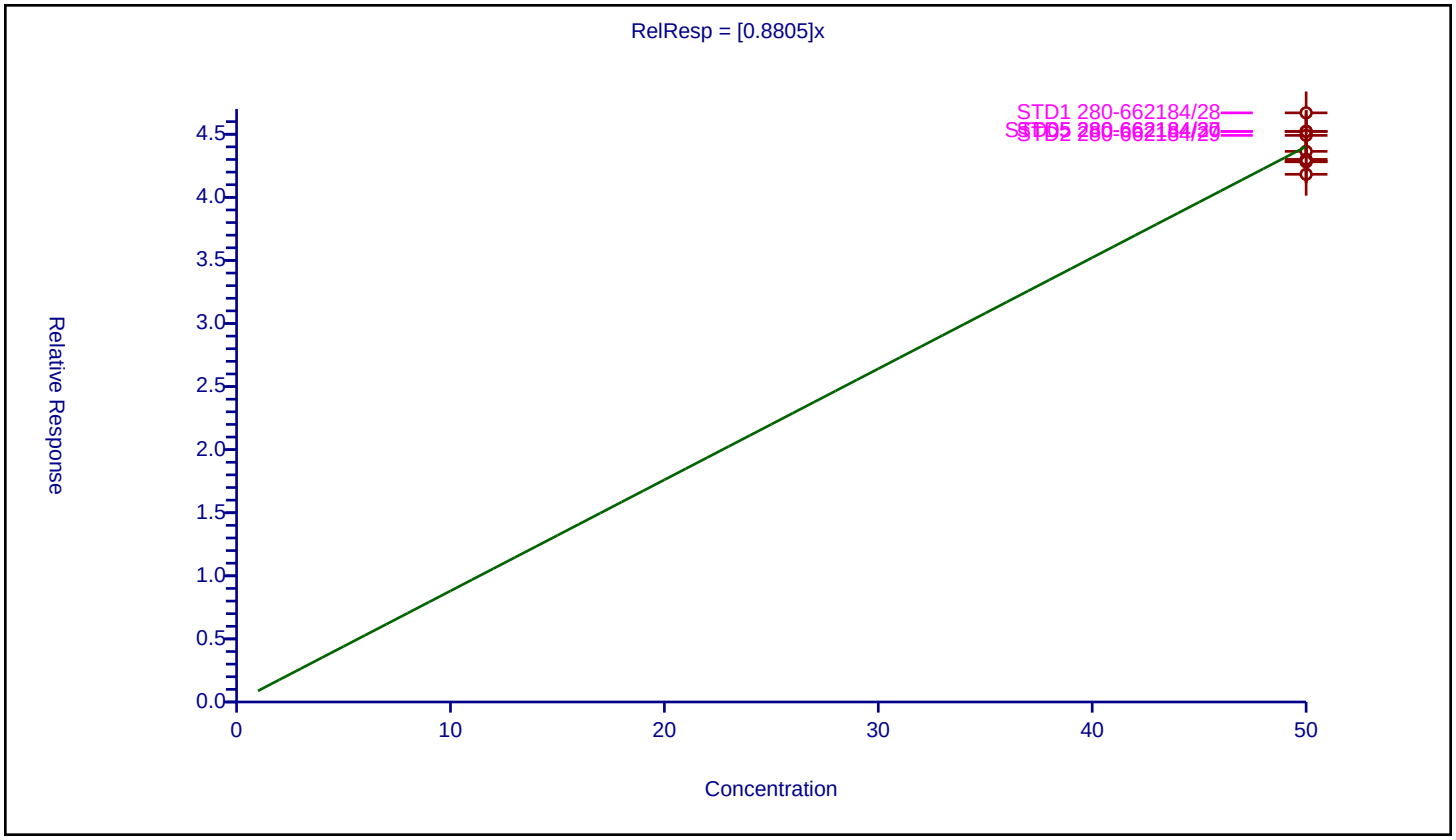
Curve Coefficients

Intercept:	0
Slope:	0.8805

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	50.0	45.229513	50.0	788735.0	0.90459	Y
2	STD1 280-662184/28	50.0	46.694878	50.0	792815.0	0.933898	Y
3	STD2 280-662184/29	50.0	44.909043	50.0	770690.0	0.898181	Y
4	STD5 280-662184/30	50.0	45.22513	50.0	792210.0	0.904503	Y
5	STD10 280-662184/31	50.0	43.643754	50.0	816205.0	0.872875	Y
6	ICIS 280-662184/32	50.0	42.856193	50.0	879748.0	0.857124	Y
7	STD75 280-662184/33	50.0	42.814718	50.0	882241.0	0.856294	Y
8	STD100 280-662184/34	50.0	43.006408	50.0	938552.0	0.860128	Y
9	STD200 280-662184/35	50.0	41.825268	50.0	1002143.0	0.836505	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

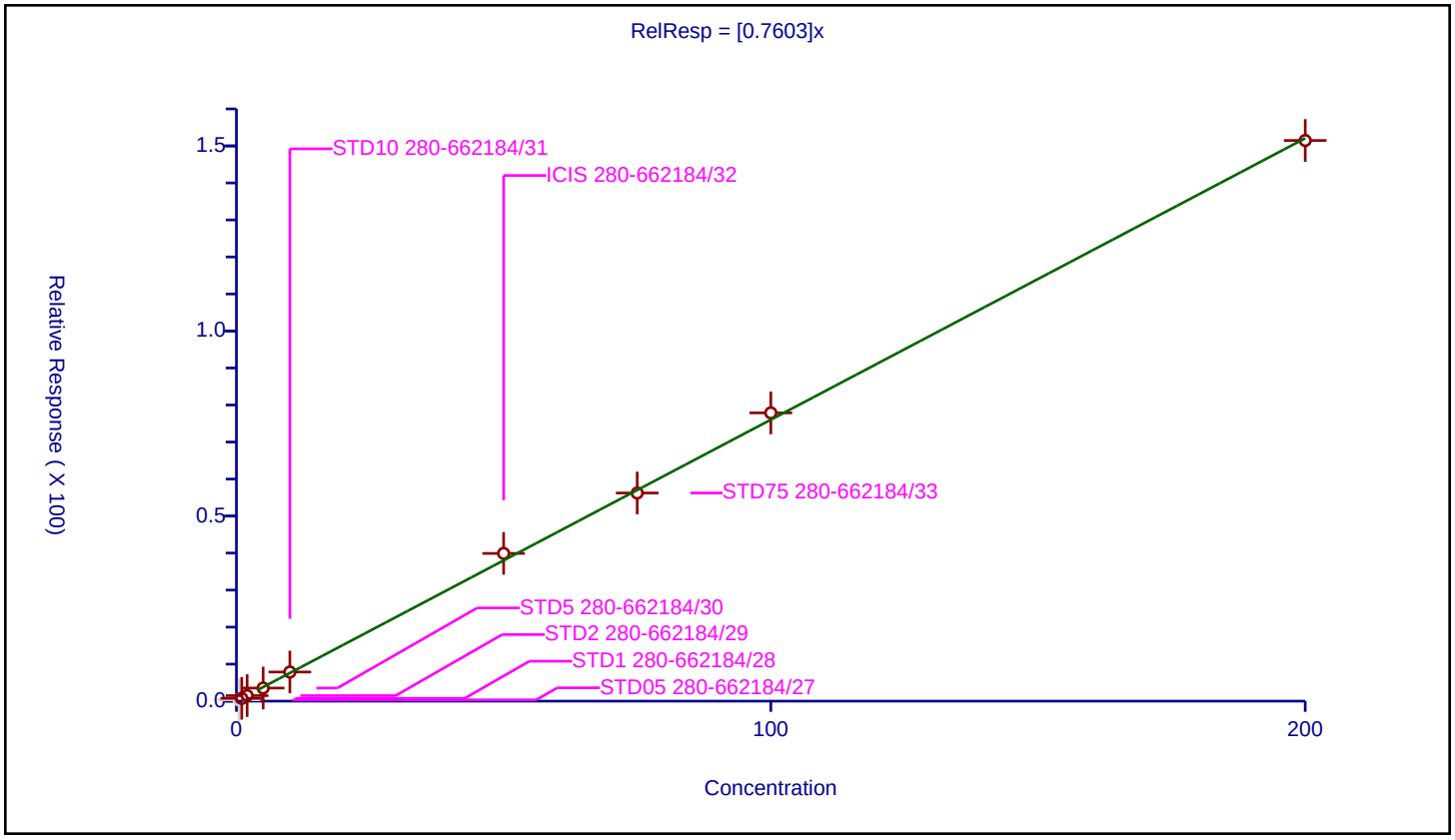
Curve Coefficients

Intercept:	0
Slope:	0.7603

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.348216	50.0	788735.0	0.696432	N
2	STD1 280-662184/28	1.0	0.758311	50.0	792815.0	0.758311	Y
3	STD2 280-662184/29	2.0	1.493078	50.0	770690.0	0.746539	Y
4	STD5 280-662184/30	5.0	3.534606	50.0	792210.0	0.706921	Y
5	STD10 280-662184/31	10.0	7.864997	50.0	816205.0	0.7865	Y
6	ICIS 280-662184/32	50.0	39.912339	50.0	879748.0	0.798247	Y
7	STD75 280-662184/33	75.0	56.22653	50.0	882241.0	0.749687	Y
8	STD100 280-662184/34	100.0	77.880661	50.0	938552.0	0.778807	Y
9	STD200 280-662184/35	200.0	151.469451	50.0	1002143.0	0.757347	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

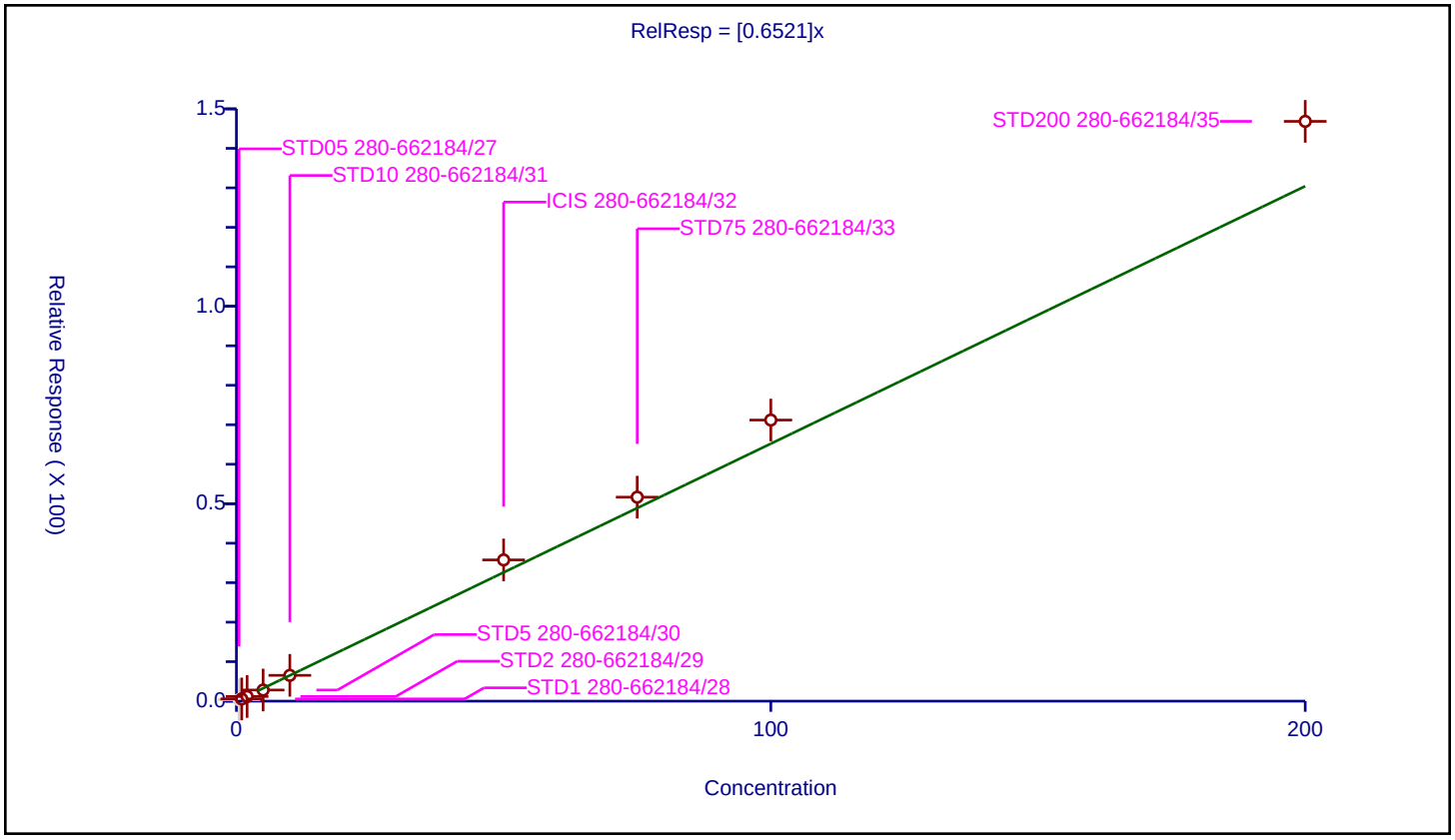
Curve Coefficients

Intercept:	0
Slope:	0.6521

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.361211	50.0	788735.0	0.722423	N
2	STD1 280-662184/28	1.0	0.560534	50.0	792815.0	0.560534	Y
3	STD2 280-662184/29	2.0	1.179982	50.0	770690.0	0.589991	Y
4	STD5 280-662184/30	5.0	2.815163	50.0	792210.0	0.563033	Y
5	STD10 280-662184/31	10.0	6.53059	50.0	816205.0	0.653059	Y
6	ICIS 280-662184/32	50.0	35.76689	50.0	879748.0	0.715338	Y
7	STD75 280-662184/33	75.0	51.660601	50.0	882241.0	0.688808	Y
8	STD100 280-662184/34	100.0	71.188064	50.0	938552.0	0.711881	Y
9	STD200 280-662184/35	200.0	146.834833	50.0	1002143.0	0.734174	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

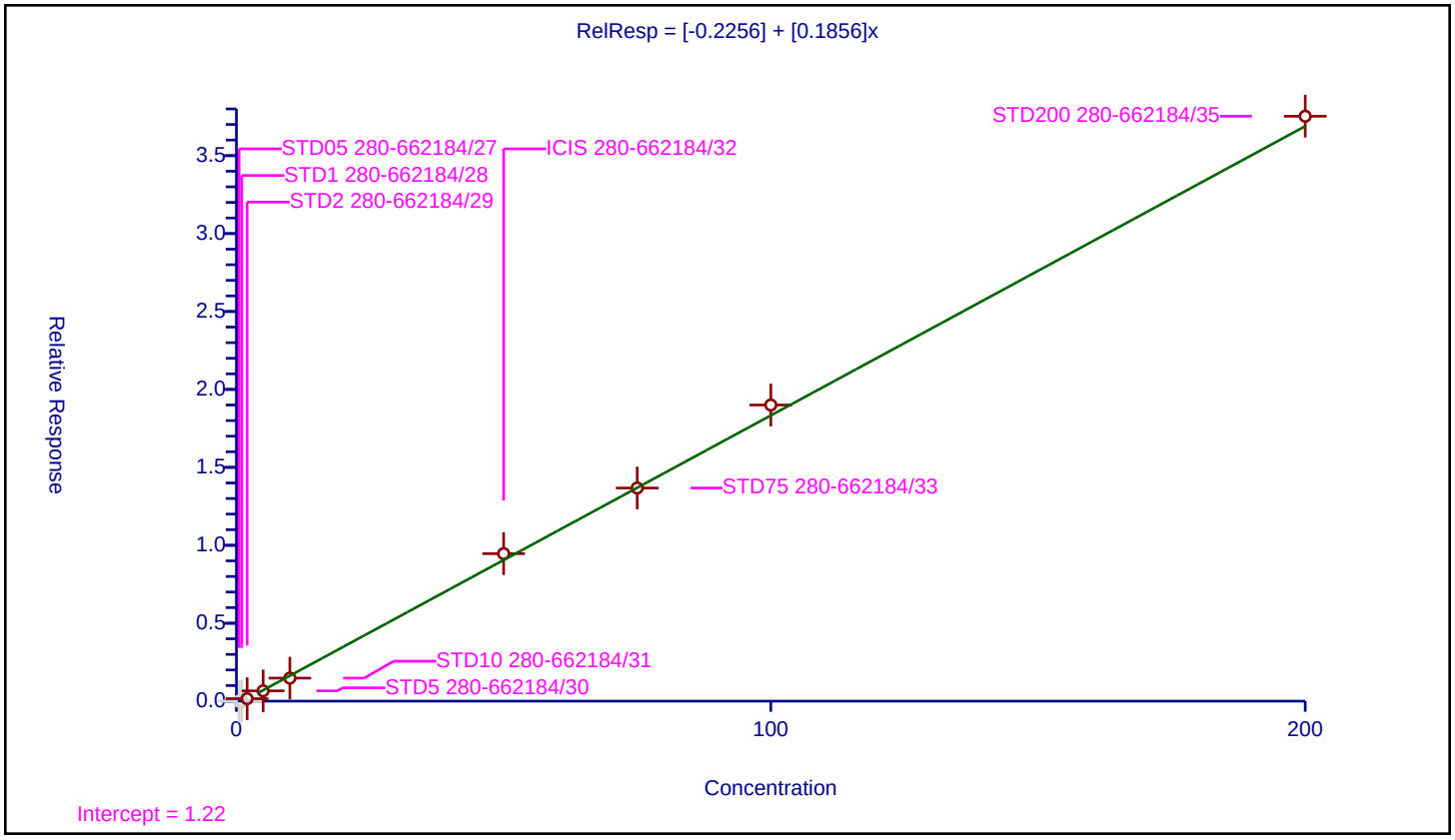
Curve Coefficients

Intercept:	-0.2256
Slope:	0.1856

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	788735.0	0.0	N
2	STD1 280-662184/28	1.0	0.0	50.0	792815.0	0.0	N
3	STD2 280-662184/29	2.0	0.157521	50.0	770690.0	0.078761	Y
4	STD5 280-662184/30	5.0	0.659358	50.0	792210.0	0.131872	Y
5	STD10 280-662184/31	10.0	1.477019	50.0	816205.0	0.147702	Y
6	ICIS 280-662184/32	50.0	9.462994	50.0	879748.0	0.18926	Y
7	STD75 280-662184/33	75.0	13.674211	50.0	882241.0	0.182323	Y
8	STD100 280-662184/34	100.0	19.001025	50.0	938552.0	0.19001	Y
9	STD200 280-662184/35	200.0	37.528826	50.0	1002143.0	0.187644	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

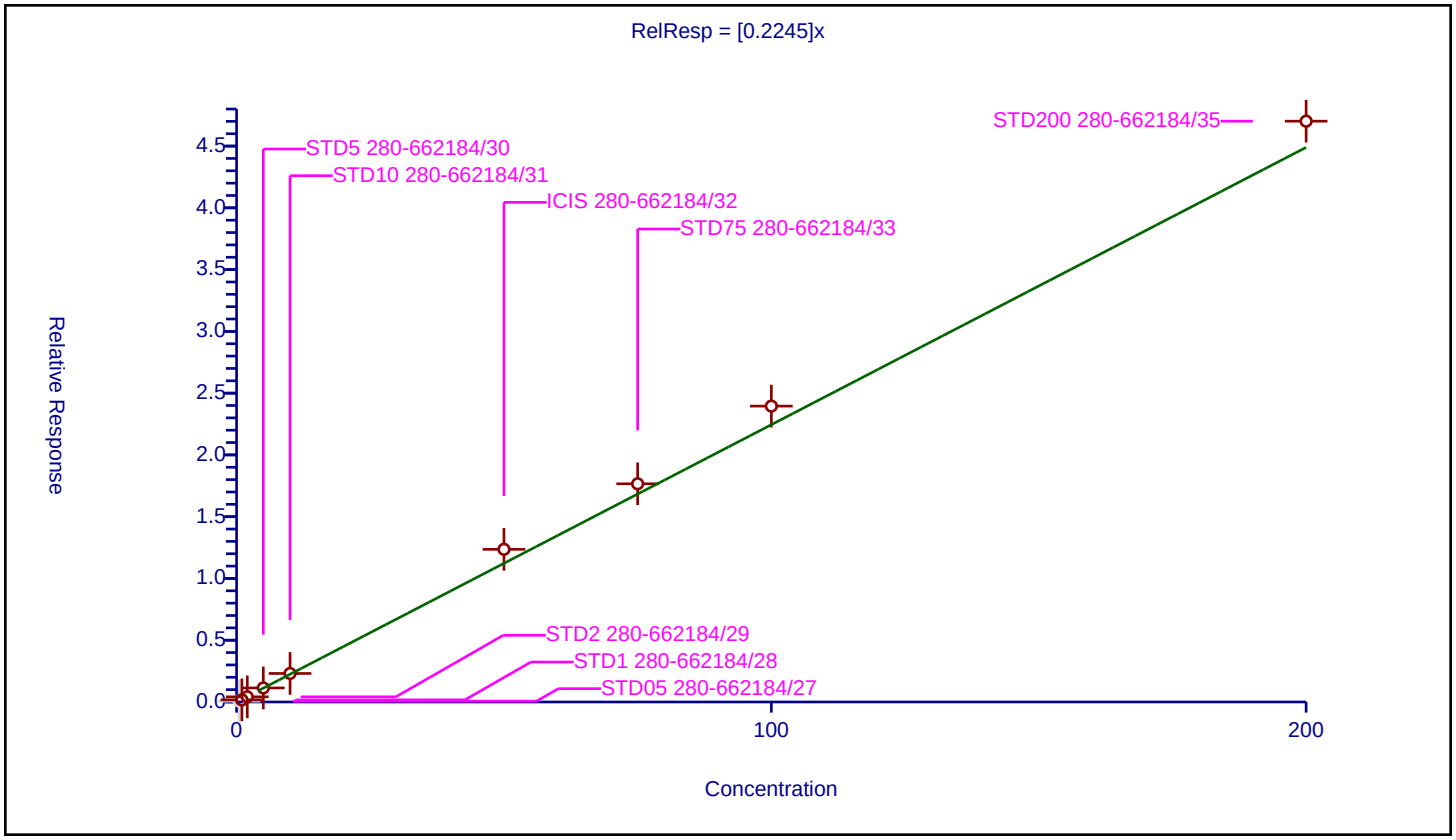
Curve Coefficients

Intercept:	0
Slope:	0.2245

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.070683	50.0	788735.0	0.141366	N
2	STD1 280-662184/28	1.0	0.171793	50.0	792815.0	0.171793	Y
3	STD2 280-662184/29	2.0	0.417613	50.0	770690.0	0.208806	Y
4	STD5 280-662184/30	5.0	1.135494	50.0	792210.0	0.227099	Y
5	STD10 280-662184/31	10.0	2.30806	50.0	816205.0	0.230806	Y
6	ICIS 280-662184/32	50.0	12.357573	50.0	879748.0	0.247151	Y
7	STD75 280-662184/33	75.0	17.662067	50.0	882241.0	0.235494	Y
8	STD100 280-662184/34	100.0	23.951843	50.0	938552.0	0.239518	Y
9	STD200 280-662184/35	200.0	47.015346	50.0	1002143.0	0.235077	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

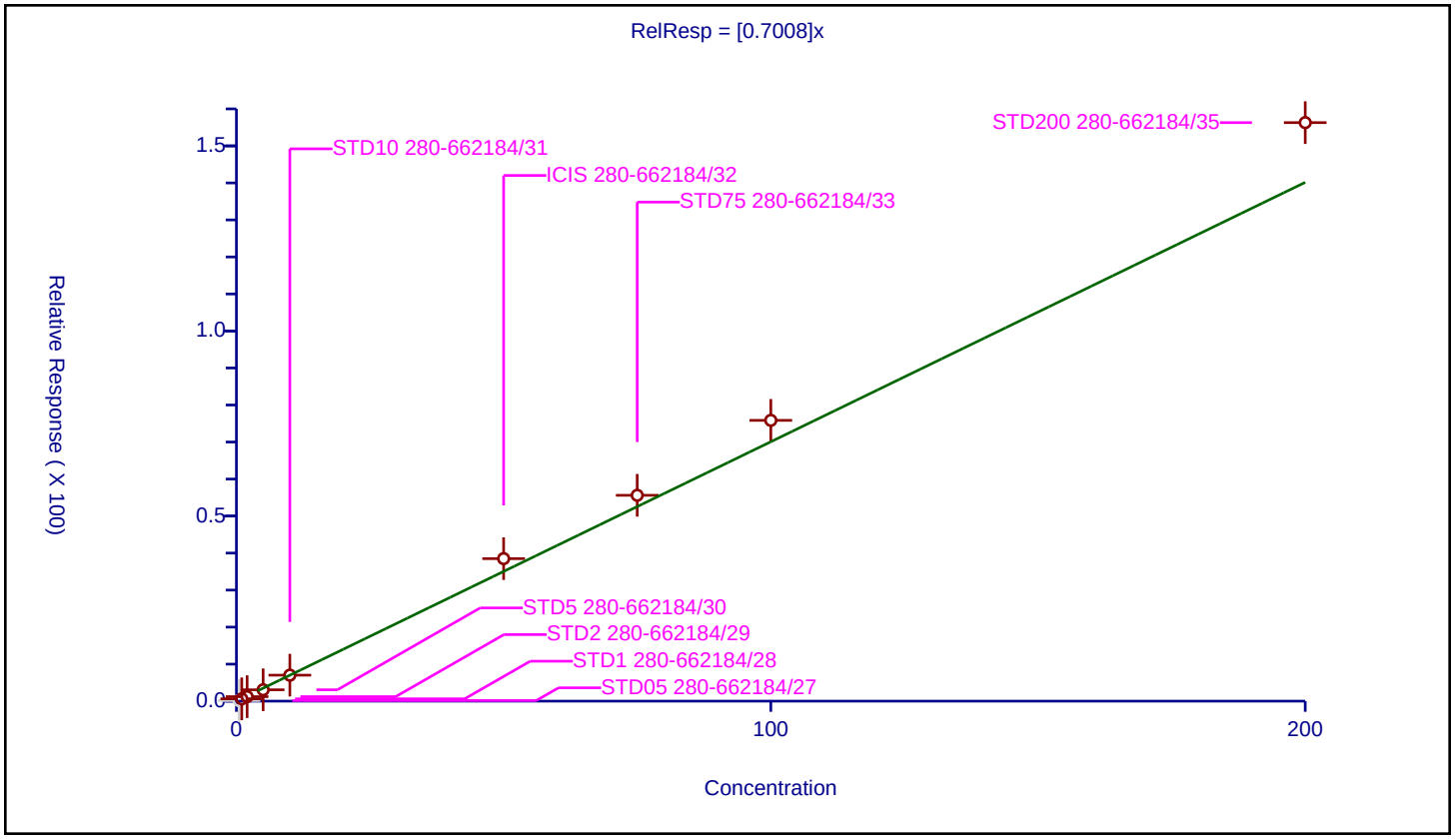
Curve Coefficients

Intercept:	0
Slope:	0.7008

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.158355	50.0	788735.0	0.31671	N
2	STD1 280-662184/28	1.0	0.632304	50.0	792815.0	0.632304	Y
3	STD2 280-662184/29	2.0	1.213069	50.0	770690.0	0.606534	Y
4	STD5 280-662184/30	5.0	3.069199	50.0	792210.0	0.61384	Y
5	STD10 280-662184/31	10.0	7.019009	50.0	816205.0	0.701901	Y
6	ICIS 280-662184/32	50.0	38.498354	50.0	879748.0	0.769967	Y
7	STD75 280-662184/33	75.0	55.609182	50.0	882241.0	0.741456	Y
8	STD100 280-662184/34	100.0	75.860208	50.0	938552.0	0.758602	Y
9	STD200 280-662184/35	200.0	156.289422	50.0	1002143.0	0.781447	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

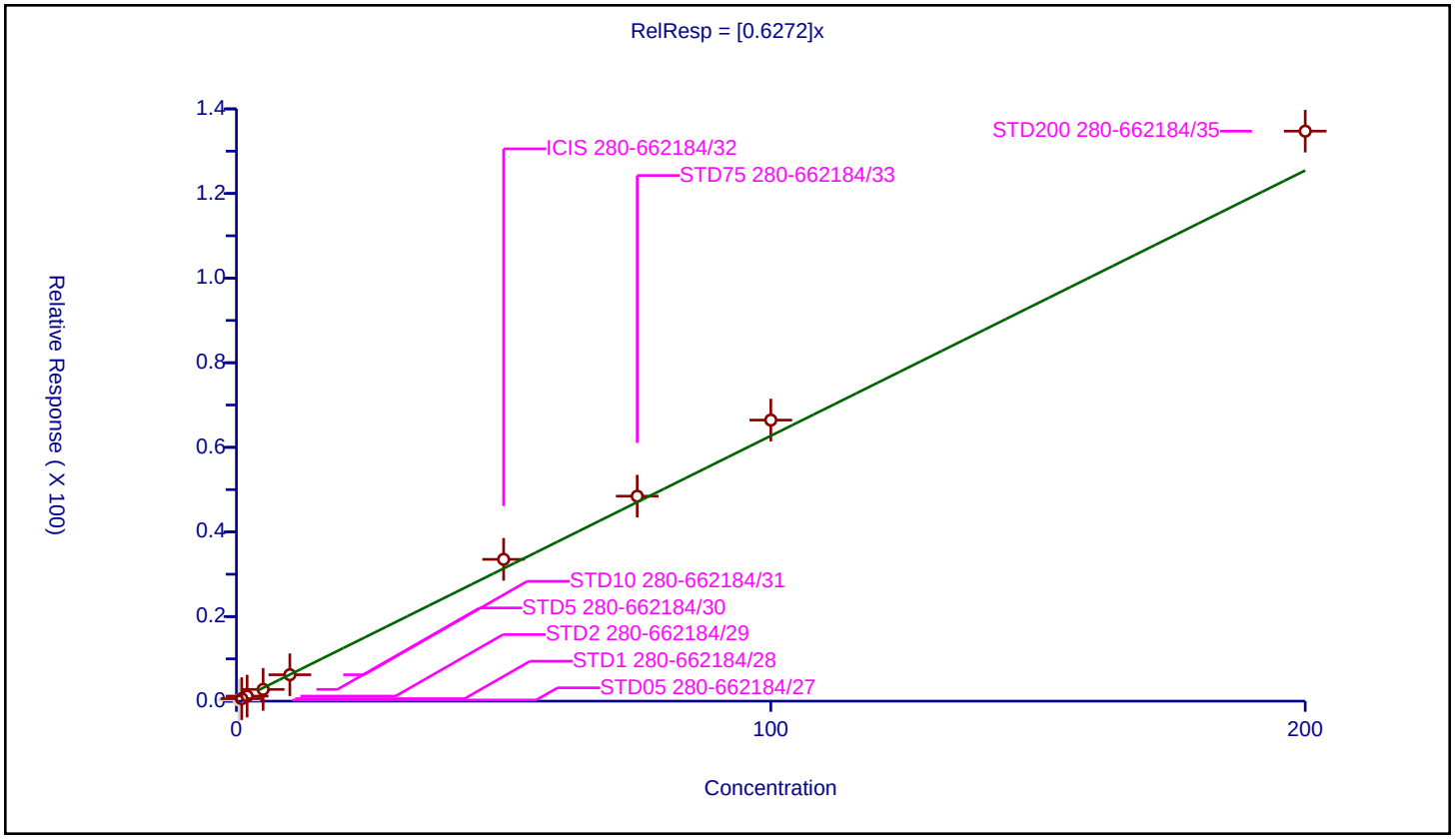
Curve Coefficients

Intercept:	0
Slope:	0.6272

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.265362	50.0	788735.0	0.530723	N
2	STD1 280-662184/28	1.0	0.58841	50.0	792815.0	0.58841	Y
3	STD2 280-662184/29	2.0	1.192762	50.0	770690.0	0.596381	Y
4	STD5 280-662184/30	5.0	2.773507	50.0	792210.0	0.554701	Y
5	STD10 280-662184/31	10.0	6.23967	50.0	816205.0	0.623967	Y
6	ICIS 280-662184/32	50.0	33.51761	50.0	879748.0	0.670352	Y
7	STD75 280-662184/33	75.0	48.450197	50.0	882241.0	0.646003	Y
8	STD100 280-662184/34	100.0	66.436969	50.0	938552.0	0.66437	Y
9	STD200 280-662184/35	200.0	134.734963	50.0	1002143.0	0.673675	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

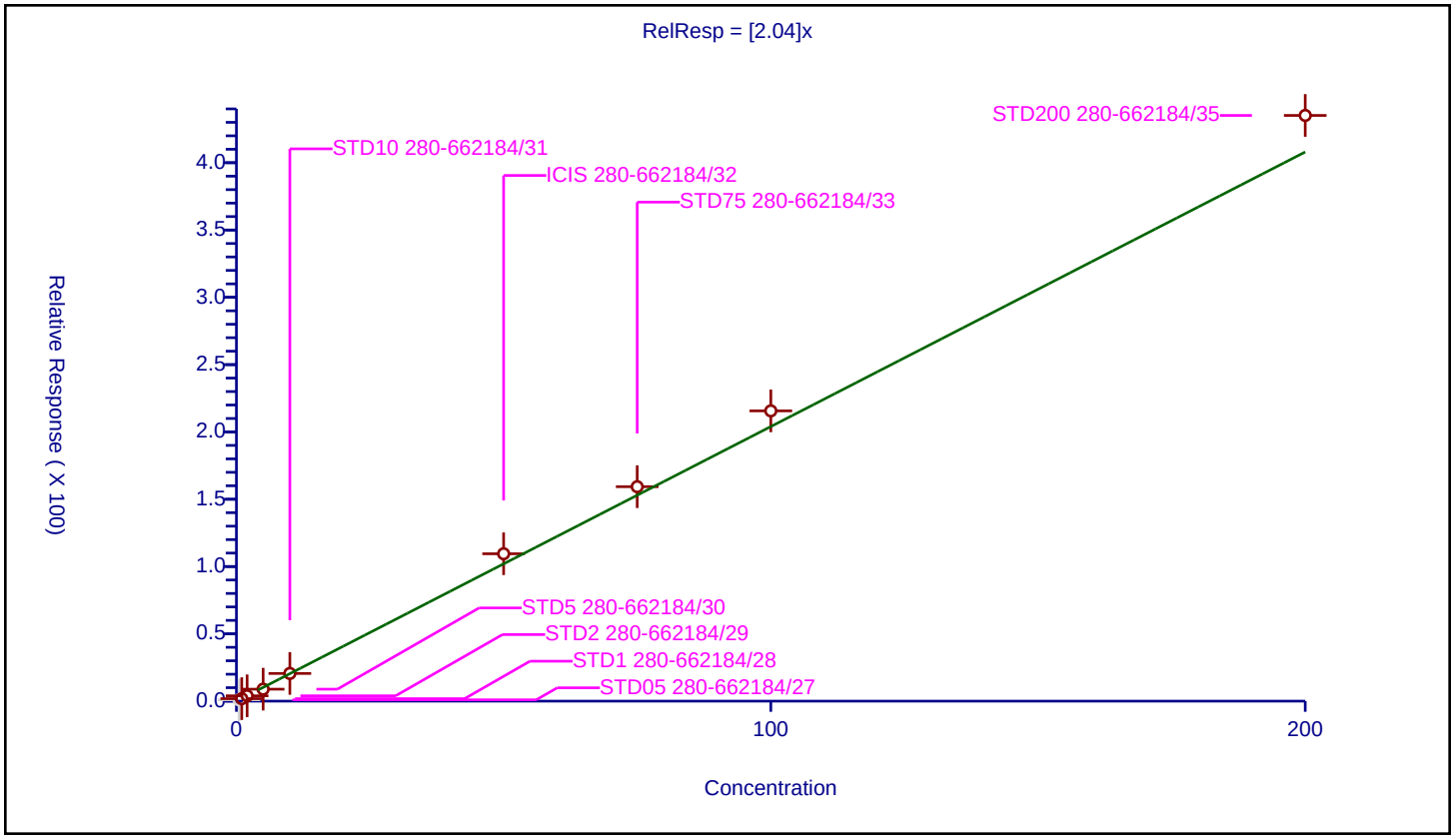
Curve Coefficients

Intercept:	0
Slope:	2.04

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.981255	50.0	788735.0	1.96251	N
2	STD1 280-662184/28	1.0	1.851819	50.0	792815.0	1.851819	Y
3	STD2 280-662184/29	2.0	3.968392	50.0	770690.0	1.984196	Y
4	STD5 280-662184/30	5.0	8.899219	50.0	792210.0	1.779844	Y
5	STD10 280-662184/31	10.0	20.571119	50.0	816205.0	2.057112	Y
6	ICIS 280-662184/32	50.0	109.493571	50.0	879748.0	2.189871	Y
7	STD75 280-662184/33	75.0	159.312648	50.0	882241.0	2.124169	Y
8	STD100 280-662184/34	100.0	215.655765	50.0	938552.0	2.156558	Y
9	STD200 280-662184/35	200.0	435.142041	50.0	1002143.0	2.17571	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

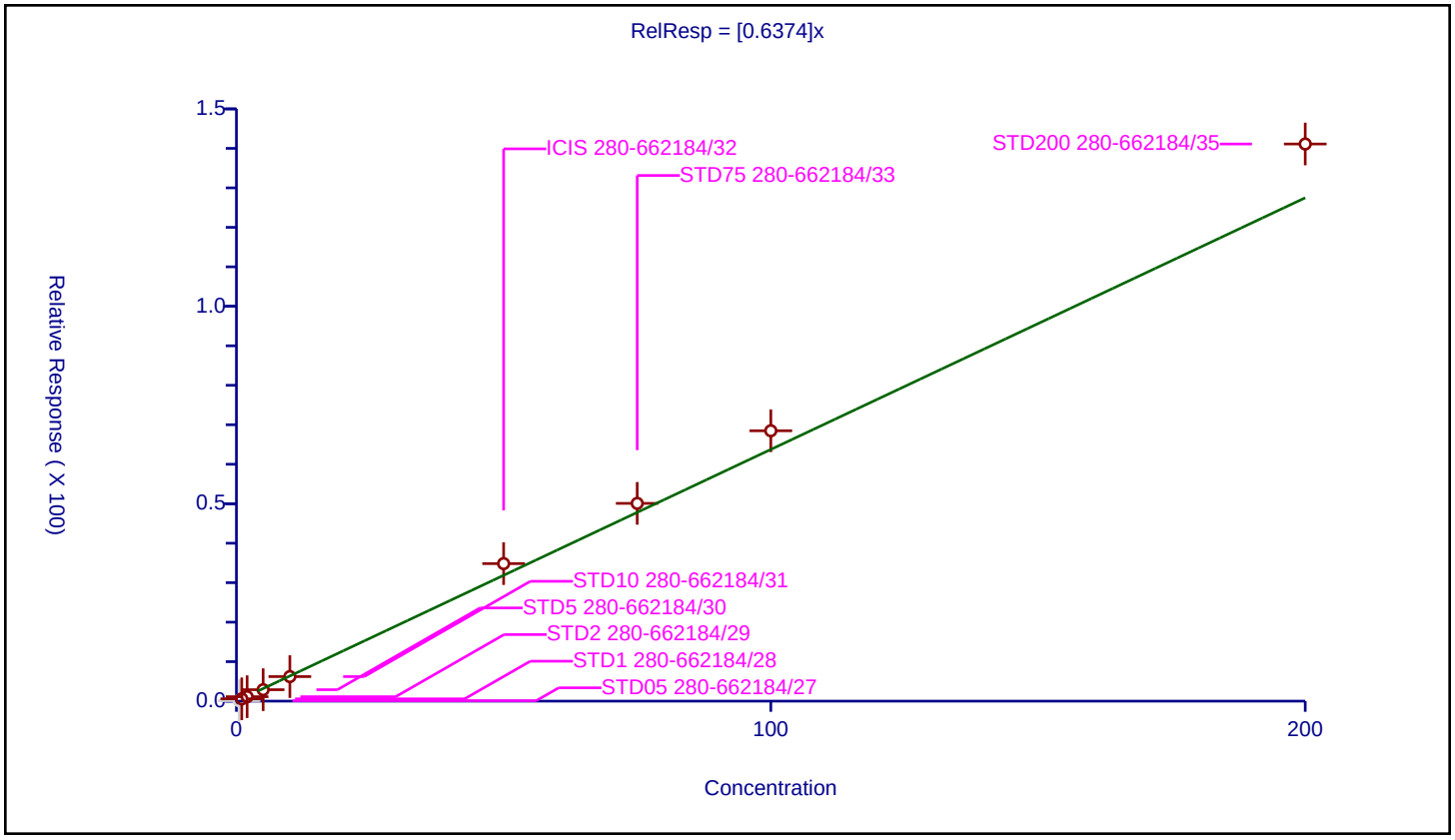
Curve Coefficients

Intercept:	0
Slope:	0.6374

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.116959	50.0	788735.0	0.233919	N
2	STD1 280-662184/28	1.0	0.580652	50.0	792815.0	0.580652	Y
3	STD2 280-662184/29	2.0	1.125355	50.0	770690.0	0.562678	Y
4	STD5 280-662184/30	5.0	2.896265	50.0	792210.0	0.579253	Y
5	STD10 280-662184/31	10.0	6.217556	50.0	816205.0	0.621756	Y
6	ICIS 280-662184/32	50.0	34.833782	50.0	879748.0	0.696676	Y
7	STD75 280-662184/33	75.0	50.091982	50.0	882241.0	0.667893	Y
8	STD100 280-662184/34	100.0	68.480276	50.0	938552.0	0.684803	Y
9	STD200 280-662184/35	200.0	141.111049	50.0	1002143.0	0.705555	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

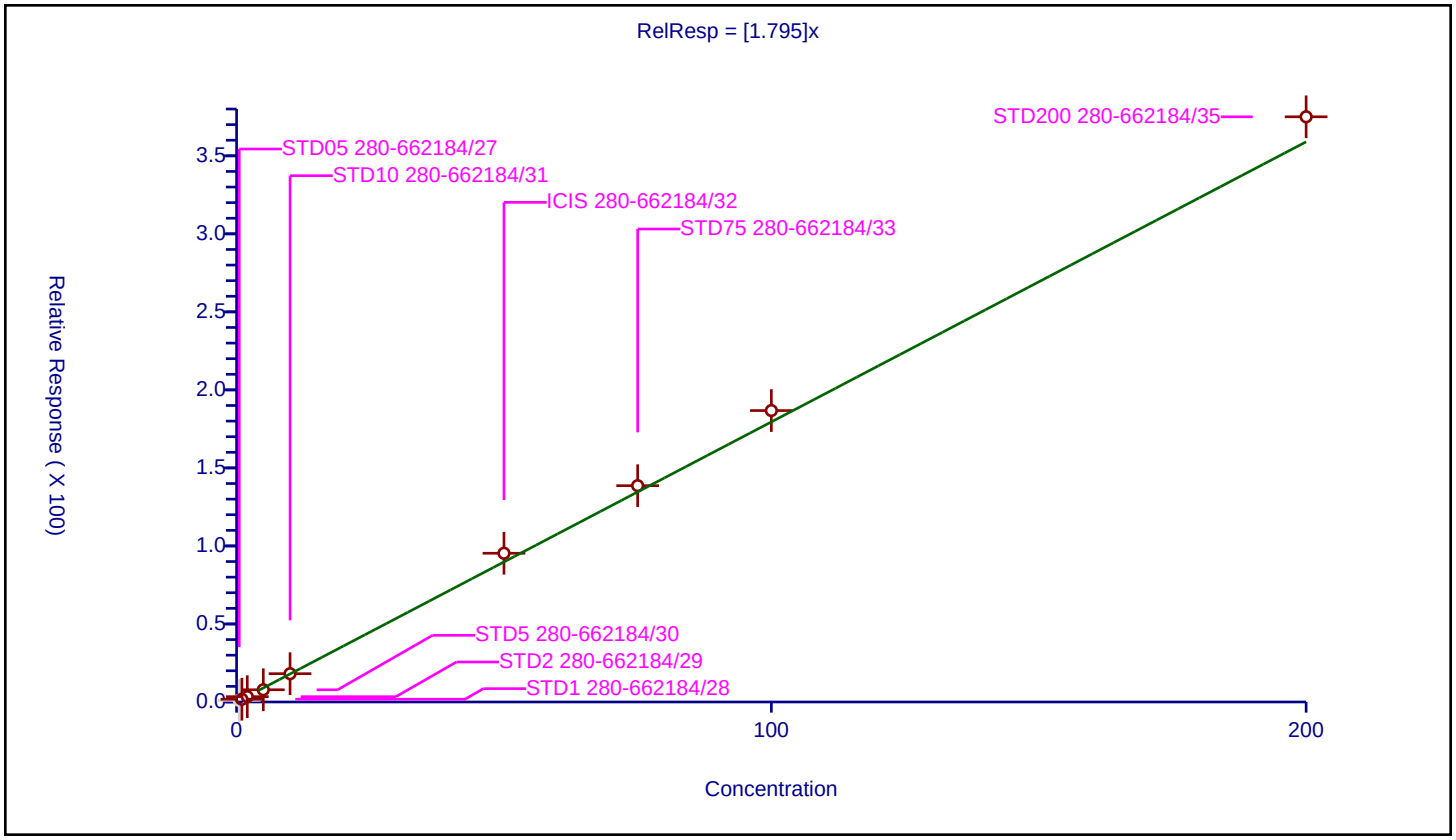
Curve Coefficients

Intercept:	0
Slope:	1.795

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.024679	50.0	788735.0	2.049358	N
2	STD1 280-662184/28	1.0	1.777149	50.0	792815.0	1.777149	Y
3	STD2 280-662184/29	2.0	3.406428	50.0	770690.0	1.703214	Y
4	STD5 280-662184/30	5.0	7.832898	50.0	792210.0	1.56658	Y
5	STD10 280-662184/31	10.0	18.144339	50.0	816205.0	1.814434	Y
6	ICIS 280-662184/32	50.0	95.312578	50.0	879748.0	1.906252	Y
7	STD75 280-662184/33	75.0	138.614109	50.0	882241.0	1.848188	Y
8	STD100 280-662184/34	100.0	186.753052	50.0	938552.0	1.867531	Y
9	STD200 280-662184/35	200.0	375.013346	50.0	1002143.0	1.875067	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

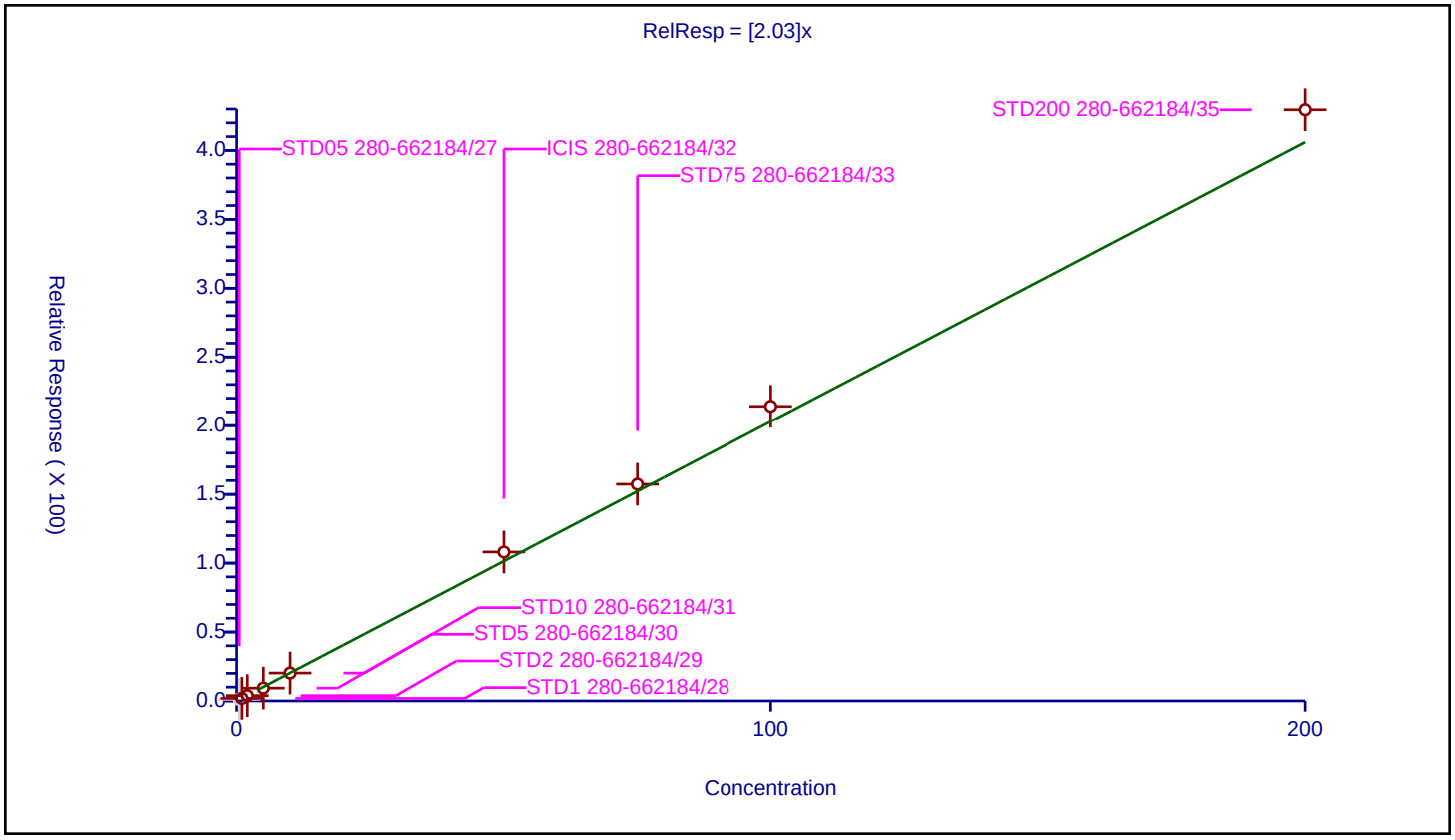
Curve Coefficients

Intercept:	0
Slope:	2.03

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.124078	50.0	788735.0	2.248157	N
2	STD1 280-662184/28	1.0	1.873829	50.0	792815.0	1.873829	Y
3	STD2 280-662184/29	2.0	3.865822	50.0	770690.0	1.932911	Y
4	STD5 280-662184/30	5.0	9.294	50.0	792210.0	1.8588	Y
5	STD10 280-662184/31	10.0	20.241667	50.0	816205.0	2.024167	Y
6	ICIS 280-662184/32	50.0	108.107492	50.0	879748.0	2.16215	Y
7	STD75 280-662184/33	75.0	157.37956	50.0	882241.0	2.098394	Y
8	STD100 280-662184/34	100.0	214.080733	50.0	938552.0	2.140807	Y
9	STD200 280-662184/35	200.0	429.469198	50.0	1002143.0	2.147346	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

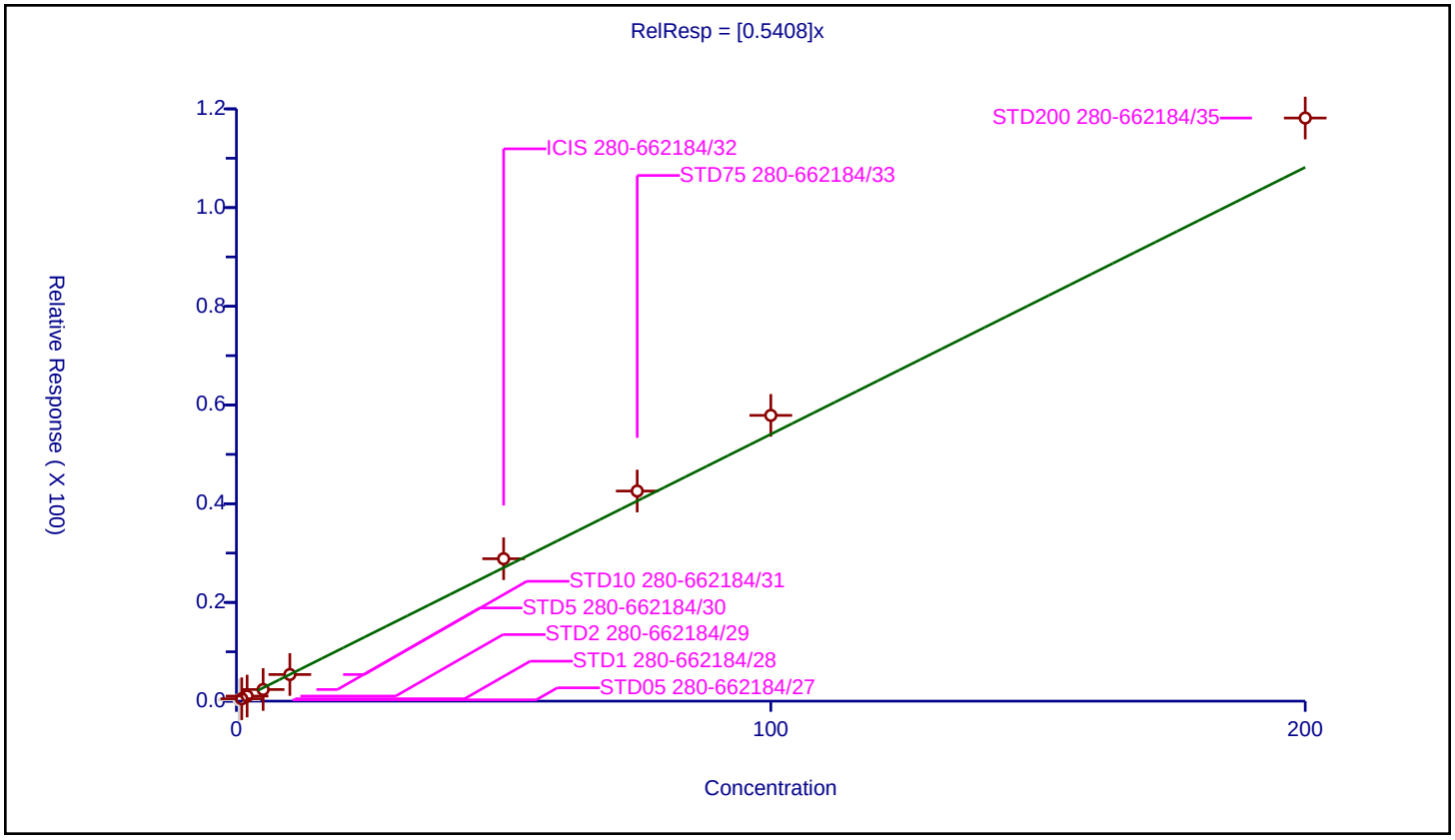
Curve Coefficients

Intercept:	0
Slope:	0.5408

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.261685	50.0	788735.0	0.52337	N
2	STD1 280-662184/28	1.0	0.488197	50.0	792815.0	0.488197	Y
3	STD2 280-662184/29	2.0	1.027845	50.0	770690.0	0.513923	Y
4	STD5 280-662184/30	5.0	2.353101	50.0	792210.0	0.47062	Y
5	STD10 280-662184/31	10.0	5.393988	50.0	816205.0	0.539399	Y
6	ICIS 280-662184/32	50.0	28.850819	50.0	879748.0	0.577016	Y
7	STD75 280-662184/33	75.0	42.567904	50.0	882241.0	0.567572	Y
8	STD100 280-662184/34	100.0	57.901107	50.0	938552.0	0.579011	Y
9	STD200 280-662184/35	200.0	118.149206	50.0	1002143.0	0.590746	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

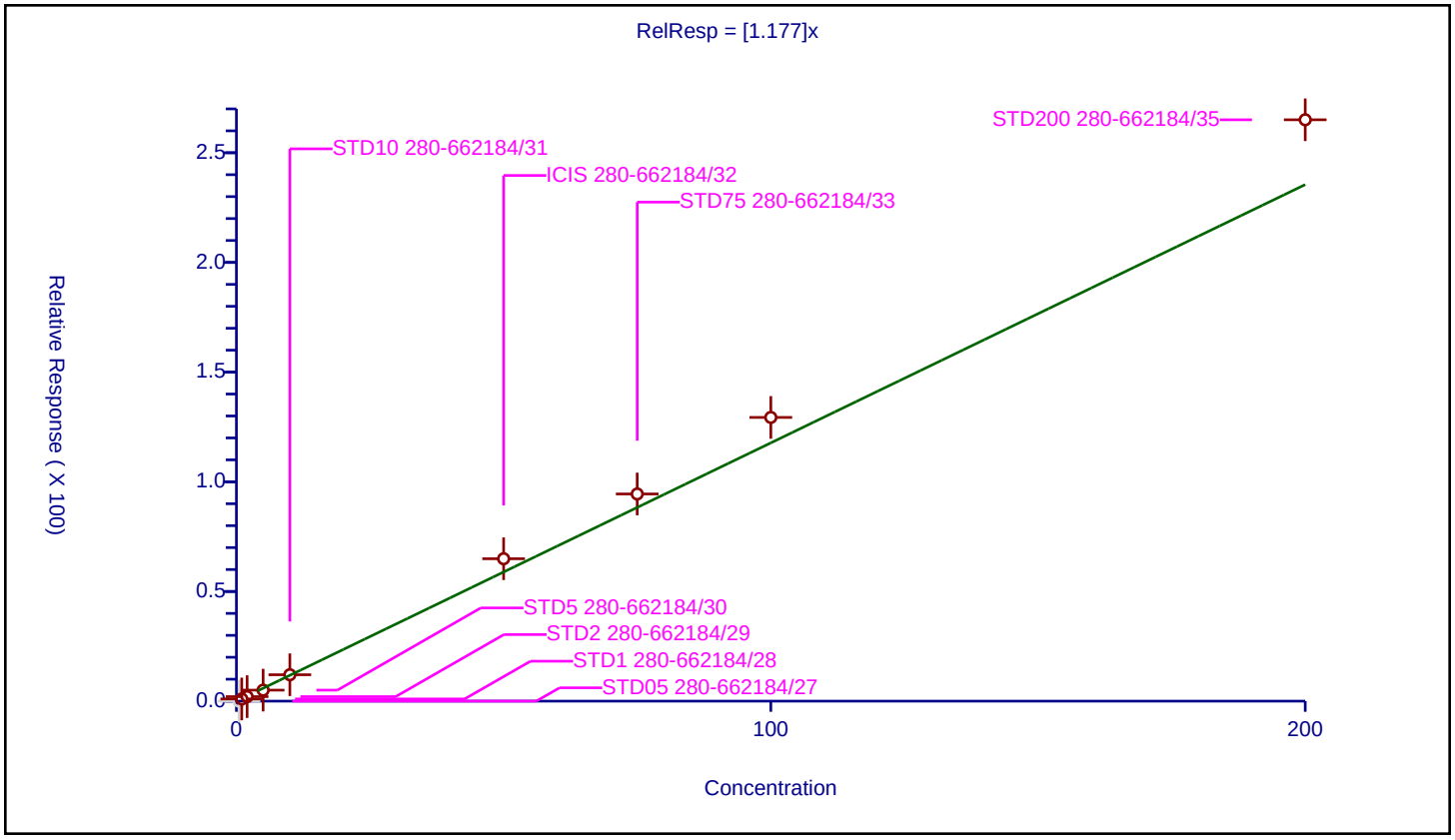
Curve Coefficients

Intercept:	0
Slope:	1.177

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	788735.0	0.0	N
2	STD1 280-662184/28	1.0	1.004459	50.0	792815.0	1.004459	Y
3	STD2 280-662184/29	2.0	2.062178	50.0	770690.0	1.031089	Y
4	STD5 280-662184/30	5.0	5.02026	50.0	792210.0	1.004052	Y
5	STD10 280-662184/31	10.0	12.033313	50.0	816205.0	1.203331	Y
6	ICIS 280-662184/32	50.0	64.917795	50.0	879748.0	1.298356	Y
7	STD75 280-662184/33	75.0	94.448399	50.0	882241.0	1.259312	Y
8	STD100 280-662184/34	100.0	129.344512	50.0	938552.0	1.293445	Y
9	STD200 280-662184/35	200.0	265.027795	50.0	1002143.0	1.325139	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

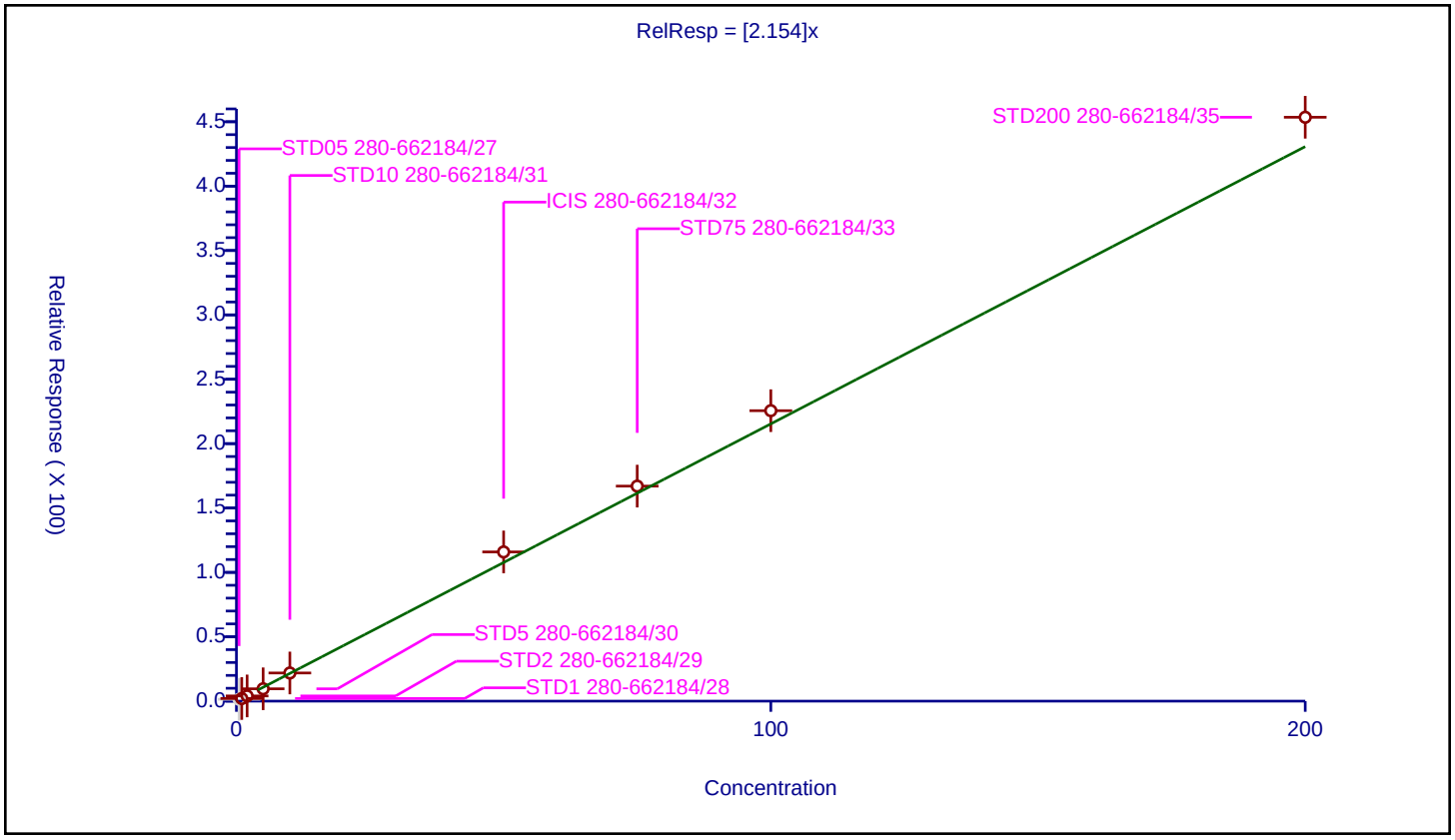
Curve Coefficients

Intercept:	0
Slope:	2.154

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.441105	50.0	788735.0	2.88221	N
2	STD1 280-662184/28	1.0	2.032252	50.0	792815.0	2.032252	Y
3	STD2 280-662184/29	2.0	4.043065	50.0	770690.0	2.021533	Y
4	STD5 280-662184/30	5.0	9.595057	50.0	792210.0	1.919011	Y
5	STD10 280-662184/31	10.0	21.873365	50.0	816205.0	2.187337	Y
6	ICIS 280-662184/32	50.0	115.905691	50.0	879748.0	2.318114	Y
7	STD75 280-662184/33	75.0	167.013095	50.0	882241.0	2.226841	Y
8	STD100 280-662184/34	100.0	225.592136	50.0	938552.0	2.255921	Y
9	STD200 280-662184/35	200.0	453.502943	50.0	1002143.0	2.267515	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

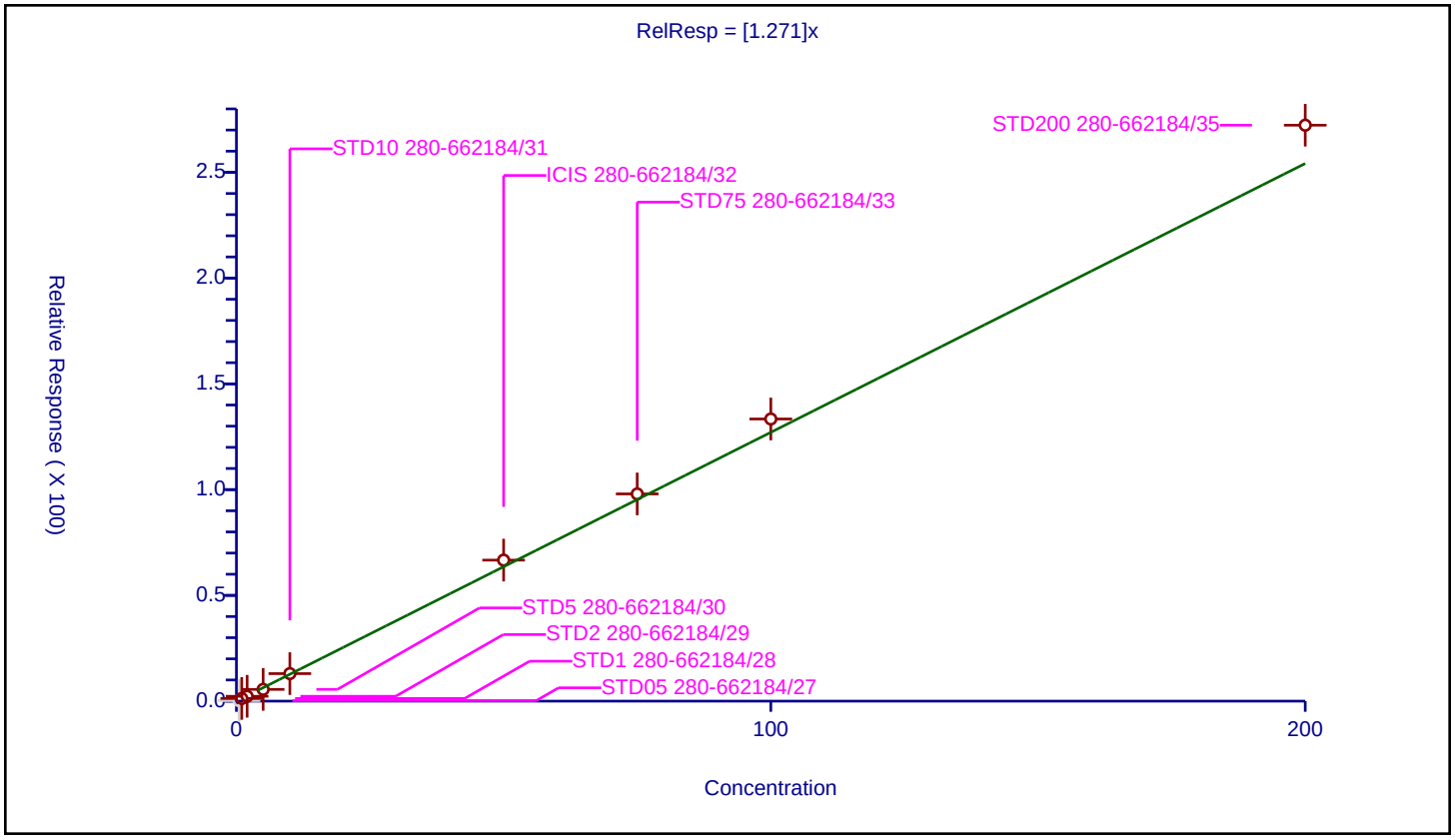
Curve Coefficients

Intercept:	0
Slope:	1.271

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.246154	50.0	788735.0	0.492307	N
2	STD1 280-662184/28	1.0	1.266689	50.0	792815.0	1.266689	Y
3	STD2 280-662184/29	2.0	2.302482	50.0	770690.0	1.151241	Y
4	STD5 280-662184/30	5.0	5.560394	50.0	792210.0	1.112079	Y
5	STD10 280-662184/31	10.0	13.01934	50.0	816205.0	1.301934	Y
6	ICIS 280-662184/32	50.0	66.671479	50.0	879748.0	1.33343	Y
7	STD75 280-662184/33	75.0	97.97612	50.0	882241.0	1.306348	Y
8	STD100 280-662184/34	100.0	133.387388	50.0	938552.0	1.333874	Y
9	STD200 280-662184/35	200.0	272.298265	50.0	1002143.0	1.361491	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

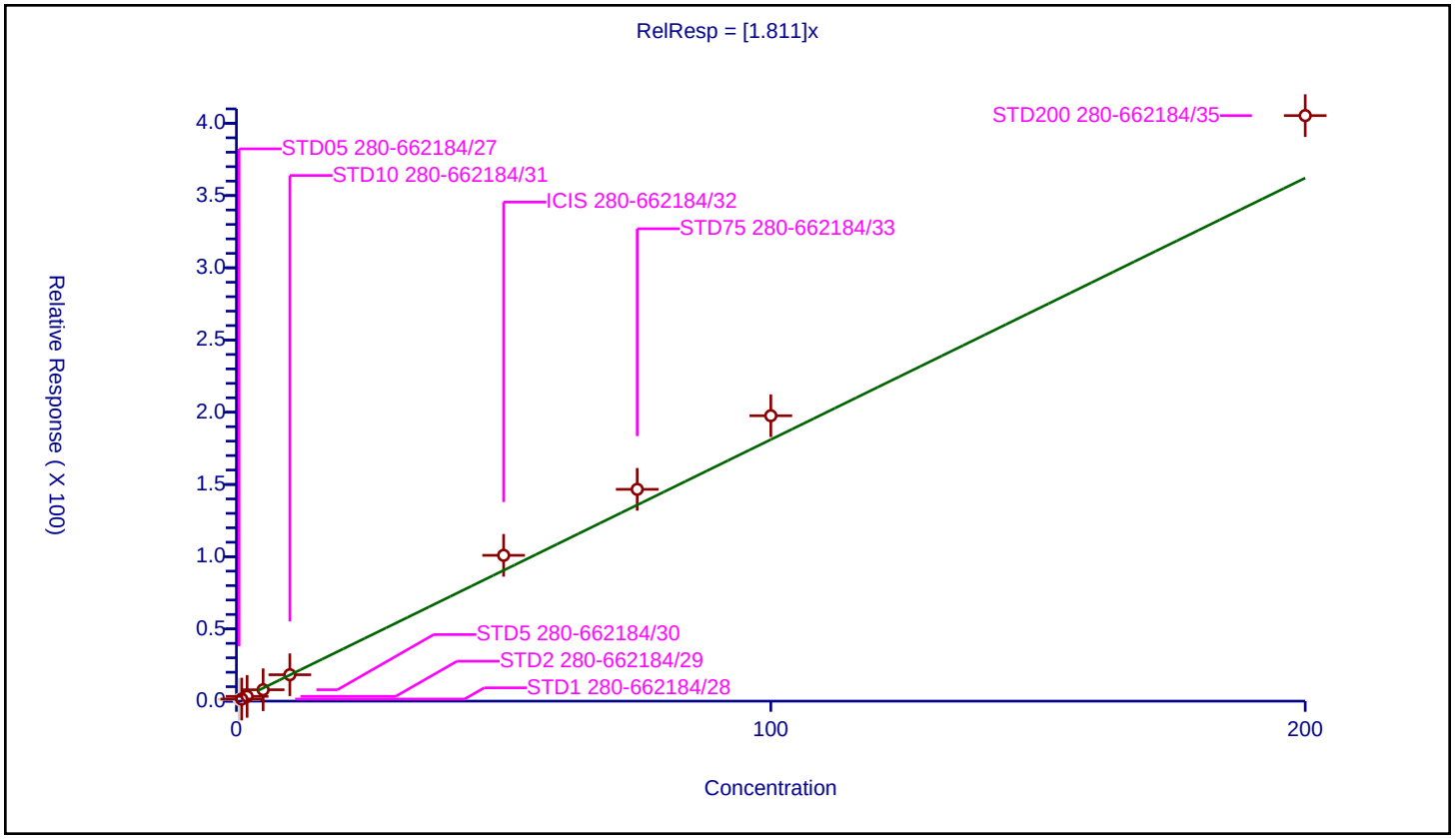
Curve Coefficients

Intercept:	0
Slope:	1.811

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	1.168326	50.0	788735.0	2.336653	N
2	STD1 280-662184/28	1.0	1.452483	50.0	792815.0	1.452483	Y
3	STD2 280-662184/29	2.0	3.307685	50.0	770690.0	1.653843	Y
4	STD5 280-662184/30	5.0	7.880928	50.0	792210.0	1.576186	Y
5	STD10 280-662184/31	10.0	18.272493	50.0	816205.0	1.827249	Y
6	ICIS 280-662184/32	50.0	100.943736	50.0	879748.0	2.018875	Y
7	STD75 280-662184/33	75.0	146.636463	50.0	882241.0	1.955153	Y
8	STD100 280-662184/34	100.0	197.589159	50.0	938552.0	1.975892	Y
9	STD200 280-662184/35	200.0	405.353477	50.0	1002143.0	2.026767	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

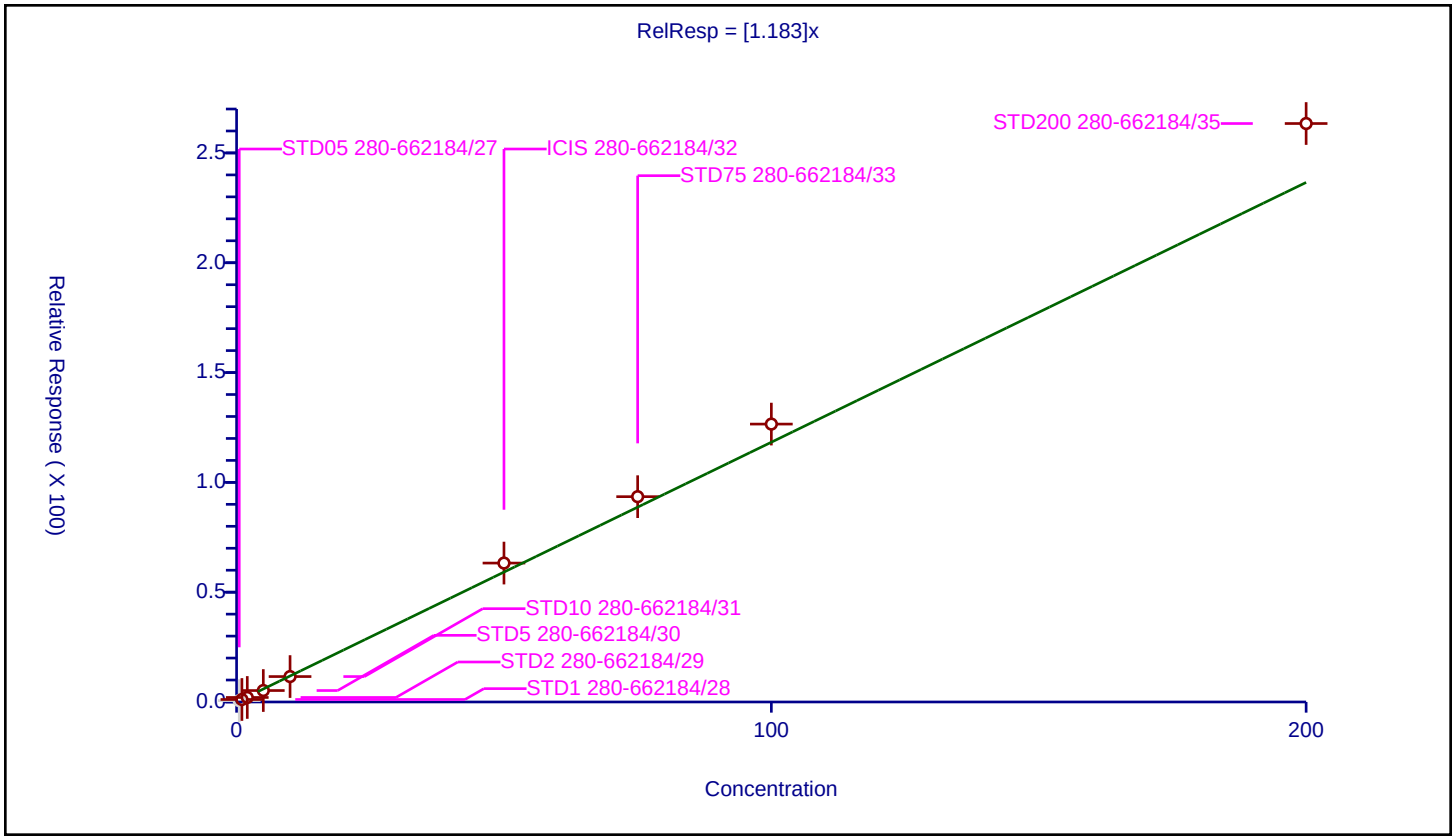
Curve Coefficients

Intercept:	0
Slope:	1.183

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.620297	50.0	788735.0	1.240594	N
2	STD1 280-662184/28	1.0	1.13652	50.0	792815.0	1.13652	Y
3	STD2 280-662184/29	2.0	2.063865	50.0	770690.0	1.031932	Y
4	STD5 280-662184/30	5.0	5.21459	50.0	792210.0	1.042918	Y
5	STD10 280-662184/31	10.0	11.574972	50.0	816205.0	1.157497	Y
6	ICIS 280-662184/32	50.0	63.260559	50.0	879748.0	1.265211	Y
7	STD75 280-662184/33	75.0	93.484773	50.0	882241.0	1.246464	Y
8	STD100 280-662184/34	100.0	126.540724	50.0	938552.0	1.265407	Y
9	STD200 280-662184/35	200.0	263.391053	50.0	1002143.0	1.316955	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

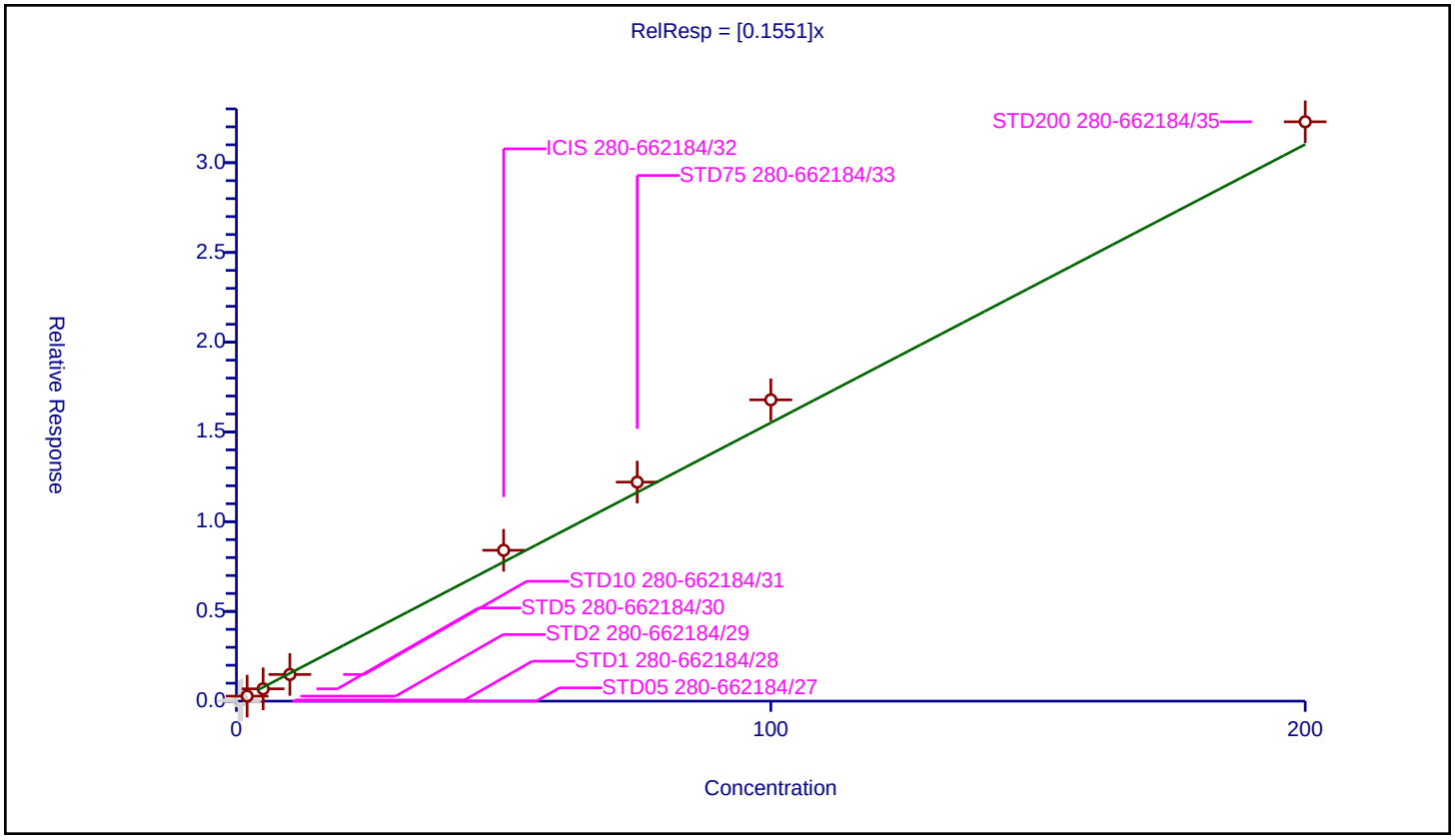
Curve Coefficients

Intercept:	0
Slope:	0.1551

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.0	50.0	788735.0	0.0	N
2	STD1 280-662184/28	1.0	0.067166	50.0	792815.0	0.067166	N
3	STD2 280-662184/29	2.0	0.279879	50.0	770690.0	0.13994	Y
4	STD5 280-662184/30	5.0	0.685614	50.0	792210.0	0.137123	Y
5	STD10 280-662184/31	10.0	1.485779	50.0	816205.0	0.148578	Y
6	ICIS 280-662184/32	50.0	8.406214	50.0	879748.0	0.168124	Y
7	STD75 280-662184/33	75.0	12.203922	50.0	882241.0	0.162719	Y
8	STD100 280-662184/34	100.0	16.788947	50.0	938552.0	0.167889	Y
9	STD200 280-662184/35	200.0	32.281471	50.0	1002143.0	0.161407	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

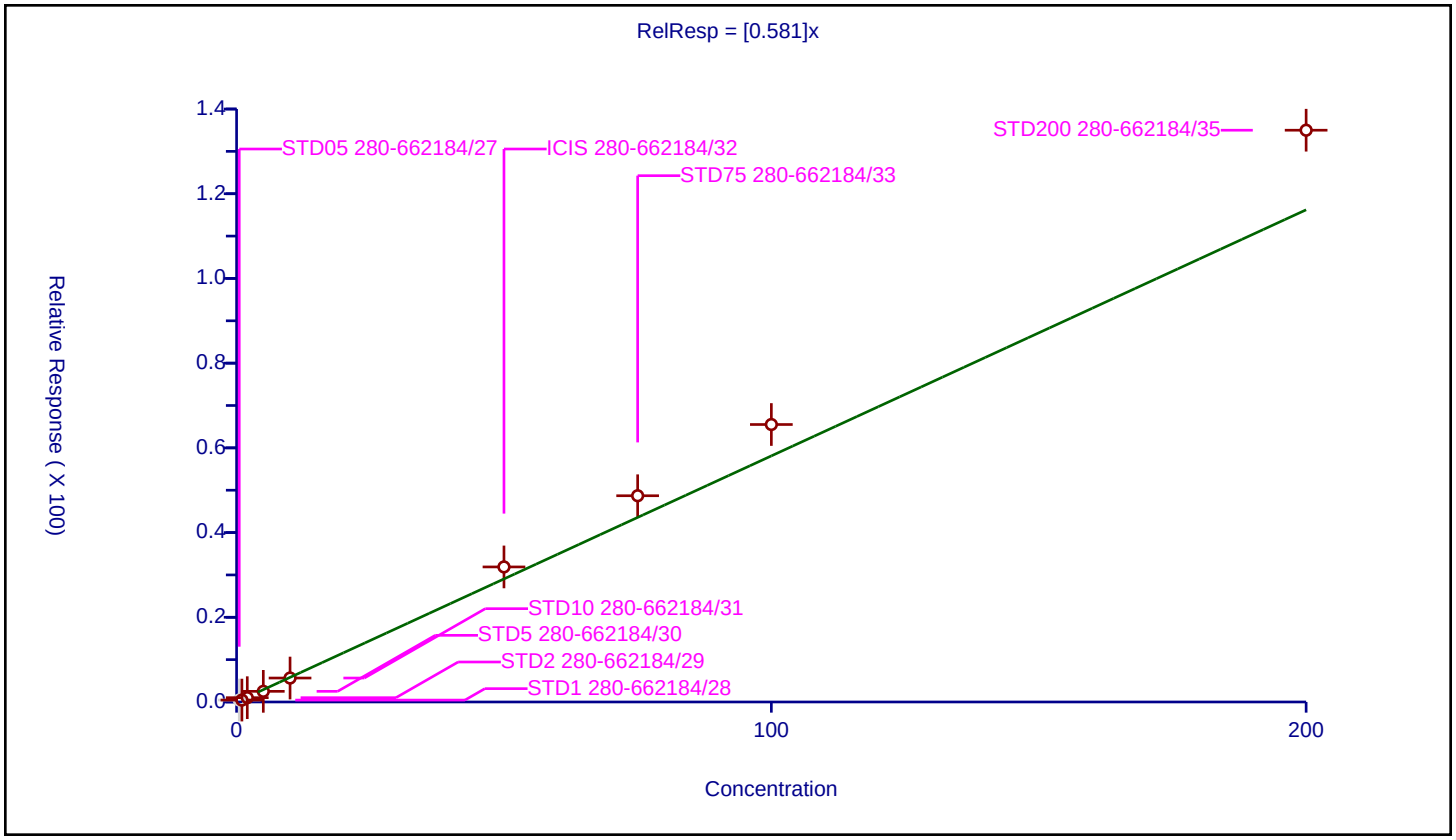
Curve Coefficients

Intercept:	0
Slope:	0.581

Error Coefficients

Relative Standard Deviation:	14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.463717	50.0	788735.0	0.927434	N
2	STD1 280-662184/28	1.0	0.453132	50.0	792815.0	0.453132	Y
3	STD2 280-662184/29	2.0	1.019152	50.0	770690.0	0.509576	Y
4	STD5 280-662184/30	5.0	2.513159	50.0	792210.0	0.502632	Y
5	STD10 280-662184/31	10.0	5.655136	50.0	816205.0	0.565514	Y
6	ICIS 280-662184/32	50.0	31.886063	50.0	879748.0	0.637721	Y
7	STD75 280-662184/33	75.0	48.696105	50.0	882241.0	0.649281	Y
8	STD100 280-662184/34	100.0	65.514431	50.0	938552.0	0.655144	Y
9	STD200 280-662184/35	200.0	134.995854	50.0	1002143.0	0.674979	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

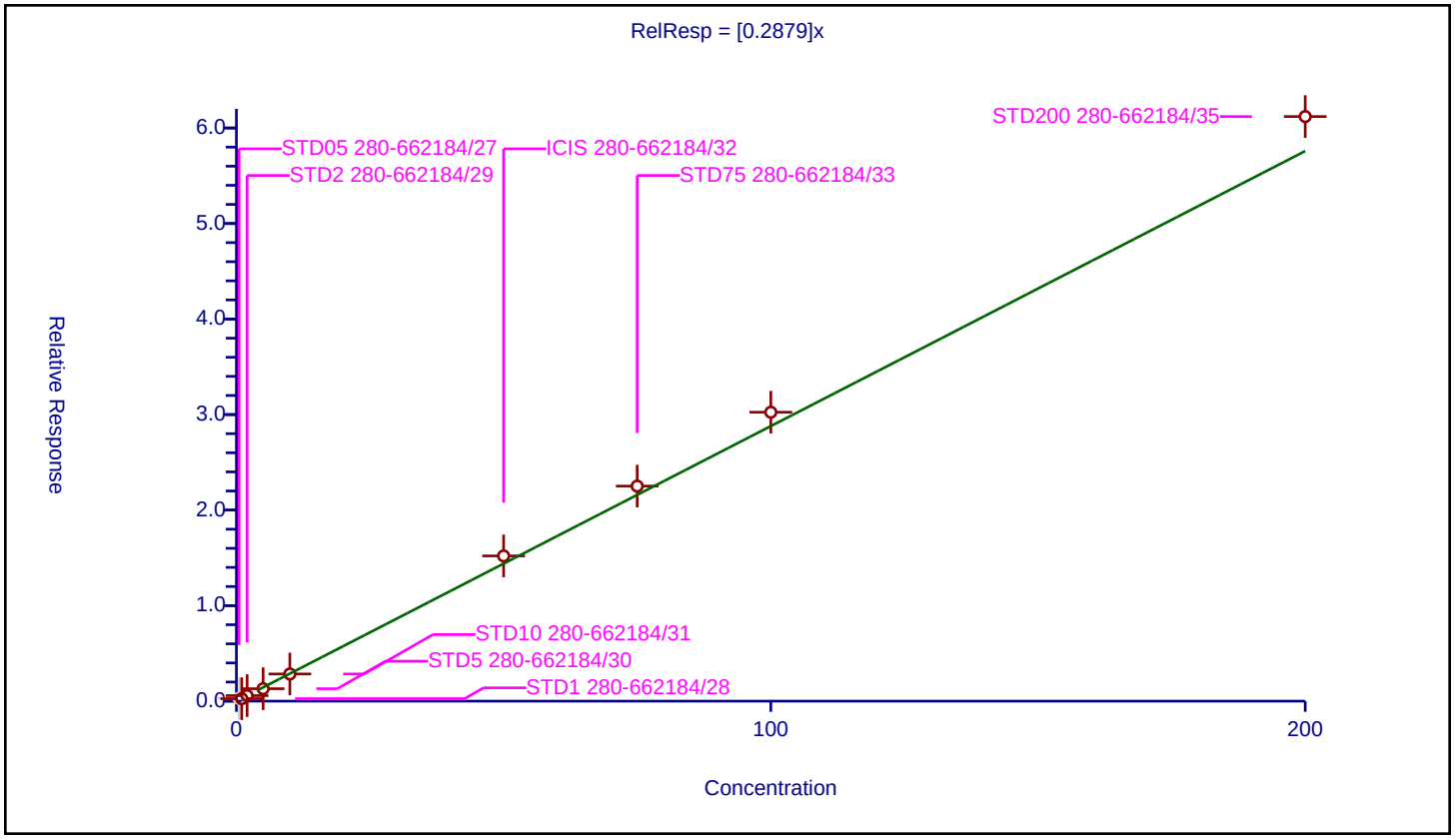
Curve Coefficients

Intercept:	0
Slope:	0.2879

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.294015	50.0	788735.0	0.58803	N
2	STD1 280-662184/28	1.0	0.257311	50.0	792815.0	0.257311	Y
3	STD2 280-662184/29	2.0	0.577729	50.0	770690.0	0.288865	Y
4	STD5 280-662184/30	5.0	1.301423	50.0	792210.0	0.260285	Y
5	STD10 280-662184/31	10.0	2.842791	50.0	816205.0	0.284279	Y
6	ICIS 280-662184/32	50.0	15.202876	50.0	879748.0	0.304058	Y
7	STD75 280-662184/33	75.0	22.509496	50.0	882241.0	0.300127	Y
8	STD100 280-662184/34	100.0	30.245208	50.0	938552.0	0.302452	Y
9	STD200 280-662184/35	200.0	61.197254	50.0	1002143.0	0.305986	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

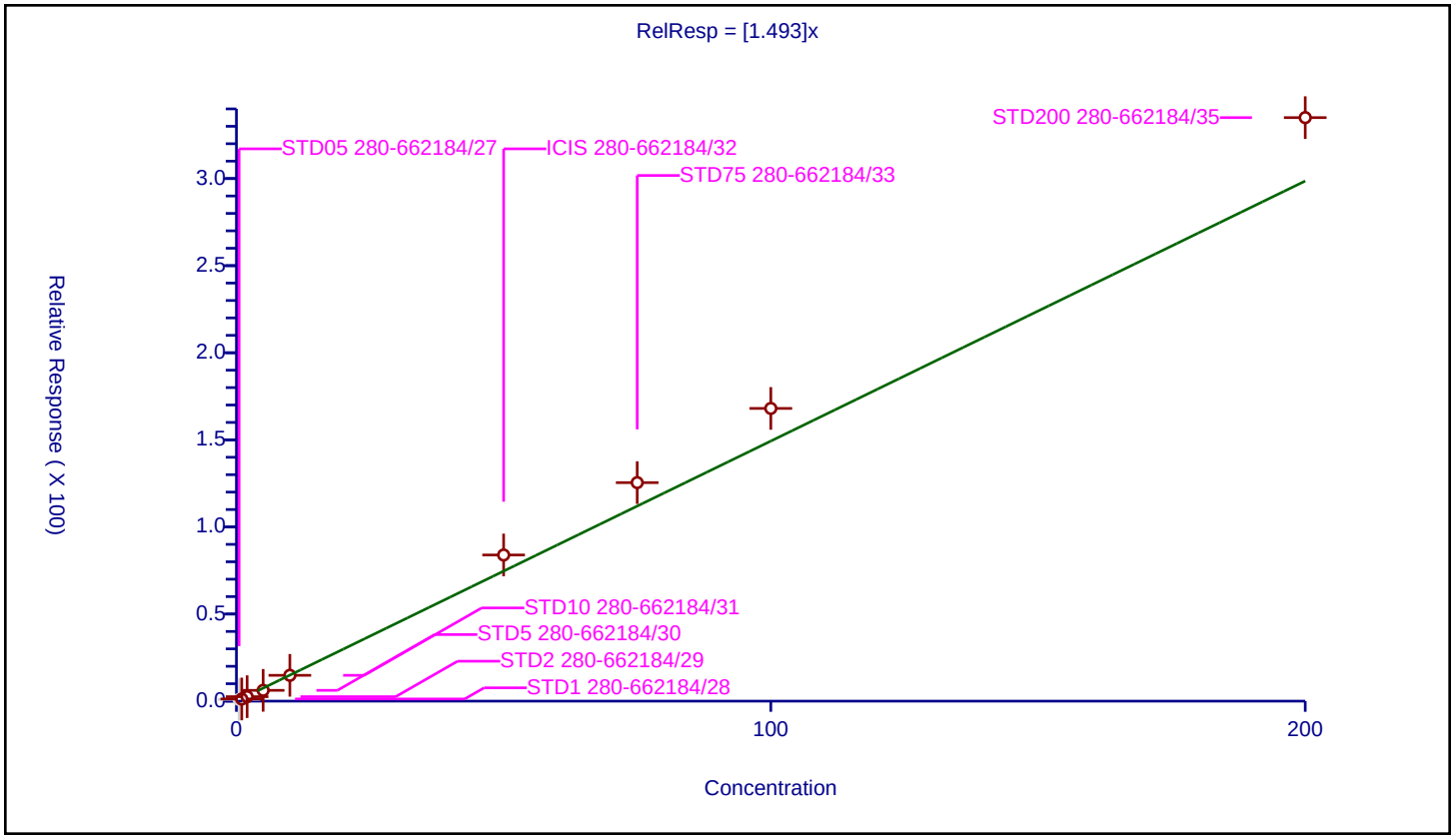
Curve Coefficients

Intercept:	0
Slope:	1.493

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.993933	50.0	788735.0	1.987867	N
2	STD1 280-662184/28	1.0	1.238435	50.0	792815.0	1.238435	Y
3	STD2 280-662184/29	2.0	2.555178	50.0	770690.0	1.277589	Y
4	STD5 280-662184/30	5.0	6.197473	50.0	792210.0	1.239495	Y
5	STD10 280-662184/31	10.0	14.824217	50.0	816205.0	1.482422	Y
6	ICIS 280-662184/32	50.0	83.902208	50.0	879748.0	1.678044	Y
7	STD75 280-662184/33	75.0	125.447695	50.0	882241.0	1.672636	Y
8	STD100 280-662184/34	100.0	168.046416	50.0	938552.0	1.680464	Y
9	STD200 280-662184/35	200.0	334.989218	50.0	1002143.0	1.674946	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

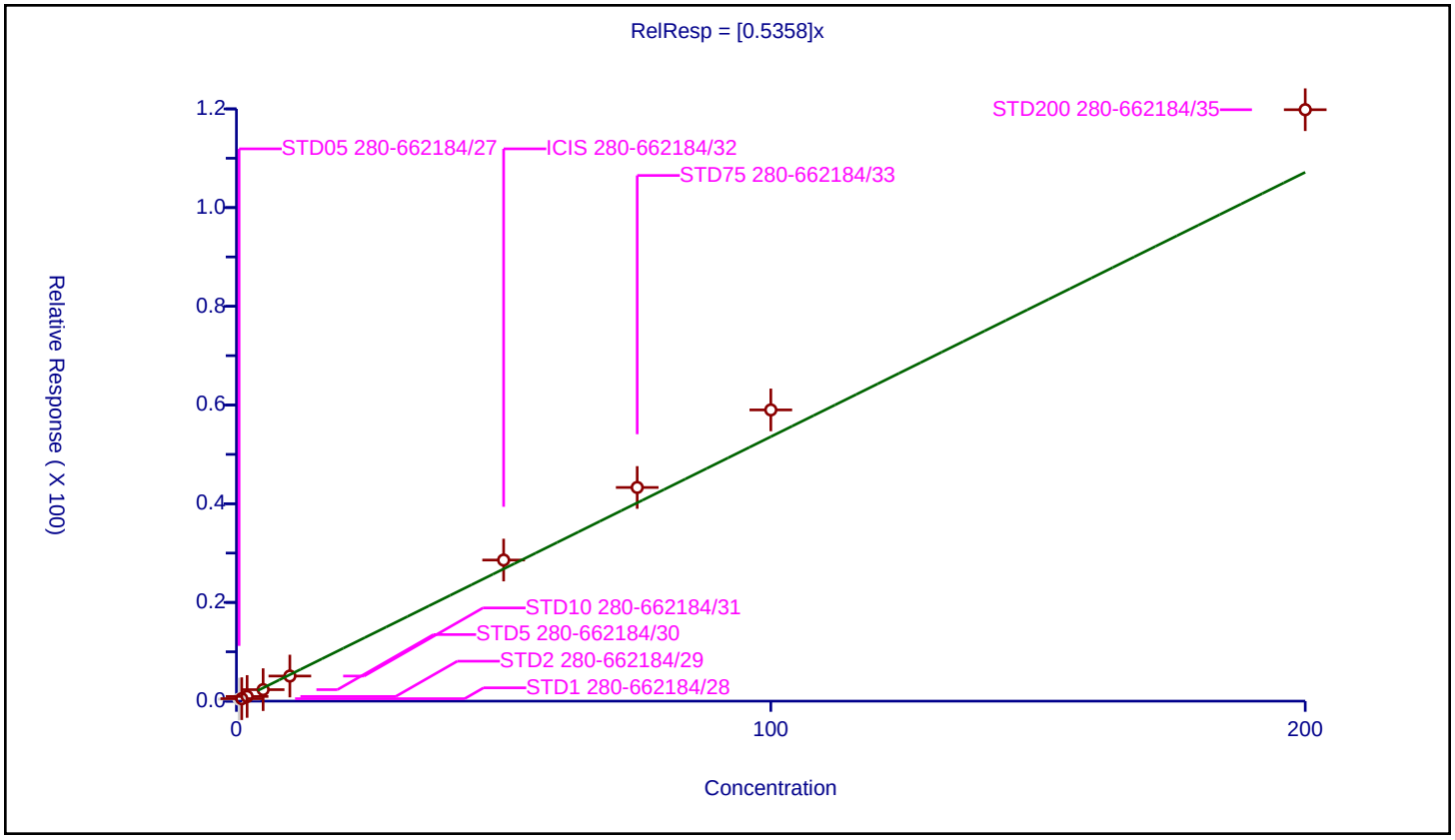
Curve Coefficients

Intercept:	0
Slope:	0.5358

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD05 280-662184/27	0.5	0.408629	50.0	788735.0	0.817258	N
2	STD1 280-662184/28	1.0	0.50081	50.0	792815.0	0.50081	Y
3	STD2 280-662184/29	2.0	0.944608	50.0	770690.0	0.472304	Y
4	STD5 280-662184/30	5.0	2.331074	50.0	792210.0	0.466215	Y
5	STD10 280-662184/31	10.0	5.085365	50.0	816205.0	0.508536	Y
6	ICIS 280-662184/32	50.0	28.589778	50.0	879748.0	0.571796	Y
7	STD75 280-662184/33	75.0	43.296163	50.0	882241.0	0.577282	Y
8	STD100 280-662184/34	100.0	59.008078	50.0	938552.0	0.590081	Y
9	STD200 280-662184/35	200.0	119.831401	50.0	1002143.0	0.599157	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 16:31 Calibration End Date: 07/30/2024 18:59 Calibration ID: 96059

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-662184/39	G2_14243.D
Level 2	STD2 280-662184/40	G2_14244.D
Level 3	STD5 280-662184/41	G2_14245.D
Level 4	STD10 280-662184/42	G2_14246.D
Level 5	STD50 280-662184/43	G2_14247.D
Level 6	STD75 280-662184/44	G2_14248.D
Level 7	STD100 280-662184/45	G2_14249.D
Level 8	STD200 280-662184/46	G2_14250.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 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.0030	+++++ 0.0029	0.0021 0.0030	0.0019	0.0027	Lin1	-0.412	0.0030							0.9980		0.9900
Isopropyl alcohol	+++++ 0.0157	0.0181 0.0135	0.0121 0.0158	0.0120	0.0128	Lin1	-0.051	0.0149							0.9910		0.9900
Acetonitrile	+++++ 0.0275	0.0316 0.0257	0.0199 0.0281	0.0202	0.0250	Lin1	-0.134	0.0271							0.9960		0.9900
Isopropyl ether	+++++ 0.2120	0.1935 0.2044	0.1714 0.2080	0.1854	0.2061	Ave		0.1972				7.4		15.0			
Chloroprene	+++++ 0.3405	0.2637 0.3311	0.2417 0.3333	0.2654	0.3305	Lin1	-0.284	0.3353							0.9990		0.9900
Tert-butyl ethyl ether	+++++ 0.7240	0.7090 0.6934	0.6412 0.7076	0.6420	0.7000	Ave		0.6882				4.8		15.0			
Ethyl acetate	+++++ 0.2225	0.1744 0.2088	0.1443 0.2156	0.1705	0.2049	Lin1	-0.388	0.2151							0.9980		0.9900
Propionitrile	+++++ 0.0336	0.0142 0.0321	0.0152 0.0343	0.0179	0.0302	Lin1	-0.683	0.0336							0.9960		0.9900
Methacrylonitrile	0.1264 0.1504	0.1239 0.1427	0.1100 0.1405	0.1226	0.1427	Ave		0.1324				10.3		15.0			
Tert-amyl methyl ether	0.7491 0.7223	0.6981 0.6921	0.6481 0.7199	0.6156	0.7059	Ave		0.6939				6.2		15.0			
Methyl methacrylate	0.0239 0.0767	0.0585 0.0735	0.0495 0.0775	0.0496	0.0705	Lin1	-0.137	0.0757							0.9970		0.9900
2-Nitropropane	+++++ 0.0568	0.0512 0.0533	0.0428 0.0552	0.0459	0.0533	Ave		0.0512				9.9		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.2062	+++++ 0.1951	0.1289 0.2030	0.1587	0.1913	Lin2	-0.767	0.2028							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.: 280-194612-1 Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 16:31 Calibration End Date: 07/30/2024 18:59 Calibration ID: 96059

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								
1,2,3-Trimethylbenzene	+++++ 2.3624	2.2527 2.2615	1.9827 2.3723	1.9802	2.3027	Ave		2.2164				7.5		15.0			
1,3,5-Trichlorobenzene	+++++ 0.7666	0.6936 0.7370	0.6008 0.8105	0.6105	0.7370	Ave		0.7080				11.1		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.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 16:31 | Calibration End Date: 07/30/2024 18:59 | Calibration ID: 96059

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-662184/39	G2_14243.D
Level 2	STD2 280-662184/40	G2_14244.D
Level 3	STD5 280-662184/41	G2_14245.D
Level 4	STD10 280-662184/42	G2_14246.D
Level 5	STD50 280-662184/43	G2_14247.D
Level 6	STD75 280-662184/44	G2_14248.D
Level 7	STD100 280-662184/45	G2_14249.D
Level 8	STD200 280-662184/46	G2_14250.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	Lin1	+++++ 604959	+++++ 786679	27095 1603115	49911	360165	+++++ 4500	+++++ 6000	300 12000	600	3000
Isopropyl alcohol	FB	Lin1	+++++ 520221	14813 615349	25550 1392202	51642	279329	+++++ 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Lin1	+++++ 908795	25908 1170095	42092 2471050	86971	547549	+++++ 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	+++++ 701060	15848 930254	36193 1827474	79686	450891	+++++ 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Lin1	+++++ 1126081	21594 1507271	51037 2928388	114103	723178	+++++ 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 2394226	58067 3156512	135380 6217588	275981	1531884	+++++ 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Lin1	+++++ 1471227	28567 1901095	60923 3789567	146606	896627	+++++ 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Lin1	+++++ 1111076	11606 1462748	32084 3013529	76949	660024	+++++ 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	52722 4974331	101460 6493998	232282 12342397	527102	3122458	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	31252 2388392	57174 3150655	136829 6325544	264625	1544669	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Methyl methacrylate	FB	Lin1	1992 507279	9587 669132	20891 1361954	42659	308471	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	+++++ 375481	8395 485047	18070 970140	39472	233171	+++++ 150	4.00 200	10.0 400	20.0	100
cis-1,4-Dichloro-2-butene	DCBd4	Lin2	+++++ 512076	+++++ 671491	20864 1378858	51351	310396	+++++ 150	+++++ 200	10.0 400	20.0	100
1,2,3-Trimethylbenzene	DCBd4	Ave	+++++ 2933349	71035 3892444	160457 8056933	320280	1867775	+++++ 75.0	2.00 100	5.00 200	10.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 951839	21871 1268463	48622 2752731	98742	597785	+++++ 75.0	2.00 100	5.00 200	10.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver | Job No.: 280-194612-1 | Analy Batch No.: 662184

SDG No.:

Instrument ID: VMS_G2 | GC Column: DB-624 (60 | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2024 16:31 | Calibration End Date: 07/30/2024 18:59 | Calibration ID: 96059

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_G2\20240730-135973.b\G2_14243.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Jul-2024 16:31:30 ALS Bottle#: 14 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:16 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:15:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2086006	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	499523	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	775782	50.0	50.0	
17 Ethanol	45	2.210	2.173	0.037	69	3821	60.0	166.3	
24 Isopropyl alcohol	45		2.517				ND	ND	
27 Acetonitrile	41	2.655	2.618	0.037	73	3580	10.0	8.12	
36 Isopropyl ether	87	3.213	3.209	0.004	93	7252	1.00	0.8813	
37 2-Chloro-1,3-butadiene	53	3.265	3.250	0.015	89	6487	1.00	1.31	
38 Tert-butyl ethyl ether	59	3.456	3.452	0.004	96	28369	1.00	0.9881	
42 Ethyl acetate	43	3.628	3.595	0.033	38	6088	2.00	2.48	
43 Propionitrile	54	3.714	3.621	0.093	30	2812	10.0	22.3	
45 Methacrylonitrile	41	3.741	3.722	0.019	89	52722	10.0	9.55	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	93	31252	1.00	1.08	
58 n-Butanol	56		4.575				ND	ND	
63 Methyl methacrylate	100	4.904	4.889	0.015	61	1992	2.00	2.43	
67 2-Nitropropane	41	5.238	5.222	0.016	95	6999	2.00	3.28	
90 cis-1,4-Dichloro-2-butene	53	7.850	7.838	0.012	87	6271	2.00	5.78	
105 1,2,3-Trimethylbenzene	105	9.111	9.103	0.008	97	44118	1.00	1.28	
109 1,3,5-Trichlorobenzene	180	10.394	10.387	0.007	96	13409	1.00	1.22	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 1.00 Units: uL

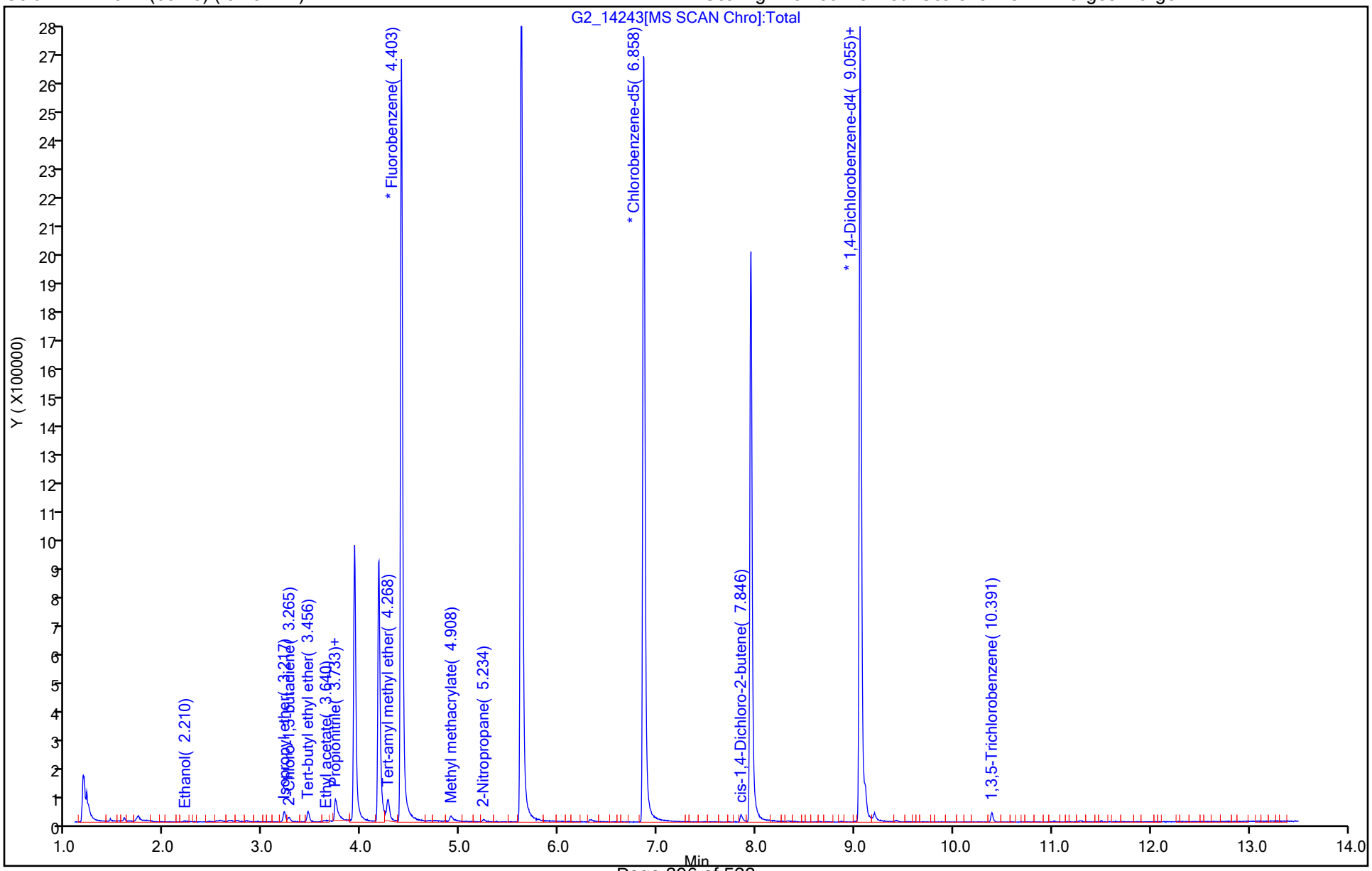
Report Date: 31-Jul-2024 09:48:16 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14243.D

Injection Date:	30-Jul-2024 16:31:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD1			Worklist Smp#:	39
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14244.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Jul-2024 16:52:30 ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:17 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:15:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2047573	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	495459	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	95	788318	50.0	50.0	
17 Ethanol	45	2.202	2.173	0.029	89	16606	120.0	269.9	M
24 Isopropyl alcohol	45	2.539	2.517	0.022	11	14813	20.0	27.7	M
27 Acetonitrile	41	2.648	2.618	0.030	88	25908	20.0	28.3	M
36 Isopropyl ether	87	3.213	3.209	0.004	94	15848	2.00	1.96	
37 2-Chloro-1,3-butadiene	53	3.258	3.250	0.008	89	21594	2.00	2.42	
38 Tert-butyl ethyl ether	59	3.460	3.452	0.008	97	58067	2.00	2.06	
42 Ethyl acetate	43	3.609	3.595	0.014	99	28567	4.00	5.05	
43 Propionitrile	54	3.643	3.621	0.022	97	11606	20.0	28.7	
45 Methacrylonitrile	41	3.729	3.722	0.007	89	101460	20.0	18.7	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	94	57174	2.00	2.01	
58 n-Butanol	56	4.672	4.575	0.097	5	3512	50.0	0	M
63 Methyl methacrylate	100	4.901	4.889	0.012	90	9587	4.00	4.90	M
67 2-Nitropropane	41	5.226	5.222	0.004	96	8395	4.00	4.00	M
90 cis-1,4-Dichloro-2-butene	53	7.846	7.838	0.008	88	10031	4.00	6.92	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	71035	2.00	2.03	
109 1,3,5-Trichlorobenzene	180	10.390	10.387	0.003	95	21871	2.00	1.96	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 2.00 Units: uL

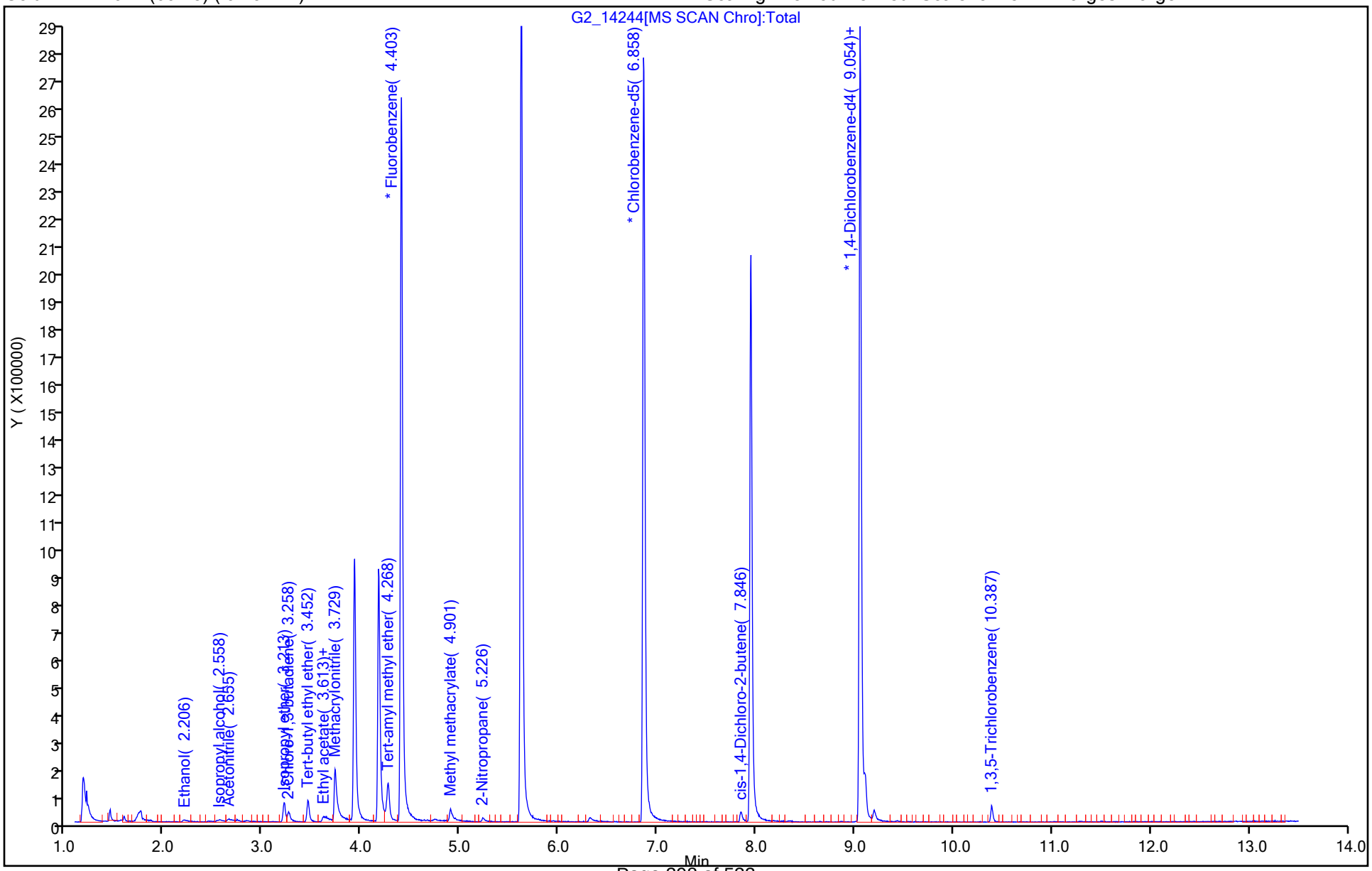
Report Date: 31-Jul-2024 09:48:18 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14244.D

Injection Date:	30-Jul-2024 16:52:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD2			Worklist Smp#:	40
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

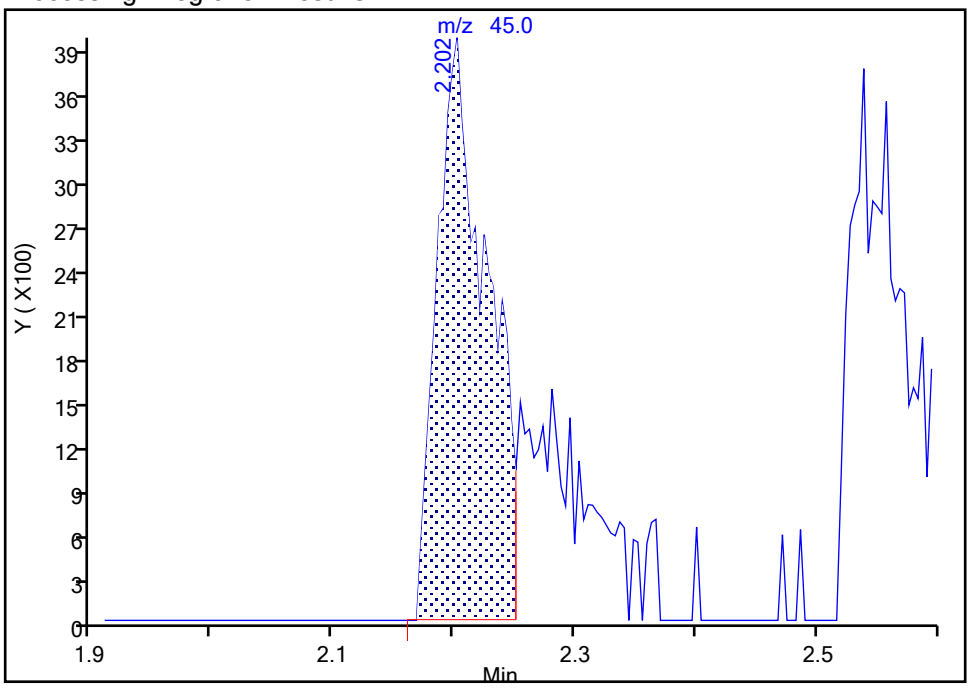
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Injection Date: 30-Jul-2024 16:52:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

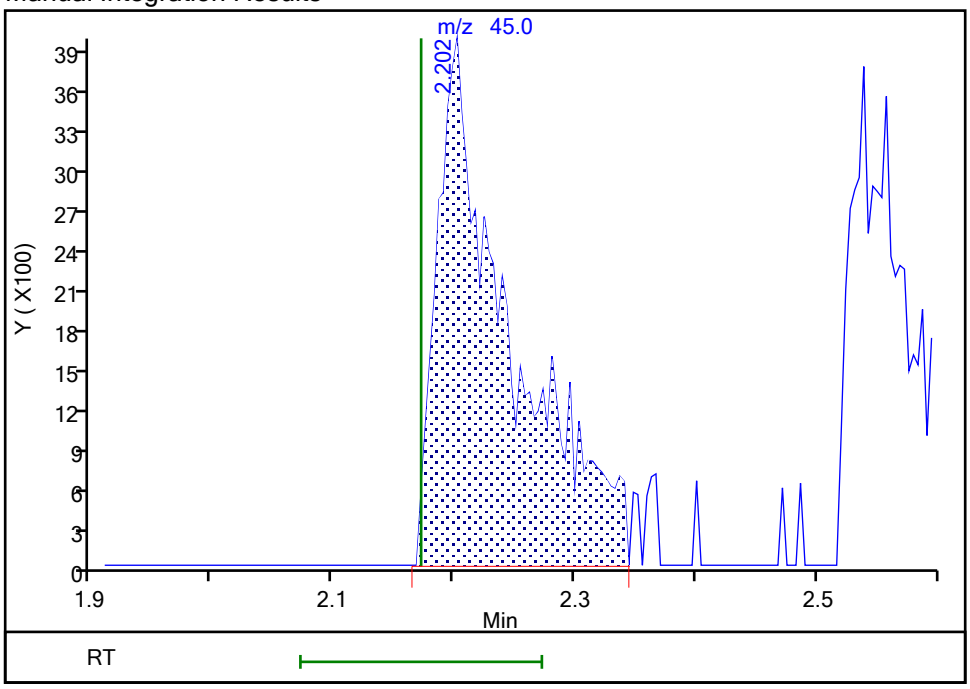
Processing Integration Results

RT: 2.20
Area: 11466
Amount: 528.1644
Amount Units: ug/l



Manual Integration Results

RT: 2.20
Area: 16606
Amount: 269.8960
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:16:02 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

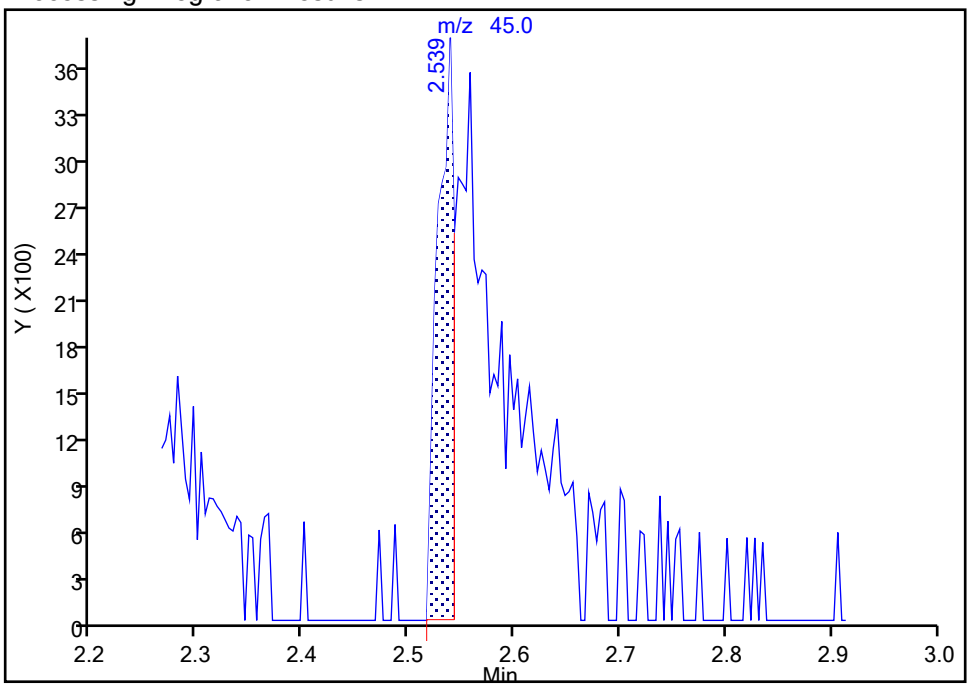
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14244.D
Injection Date: 30-Jul-2024 16:52:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

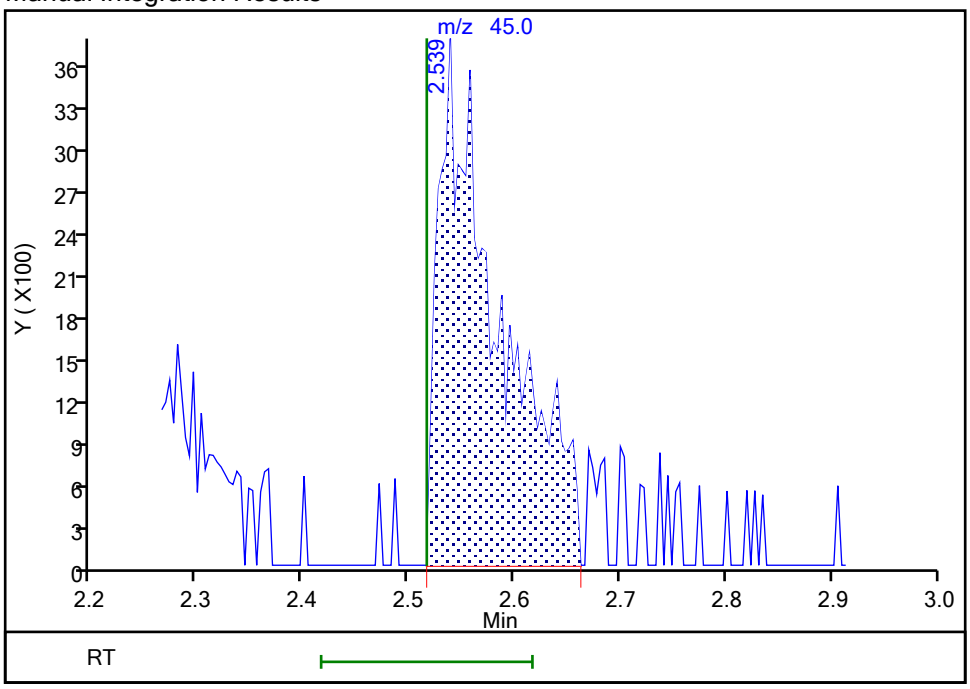
Processing Integration Results

RT: 2.54
Area: 3974
Amount: 104.8148
Amount Units: ug/l



Manual Integration Results

RT: 2.54
Area: 14813
Amount: 27.675867
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:16:07 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

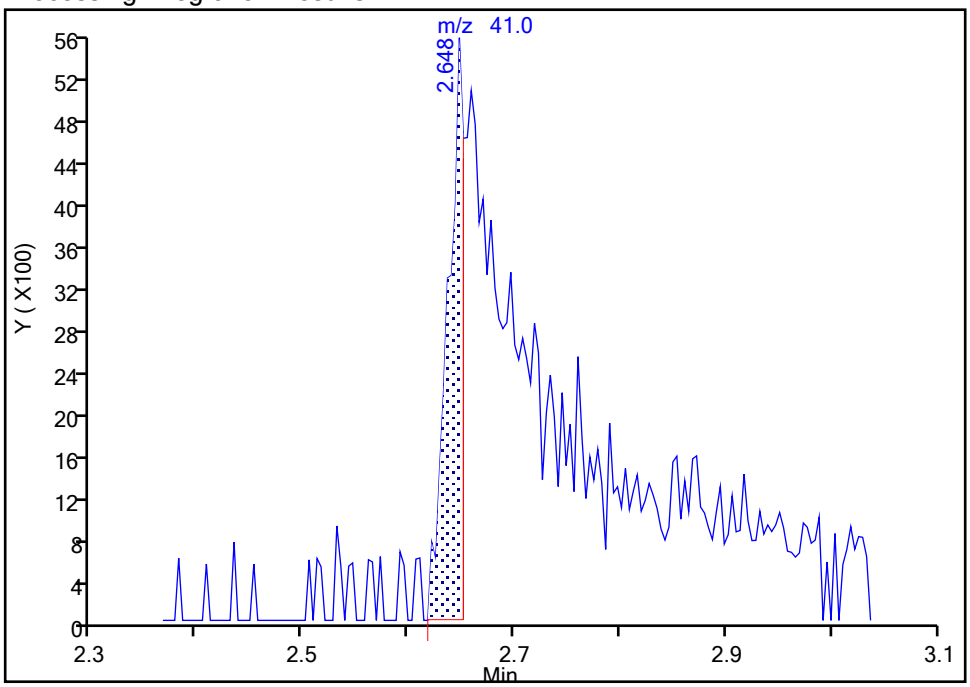
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Injection Date: 30-Jul-2024 16:52:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

Signal: 1

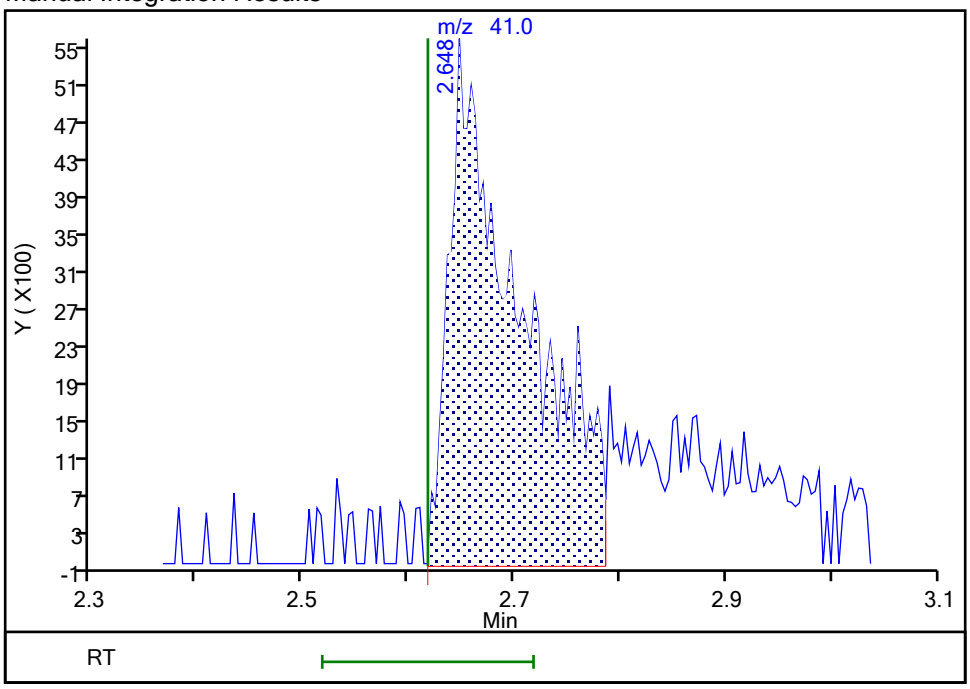
Processing Integration Results

RT: 2.65
Area: 5714
Amount: 86.140281
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 25908
Amount: 28.322297
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:16:33 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

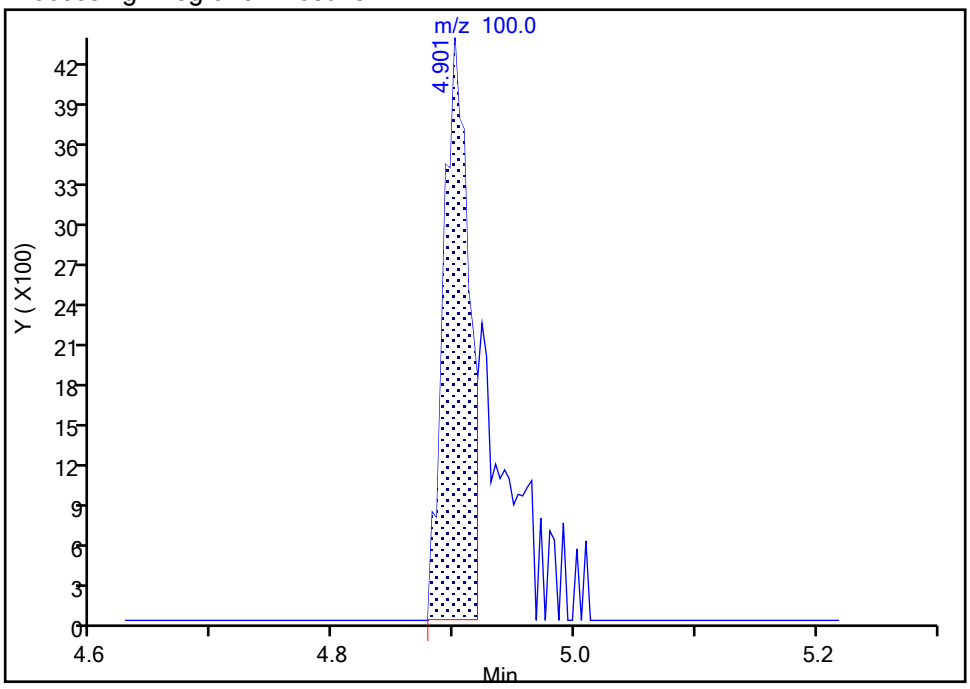
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14244.D
Injection Date: 30-Jul-2024 16:52:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

63 Methyl methacrylate, CAS: 80-62-6

Signal: 1

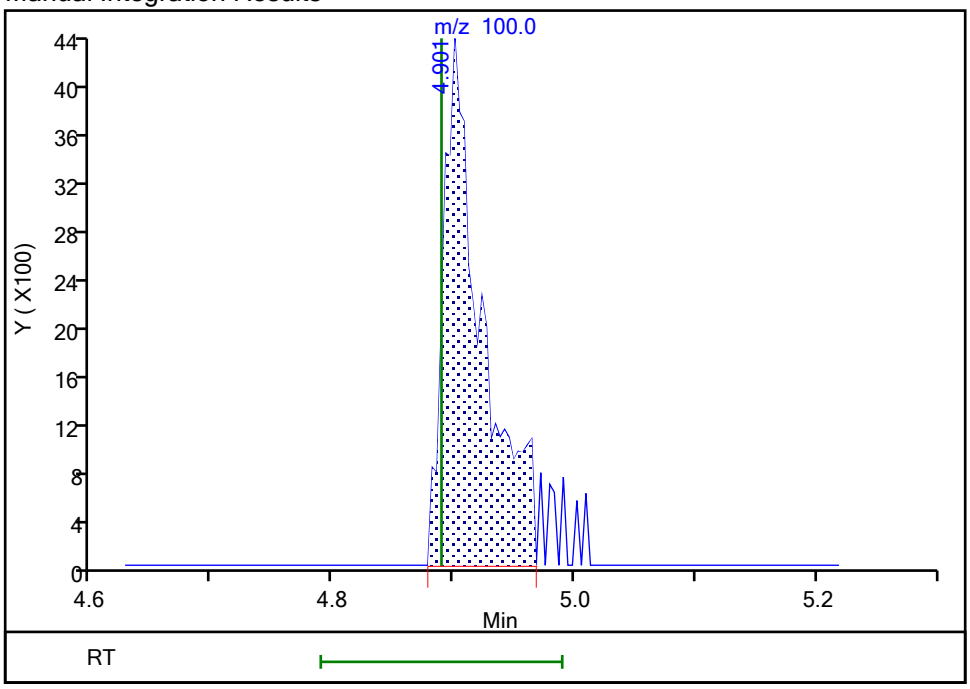
Processing Integration Results

RT: 4.90
Area: 6373
Amount: 18.586372
Amount Units: ug/l



Manual Integration Results

RT: 4.90
Area: 9587
Amount: 4.895025
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:17:37 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Denver

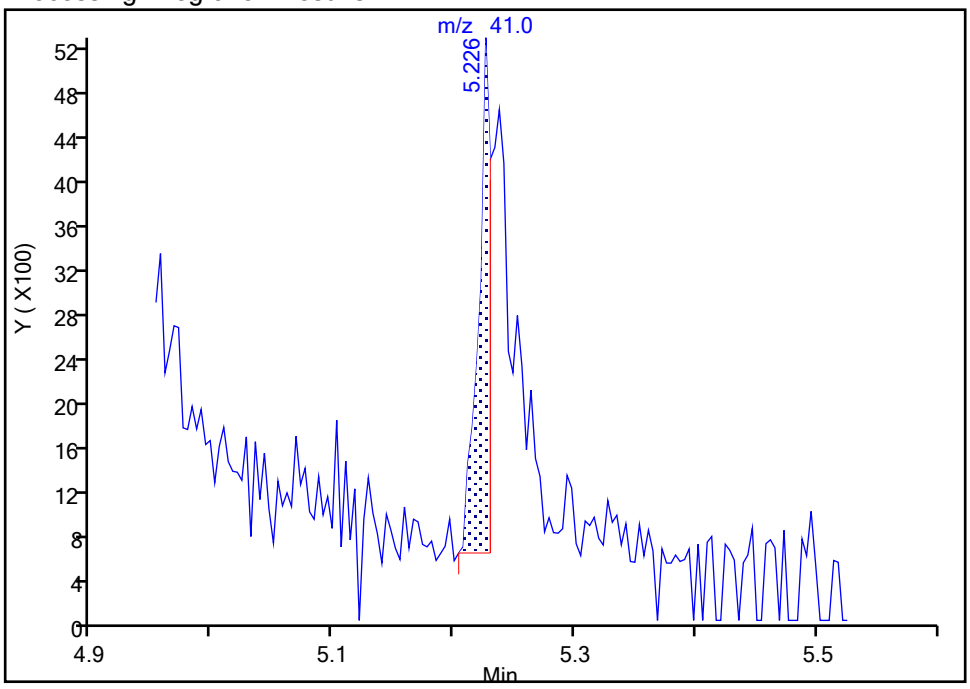
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14244.D
Injection Date: 30-Jul-2024 16:52:30 Instrument ID: VMS_G2
Lims ID: STD2
Client ID:
Operator ID: COULTER ALS Bottle#: 15 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

67 2-Nitropropane, CAS: 79-46-9

Signal: 1

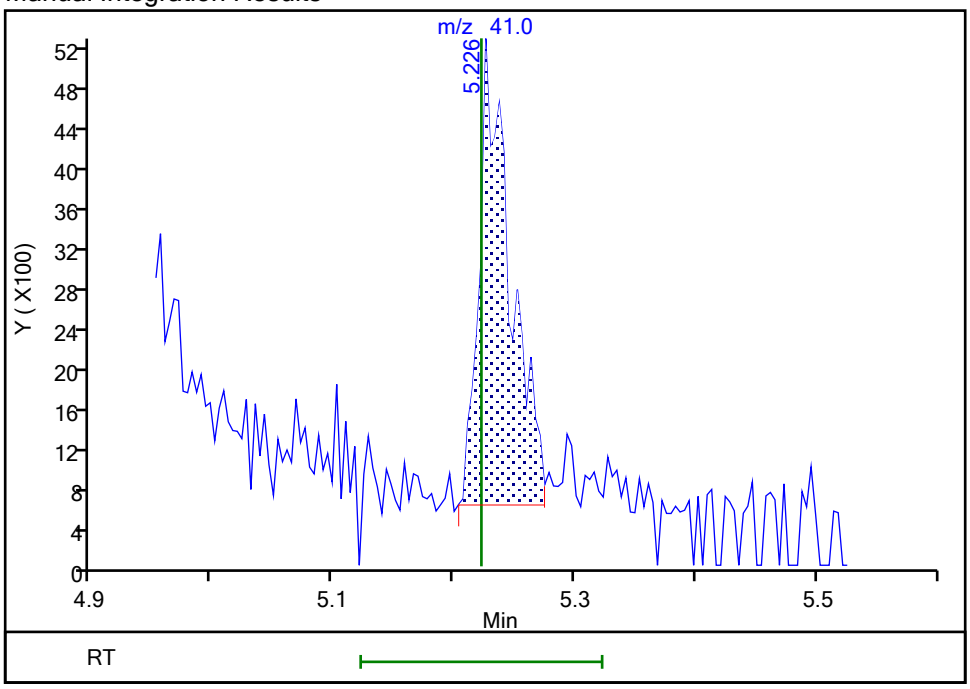
Processing Integration Results

RT: 5.23
Area: 3249
Amount: 2.300592
Amount Units: ug/l



Manual Integration Results

RT: 5.23
Area: 8395
Amount: 4.002914
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:18:04 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14245.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Jul-2024 17:13:30 ALS Bottle#: 16 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:19 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:20:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2111192	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	508079	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	809297	50.0	50.0	
17 Ethanol	45	2.188	2.173	0.015	98	27095	300.0	347.8	M
24 Isopropyl alcohol	45	2.532	2.517	0.015	96	25550	50.0	44.0	M
27 Acetonitrile	41	2.640	2.618	0.022	95	42092	50.0	41.8	M
36 Isopropyl ether	87	3.213	3.209	0.004	94	36193	5.00	4.35	
37 2-Chloro-1,3-butadiene	53	3.258	3.250	0.008	89	51037	5.00	4.45	
38 Tert-butyl ethyl ether	59	3.456	3.452	0.004	97	135380	5.00	4.66	
42 Ethyl acetate	43	3.610	3.595	0.015	98	60923	10.0	8.51	
43 Propionitrile	54	3.636	3.621	0.015	98	32084	50.0	42.9	
45 Methacrylonitrile	41	3.726	3.722	0.004	90	232282	50.0	41.6	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	94	136829	5.00	4.67	
58 n-Butanol	56	4.624	4.575	0.049	58	6019	125.0	0	
63 Methyl methacrylate	100	4.893	4.889	0.004	89	20891	10.0	8.34	
67 2-Nitropropane	41	5.230	5.222	0.008	97	18070	10.0	8.36	
90 cis-1,4-Dichloro-2-butene	53	7.842	7.838	0.004	90	20864	10.0	10.1	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	97	160457	5.00	4.47	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	48622	5.00	4.24	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 5.00 Units: uL

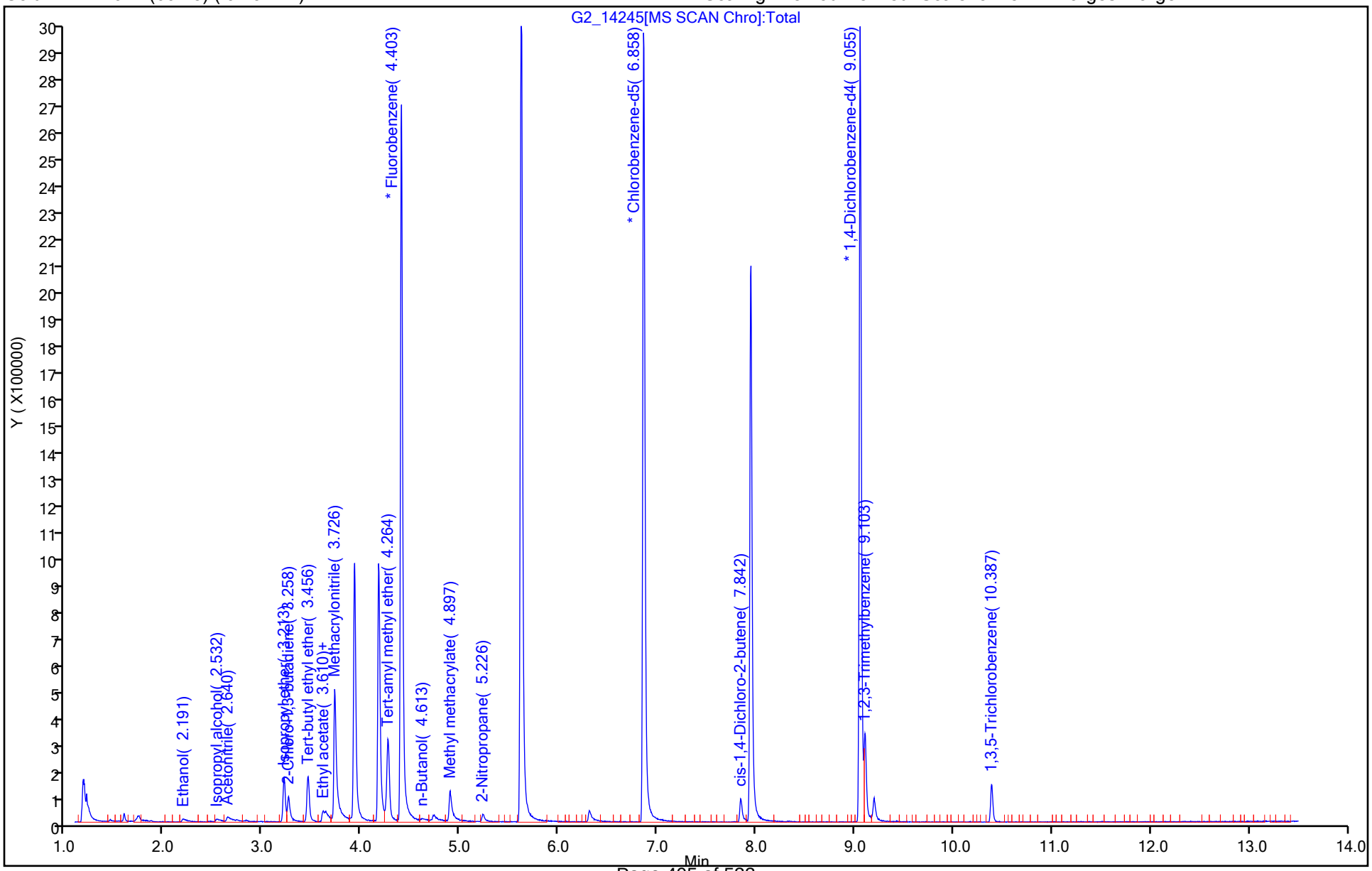
Report Date: 31-Jul-2024 09:48:19 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14245.D

Injection Date:	30-Jul-2024 17:13:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD5			Worklist Smp#:	41
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

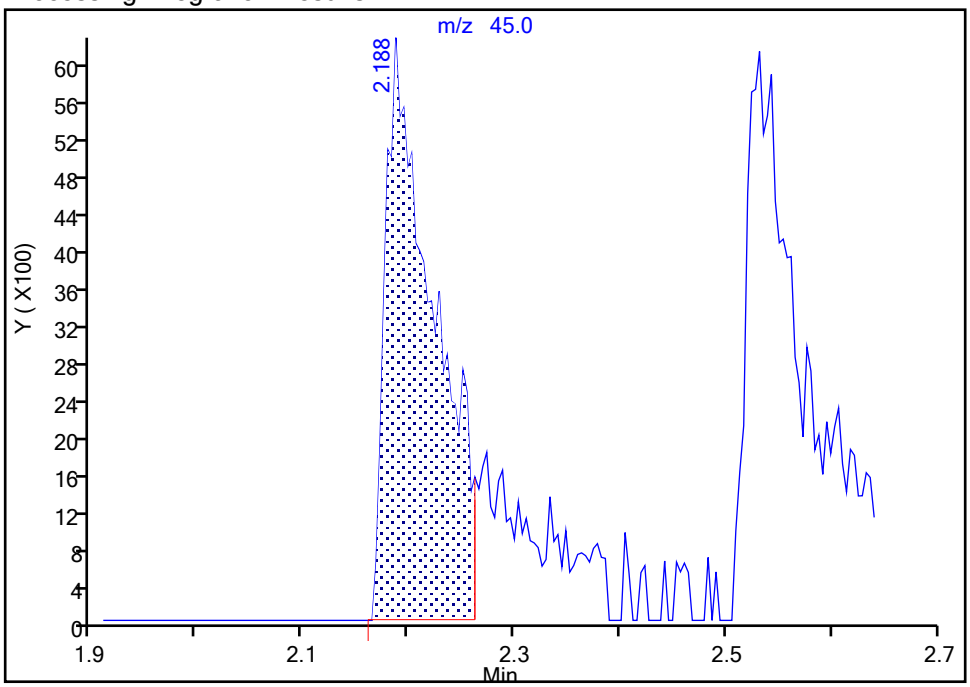
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14245.D
Injection Date: 30-Jul-2024 17:13:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER ALS Bottle#: 16 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

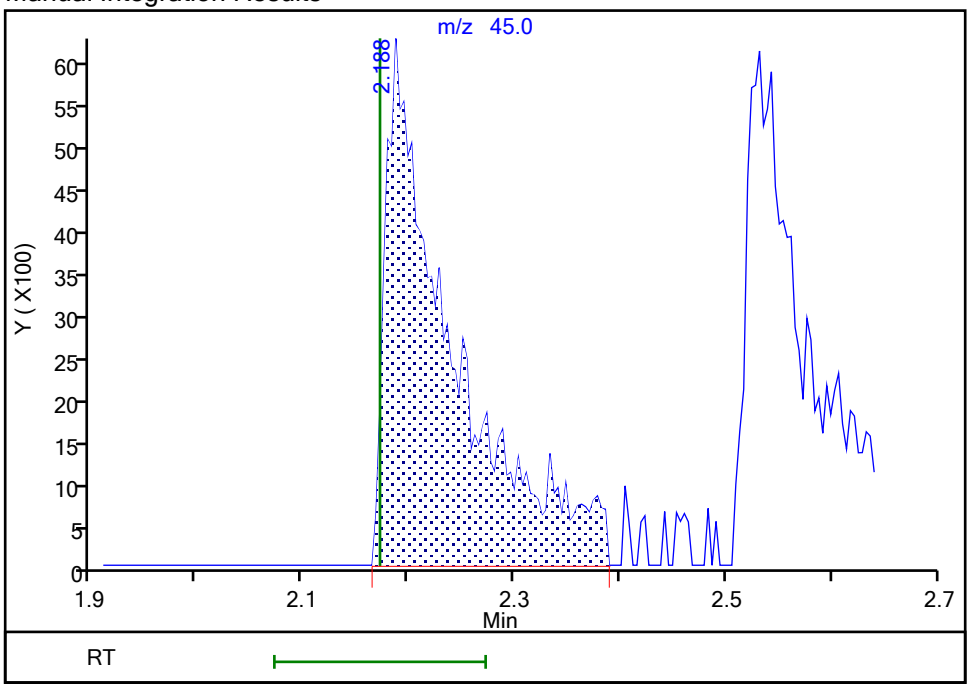
Processing Integration Results

RT: 2.19
Area: 19937
Amount: 316.0428
Amount Units: ug/l



Manual Integration Results

RT: 2.19
Area: 27095
Amount: 347.8438
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:21:44 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

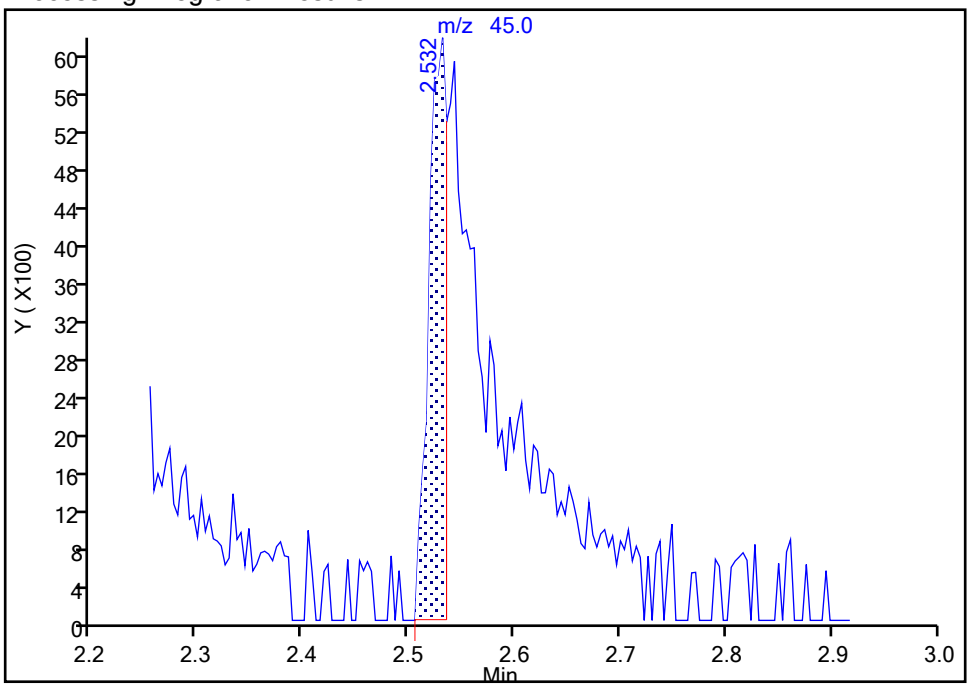
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14245.D
Injection Date: 30-Jul-2024 17:13:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER ALS Bottle#: 16 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

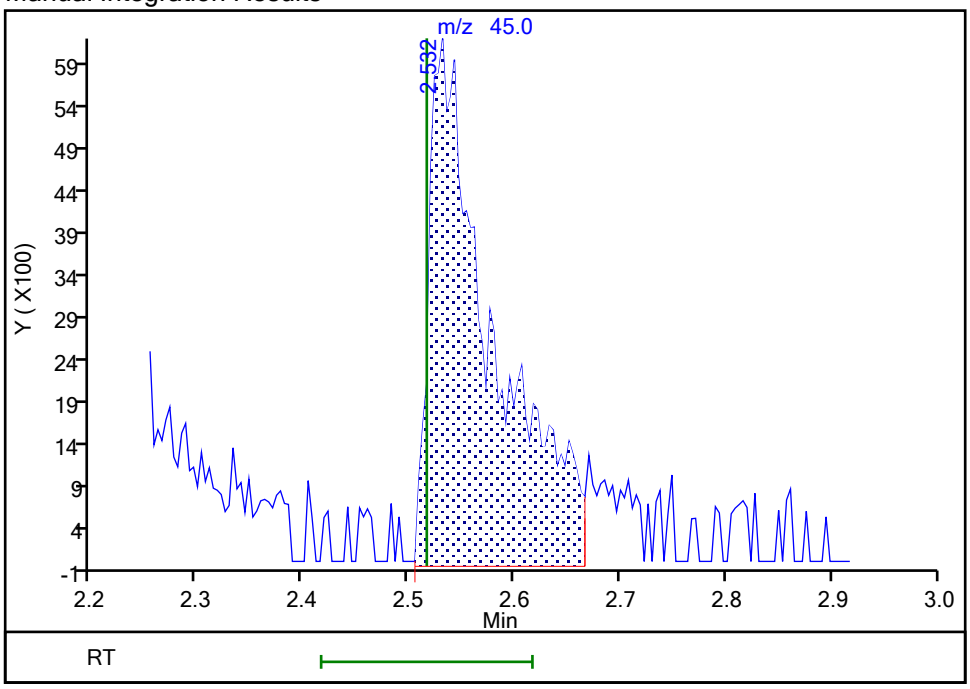
Processing Integration Results

RT: 2.53
Area: 7191
Amount: 20.933128
Amount Units: ug/l



Manual Integration Results

RT: 2.53
Area: 25550
Amount: 43.997350
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:46:06 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

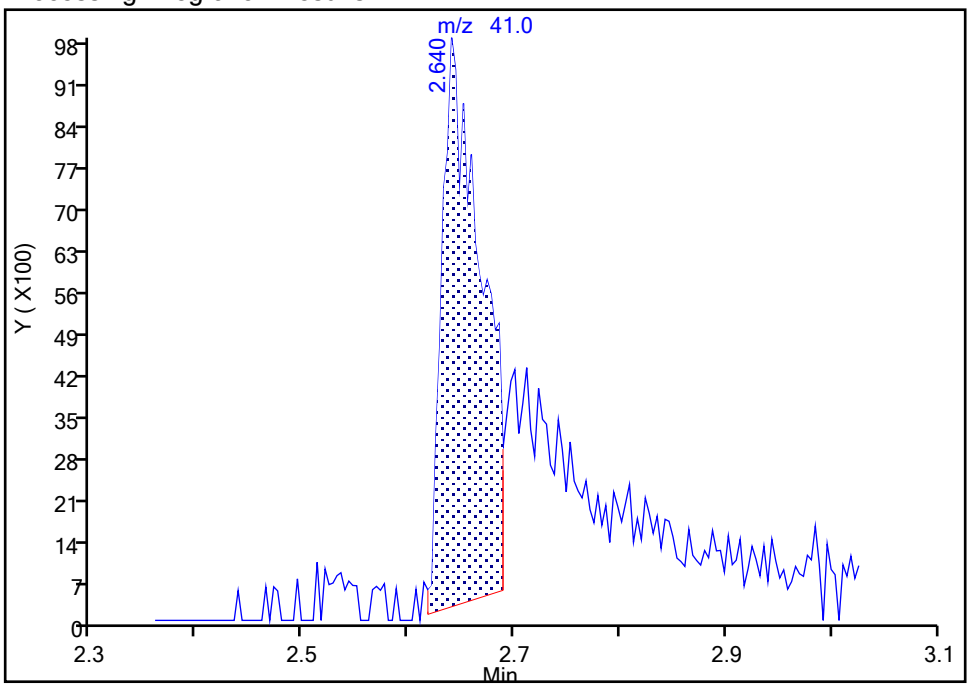
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14245.D
Injection Date: 30-Jul-2024 17:13:30 Instrument ID: VMS_G2
Lims ID: STD5
Client ID:
Operator ID: COULTER ALS Bottle#: 16 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

Signal: 1

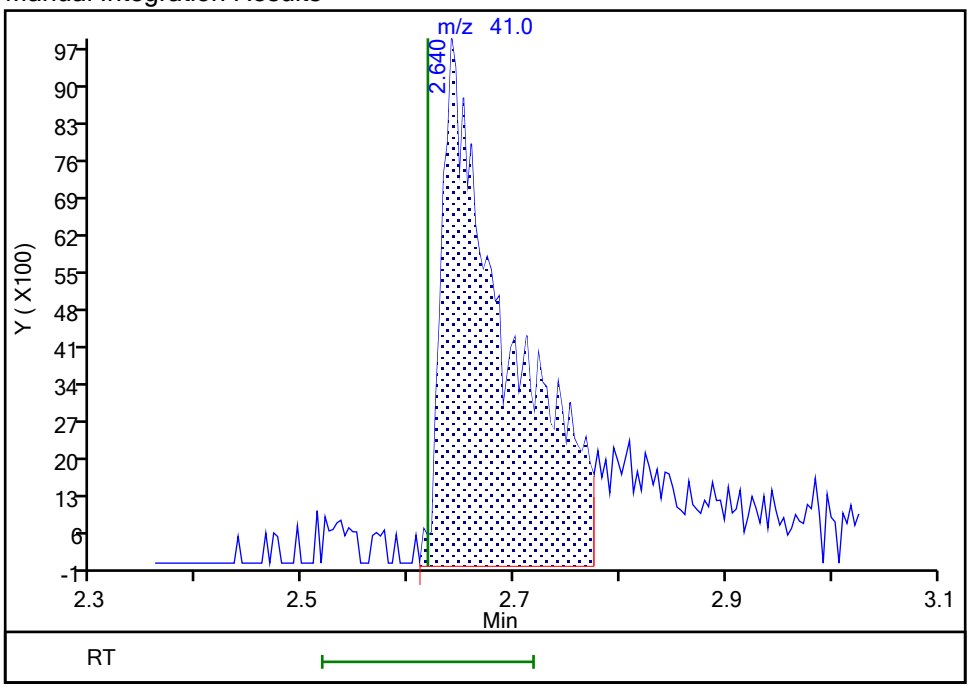
RT: 2.64
Area: 24662
Amount: 39.721081
Amount Units: ug/l

Processing Integration Results



RT: 2.64
Area: 42092
Amount: 41.775942
Amount Units: ug/l

Manual Integration Results



Reviewer: LP8K, 30-Jul-2024 19:22:17 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14246.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Jul-2024 17:34:30 ALS Bottle#: 17 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:20 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:34:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2149430	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	524528	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	95	808718	50.0	50.0	
17 Ethanol	45	2.184	2.173	0.011	98	49911	600.0	519.2	
24 Isopropyl alcohol	45	2.521	2.517	0.004	98	51642	100.0	84.0	M
27 Acetonitrile	41	2.633	2.618	0.015	98	86971	100.0	79.7	M
36 Isopropyl ether	87	3.209	3.209	0.000	94	79686	10.0	9.40	
37 2-Chloro-1,3-butadiene	53	3.254	3.250	0.004	90	114103	10.0	8.76	
38 Tert-butyl ethyl ether	59	3.456	3.452	0.004	98	275981	10.0	9.33	
42 Ethyl acetate	43	3.602	3.595	0.007	99	146606	20.0	17.7	
43 Propionitrile	54	3.632	3.621	0.011	100	76949	100.0	73.5	
45 Methacrylonitrile	41	3.722	3.722	0.000	89	527102	100.0	92.6	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	264625	10.0	8.87	
58 n-Butanol	56	4.594	4.575	0.019	87	28547	250.0	0	
63 Methyl methacrylate	100	4.893	4.889	0.004	88	42659	20.0	14.9	
67 2-Nitropropane	41	5.230	5.222	0.008	97	39472	20.0	17.9	
90 cis-1,4-Dichloro-2-butene	53	7.842	7.838	0.004	90	51351	20.0	19.4	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	97	320280	10.0	8.93	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	96	98742	10.0	8.62	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 10.00 Units: uL

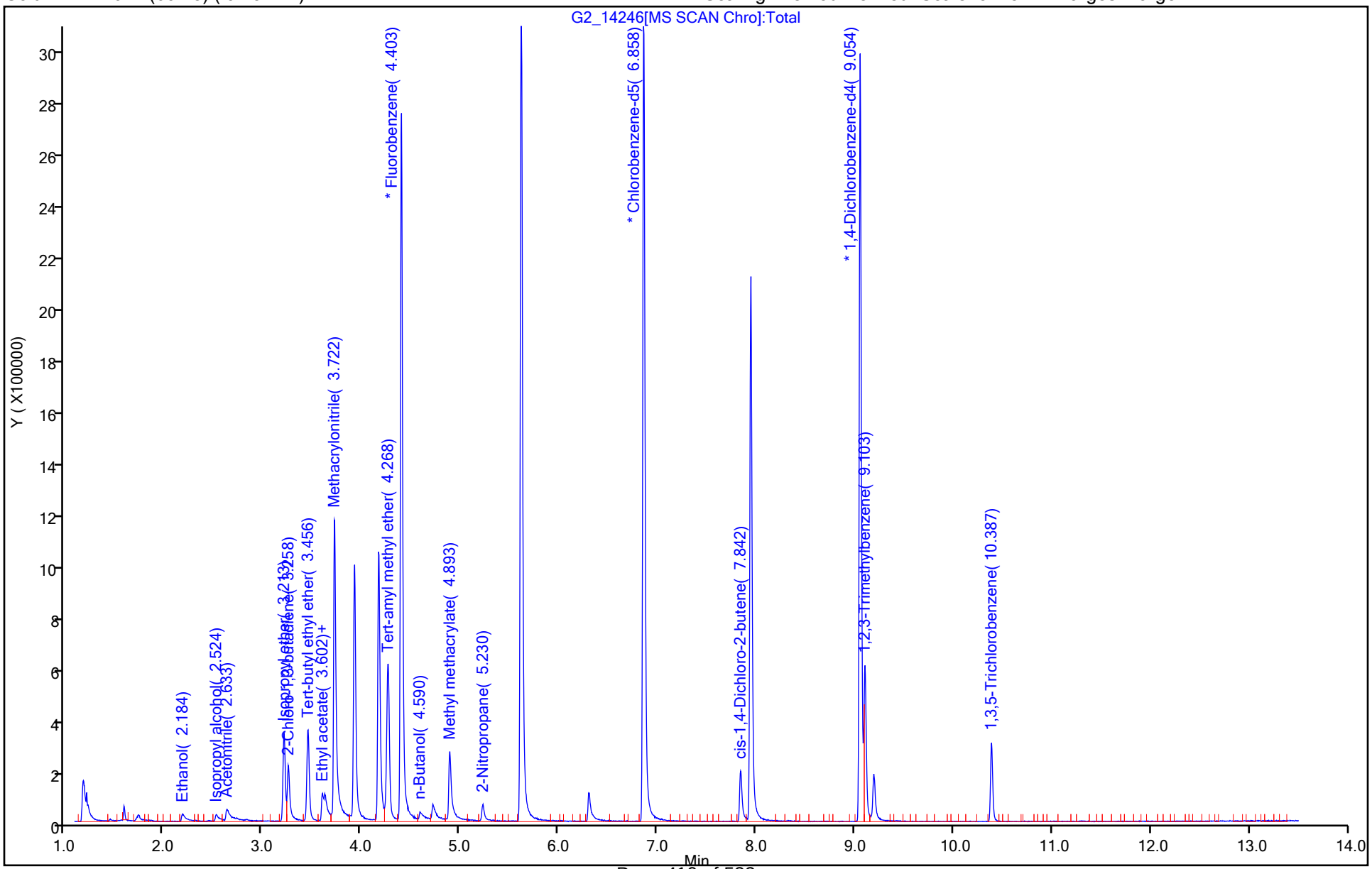
Report Date: 31-Jul-2024 09:48:21 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14246.D

Injection Date:	30-Jul-2024 17:34:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD10			Worklist Smp#:	42
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	AQ_VMSG2_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



Manual Integration/User Assign Peak Report

Eurofins Denver

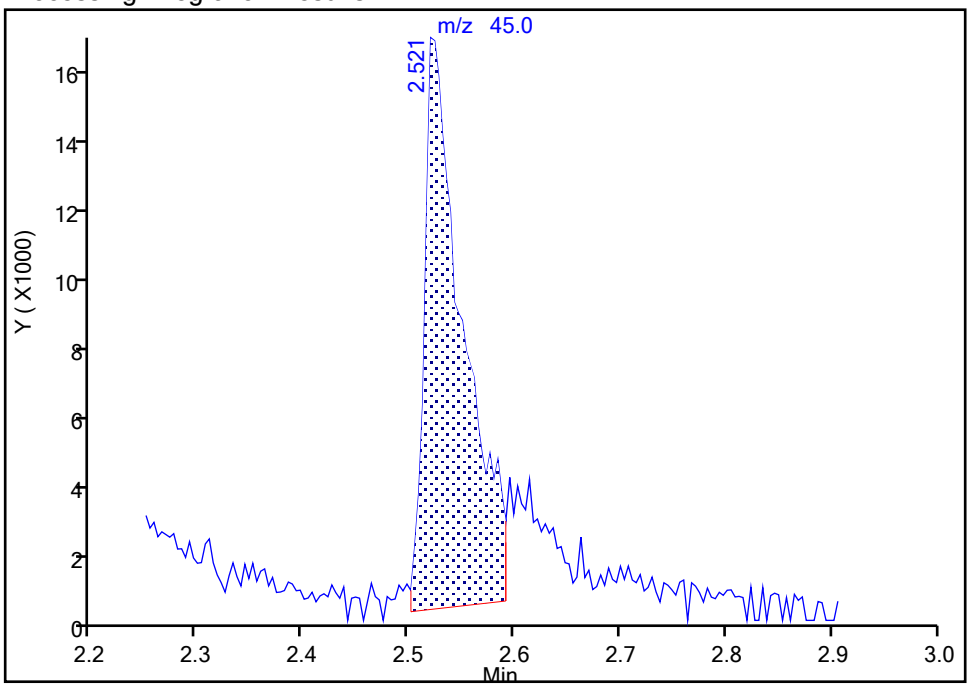
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14246.D
Injection Date: 30-Jul-2024 17:34:30 Instrument ID: VMS_G2
Lims ID: STD10
Client ID:
Operator ID: COULTER ALS Bottle#: 17 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

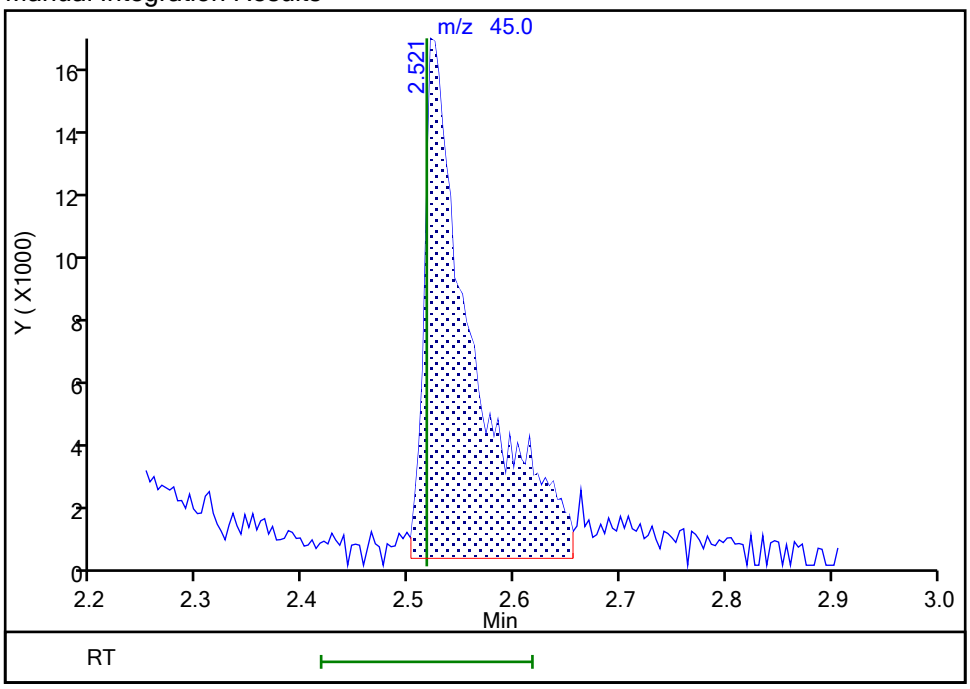
Processing Integration Results

RT: 2.52
Area: 41064
Amount: 100.0977
Amount Units: ug/l



Manual Integration Results

RT: 2.52
Area: 51642
Amount: 83.977440
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:47:58 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

Eurofins Denver

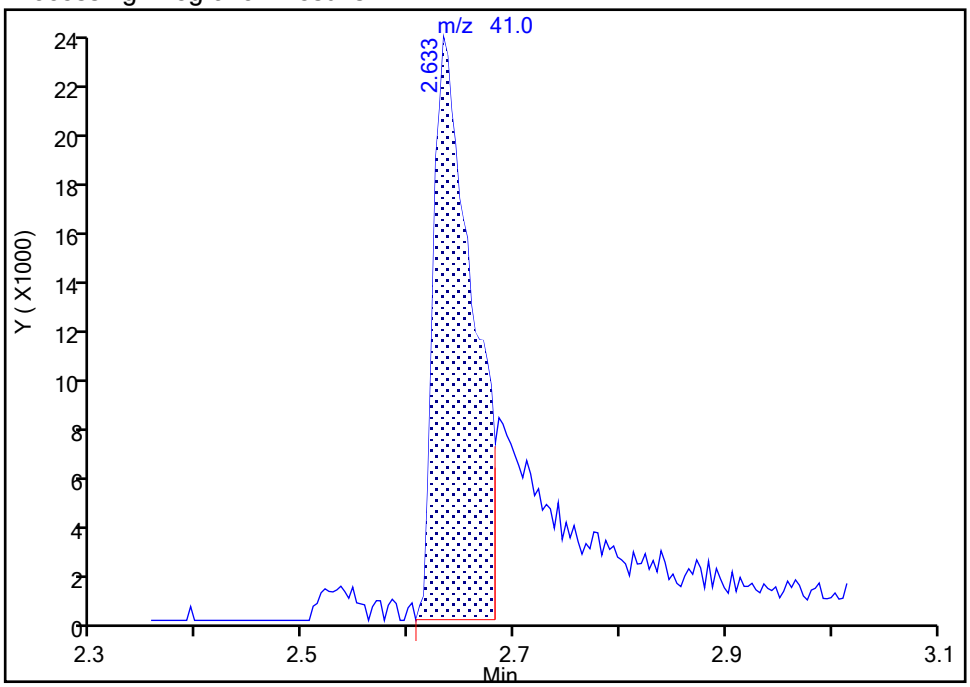
Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14246.D
Injection Date: 30-Jul-2024 17:34:30 Instrument ID: VMS_G2
Lims ID: STD10
Client ID:
Operator ID: COULTER ALS Bottle#: 17 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

27 Acetonitrile, CAS: 75-05-8

Signal: 1

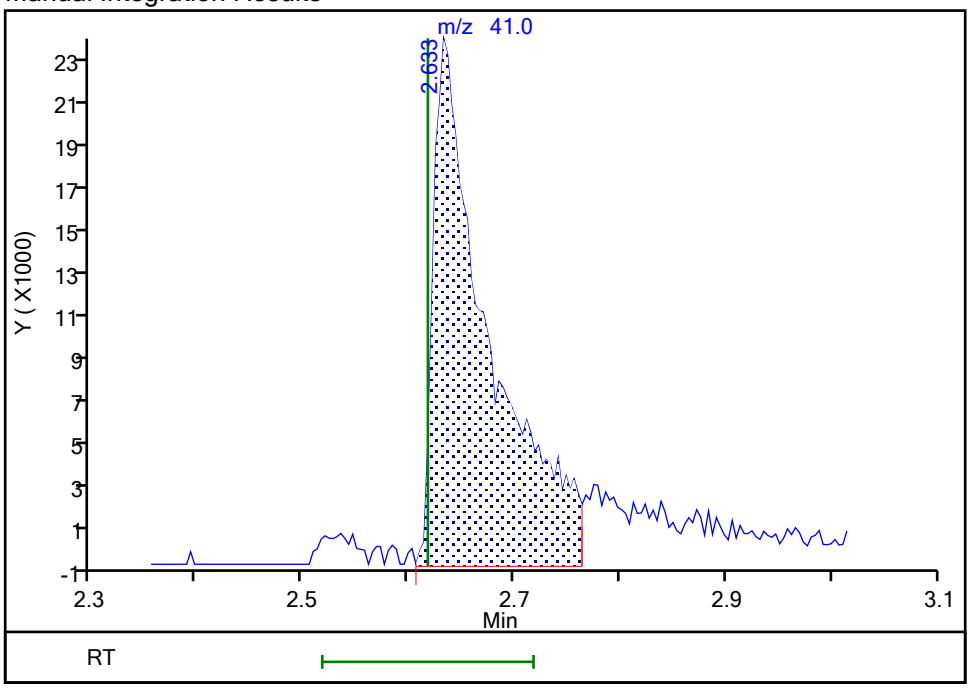
Processing Integration Results

RT: 2.63
Area: 60560
Amount: 112.1783
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 86971
Amount: 79.682804
Amount Units: ug/l



Reviewer: LP8K, 30-Jul-2024 19:35:08 -06:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14247.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Jul-2024 17:56:30 ALS Bottle#: 18 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:21 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:36:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2188250	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	85	531159	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	811108	50.0	50.0	
17 Ethanol	45	2.173	2.173	0.000	100	360165	3000.0	2851.9	
24 Isopropyl alcohol	45	2.517	2.517	0.000	99	279329	500.0	431.4	
27 Acetonitrile	41	2.618	2.618	0.000	100	547549	500.0	467.1	
36 Isopropyl ether	87	3.209	3.209	0.000	94	450891	50.0	52.2	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	723178	50.0	50.1	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	97	1531884	50.0	50.9	
42 Ethyl acetate	43	3.595	3.595	0.000	99	896627	100.0	97.1	
43 Propionitrile	54	3.621	3.621	0.000	99	660024	500.0	468.8	
45 Methacrylonitrile	41	3.722	3.722	0.000	89	3122458	500.0	538.9	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	99	1544669	50.0	50.9	
58 n-Butanol	56	4.575	4.575	0.000	85	326085	1250.0	0	
63 Methyl methacrylate	100	4.889	4.889	0.000	88	308471	100.0	94.9	
67 2-Nitropropane	41	5.222	5.222	0.000	97	233171	100.0	104.0	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	86	310396	100.0	98.1	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	1867775	50.0	51.9	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	597785	50.0	52.0	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 50.00 Units: uL

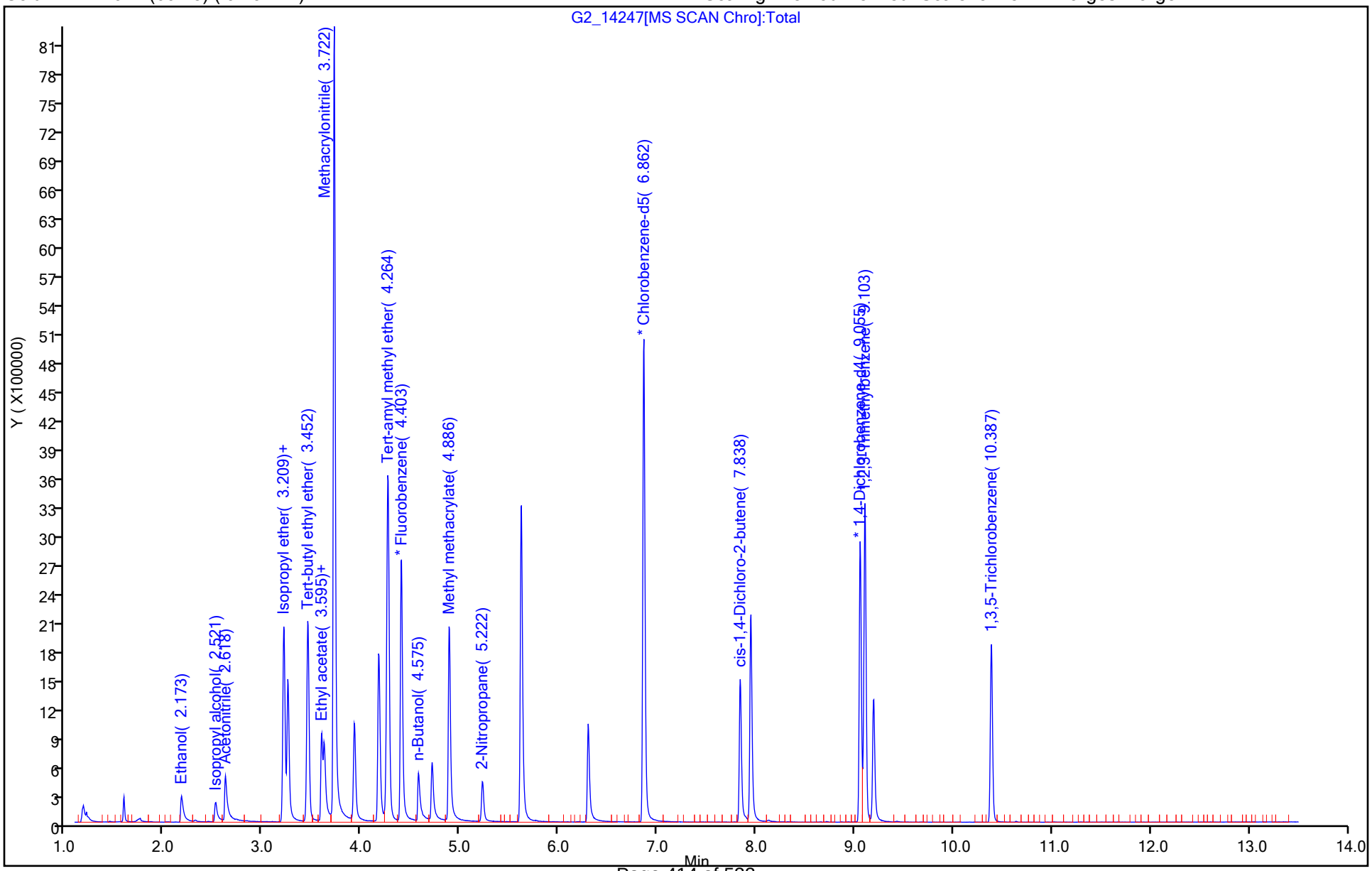
Report Date: 31-Jul-2024 09:48:22 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14247.D

Injection Date:	30-Jul-2024 17:56:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD50			Worklist Smp#:	43
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14248.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Jul-2024 18:17:30 ALS Bottle#: 19 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:23 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2204524	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	87	537977	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	827774	50.0	50.0	
17 Ethanol	45	2.173	2.173	0.000	99	604959	4500.0	4664.2	
24 Isopropyl alcohol	45	2.517	2.517	0.000	99	520221	750.0	794.7	
27 Acetonitrile	41	2.614	2.618	-0.004	100	908795	750.0	766.3	
36 Isopropyl ether	87	3.209	3.209	0.000	95	701060	75.0	80.6	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	1126081	75.0	77.0	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	97	2394226	75.0	78.9	
42 Ethyl acetate	43	3.591	3.595	-0.004	99	1471227	150.0	156.9	
43 Propionitrile	54	3.621	3.621	0.000	99	1111076	750.0	769.8	
45 Methacrylonitrile	41	3.722	3.722	0.000	89	4974331	750.0	852.2	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	99	2388392	75.0	78.1	
58 n-Butanol	56	4.575	4.575	0.000	84	570015	1875.0	0	
63 Methyl methacrylate	100	4.886	4.889	-0.003	88	507279	150.0	153.7	
67 2-Nitropropane	41	5.223	5.222	0.001	97	375481	150.0	166.3	
90 cis-1,4-Dichloro-2-butene	53	7.835	7.838	-0.003	86	512076	150.0	156.3	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	2933349	75.0	79.9	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	951839	75.0	81.2	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 75.00 Units: uL

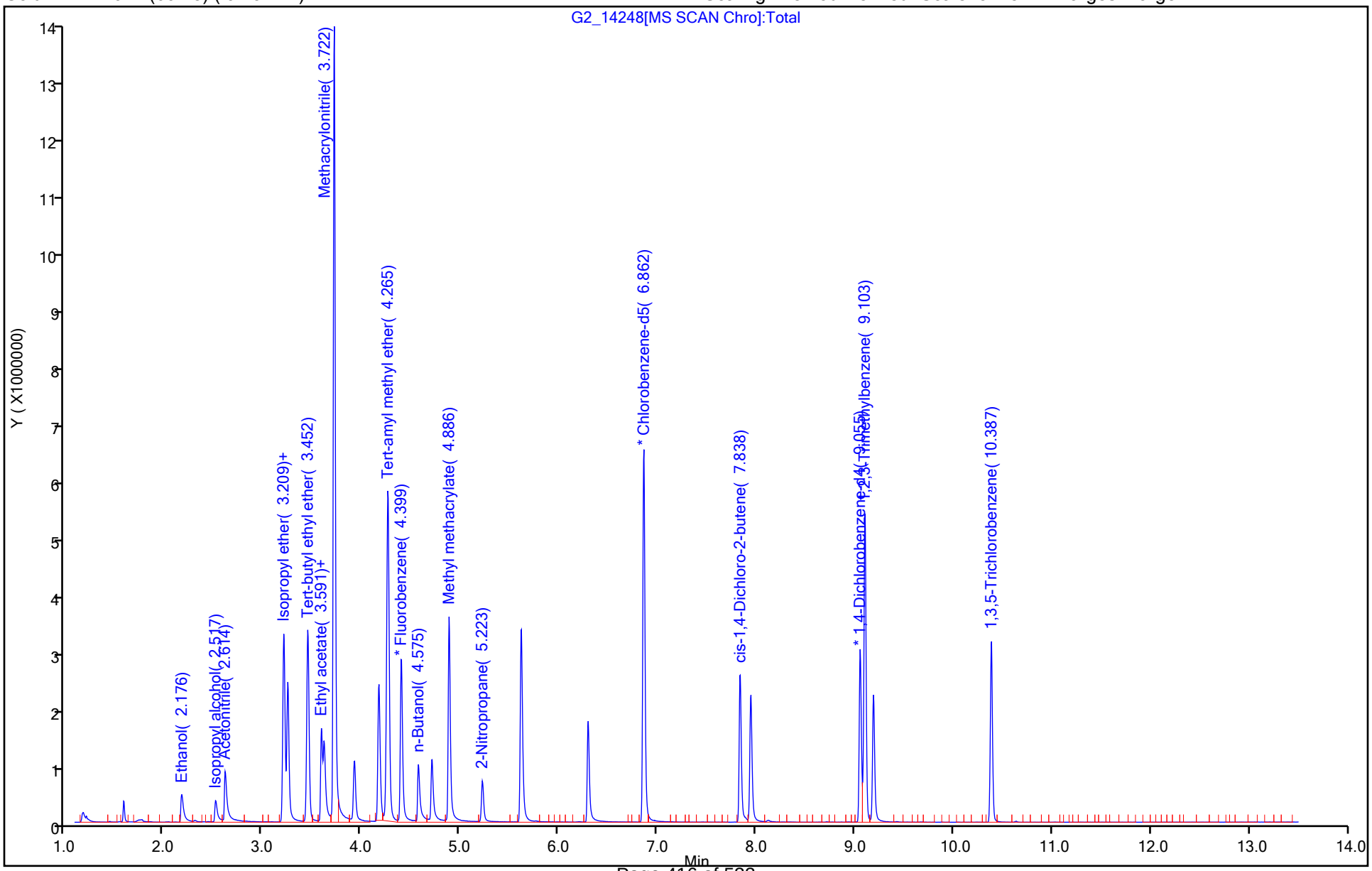
Report Date: 31-Jul-2024 09:48:23 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14248.D

Injection Date:	30-Jul-2024 18:17:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD75			Worklist Smp#:	44
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14249.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Jul-2024 18:38:30 ALS Bottle#: 20 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:24 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:36:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2276054	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	87	556426	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	860598	50.0	50.0	
17 Ethanol	45	2.173	2.173	0.000	99	786679	6000.0	5839.3	
24 Isopropyl alcohol	45	2.517	2.517	0.000	99	615349	1000.0	909.9	
27 Acetonitrile	41	2.614	2.618	-0.004	99	1170095	1000.0	954.4	
36 Isopropyl ether	87	3.209	3.209	0.000	95	930254	100.0	103.6	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	1507271	100.0	99.6	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	97	3156512	100.0	100.8	
42 Ethyl acetate	43	3.591	3.595	-0.004	98	1901095	200.0	196.0	
43 Propionitrile	54	3.621	3.621	0.000	99	1462748	1000.0	976.0	
45 Methacrylonitrile	41	3.722	3.722	0.000	88	6493998	1000.0	1077.6	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	3150655	100.0	99.7	
58 n-Butanol	56	4.575	4.575	0.000	84	781317	2500.0	0	
63 Methyl methacrylate	100	4.886	4.889	-0.003	87	669132	200.0	195.9	
67 2-Nitropropane	41	5.223	5.222	0.001	97	485047	200.0	208.1	
90 cis-1,4-Dichloro-2-butene	53	7.835	7.838	-0.003	87	671491	200.0	196.1	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	3892444	100.0	102.0	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	1268463	100.0	104.1	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 100.00 Units: uL

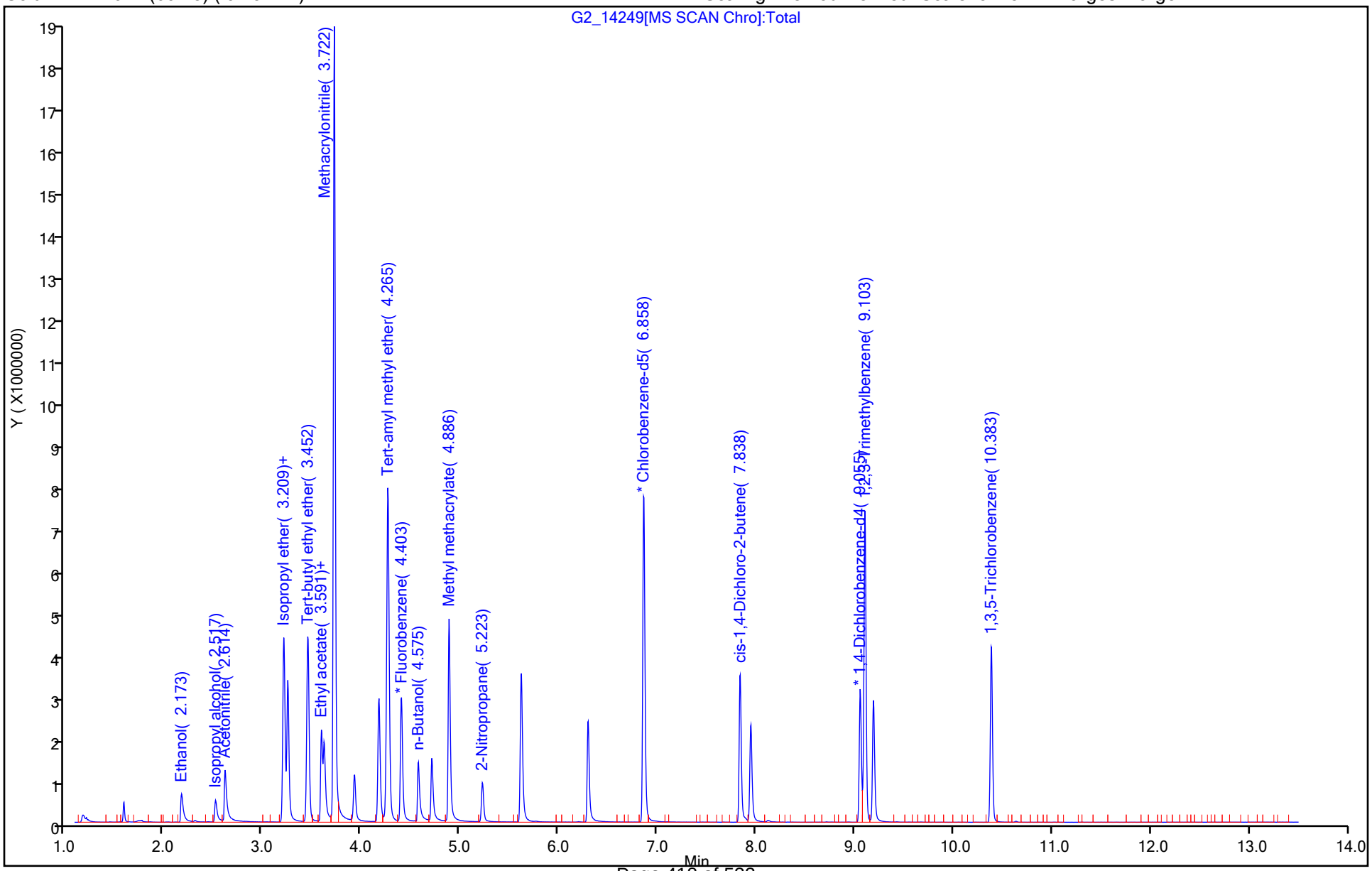
Report Date: 31-Jul-2024 09:48:24 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14249.D

Injection Date:	30-Jul-2024 18:38:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD100			Worklist Smp#:	45
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14250.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 30-Jul-2024 18:59:30 ALS Bottle#: 21 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub221

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:48:25 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 19:37:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	2196794	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	87	565839	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	849055	50.0	50.0	
17 Ethanol	45	2.184	2.173	0.011	100	1603115	12000	12178	
24 Isopropyl alcohol	45	2.524	2.517	0.007	99	1392202	2000.0	2128.3	
27 Acetonitrile	41	2.614	2.618	-0.004	99	2471050	2000.0	2082.4	
36 Isopropyl ether	87	3.213	3.209	0.004	94	1827474	200.0	210.9	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	2928388	200.0	199.6	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	97	6217588	200.0	205.6	
42 Ethyl acetate	43	3.591	3.595	-0.004	98	3789567	400.0	402.8	
43 Propionitrile	54	3.621	3.621	0.000	99	3013529	2000.0	2060.2	
45 Methacrylonitrile	41	3.726	3.722	0.004	89	12342397	2000.0	2121.9	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	6325544	200.0	207.5	
58 n-Butanol	56	4.579	4.575	0.004	84	1694494	5000.0	0	
63 Methyl methacrylate	100	4.886	4.889	-0.003	87	1361954	400.0	411.0	
67 2-Nitropropane	41	5.223	5.222	0.001	98	970140	400.0	431.2	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	84	1378858	400.0	404.1	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	8056933	200.0	214.1	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	2752731	200.0	229.0	

QC Flag Legend
Processing Flags

Reagents:
mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp B_00072 Amount Added: 200.00 Units: uL

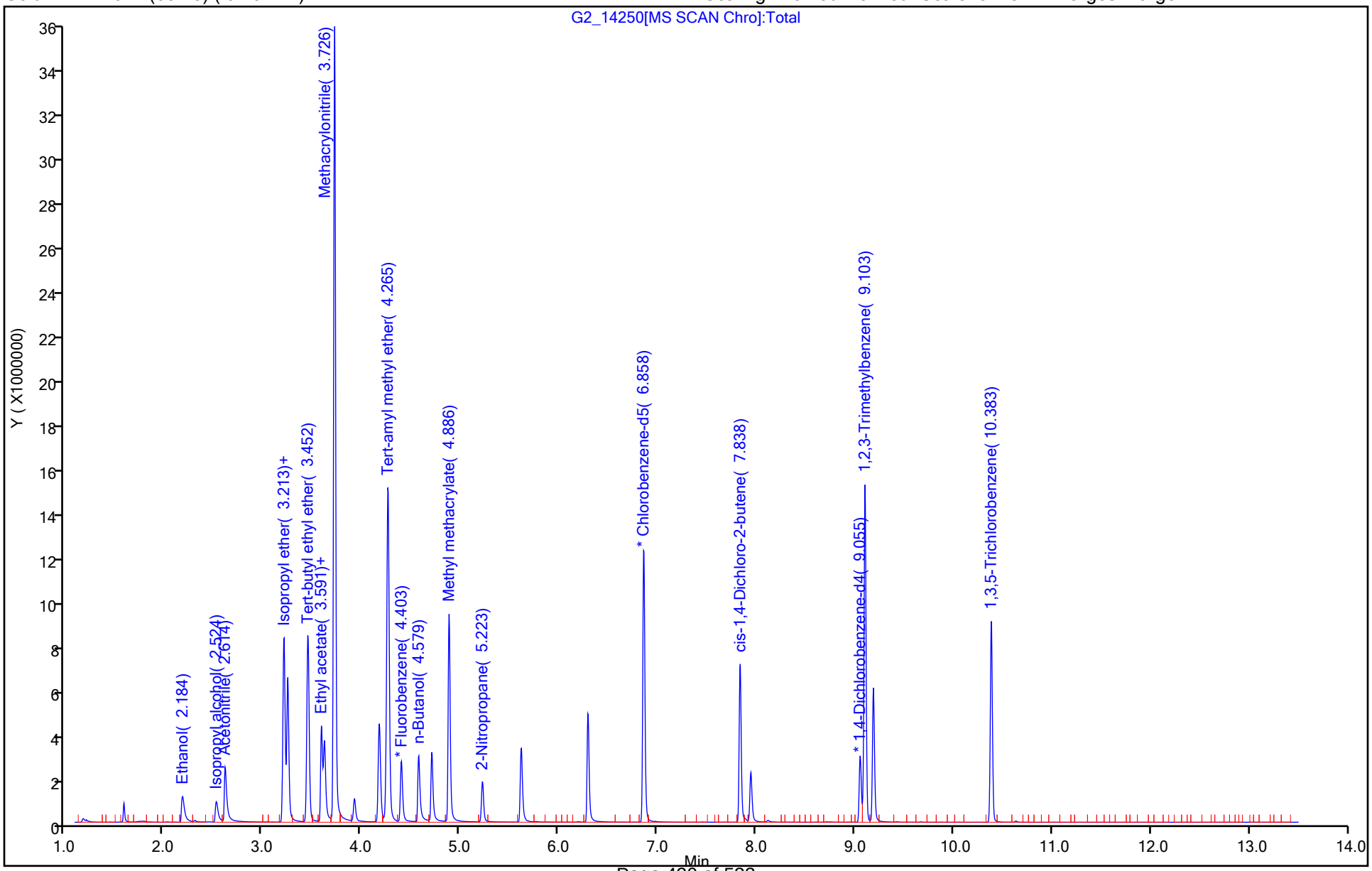
Report Date: 31-Jul-2024 09:48:25 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Injection Date:	30-Jul-2024 18:59:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	STD200			Worklist Smp#:	46
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	AQ_VMSG2_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
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

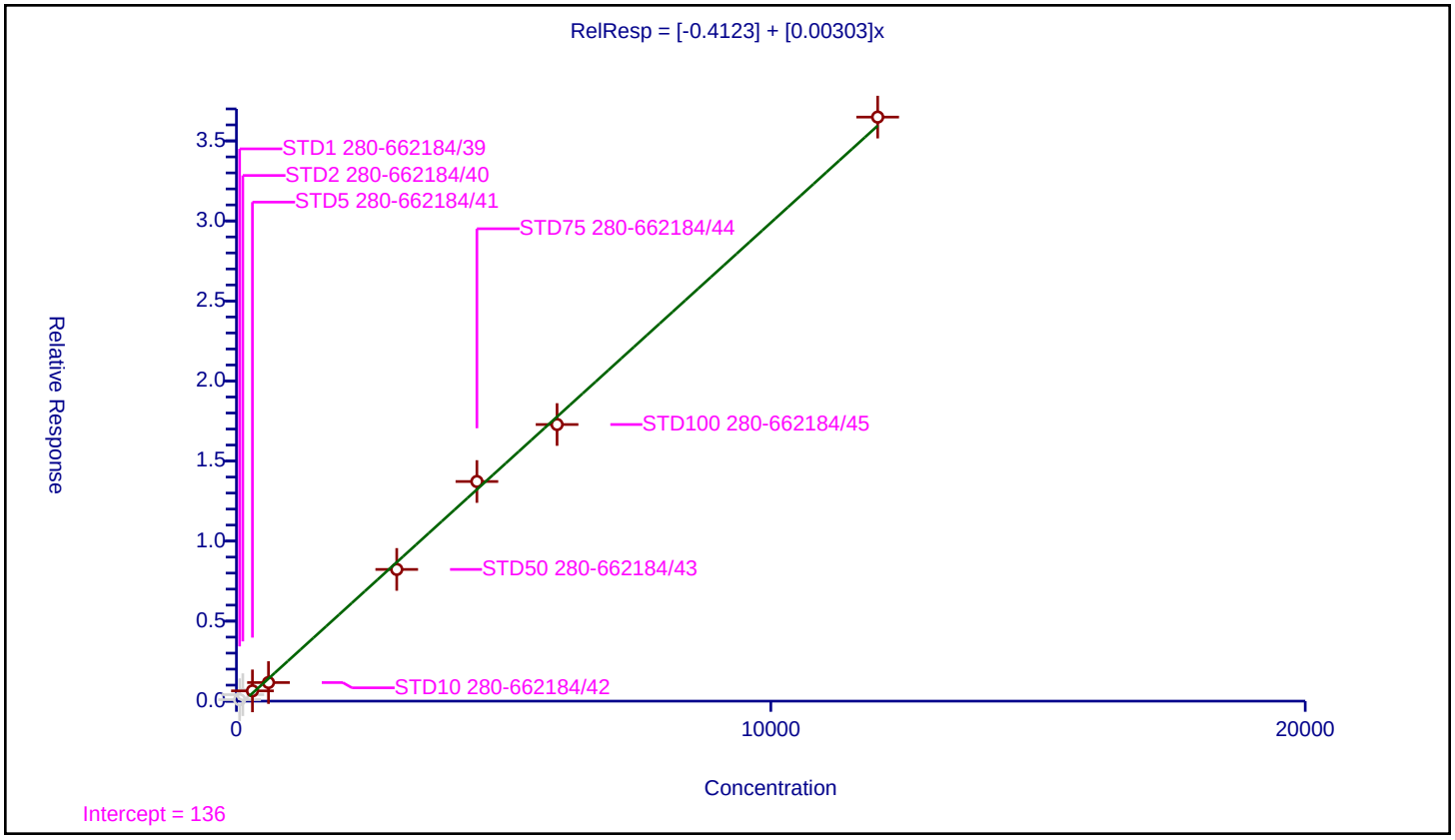
Curve Coefficients

Intercept:	-0.4123
Slope:	0.00303

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	60.0	0.091587	50.0	2086006.0	0.001526	N
2	STD2 280-662184/40	120.0	0.405504	50.0	2047573.0	0.003379	N
3	STD5 280-662184/41	300.0	0.641699	50.0	2111192.0	0.002139	Y
4	STD10 280-662184/42	600.0	1.161029	50.0	2149430.0	0.001935	Y
5	STD50 280-662184/43	3000.0	8.229521	50.0	2188250.0	0.002743	Y
6	STD75 280-662184/44	4500.0	13.720853	50.0	2204524.0	0.003049	Y
7	STD100 280-662184/45	6000.0	17.281642	50.0	2276054.0	0.00288	Y
8	STD200 280-662184/46	12000.0	36.487604	50.0	2196794.0	0.003041	Y



Calibration / Isopropyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

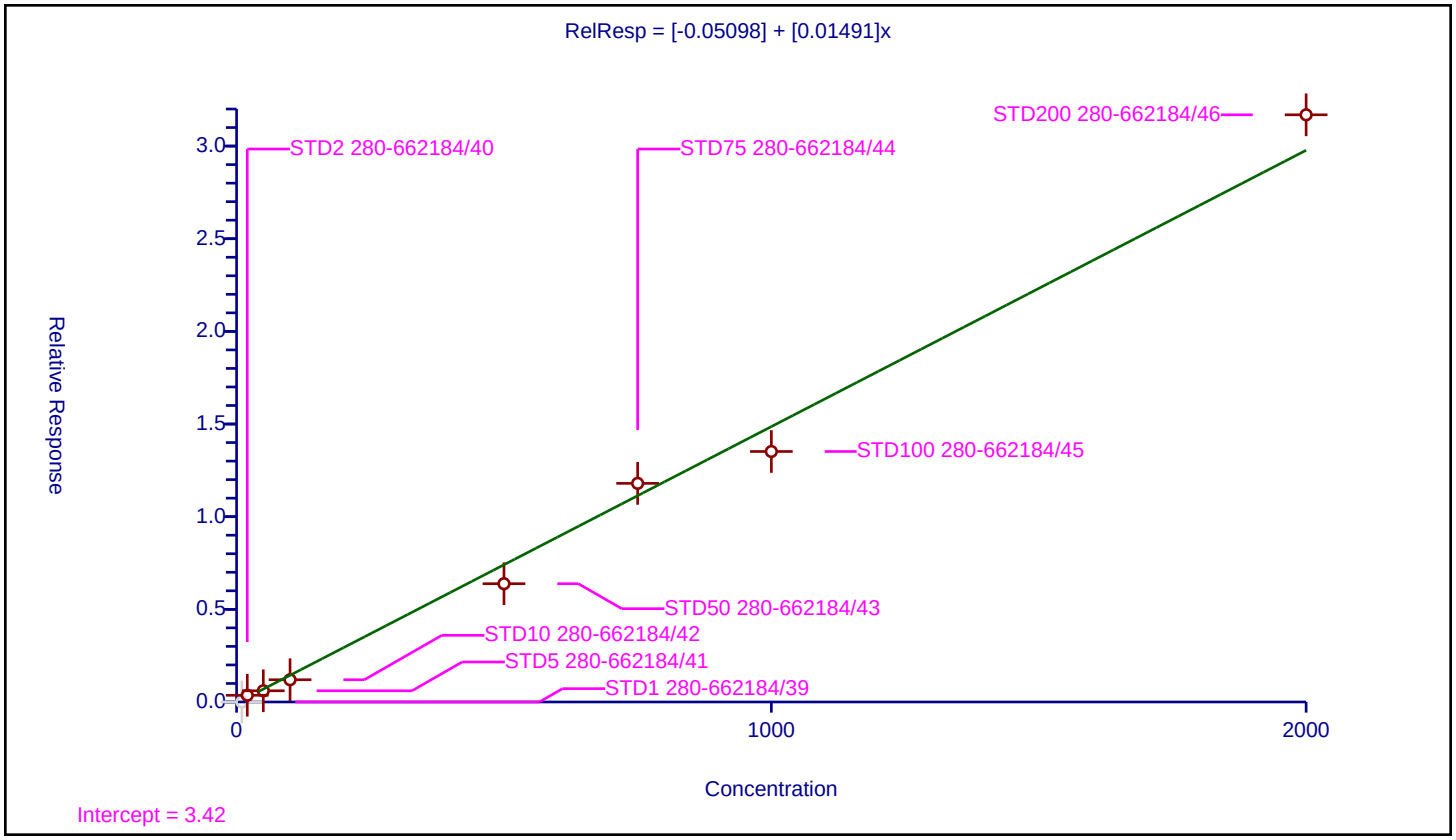
Curve Coefficients

Intercept:	-0.05098
Slope:	0.01491

Error Coefficients

Relative Standard Deviation:	21.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	10.0	0.0	50.0	2086006.0	0.0	N
2	STD2 280-662184/40	20.0	0.361721	50.0	2047573.0	0.018086	Y
3	STD5 280-662184/41	50.0	0.605108	50.0	2111192.0	0.012102	Y
4	STD10 280-662184/42	100.0	1.201295	50.0	2149430.0	0.012013	Y
5	STD50 280-662184/43	500.0	6.382475	50.0	2188250.0	0.012765	Y
6	STD75 280-662184/44	750.0	11.798942	50.0	2204524.0	0.015732	Y
7	STD100 280-662184/45	1000.0	13.517891	50.0	2276054.0	0.013518	Y
8	STD200 280-662184/46	2000.0	31.687131	50.0	2196794.0	0.015844	Y



Calibration / Acetonitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

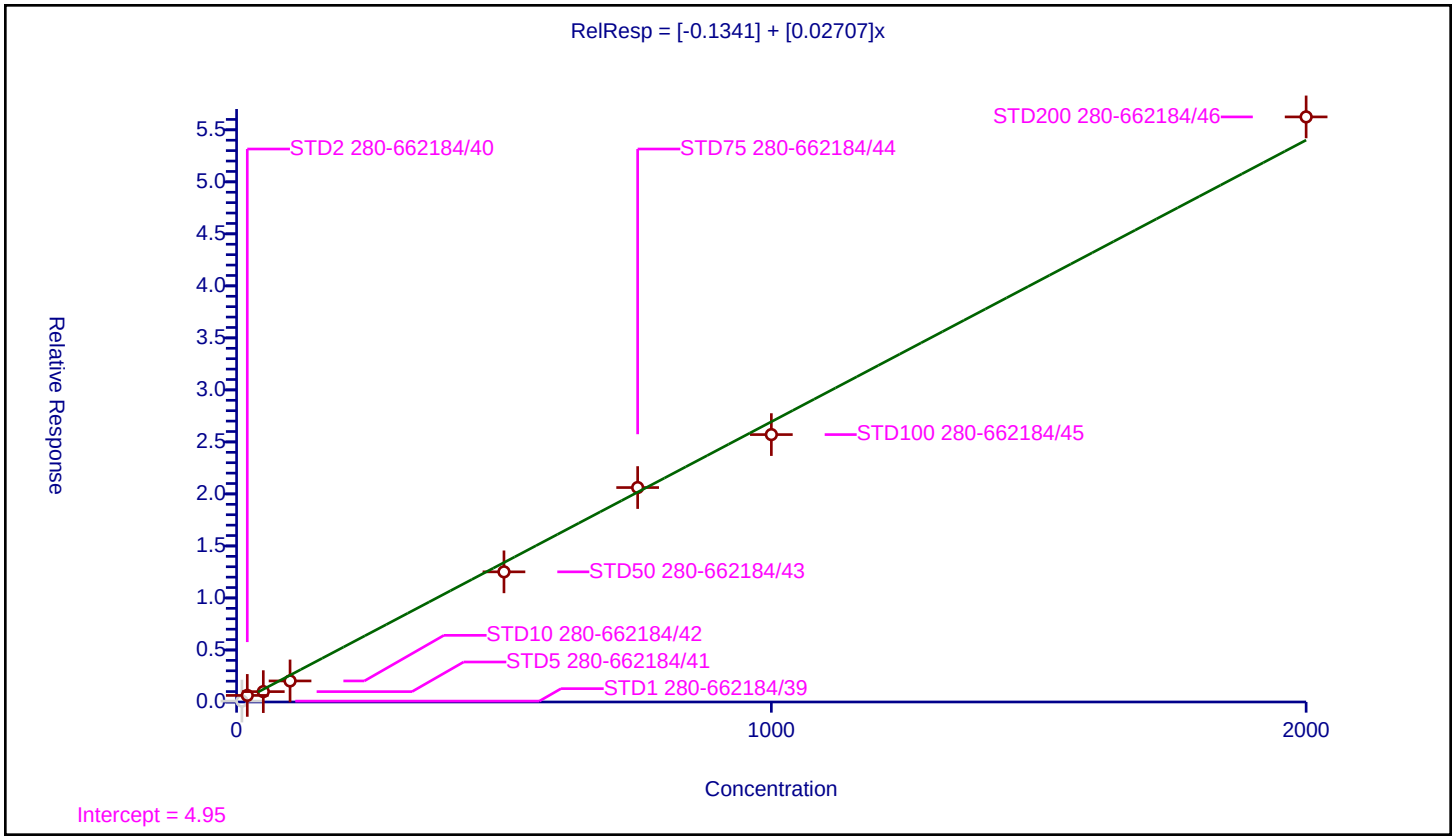
Curve Coefficients

Intercept:	-0.1341
Slope:	0.02707

Error Coefficients

Relative Standard Deviation:	22.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	10.0	0.08581	50.0	2086006.0	0.008581	N
2	STD2 280-662184/40	20.0	0.632651	50.0	2047573.0	0.031633	Y
3	STD5 280-662184/41	50.0	0.996878	50.0	2111192.0	0.019938	Y
4	STD10 280-662184/42	100.0	2.023118	50.0	2149430.0	0.020231	Y
5	STD50 280-662184/43	500.0	12.511116	50.0	2188250.0	0.025022	Y
6	STD75 280-662184/44	750.0	20.612046	50.0	2204524.0	0.027483	Y
7	STD100 280-662184/45	1000.0	25.704465	50.0	2276054.0	0.025704	Y
8	STD200 280-662184/46	2000.0	56.242187	50.0	2196794.0	0.028121	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

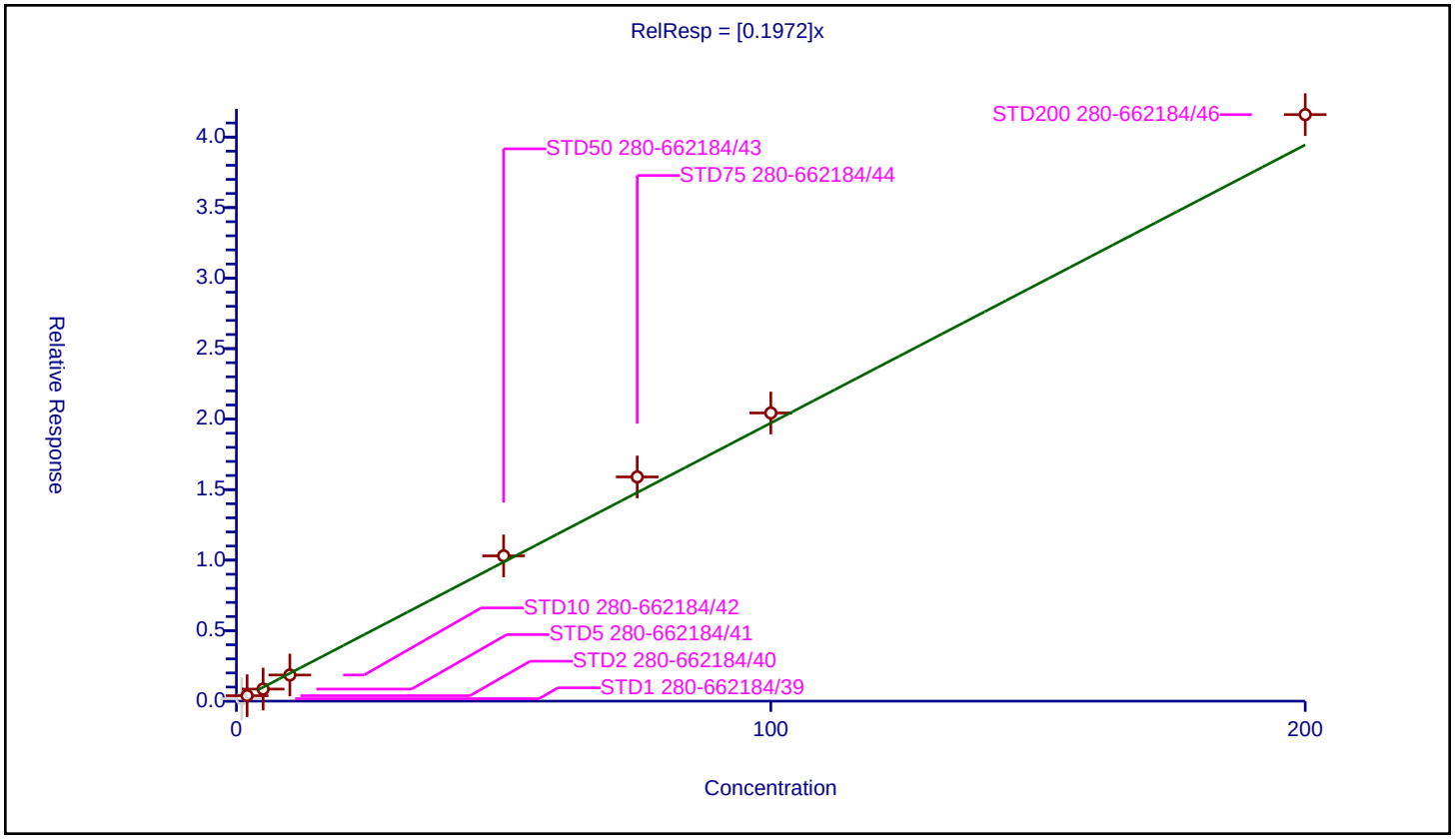
Curve Coefficients

Intercept:	0
Slope:	0.1972

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	0.173825	50.0	2086006.0	0.173825	N
2	STD2 280-662184/40	2.0	0.386995	50.0	2047573.0	0.193497	Y
3	STD5 280-662184/41	5.0	0.85717	50.0	2111192.0	0.171434	Y
4	STD10 280-662184/42	10.0	1.853654	50.0	2149430.0	0.185365	Y
5	STD50 280-662184/43	50.0	10.302548	50.0	2188250.0	0.206051	Y
6	STD75 280-662184/44	75.0	15.900485	50.0	2204524.0	0.212006	Y
7	STD100 280-662184/45	100.0	20.435675	50.0	2276054.0	0.204357	Y
8	STD200 280-662184/46	200.0	41.594114	50.0	2196794.0	0.207971	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

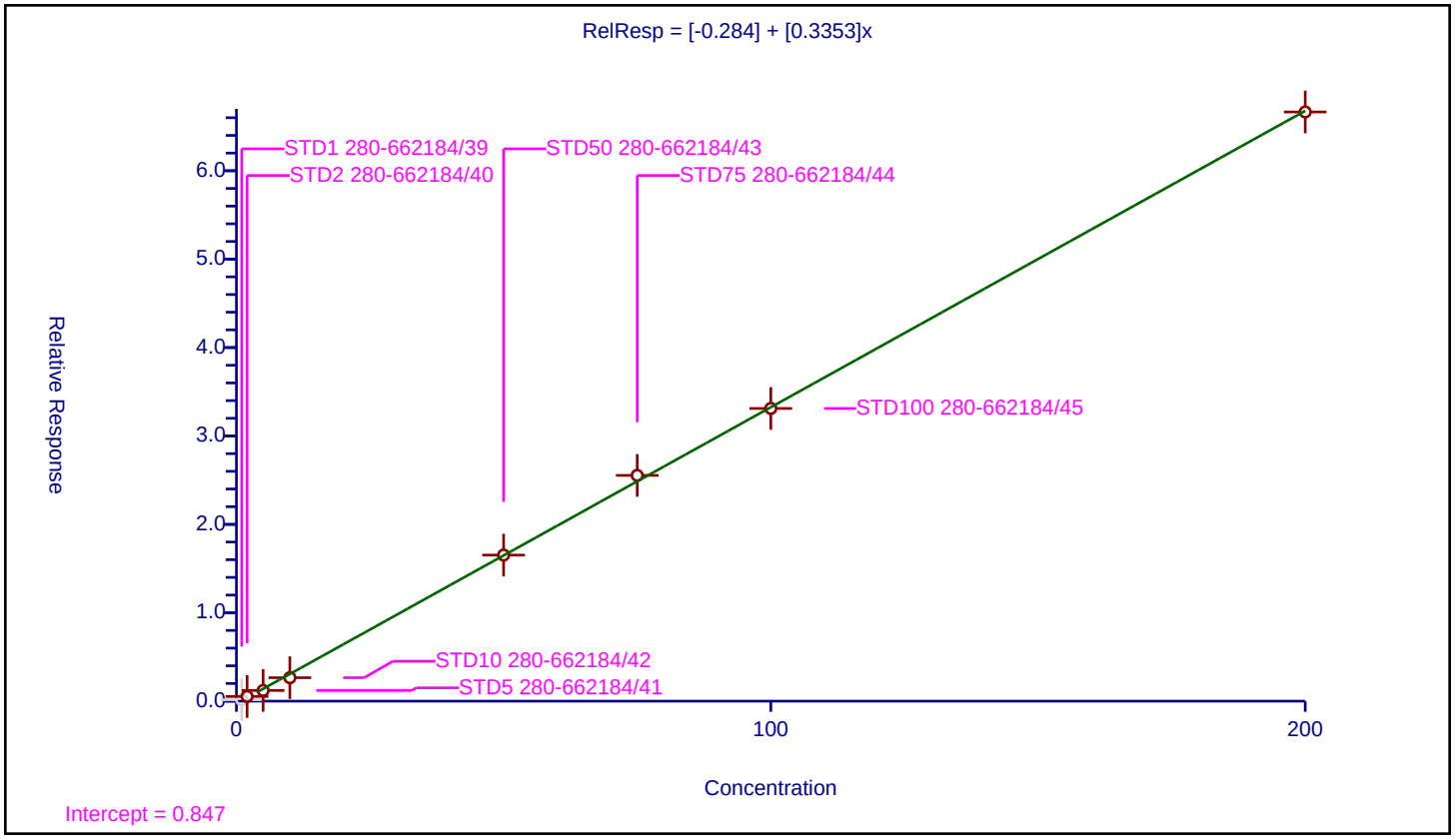
Curve Coefficients

Intercept:	-0.284
Slope:	0.3353

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	0.155489	50.0	2086006.0	0.155489	N
2	STD2 280-662184/40	2.0	0.527307	50.0	2047573.0	0.263654	Y
3	STD5 280-662184/41	5.0	1.208725	50.0	2111192.0	0.241745	Y
4	STD10 280-662184/42	10.0	2.654262	50.0	2149430.0	0.265426	Y
5	STD50 280-662184/43	50.0	16.524117	50.0	2188250.0	0.330482	Y
6	STD75 280-662184/44	75.0	25.54023	50.0	2204524.0	0.340536	Y
7	STD100 280-662184/45	100.0	33.111495	50.0	2276054.0	0.331115	Y
8	STD200 280-662184/46	200.0	66.651402	50.0	2196794.0	0.333257	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

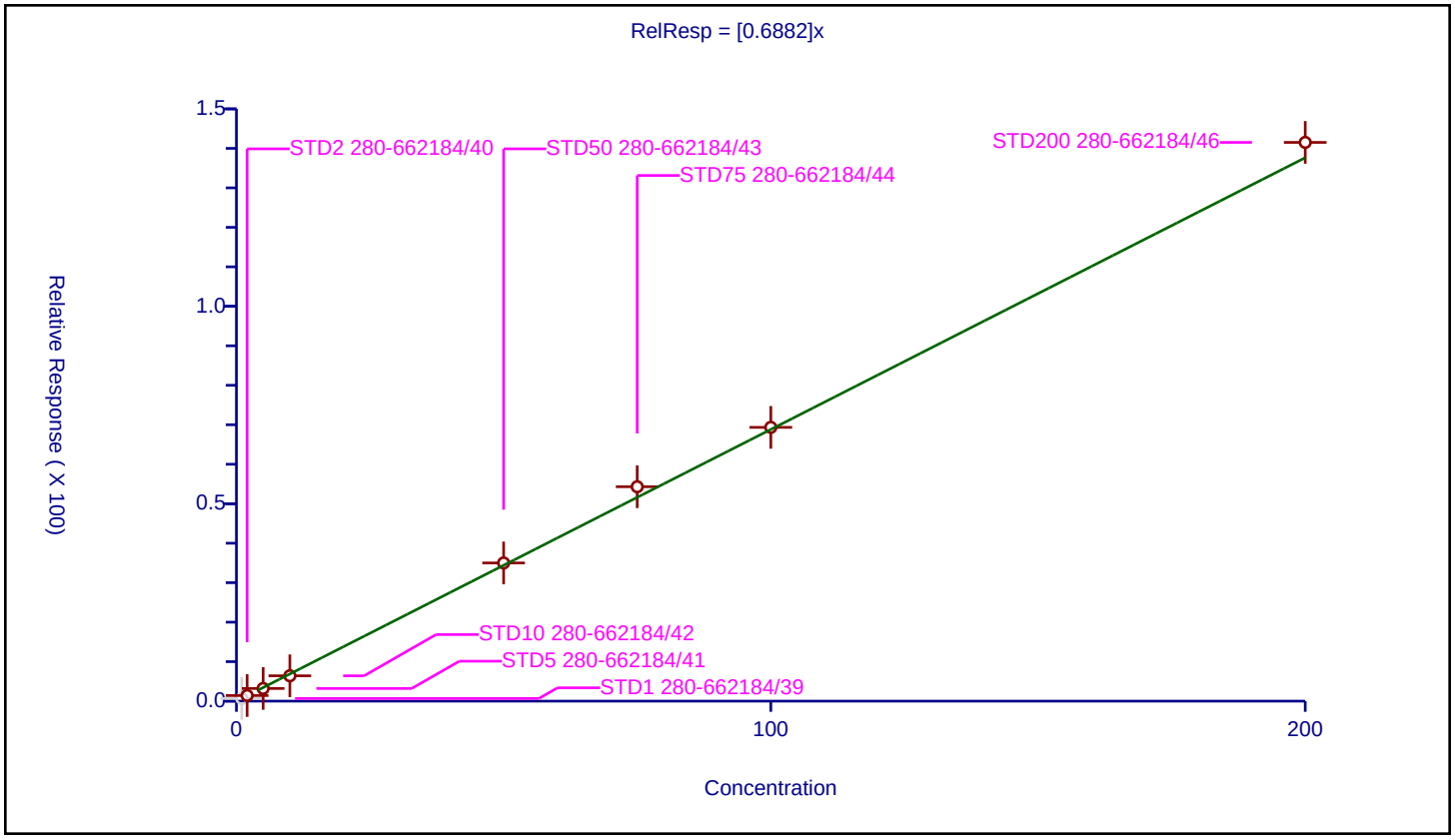
Curve Coefficients

Intercept:	0
Slope:	0.6882

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	0.679984	50.0	2086006.0	0.679984	N
2	STD2 280-662184/40	2.0	1.417947	50.0	2047573.0	0.708974	Y
3	STD5 280-662184/41	5.0	3.206246	50.0	2111192.0	0.641249	Y
4	STD10 280-662184/42	10.0	6.419865	50.0	2149430.0	0.641986	Y
5	STD50 280-662184/43	50.0	35.002491	50.0	2188250.0	0.70005	Y
6	STD75 280-662184/44	75.0	54.302561	50.0	2204524.0	0.724034	Y
7	STD100 280-662184/45	100.0	69.341764	50.0	2276054.0	0.693418	Y
8	STD200 280-662184/46	200.0	141.515044	50.0	2196794.0	0.707575	Y



Calibration / Ethyl acetate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

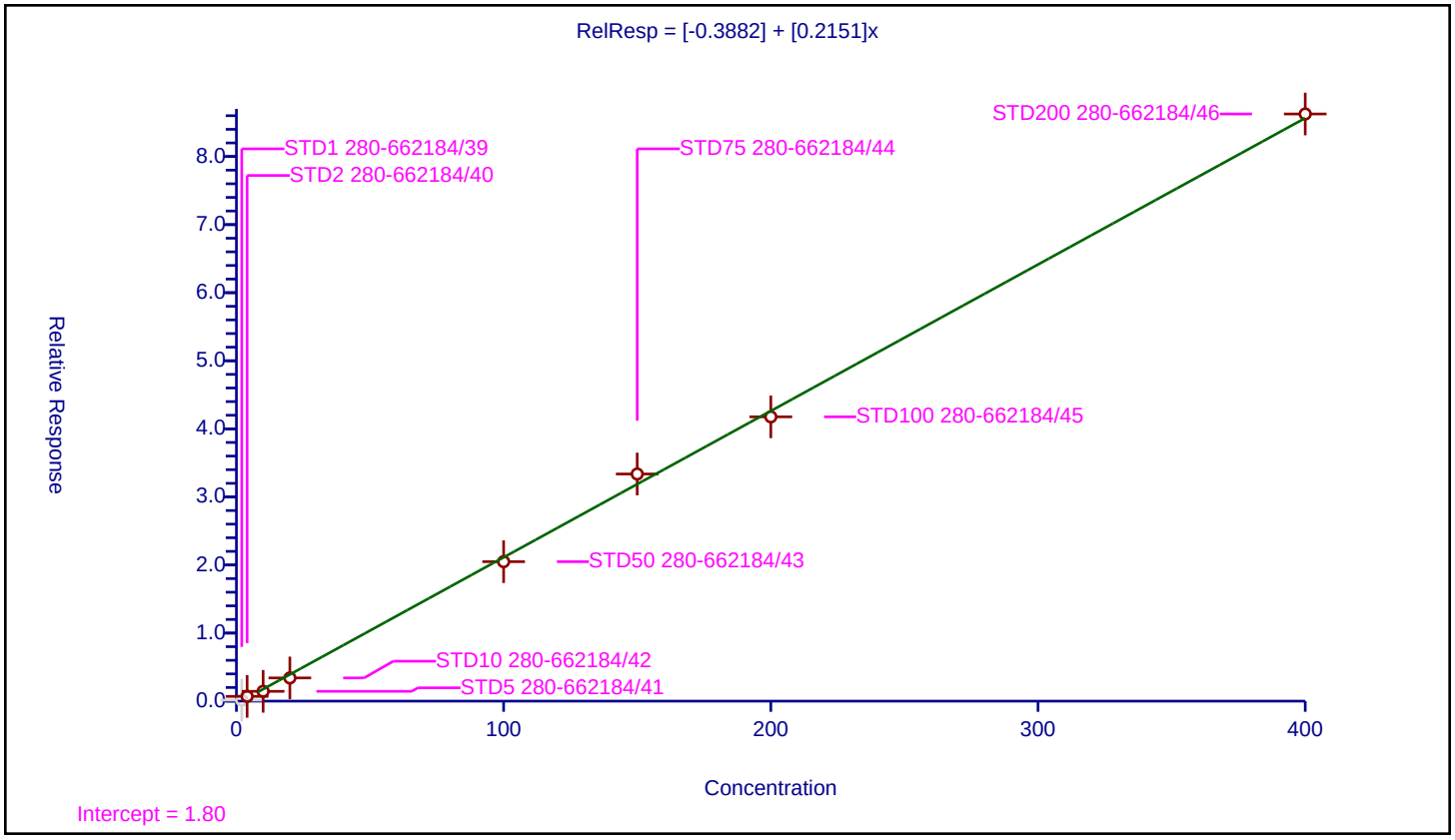
Curve Coefficients

Intercept:	-0.3882
Slope:	0.2151

Error Coefficients

Relative Standard Deviation:	14.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	2.0	0.145925	50.0	2086006.0	0.072962	N
2	STD2 280-662184/40	4.0	0.697582	50.0	2047573.0	0.174395	Y
3	STD5 280-662184/41	10.0	1.442858	50.0	2111192.0	0.144286	Y
4	STD10 280-662184/42	20.0	3.410346	50.0	2149430.0	0.170517	Y
5	STD50 280-662184/43	100.0	20.487307	50.0	2188250.0	0.204873	Y
6	STD75 280-662184/44	150.0	33.36836	50.0	2204524.0	0.222456	Y
7	STD100 280-662184/45	200.0	41.762959	50.0	2276054.0	0.208815	Y
8	STD200 280-662184/46	400.0	86.252216	50.0	2196794.0	0.215631	Y



Calibration / Propionitrile

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

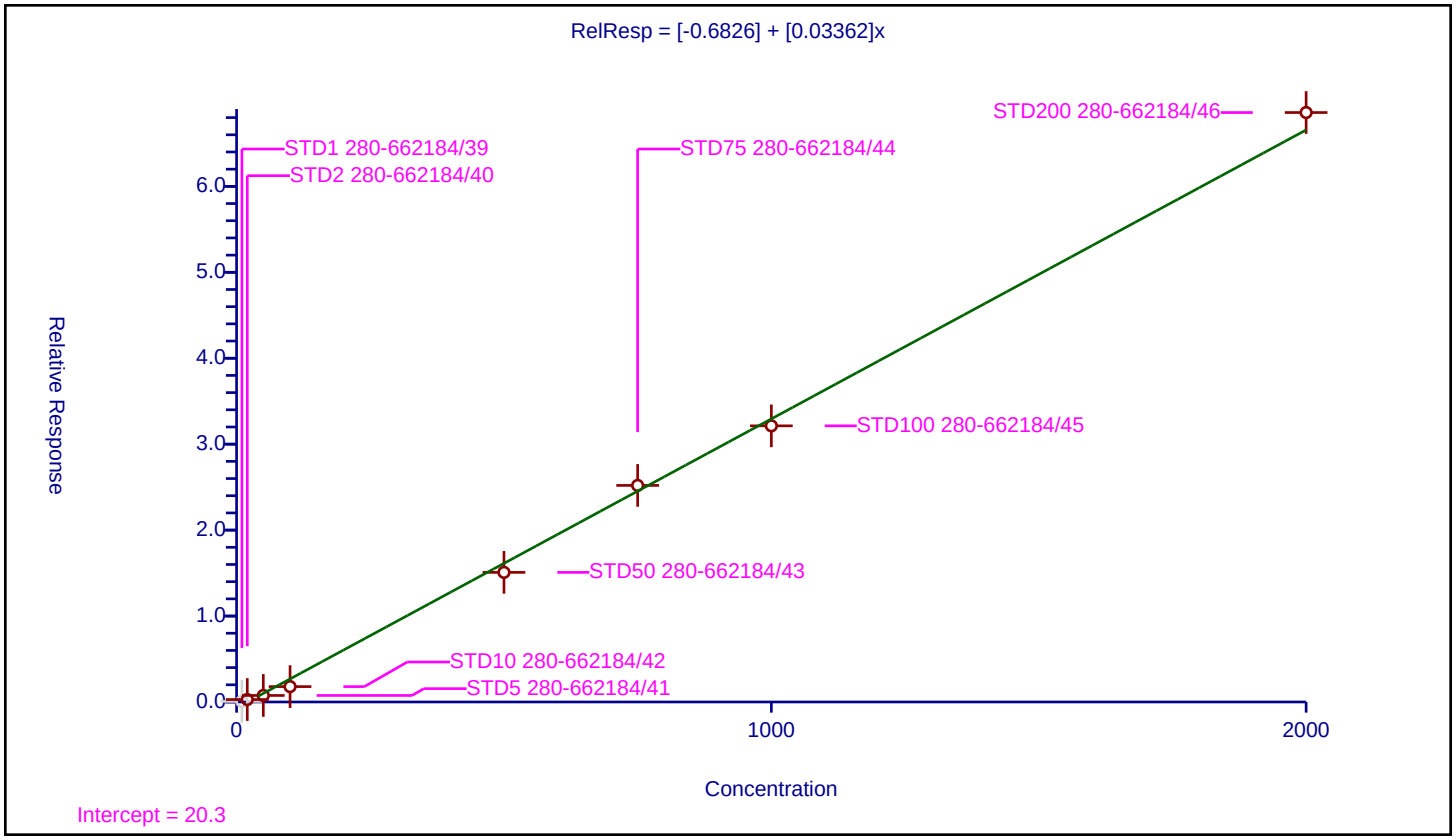
Curve Coefficients

Intercept:	-0.6826
Slope:	0.03362

Error Coefficients

Relative Standard Deviation:	23.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	10.0	0.067402	50.0	2086006.0	0.00674	N
2	STD2 280-662184/40	20.0	0.283409	50.0	2047573.0	0.01417	Y
3	STD5 280-662184/41	50.0	0.759855	50.0	2111192.0	0.015197	Y
4	STD10 280-662184/42	100.0	1.789986	50.0	2149430.0	0.0179	Y
5	STD50 280-662184/43	500.0	15.081092	50.0	2188250.0	0.030162	Y
6	STD75 280-662184/44	750.0	25.199907	50.0	2204524.0	0.0336	Y
7	STD100 280-662184/45	1000.0	32.13342	50.0	2276054.0	0.032133	Y
8	STD200 280-662184/46	2000.0	68.589249	50.0	2196794.0	0.034295	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

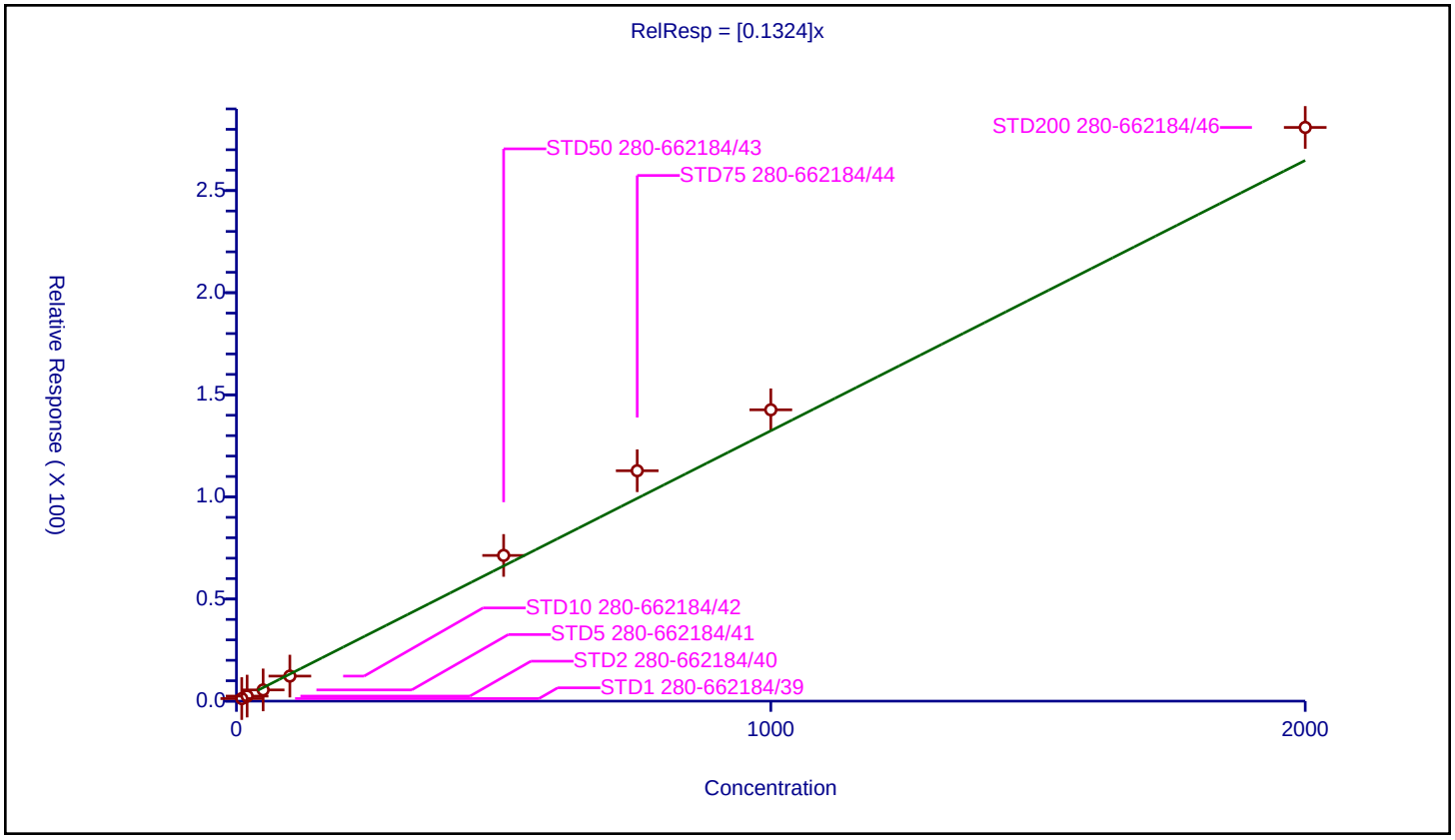
Curve Coefficients

Intercept:	0
Slope:	0.1324

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	10.0	1.263707	50.0	2086006.0	0.126371	Y
2	STD2 280-662184/40	20.0	2.477567	50.0	2047573.0	0.123878	Y
3	STD5 280-662184/41	50.0	5.501205	50.0	2111192.0	0.110024	Y
4	STD10 280-662184/42	100.0	12.261437	50.0	2149430.0	0.122614	Y
5	STD50 280-662184/43	500.0	71.346007	50.0	2188250.0	0.142692	Y
6	STD75 280-662184/44	750.0	112.820976	50.0	2204524.0	0.150428	Y
7	STD100 280-662184/45	1000.0	142.659137	50.0	2276054.0	0.142659	Y
8	STD200 280-662184/46	2000.0	280.918397	50.0	2196794.0	0.140459	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

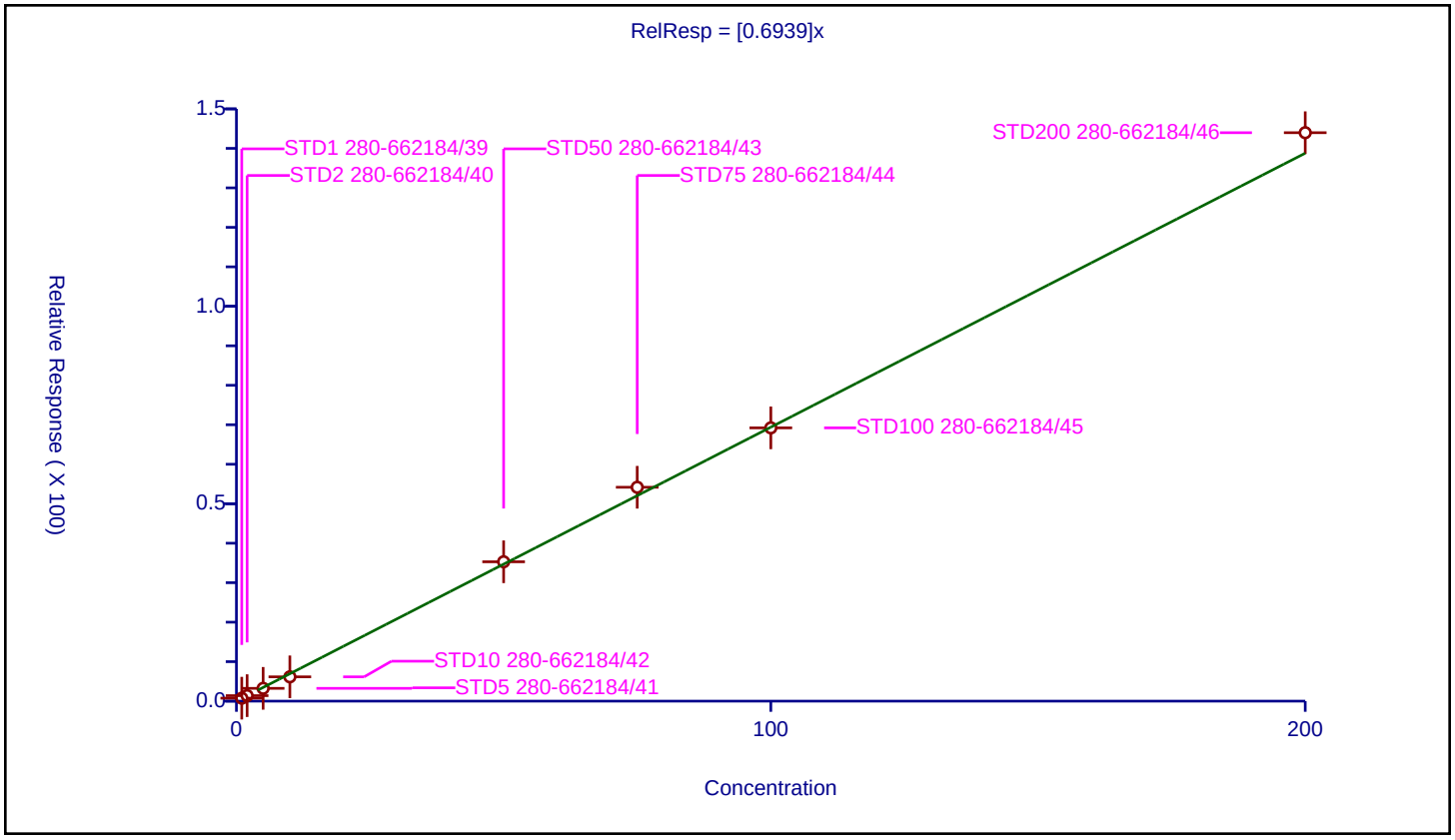
Curve Coefficients

Intercept:	0
Slope:	0.6939

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	0.749087	50.0	2086006.0	0.749087	Y
2	STD2 280-662184/40	2.0	1.396141	50.0	2047573.0	0.69807	Y
3	STD5 280-662184/41	5.0	3.240563	50.0	2111192.0	0.648113	Y
4	STD10 280-662184/42	10.0	6.155702	50.0	2149430.0	0.61557	Y
5	STD50 280-662184/43	50.0	35.294619	50.0	2188250.0	0.705892	Y
6	STD75 280-662184/44	75.0	54.170243	50.0	2204524.0	0.72227	Y
7	STD100 280-662184/45	100.0	69.213099	50.0	2276054.0	0.692131	Y
8	STD200 280-662184/46	200.0	143.97217	50.0	2196794.0	0.719861	Y



Calibration / Methyl methacrylate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

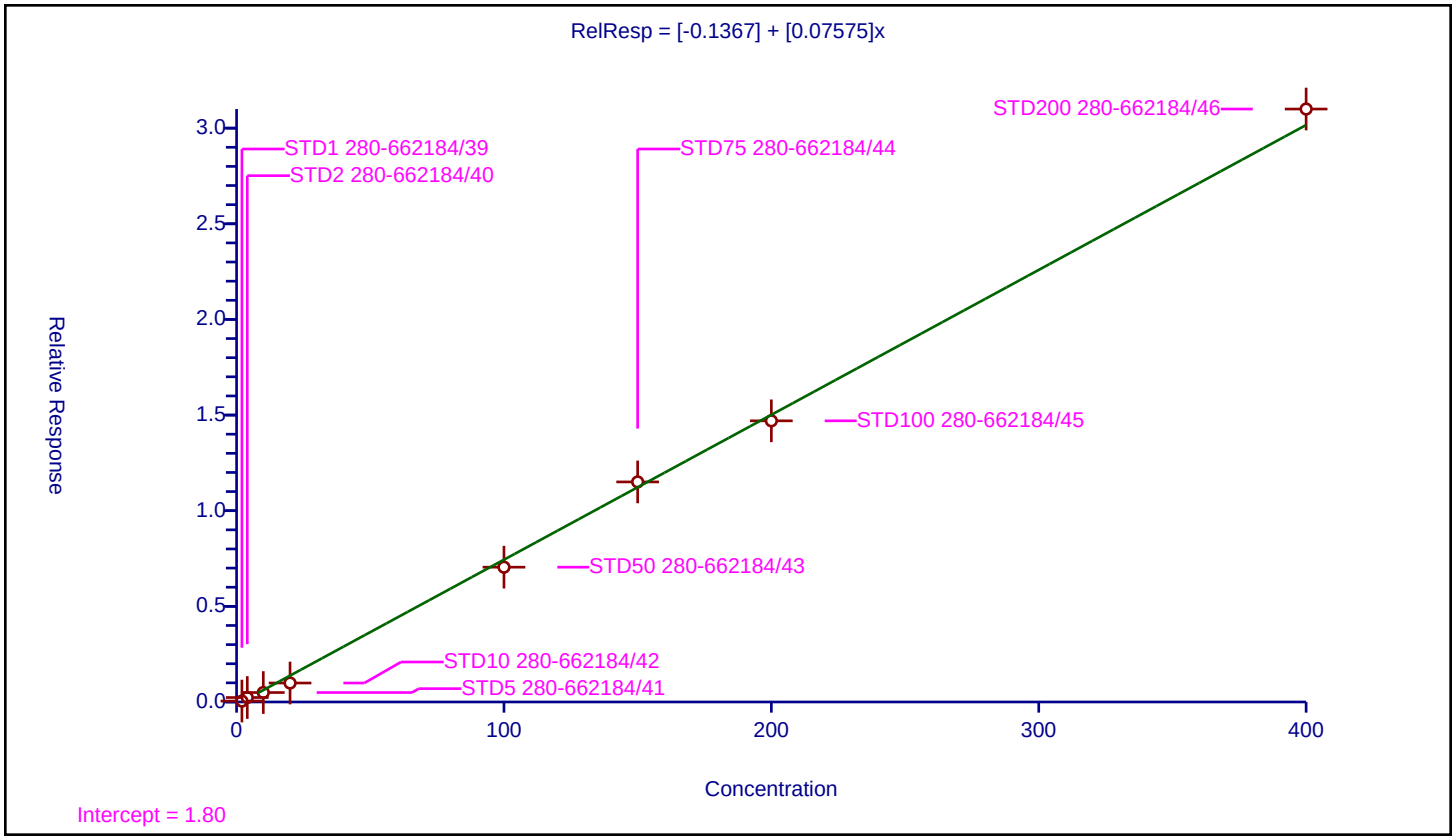
Curve Coefficients

Intercept:	-0.1367
Slope:	0.07575

Error Coefficients

Relative Standard Deviation:	18.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	2.0	0.047747	50.0	2086006.0	0.023873	Y
2	STD2 280-662184/40	4.0	0.234106	50.0	2047573.0	0.058527	Y
3	STD5 280-662184/41	10.0	0.494768	50.0	2111192.0	0.049477	Y
4	STD10 280-662184/42	20.0	0.992333	50.0	2149430.0	0.049617	Y
5	STD50 280-662184/43	100.0	7.048349	50.0	2188250.0	0.070483	Y
6	STD75 280-662184/44	150.0	11.505409	50.0	2204524.0	0.076703	Y
7	STD100 280-662184/45	200.0	14.699388	50.0	2276054.0	0.073497	Y
8	STD200 280-662184/46	400.0	30.998674	50.0	2196794.0	0.077497	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

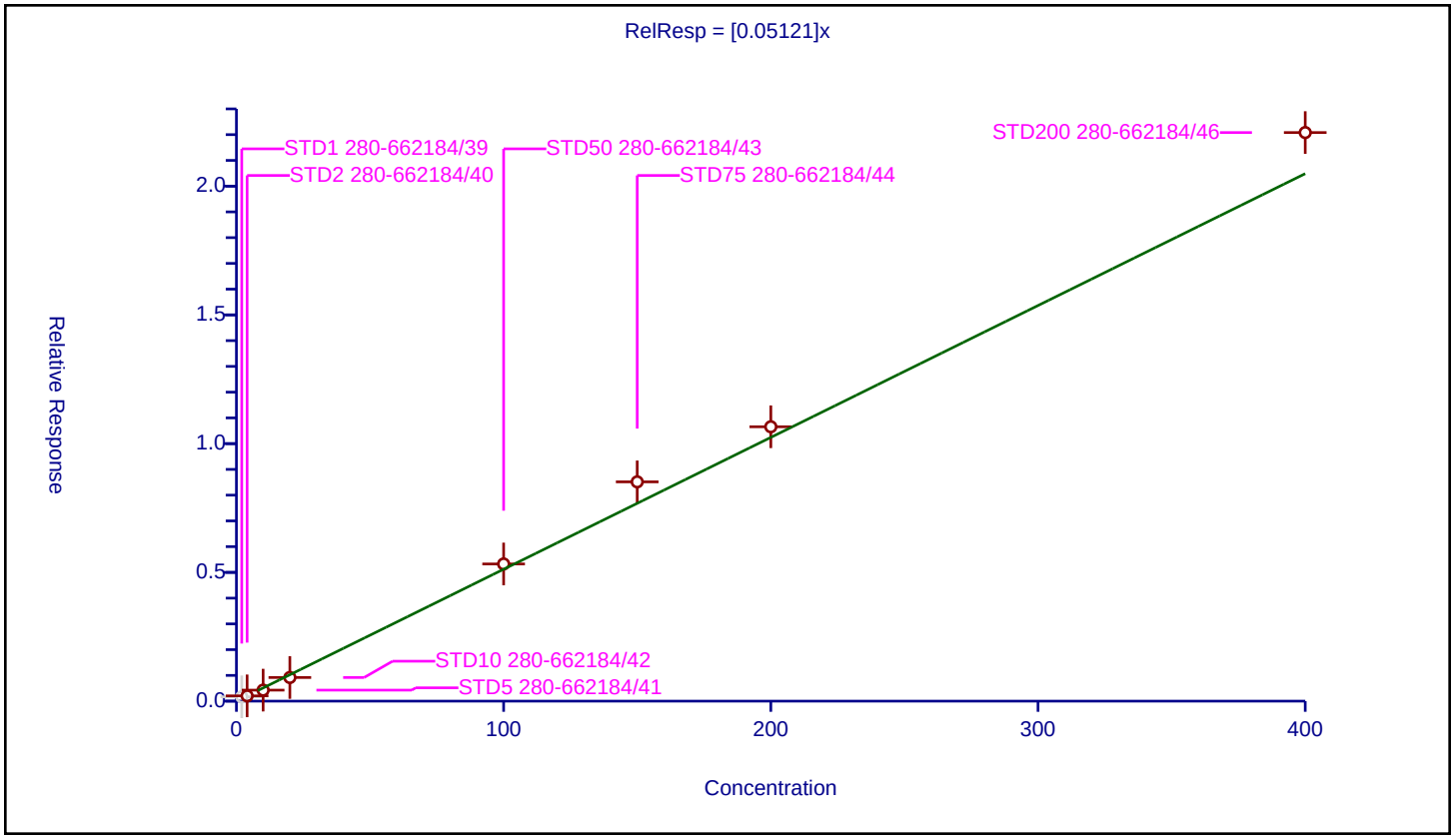
Curve Coefficients

Intercept:	0
Slope:	0.05121

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	2.0	0.167761	50.0	2086006.0	0.08388	N
2	STD2 280-662184/40	4.0	0.204999	50.0	2047573.0	0.05125	Y
3	STD5 280-662184/41	10.0	0.427957	50.0	2111192.0	0.042796	Y
4	STD10 280-662184/42	20.0	0.918197	50.0	2149430.0	0.04591	Y
5	STD50 280-662184/43	100.0	5.327796	50.0	2188250.0	0.053278	Y
6	STD75 280-662184/44	150.0	8.516147	50.0	2204524.0	0.056774	Y
7	STD100 280-662184/45	200.0	10.655437	50.0	2276054.0	0.053277	Y
8	STD200 280-662184/46	400.0	22.080814	50.0	2196794.0	0.055202	Y



Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

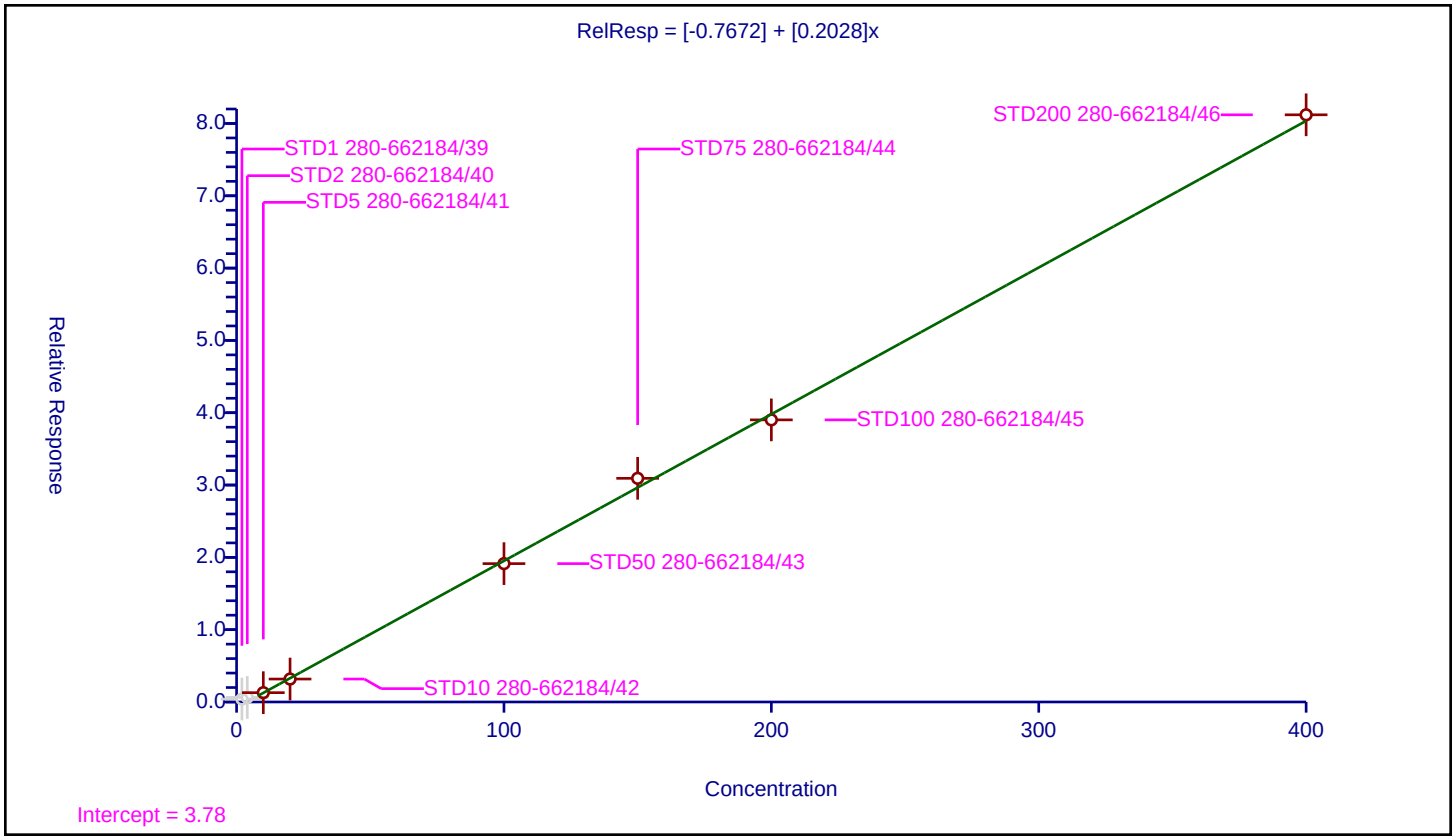
Curve Coefficients

Intercept:	-0.7672
Slope:	0.2028

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	2.0	0.404173	50.0	775782.0	0.202086	N
2	STD2 280-662184/40	4.0	0.636228	50.0	788318.0	0.159057	N
3	STD5 280-662184/41	10.0	1.28902	50.0	809297.0	0.128902	Y
4	STD10 280-662184/42	20.0	3.17484	50.0	808718.0	0.158742	Y
5	STD50 280-662184/43	100.0	19.134073	50.0	811108.0	0.191341	Y
6	STD75 280-662184/44	150.0	30.930906	50.0	827774.0	0.206206	Y
7	STD100 280-662184/45	200.0	39.013047	50.0	860598.0	0.195065	Y
8	STD200 280-662184/46	400.0	81.199569	50.0	849055.0	0.202999	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

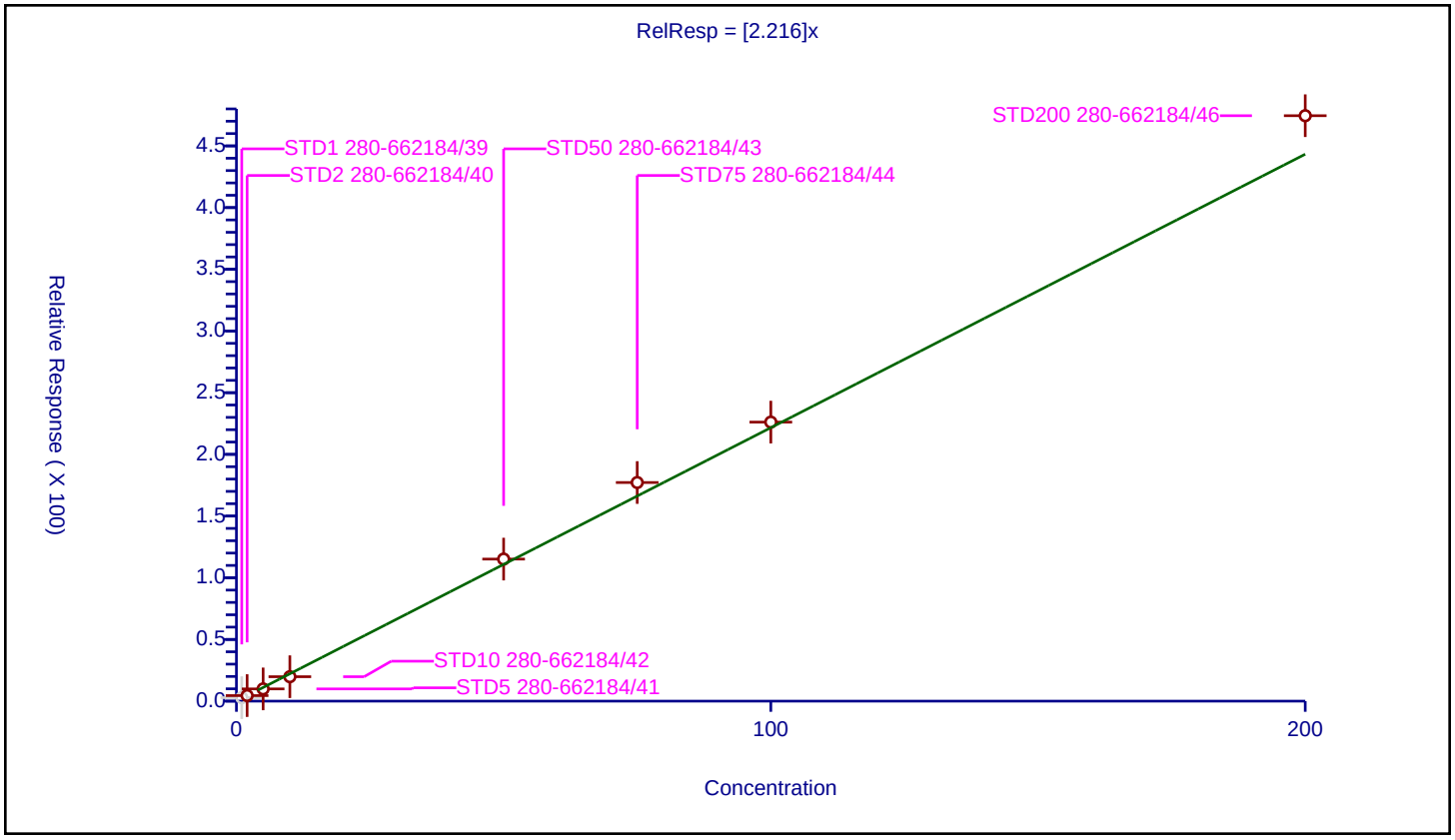
Curve Coefficients

Intercept:	0
Slope:	2.216

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	2.843453	50.0	775782.0	2.843453	N
2	STD2 280-662184/40	2.0	4.505479	50.0	788318.0	2.252739	Y
3	STD5 280-662184/41	5.0	9.913357	50.0	809297.0	1.982671	Y
4	STD10 280-662184/42	10.0	19.801711	50.0	808718.0	1.980171	Y
5	STD50 280-662184/43	50.0	115.137257	50.0	811108.0	2.302745	Y
6	STD75 280-662184/44	75.0	177.182963	50.0	827774.0	2.36244	Y
7	STD100 280-662184/45	100.0	226.147632	50.0	860598.0	2.261476	Y
8	STD200 280-662184/46	200.0	474.464728	50.0	849055.0	2.372324	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

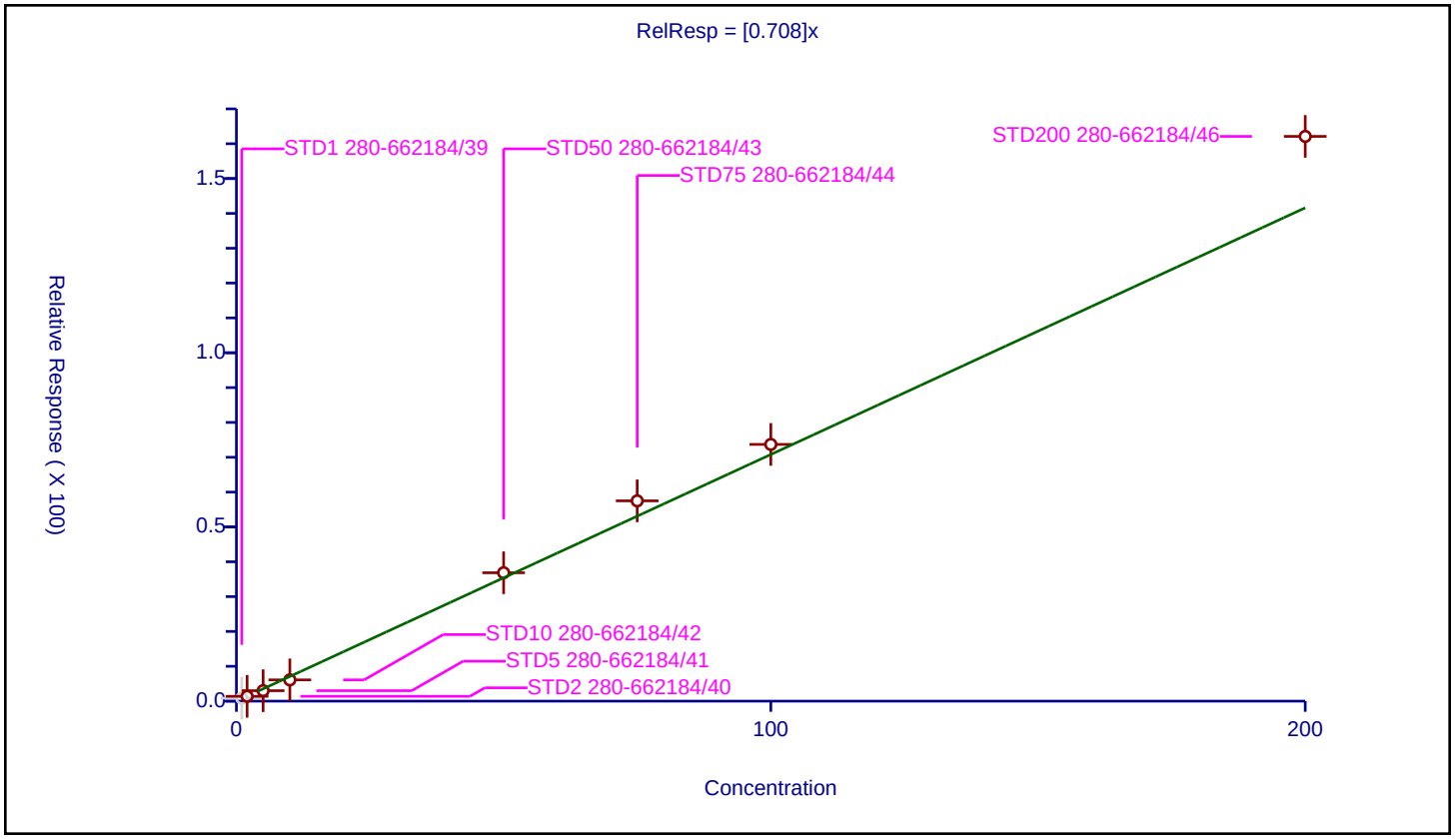
Curve Coefficients

Intercept:	0
Slope:	0.708

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-662184/39	1.0	0.864225	50.0	775782.0	0.864225	N
2	STD2 280-662184/40	2.0	1.387194	50.0	788318.0	0.693597	Y
3	STD5 280-662184/41	5.0	3.003965	50.0	809297.0	0.600793	Y
4	STD10 280-662184/42	10.0	6.104847	50.0	808718.0	0.610485	Y
5	STD50 280-662184/43	50.0	36.849902	50.0	811108.0	0.736998	Y
6	STD75 280-662184/44	75.0	57.493893	50.0	827774.0	0.766585	Y
7	STD100 280-662184/45	100.0	73.696604	50.0	860598.0	0.736966	Y
8	STD200 280-662184/46	200.0	162.105576	50.0	849055.0	0.810528	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab Sample ID: ICV 280-662184/37 Calibration Date: 07/30/2024 15:29

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14240.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		0.2356	0.1000	43.0	50.0	-13.9	30.0
Chloromethane	Ave	0.2606	0.2219	0.1000	42.6	50.0	-14.9	30.0
Vinyl chloride	Ave	0.2942	0.3016	0.0100	51.3	50.0	2.5	30.0
Bromomethane	Ave	0.1683	0.1435	0.0100	42.6	50.0	-14.8	30.0
Chloroethane	Ave	0.2058	0.1899	0.0100	46.1	50.0	-7.7	30.0
Dichlorofluoromethane	Ave	0.4268	0.4004	0.0100	46.9	50.0	-6.2	30.0
Trichlorofluoromethane	Ave	0.3210	0.3105	0.0100	48.4	50.0	-3.3	30.0
Ethyl ether	Ave	0.1649	0.1834	0.0100	55.6	50.0	11.2	30.0
Acrolein	Lin1		0.0257	0.0010	483	494	-2.2	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1542	0.1567	0.0500	50.8	50.0	1.6	30.0
1,1-Dichloroethene	Ave	0.1962	0.2038	0.0600	51.9	50.0	3.9	30.0
Acetone	Lin1		0.0605	0.0100	204	200	2.0	30.0
Iodomethane	Lin2		0.1763	0.0100	35.2	50.0	-29.5	30.0
Carbon disulfide	Ave	0.6008	0.6157	0.1000	51.2	50.0	2.5	30.0
Methyl acetate	Lin2		0.1486	0.0100	102	100	1.9	30.0
Allyl chloride	Ave	0.2785	0.2909	0.0100	52.2	50.0	4.5	30.0
Methylene Chloride	Ave	0.2305	0.2368	0.0100	51.4	50.0	2.7	30.0
2-Methyl-2-propanol	Lin2		0.0260	0.0010	508	500	1.5	30.0
Acrylonitrile	Lin1		0.0870	0.0100	483	500	-3.4	30.0
Methyl tert-butyl ether	Ave	0.6784	0.6960	0.1000	51.3	50.0	2.6	30.0
trans-1,2-Dichloroethene	Ave	0.2173	0.2257	0.1000	51.9	50.0	3.9	30.0
Hexane	Ave	1.111	1.177	0.0100	53.0	50.0	6.0	30.0
Vinyl acetate	Lin2		0.2661	0.0100	81.1	100	-18.9	30.0
1,1-Dichloroethane	Ave	0.3862	0.3951	0.1000	51.1	50.0	2.3	30.0
2-Butanone (MEK)	Lin1		0.0972	0.0100	194	200	-3.0	30.0
cis-1,2-Dichloroethene	Lin1		0.2479	0.1000	46.8	50.0	-6.5	30.0
2,2-Dichloropropane	Ave	0.3092	0.3036	0.0100	49.1	50.0	-1.8	30.0
sec-Butyl Alcohol	Lin1		0.0192	0.0100	1150	1200	-4.1	30.0
Chlorobromomethane	Ave	0.1046	0.1126	0.0500	53.8	50.0	7.6	30.0
Tetrahydrofuran	Lin1		0.0664	0.0010	99.8	100	-0.2	30.0
Chloroform	Ave	0.3795	0.3862	0.2000	50.9	50.0	1.8	30.0
1,1,1-Trichloroethane	Ave	0.3314	0.3276	0.0500	49.4	50.0	-1.2	30.0
Cyclohexane	Ave	0.3748	0.3801	0.0100	50.7	50.0	1.4	30.0
Carbon tetrachloride	Ave	0.2828	0.2900	0.1000	51.3	50.0	2.5	30.0
1,1-Dichloropropene	Ave	0.2937	0.3121	0.0100	53.1	50.0	6.3	30.0
Isobutyl alcohol	Lin1		0.0073	0.0010	1220	1250	-2.1	30.0
Benzene	Ave	0.9136	0.9356	0.2000	51.2	50.0	2.4	30.0
1,2-Dichloroethane	Ave	0.2633	0.2792	0.0700	53.0	50.0	6.0	30.0
n-Heptane	Ave	0.2318	0.2408		52.0	50.0	3.9	20.0
Trichloroethene	Ave	0.9056	0.9610	0.2000	53.1	50.0	6.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab Sample ID: ICV 280-662184/37 Calibration Date: 07/30/2024 15:29

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14240.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		0.1689	0.0010	174	160	8.7	30.0
Methylcyclohexane	Ave	0.2661	0.2724	0.0500	51.2	50.0	2.3	30.0
1,2-Dichloropropane	Ave	0.2329	0.2396	0.1000	51.4	50.0	2.9	30.0
1,4-Dioxane	Lin2		0.0032	0.0010	966	1000	-3.4	30.0
Dibromomethane	Ave	0.1396	0.1423	0.0100	51.0	50.0	1.9	30.0
Dichlorobromomethane	Ave	0.2944	0.2936	0.2000	49.9	50.0	-0.3	30.0
2-Chloroethyl vinyl ether	Lin1		0.1276	0.0100	43.0	50.0	-14.1	30.0
cis-1,3-Dichloropropene	Ave	1.380	1.554	0.2000	56.3	50.0	12.6	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.2304	0.0300	208	200	4.0	30.0
Toluene	Ave	0.9904	1.011	0.3000	51.1	50.0	2.1	30.0
trans-1,3-Dichloropropene	Lin1		0.3287	0.2000	45.5	50.0	-9.0	30.0
Ethyl methacrylate	Lin2		1.373	0.0100	52.0	50.0	4.0	30.0
1,1,2-Trichloroethane	Ave	0.2130	0.2151	0.1000	50.5	50.0	1.0	30.0
Tetrachloroethene	Ave	0.7430	0.7424	0.1000	50.0	50.0	-0.0	30.0
1,3-Dichloropropane	Ave	1.453	1.515	0.0100	52.1	50.0	4.2	30.0
2-Hexanone	Lin2		0.6405	0.0100	207	200	3.7	30.0
Chlorodibromomethane	Ave	0.9771	0.9940	0.1000	50.9	50.0	1.7	30.0
1,2-Dibromoethane	Ave	0.8436	0.8956	0.1000	53.1	50.0	6.2	30.0
1-Chlorohexane	Ave	1.388	1.328	0.0100	38.3	40.0	-4.3	30.0
Chlorobenzene	Ave	2.623	2.675	0.3000	51.0	50.0	2.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.9444	0.9561	0.0100	50.6	50.0	1.2	30.0
Ethylbenzene	Ave	1.402	1.440	0.3000	51.3	50.0	2.7	30.0
m-Xylene & p-Xylene	Ave	1.636	1.670	0.1000	51.0	50.0	2.1	30.0
o-Xylene	Ave	1.683	1.713	0.2000	50.9	50.0	1.8	30.0
Styrene	Lin1		2.897	0.2000	47.6	50.0	-4.7	30.0
Bromoform	Ave	0.6856	0.6967	0.1000	50.8	50.0	1.6	30.0
Isopropylbenzene	Ave	2.608	2.448	0.3000	46.9	50.0	-6.1	30.0
Cyclohexanone	Ave	0.0561	0.0573	0.0010	1530	1500	2.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7603	0.7230	0.3000	47.5	50.0	-4.9	30.0
Bromobenzene	Ave	0.6521	0.6868	0.0100	52.7	50.0	5.3	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.1808	0.0100	49.9	50.0	-0.1	30.0
1,2,3-Trichloropropane	Ave	0.2245	0.2396	0.0100	53.4	50.0	6.7	30.0
N-Propylbenzene	Ave	0.7008	0.7108	0.0100	50.7	50.0	1.4	30.0
2-Chlorotoluene	Ave	0.6272	0.6357	0.0100	50.7	50.0	1.3	30.0
1,3,5-Trimethylbenzene	Ave	2.040	2.047	0.0100	50.2	50.0	0.4	30.0
4-Chlorotoluene	Ave	0.6374	0.6395	0.0100	50.2	50.0	0.3	30.0
tert-Butylbenzene	Ave	1.795	1.816	0.0100	50.6	50.0	1.2	30.0
1,2,4-Trimethylbenzene	Ave	2.030	2.057	0.3000	50.7	50.0	1.4	30.0
sec-Butylbenzene	Ave	0.5408	0.5514	0.0100	51.0	50.0	2.0	30.0
1,3-Dichlorobenzene	Ave	1.177	1.238	0.5000	52.6	50.0	5.1	30.0
4-Isopropyltoluene	Ave	2.154	2.230	0.0100	51.8	50.0	3.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab Sample ID: ICV 280-662184/37 Calibration Date: 07/30/2024 15:29

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14240.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	1.271	1.259	0.5000	49.5	50.0	-0.9	30.0
n-Butylbenzene	Ave	1.811	1.924	0.0100	53.1	50.0	6.3	30.0
1,2-Dichlorobenzene	Ave	1.183	1.201	0.5000	50.8	50.0	1.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1551	0.1697	0.0100	54.7	50.0	9.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5810	0.6156	0.2000	53.0	50.0	6.0	30.0
Hexachlorobutadiene	Ave	0.2879	0.2910	0.0100	50.5	50.0	1.1	30.0
Naphthalene	Ave	1.493	1.636	0.0100	54.8	50.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.5358	0.5747	0.3000	53.6	50.0	7.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2491	0.2478	0.0100	49.7	50.0	-0.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2485	0.2457	0.0100	49.4	50.0	-1.1	30.0
Toluene-d8 (Surr)	Ave	4.141	4.127	0.0100	49.8	50.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8805	0.8667	0.0100	49.2	50.0	-1.6	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14240.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jul-2024 15:29:30 ALS Bottle#: 11 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: COULTER Instrument ID: VMS_G2
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 11:08:02 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: LP8K Date: 30-Jul-2024 17:40:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	2242650	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.861	-0.003	86	553013	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.054	0.001	93	893150	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	555801	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	551101	50.0	49.4	
$ 6 Toluene-d8 (Surr)	98	5.616	5.615	0.001	93	2282201	50.0	49.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.947	-0.004	90	774085	50.0	49.2	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	100	528360	50.0	43.0	
10 Chloromethane	50	1.551	1.551	0.000	98	497596	50.0	42.6	
11 Vinyl chloride	62	1.563	1.562	0.001	98	676368	50.0	51.3	
12 Bromomethane	94	1.780	1.783	-0.003	88	321787	50.0	42.6	
13 Chloroethane	64	1.858	1.869	-0.011	99	425849	50.0	46.1	
14 Dichlorofluoromethane	67	2.019	2.023	-0.004	97	897973	50.0	46.9	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	696264	50.0	48.4	
18 Ethyl ether	59	2.236	2.236	0.000	89	411243	50.0	55.6	
19 Acrolein	56	2.334	2.333	0.001	99	569477	493.8	482.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.397	2.401	-0.004	95	351396	50.0	50.8	
21 1,1-Dichloroethene	96	2.397	2.401	-0.004	98	457127	50.0	51.9	
22 Acetone	43	2.427	2.427	0.000	99	542551	200.0	203.9	
23 Iodomethane	142	2.506	2.509	-0.003	98	395307	50.0	35.2	
25 Carbon disulfide	76	2.558	2.562	-0.004	99	1380704	50.0	51.2	
26 Methyl acetate	43	2.633	2.633	0.000	97	666671	100.0	101.9	
16 3-Chloro-1-propene	41	2.640	2.644	-0.004	93	652464	50.0	52.2	
28 Methylene Chloride	84	2.730	2.734	-0.004	89	530974	50.0	51.4	
29 2-Methyl-2-propanol	59	2.783	2.782	0.001	100	584205	500.0	507.6	
30 Acrylonitrile	53	2.884	2.883	0.001	99	1950954	500.0	483.2	
31 Methyl tert-butyl ether	73	2.899	2.898	0.001	94	1560947	50.0	51.3	
32 trans-1,2-Dichloroethene	96	2.910	2.910	0.000	98	506165	50.0	51.9	
33 Hexane	57	3.090	3.089	0.001	89	651130	50.0	53.0	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1193665	100.0	81.1	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	886011	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
39 2-Butanone (MEK)	43	3.572	3.572	0.000	99	871802	200.0	193.9	
40 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	81	555911	50.0	46.8	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	85	680895	50.0	49.1	
44 sec-Butyl Alcohol	45	3.692	3.688	0.004	99	1035493	1200.0	1150.3	
46 Chlorobromomethane	128	3.756	3.755	0.001	94	252413	50.0	53.8	
47 Tetrahydrofuran	42	3.763	3.763	0.000	86	297626	100.0	99.8	
48 Chloroform	83	3.815	3.815	0.000	93	866097	50.0	50.9	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	734700	50.0	49.4	
50 Cyclohexane	56	3.991	3.991	0.000	87	852367	50.0	50.7	
51 Carbon tetrachloride	117	4.048	4.047	0.001	97	650346	50.0	51.3	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	99	699999	50.0	53.1	
53 Isobutyl alcohol	41	4.092	4.092	0.000	94	410136	1250.0	1223.9	
54 Benzene	78	4.193	4.193	0.000	96	2098150	50.0	51.2	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	626113	50.0	53.0	
57 n-Heptane	43	4.384	4.384	0.000	89	540048	50.0	52.0	
59 Trichloroethene	95	4.669	4.669	0.001	99	531435	50.0	53.1	
60 2-Pentanone	43	4.781	4.781	0.000	98	1212355	160.0	173.8	
61 Methylcyclohexane	55	4.845	4.844	0.001	90	610788	50.0	51.2	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	537369	50.0	51.4	
64 1,4-Dioxane	88	4.916	4.915	0.001	91	145466	1000.0	966.2	
65 Dibromomethane	93	4.934	4.934	0.000	97	319133	50.0	51.0	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	658455	50.0	49.9	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	91	286174	50.0	43.0	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	859443	50.0	56.3	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.507	0.000	94	2067059	200.0	208.1	
71 Toluene	91	5.675	5.675	0.000	98	2268355	50.0	51.1	
72 trans-1,3-Dichloropropene	75	5.863	5.862	0.000	91	737147	50.0	45.5	
73 Ethyl methacrylate	69	5.892	5.896	-0.004	86	759238	50.0	52.0	
74 1,1,2-Trichloroethane	97	6.027	6.023	0.004	90	482331	50.0	50.5	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	410543	50.0	50.0	
76 1,3-Dichloropropane	76	6.166	6.165	0.001	88	837596	50.0	52.1	
77 2-Hexanone	43	6.199	6.199	0.000	94	1416880	200.0	207.3	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	549705	50.0	50.9	
79 Ethylene Dibromide	107	6.458	6.457	0.001	98	495276	50.0	53.1	
80 1-Chlorohexane	91	6.862	6.861	0.001	90	587602	40.0	38.3	
81 Chlorobenzene	112	6.884	6.888	-0.004	96	1479420	50.0	51.0	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	96	528718	50.0	50.6	
83 Ethylbenzene	106	6.970	6.970	0.000	98	796111	50.0	51.3	
84 m-Xylene & p-Xylene	106	7.086	7.090	-0.004	100	923766	50.0	51.0	
85 o-Xylene	106	7.438	7.438	0.000	95	947164	50.0	50.9	
86 Styrene	104	7.457	7.456	0.001	95	1601825	50.0	47.6	
87 Bromoform	173	7.625	7.625	0.000	96	385294	50.0	50.8	
88 Isopropylbenzene	105	7.779	7.778	0.001	95	2186467	50.0	46.9	
89 Cyclohexanone	55	7.861	7.861	0.000	89	951076	1500.0	1532.7	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	645743	50.0	47.5	
92 Bromobenzene	156	8.078	8.078	0.000	92	613451	50.0	52.7	
93 trans-1,4-Dichloro-2-butene	53	8.112	8.111	0.001	86	161516	50.0	49.9	
94 1,2,3-Trichloropropane	110	8.127	8.126	0.001	83	214003	50.0	53.4	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	634878	50.0	50.7	
96 2-Chlorotoluene	126	8.258	8.257	0.001	97	567749	50.0	50.7	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1828610	50.0	50.2	
98 4-Chlorotoluene	126	8.374	8.373	0.001	96	571166	50.0	50.2	

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	8.643	8.647	-0.003	92	1621740	50.0	50.6	
100 1,2,4-Trimethylbenzene	105	8.707	8.706	0.001	97	1837586	50.0	50.7	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	492454	50.0	51.0	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	1105613	50.0	52.6	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	1991947	50.0	51.8	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	1124589	50.0	49.5	
106 n-Butylbenzene	91	9.414	9.410	0.004	98	1718464	50.0	53.1	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	1072463	50.0	50.8	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	89	151591	50.0	54.7	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	549835	50.0	53.0	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	259868	50.0	50.5	
112 Naphthalene	128	11.270	11.270	0.000	97	1461070	50.0	54.8	
113 1,2,3-Trichlorobenzene	180	11.491	11.494	-0.003	95	513321	50.0	53.6	
S 115 1,2-Dichloroethene, Total	1				0		100.0	98.7	
S 116 1,3-Dichloropropene, Total	1				0		100.0	101.8	
S 117 Xylenes, Total	106				0		100.0	101.9	
S 119 Trihalomethanes, Total	1				0		200.0	202.4	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00112	Amount Added: 25.00	Units: uL	
MV-Gas A_00193	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

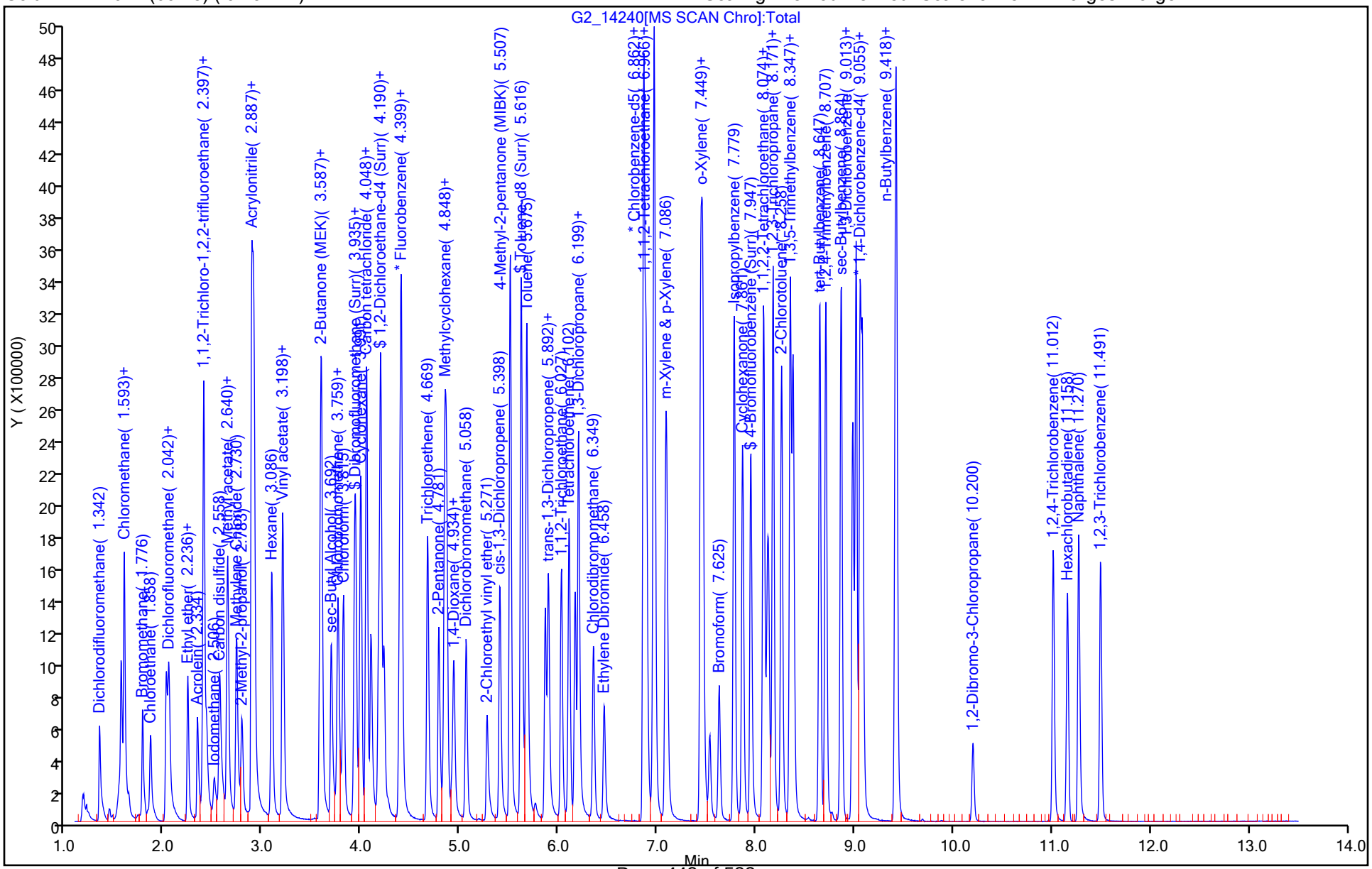
Report Date: 31-Jul-2024 11:11:28 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14240.D

Injection Date:	30-Jul-2024 15:29:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	ICV			Worklist Smp#:	37
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: ICV 280-662184/47 Calibration Date: 07/30/2024 19:41

Instrument ID: VMS_G2 Calib Start Date: 06/18/2024 20:45

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/18/2024 23:02

Lab File ID: G2_14252.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
n-Butanol	Lin1		0.0058*	0.0100		1250	-100.0*	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14252.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jul-2024 19:41:30 ALS Bottle#: 23 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: COULTER Instrument ID: VMS_G2
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:54:59 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 31-Jul-2024 09:05:26

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.403	4.403	0.000	99	2164418	50.0	50.0	
*	2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	522531	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	819967	50.0	50.0	
	17 Ethanol	45	2.176	2.173	0.003	100	346897	3000.0	2780.7	
	24 Isopropyl alcohol	45	2.517	2.517	0.000	98	314752	500.0	491.0	
	27 Acetonitrile	41	2.618	2.618	0.000	99	559075	500.0	482.0	
	36 Isopropyl ether	87	3.213	3.209	0.004	94	448314	50.0	52.5	
	37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	89	683473	50.0	47.9	
	38 Tert-butyl ethyl ether	59	3.453	3.452	0.000	97	1499980	50.0	50.4	
	42 Ethyl acetate	43	3.595	3.595	0.000	99	882128	100.0	96.5	
	43 Propionitrile	54	3.621	3.621	0.000	99	663562	500.0	476.2	
	45 Methacrylonitrile	41	3.722	3.722	0.000	89	3018780	500.0	526.7	
	56 Tert-amyl methyl ether	73	4.268	4.268	0.000	99	1524981	50.0	50.8	
	58 n-Butanol	56		4.575				1250.0	ND	7
	63 Methyl methacrylate	100	4.886	4.889	-0.003	88	301415	100.0	93.7	
	67 2-Nitropropane	41	5.226	5.222	0.004	96	224646	100.0	101.3	
	90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	86	284656	100.0	89.4	
	105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	1846525	50.0	50.8	
	109 1,3,5-Trichlorobenzene	180	10.383	10.387	-0.004	97	595189	50.0	51.3	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp A_00094 Amount Added: 50.00 Units: uL

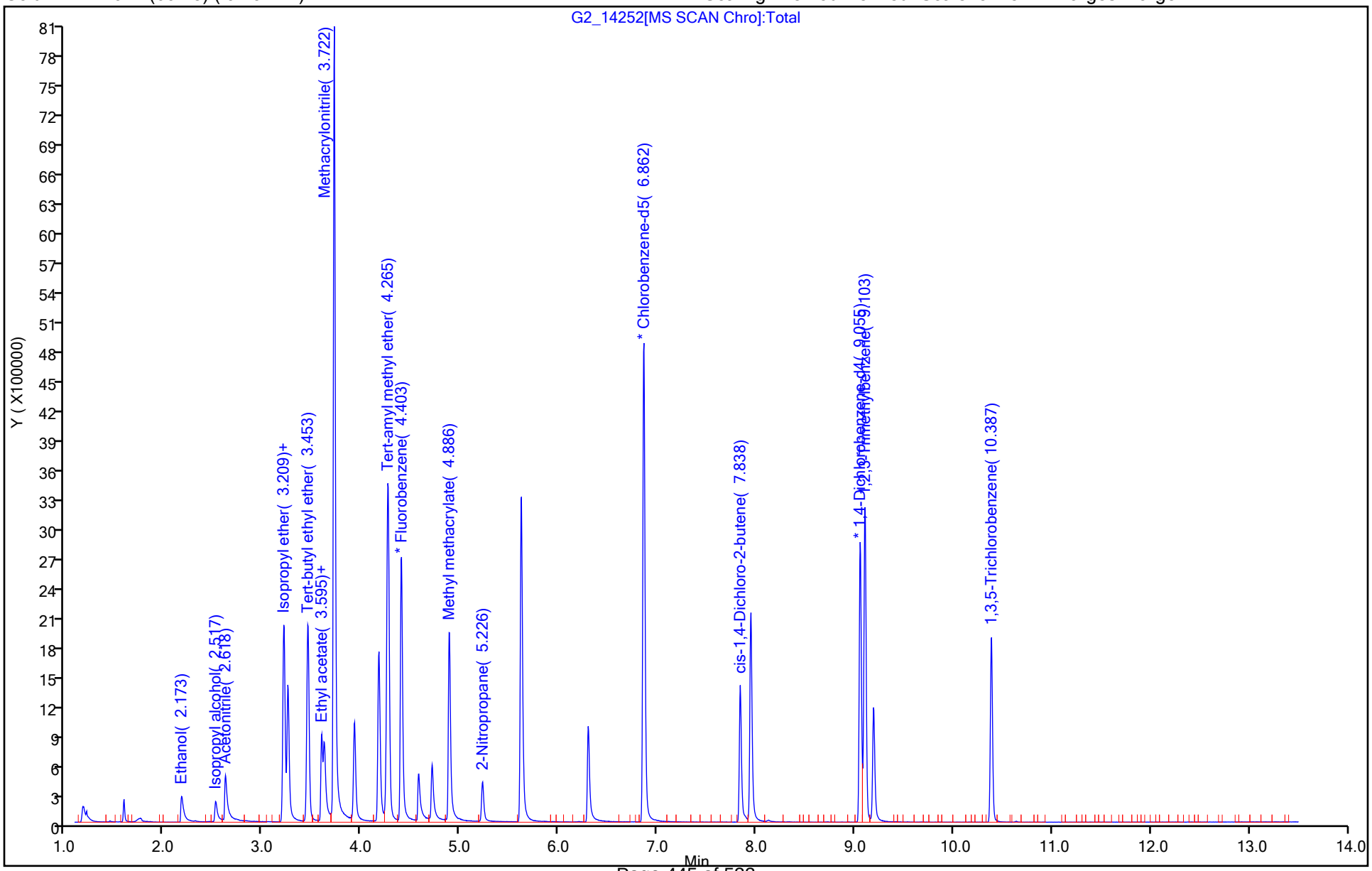
Report Date: 31-Jul-2024 09:55:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14252.D

Injection Date:	30-Jul-2024 19:41:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	ICV			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: ICV 280-662184/47 Calibration Date: 07/30/2024 19:41

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 16:31

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 18:59

Lab File ID: G2_14252.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	Lin1		0.0027*	0.0100	2780	3000	-7.3	30.0
Isopropyl alcohol	Lin1		0.0145	0.0100	491	500	-1.8	30.0
Acetonitrile	Lin1		0.0258	0.0100	482	500	-3.6	30.0
Isopropyl ether	Ave	0.1972	0.2071	0.0100	52.5	50.0	5.0	30.0
Chloroprene	Lin1		0.3158	0.0100	47.9	50.0	-4.1	30.0
Tert-butyl ethyl ether	Ave	0.6882	0.6930	0.0100	50.4	50.0	0.7	30.0
Ethyl acetate	Lin1		0.2038	0.0100	96.5	100	-3.5	30.0
Propionitrile	Lin1		0.0307	0.0100	476	500	-4.8	30.0
Methacrylonitrile	Ave	0.1324	0.1395	0.0100	527	500	5.3	30.0
Tert-amyl methyl ether	Ave	0.6939	0.7046	0.0100	50.8	50.0	1.5	30.0
Methyl methacrylate	Lin1		0.0696	0.0100	93.7	100	-6.3	30.0
2-Nitropropane	Ave	0.0512	0.0519	0.0100	101	100	1.3	30.0
cis-1,4-Dichloro-2-butene	Lin2		0.1736	0.0100	89.4	100	-10.6	30.0
1,2,3-Trimethylbenzene	Ave	2.216	2.252	0.0100	50.8	50.0	1.6	30.0
1,3,5-Trichlorobenzene	Ave	0.7080	0.7259	0.0100	51.3	50.0	2.5	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14252.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Jul-2024 19:41:30 ALS Bottle#: 23 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: COULTER Instrument ID: VMS_G2
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 09:54:59 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 31-Jul-2024 09:05:26

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.403	4.403	0.000	99	2164418	50.0	50.0	
*	2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	522531	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	819967	50.0	50.0	
	17 Ethanol	45	2.176	2.173	0.003	100	346897	3000.0	2780.7	
	24 Isopropyl alcohol	45	2.517	2.517	0.000	98	314752	500.0	491.0	
	27 Acetonitrile	41	2.618	2.618	0.000	99	559075	500.0	482.0	
	36 Isopropyl ether	87	3.213	3.209	0.004	94	448314	50.0	52.5	
	37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	89	683473	50.0	47.9	
	38 Tert-butyl ethyl ether	59	3.453	3.452	0.000	97	1499980	50.0	50.4	
	42 Ethyl acetate	43	3.595	3.595	0.000	99	882128	100.0	96.5	
	43 Propionitrile	54	3.621	3.621	0.000	99	663562	500.0	476.2	
	45 Methacrylonitrile	41	3.722	3.722	0.000	89	3018780	500.0	526.7	
	56 Tert-amyl methyl ether	73	4.268	4.268	0.000	99	1524981	50.0	50.8	
	58 n-Butanol	56		4.575				1250.0	ND	7
	63 Methyl methacrylate	100	4.886	4.889	-0.003	88	301415	100.0	93.7	
	67 2-Nitropropane	41	5.226	5.222	0.004	96	224646	100.0	101.3	
	90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	86	284656	100.0	89.4	
	105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	1846525	50.0	50.8	
	109 1,3,5-Trichlorobenzene	180	10.383	10.387	-0.004	97	595189	50.0	51.3	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

mv-Cent IS_00008 Amount Added: 5.00 Units: uL
MV-Supp A_00094 Amount Added: 50.00 Units: uL

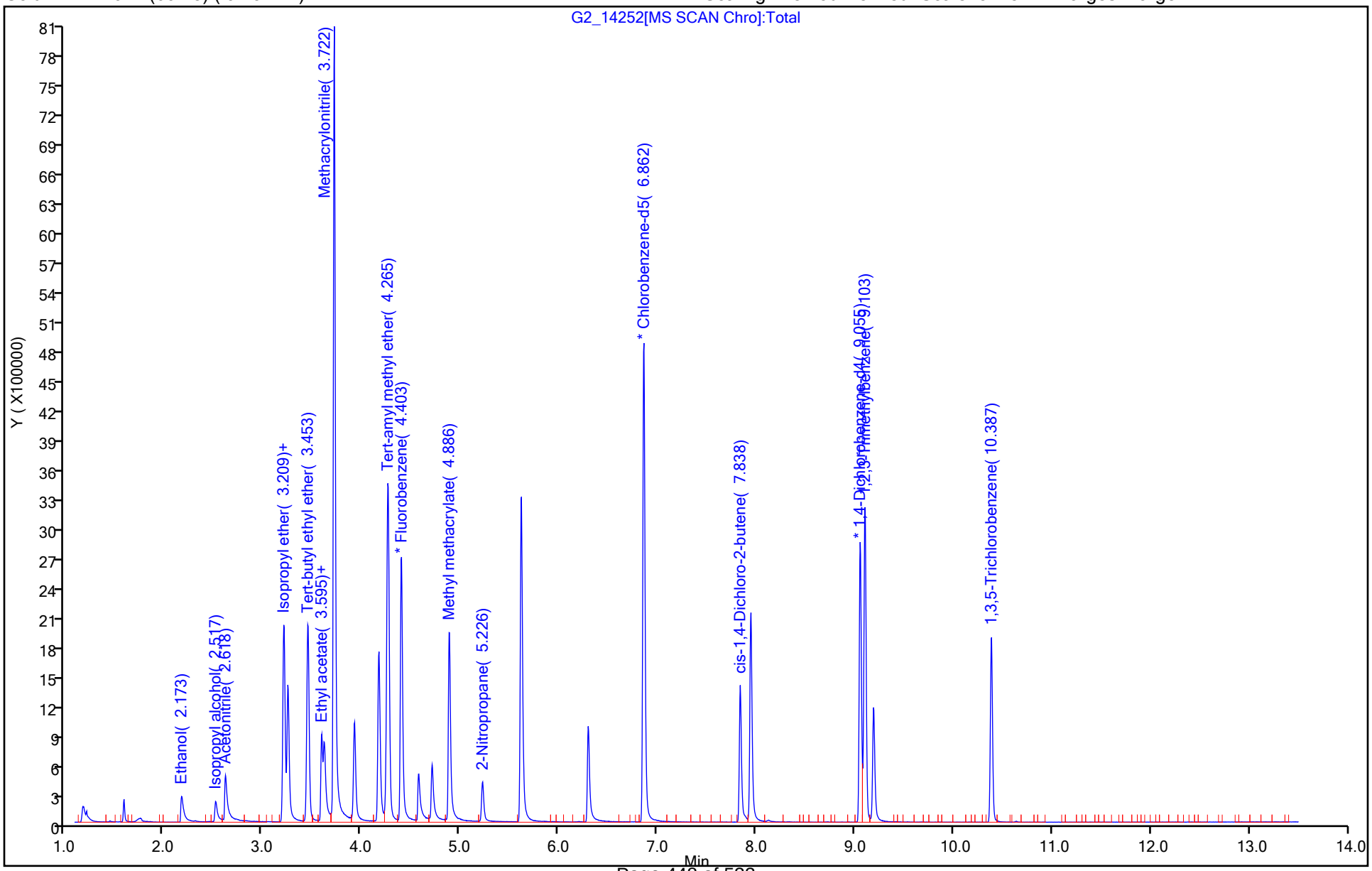
Report Date: 31-Jul-2024 09:55:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14252.D

Injection Date:	30-Jul-2024 19:41:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	ICV			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/2 Calibration Date: 08/01/2024 09:43

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14335.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		0.2549	0.1000	46.5	50.0	-6.9	20.0
Chloromethane	Ave	0.2606	0.2874	0.1000	55.2	50.0	10.3	20.0
Vinyl chloride	Ave	0.2942	0.2942	0.0100	50.0	50.0	0.0	20.0
Bromomethane	Ave	0.1683	0.2074	0.0100	61.6	50.0	23.2*	20.0
Chloroethane	Ave	0.2058	0.1936	0.0100	47.0	50.0	-5.9	20.0
Dichlorofluoromethane	Ave	0.4268	0.4298	0.0100	50.4	50.0	0.7	20.0
Trichlorofluoromethane	Ave	0.3210	0.3094	0.0100	48.2	50.0	-3.6	20.0
Ethyl ether	Ave	0.1649	0.1770	0.0100	53.7	50.0	7.3	20.0
Acrolein	Lin1		0.0257	0.0010	483	494	-2.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1542	0.1483	0.0500	48.1	50.0	-3.9	20.0
1,1-Dichloroethene	Ave	0.1962	0.1990	0.0600	50.7	50.0	1.4	20.0
Acetone	Lin1		0.0510	0.0100	172	200	-14.0	20.0
Iodomethane	Lin2		0.2500	0.0100	48.6	50.0	-2.7	20.0
Carbon disulfide	Ave	0.6008	0.6255	0.1000	52.1	50.0	4.1	20.0
Methyl acetate	Lin2		0.1307	0.0100	89.9	100	-10.1	20.0
Allyl chloride	Ave	0.2785	0.3078	0.0100	55.3	50.0	10.5	20.0
Methylene Chloride	Ave	0.2305	0.2384	0.0100	51.7	50.0	3.4	20.0
2-Methyl-2-propanol	Lin2		0.0213	0.0010	415	500	-17.0	20.0
Acrylonitrile	Lin1		0.0826	0.0100	459	500	-8.1	20.0
Methyl tert-butyl ether	Ave	0.6784	0.6643	0.1000	49.0	50.0	-2.1	20.0
trans-1,2-Dichloroethene	Ave	0.2173	0.2189	0.1000	50.4	50.0	0.7	20.0
Hexane	Ave	1.111	1.198	0.0100	53.9	50.0	7.8	20.0
Vinyl acetate	Lin2		0.4260	0.0100	129	100	29.4*	20.0
1,1-Dichloroethane	Ave	0.3862	0.4110	0.1000	53.2	50.0	6.4	20.0
2-Butanone (MEK)	Lin1		0.0851	0.0100	170	200	-14.8	20.0
2,2-Dichloropropane	Ave	0.3092	0.3306	0.0100	53.5	50.0	6.9	20.0
cis-1,2-Dichloroethene	Lin1		0.2522	0.1000	47.6	50.0	-4.8	20.0
sec-Butyl Alcohol	Lin1		0.0166	0.0100	998	1200	-16.8	20.0
Chlorobromomethane	Ave	0.1046	0.1101	0.0500	52.6	50.0	5.2	20.0
Tetrahydrofuran	Lin1		0.0607	0.0010	91.5	100	-8.5	20.0
Chloroform	Ave	0.3795	0.3865	0.2000	50.9	50.0	1.9	20.0
1,1,1-Trichloroethane	Ave	0.3314	0.3277	0.0500	49.4	50.0	-1.1	20.0
Cyclohexane	Ave	0.3748	0.3896	0.0100	52.0	50.0	4.0	20.0
Carbon tetrachloride	Ave	0.2828	0.2877	0.1000	50.9	50.0	1.7	20.0
1,1-Dichloropropene	Ave	0.2937	0.3085	0.0100	52.5	50.0	5.0	20.0
Isobutyl alcohol	Lin1		0.0061	0.0010	1030	1250	-17.3	20.0
Benzene	Ave	0.9136	0.9507	0.2000	52.0	50.0	4.1	20.0
1,2-Dichloroethane	Ave	0.2633	0.2668	0.0700	50.7	50.0	1.3	20.0
n-Heptane	Ave	0.2318	0.2665		57.5	50.0	15.0	
Trichloroethene	Ave	0.9056	0.9134	0.2000	50.4	50.0	0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/2 Calibration Date: 08/01/2024 09:43

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14335.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		0.1522	0.0010	157	160	-2.0	20.0
Methylcyclohexane	Ave	0.2661	0.2866	0.0500	53.8	50.0	7.7	20.0
1,2-Dichloropropane	Ave	0.2329	0.2489	0.1000	53.4	50.0	6.9	20.0
1,4-Dioxane	Lin2		0.0027	0.0010	816	1000	-18.4	20.0
Dibromomethane	Ave	0.1396	0.1391	0.0100	49.8	50.0	-0.4	20.0
Dichlorobromomethane	Ave	0.2944	0.3093	0.2000	52.5	50.0	5.1	20.0
2-Chloroethyl vinyl ether	Lin1		0.1315	0.0100	44.2	50.0	-11.5	20.0
cis-1,3-Dichloropropene	Ave	1.380	1.489	0.2000	54.0	50.0	7.9	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.2117	0.0300	191	200	-4.4	20.0
Toluene	Ave	0.9904	1.010	0.3000	51.0	50.0	2.0	20.0
trans-1,3-Dichloropropene	Lin1		0.3464	0.2000	47.9	50.0	-4.1	20.0
Ethyl methacrylate	Lin2		1.241	0.0100	47.1	50.0	-5.9	20.0
1,1,2-Trichloroethane	Ave	0.2130	0.2056	0.1000	48.3	50.0	-3.5	20.0
Tetrachloroethene	Ave	0.7430	0.7305	0.1000	49.2	50.0	-1.7	20.0
1,3-Dichloropropane	Ave	1.453	1.507	0.0100	51.8	50.0	3.7	20.0
2-Hexanone	Lin2		0.5840	0.0100	189	200	-5.4	20.0
Chlorodibromomethane	Ave	0.9771	0.9790	0.1000	50.1	50.0	0.2	20.0
1,2-Dibromoethane	Ave	0.8436	0.8502	0.1000	50.4	50.0	0.8	20.0
1-Chlorohexane	Ave	1.388	1.390	0.0100	40.0	40.0	0.1	20.0
Chlorobenzene	Ave	2.623	2.678	0.3000	51.0	50.0	2.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9444	0.9517	0.0100	50.4	50.0	0.8	20.0
Ethylbenzene	Ave	1.402	1.466	0.3000	52.3	50.0	4.6	20.0
m-Xylene & p-Xylene	Ave	1.636	1.733	0.1000	53.0	50.0	5.9	20.0
o-Xylene	Ave	1.683	1.730	0.2000	51.4	50.0	2.8	20.0
Styrene	Lin1		2.903	0.2000	47.7	50.0	-4.5	20.0
Bromoform	Ave	0.6856	0.6485	0.1000	47.3	50.0	-5.4	20.0
Isopropylbenzene	Ave	2.608	2.792	0.3000	53.5	50.0	7.1	20.0
Cyclohexanone	Ave	0.0561	0.0566	0.0010	1510	1500	1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7603	0.7550	0.3000	49.7	50.0	-0.7	20.0
Bromobenzene	Ave	0.6521	0.6844	0.0100	52.5	50.0	5.0	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.1747	0.0100	48.3	50.0	-3.4	20.0
1,2,3-Trichloropropane	Ave	0.2245	0.2225	0.0100	49.6	50.0	-0.9	20.0
N-Propylbenzene	Ave	0.7008	0.7546	0.0100	53.8	50.0	7.7	20.0
2-Chlorotoluene	Ave	0.6272	0.6496	0.0100	51.8	50.0	3.6	20.0
1,3,5-Trimethylbenzene	Ave	2.040	2.131	0.0100	52.2	50.0	4.5	20.0
4-Chlorotoluene	Ave	0.6374	0.6633	0.0100	52.0	50.0	4.1	20.0
tert-Butylbenzene	Ave	1.795	1.894	0.0100	52.8	50.0	5.6	20.0
1,2,4-Trimethylbenzene	Ave	2.030	2.115	0.3000	52.1	50.0	4.2	20.0
sec-Butylbenzene	Ave	0.5408	0.5789	0.0100	53.5	50.0	7.0	20.0
1,3-Dichlorobenzene	Ave	1.177	1.249	0.5000	53.0	50.0	6.0	20.0
4-Isopropyltoluene	Ave	2.154	2.286	0.0100	53.1	50.0	6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/2 Calibration Date: 08/01/2024 09:43

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14335.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	1.271	1.305	0.5000	51.3	50.0	2.7	20.0
n-Butylbenzene	Ave	1.811	2.007	0.0100	55.4	50.0	10.8	20.0
1,2-Dichlorobenzene	Ave	1.183	1.214	0.5000	51.3	50.0	2.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1551	0.1417	0.0100	45.7	50.0	-8.6	20.0
1,2,4-Trichlorobenzene	Ave	0.5810	0.6045	0.2000	52.0	50.0	4.0	20.0
Hexachlorobutadiene	Ave	0.2879	0.2960	0.0100	51.4	50.0	2.8	20.0
Naphthalene	Ave	1.493	1.487	0.0100	49.8	50.0	-0.4	20.0
1,2,3-Trichlorobenzene	Ave	0.5358	0.5291	0.3000	49.4	50.0	-1.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2491	0.2445	0.0100	49.1	50.0	-1.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2485	0.2398	0.0100	48.2	50.0	-3.5	20.0
Toluene-d8 (Surr)	Ave	4.141	4.116	0.0100	49.7	50.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8805	0.8743	0.0100	49.7	50.0	-0.7	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14335.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2024 09:43:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub62

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:20 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 10:23:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.403	0.000	99	1890717	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.858	0.000	86	467615	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.054	0.000	94	747113	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.928	0.000	93	462346	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	453456	50.0	48.2	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1924762	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	90	653228	50.0	49.7	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	481930	50.0	46.5	
10 Chloromethane	50	1.536	1.536	0.000	98	543450	50.0	55.2	
11 Vinyl chloride	62	1.562	1.562	0.000	98	556309	50.0	50.0	
12 Bromomethane	94	1.791	1.791	0.000	90	392085	50.0	61.6	
13 Chloroethane	64	1.869	1.869	0.000	99	366118	50.0	47.0	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	98	812724	50.0	50.4	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	98	584989	50.0	48.2	
18 Ethyl ether	59	2.236	2.236	0.000	90	334702	50.0	53.7	
19 Acrolein	56	2.333	2.333	0.000	99	479856	493.8	482.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	96	280325	50.0	48.1	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	376211	50.0	50.7	
22 Acetone	43	2.427	2.427	0.000	100	385894	200.0	172.0	
23 Iodomethane	142	2.509	2.509	0.000	98	472737	50.0	48.6	
25 Carbon disulfide	76	2.562	2.562	0.000	99	1182655	50.0	52.1	
26 Methyl acetate	43	2.633	2.633	0.000	97	494193	100.0	89.9	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	581983	50.0	55.3	
28 Methylene Chloride	84	2.730	2.730	0.000	92	450750	50.0	51.7	
29 2-Methyl-2-propanol	59	2.782	2.782	0.000	100	401955	500.0	414.9	
30 Acrylonitrile	53	2.883	2.883	0.000	100	1561308	500.0	459.5	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	1256092	50.0	49.0	
32 trans-1,2-Dichloroethene	96	2.913	2.913	0.000	100	413823	50.0	50.4	
33 Hexane	57	3.089	3.089	0.000	90	560127	50.0	53.9	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1610709	100.0	129.4	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	777021	50.0	53.2	

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	3.572	3.572	0.000	99	643509	200.0	170.3	
40 cis-1,2-Dichloroethene	96	3.591	3.591	0.000	82	476881	50.0	47.6	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	84	625007	50.0	53.5	
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	752957	1200.0	998.4	
46 Chlorobromomethane	128	3.755	3.755	0.000	96	208078	50.0	52.6	
47 Tetrahydrofuran	42	3.763	3.763	0.000	87	229592	100.0	91.5	
48 Chloroform	83	3.815	3.815	0.000	93	730856	50.0	50.9	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	619619	50.0	49.4	
50 Cyclohexane	56	3.991	3.991	0.000	89	736634	50.0	52.0	
51 Carbon tetrachloride	117	4.047	4.047	0.000	97	543902	50.0	50.9	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	98	583228	50.0	52.5	
53 Isobutyl alcohol	41	4.092	4.092	0.000	94	290139	1250.0	1033.2	
54 Benzene	78	4.193	4.193	0.000	96	1797504	50.0	52.0	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	96	504385	50.0	50.7	
57 n-Heptane	43	4.384	4.384	0.000	90	503932	50.0	57.5	
59 Trichloroethene	95	4.669	4.669	0.000	98	427132	50.0	50.4	
60 2-Pentanone	43	4.781	4.781	0.000	99	920775	160.0	156.8	
61 Methylcyclohexane	55	4.841	4.841	0.000	91	541857	50.0	53.8	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	470536	50.0	53.4	
64 1,4-Dioxane	88	4.919	4.919	0.000	92	103222	1000.0	816.2	
65 Dibromomethane	93	4.930	4.930	0.000	97	262917	50.0	49.8	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	584813	50.0	52.5	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	91	248639	50.0	44.2	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	696235	50.0	54.0	
70 4-Methyl-2-pentanone (MIBK)	43	5.503	5.503	0.000	95	1600832	200.0	191.3	
71 Toluene	91	5.675	5.675	0.000	98	1910289	50.0	51.0	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	91	654986	50.0	47.9	
73 Ethyl methacrylate	69	5.892	5.892	0.000	88	580192	50.0	47.1	
74 1,1,2-Trichloroethane	97	6.027	6.027	0.000	90	388803	50.0	48.3	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	341582	50.0	49.2	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	87	704594	50.0	51.8	
77 2-Hexanone	43	6.199	6.199	0.000	94	1092364	200.0	189.3	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	457792	50.0	50.1	
79 Ethylene Dibromide	107	6.461	6.461	0.000	98	397549	50.0	50.4	
80 1-Chlorohexane	91	6.861	6.861	0.000	61	519829	40.0	40.0	
81 Chlorobenzene	112	6.888	6.888	0.000	96	1252169	50.0	51.0	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	96	445015	50.0	50.4	
83 Ethylbenzene	106	6.970	6.970	0.000	98	685508	50.0	52.3	
84 m-Xylene & p-Xylene	106	7.086	7.086	0.000	100	810379	50.0	53.0	
85 o-Xylene	106	7.438	7.438	0.000	97	809144	50.0	51.4	
86 Styrene	104	7.457	7.457	0.000	95	1357541	50.0	47.7	
87 Bromoform	173	7.625	7.625	0.000	96	303240	50.0	47.3	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	2086207	50.0	53.5	
89 Cyclohexanone	55	7.861	7.861	0.000	90	794575	1500.0	1514.4	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	564082	50.0	49.7	
92 Bromobenzene	156	8.081	8.081	0.000	93	511350	50.0	52.5	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	84	130510	50.0	48.3	
94 1,2,3-Trichloropropane	110	8.123	8.123	0.000	84	166216	50.0	49.6	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	563780	50.0	53.8	
96 2-Chlorotoluene	126	8.261	8.261	0.000	97	485319	50.0	51.8	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1592464	50.0	52.2	
98 4-Chlorotoluene	126	8.377	8.377	0.000	96	495585	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
99 tert-Butylbenzene	119	8.643	8.643	0.000	93	1415386	50.0	52.8	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	1580245	50.0	52.1	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	432520	50.0	53.5	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	932858	50.0	53.0	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	1708078	50.0	53.1	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	975050	50.0	51.3	
106 n-Butylbenzene	91	9.414	9.414	0.000	98	1499286	50.0	55.4	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	907350	50.0	51.3	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	87	105867	50.0	45.7	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	451635	50.0	52.0	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	221158	50.0	51.4	
112 Naphthalene	128	11.270	11.270	0.000	97	1110655	50.0	49.8	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	395265	50.0	49.4	
S 115 1,2-Dichloroethene, Total	1				0		100.0	97.9	
S 116 1,3-Dichloropropene, Total	1				0		100.0	101.9	
S 117 Xylenes, Total	106				0		100.0	104.4	
S 119 Trihalomethanes, Total	1				0		200.0	200.9	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00107	Amount Added: 25.00	Units: uL	
MV-Gas B_00168	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

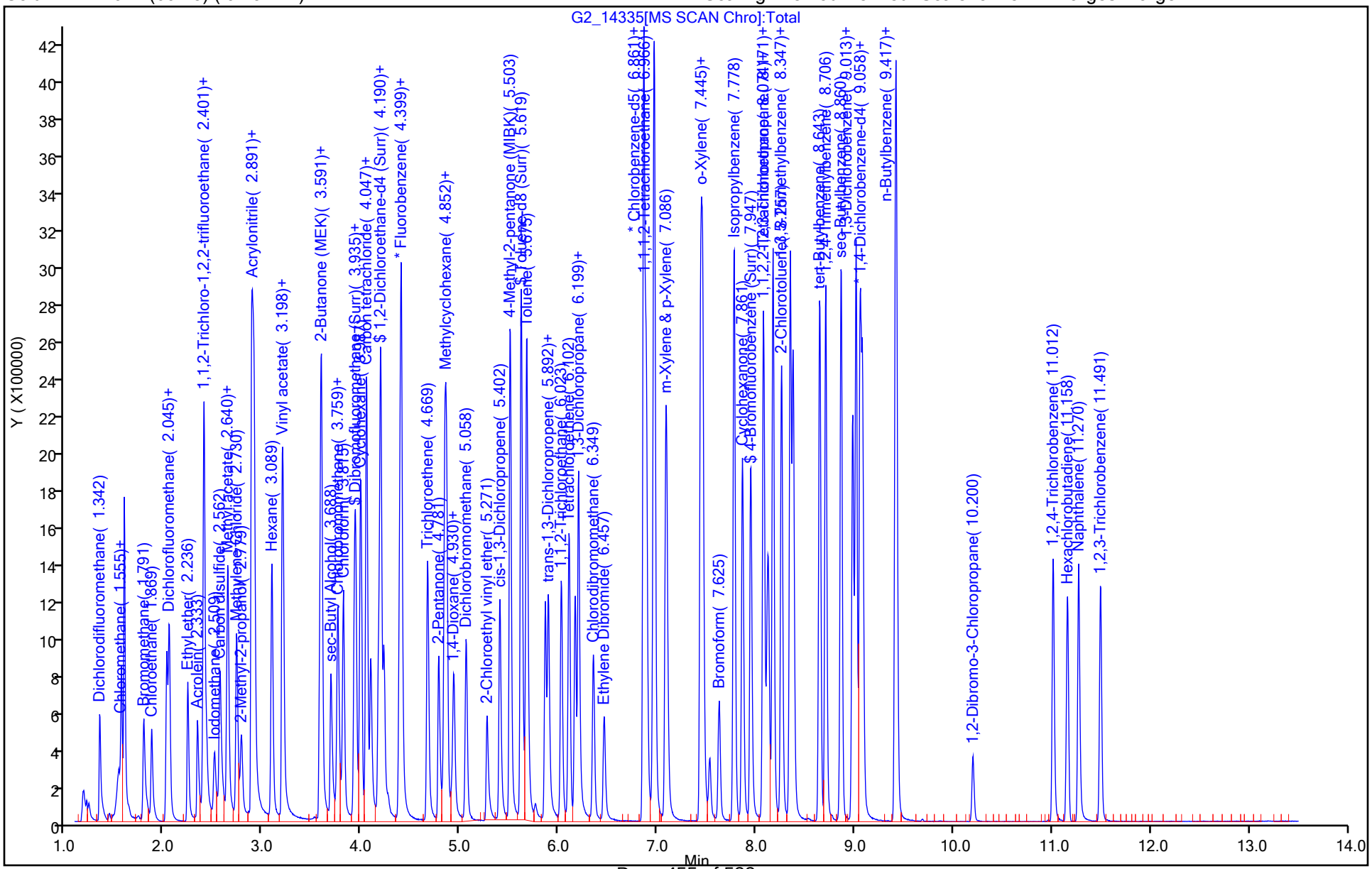
Report Date: 01-Aug-2024 12:28:20 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14335.D

Injection Date:	01-Aug-2024 09:43:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/3 Calibration Date: 08/01/2024 10:04

Instrument ID: VMS_G2 Calib Start Date: 06/18/2024 20:45

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/18/2024 23:02

Lab File ID: G2_14336.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
n-Butanol	Lin1		0.0038*	0.0100		625	-100.0*	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2024 10:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub218

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 10:41:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	1813670	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	440410	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	671557	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	449344	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	450550	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1858943	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	612913	50.0	51.8	
17 Ethanol	45	2.180	2.180	0.000	99	120913	1500.0	1236.1	
24 Isopropyl alcohol	45	2.524	2.524	0.000	98	89474	250.0	168.8	
27 Acetonitrile	41	2.622	2.622	0.000	99	192976	250.0	201.5	
36 Isopropyl ether	87	3.209	3.209	0.000	95	182787	25.0	25.5	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	293226	25.0	25.0	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	98	638512	25.0	25.6	
42 Ethyl acetate	43	3.595	3.595	0.000	99	354144	50.0	47.2	
43 Propionitrile	54	3.625	3.625	0.000	99	221403	250.0	201.8	
45 Methacrylonitrile	41	3.718	3.718	0.000	91	1239817	250.0	258.2	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	621054	25.0	24.7	
58 n-Butanol	56	4.586	4.586	0.000	86	85433	625.0	0	
63 Methyl methacrylate	100	4.889	4.889	0.000	90	115840	50.0	44.0	
67 2-Nitropropane	41	5.222	5.222	0.000	98	86418	50.0	46.5	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	87	126021	50.0	50.0	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	761302	25.0	25.6	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	236925	25.0	24.9	

Reagents:

MV-Supp B_00073 Amount Added: 25.00 Units: uL
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

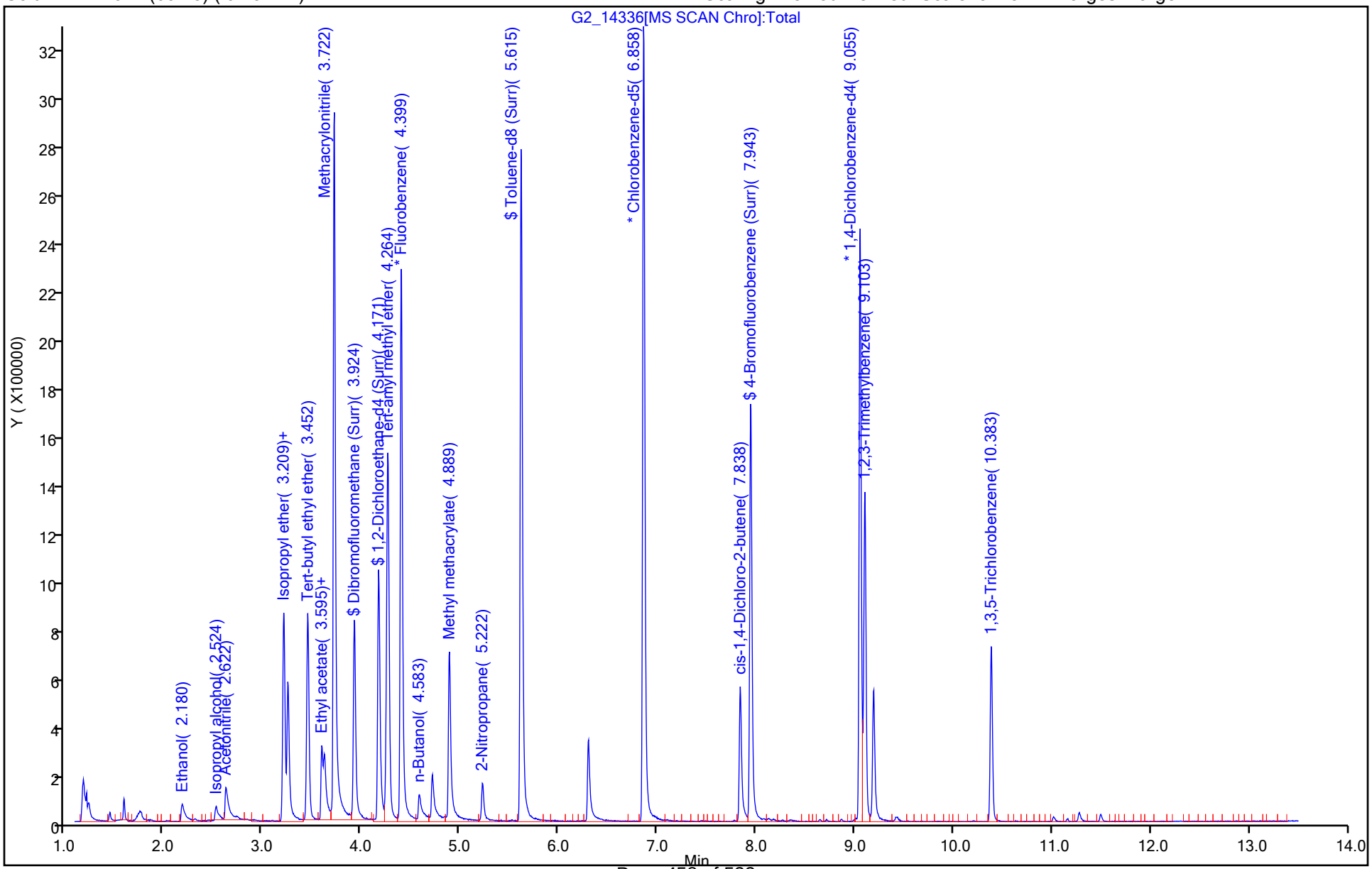
Report Date: 01-Aug-2024 12:28:22 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D

Injection Date:	01-Aug-2024 10:04:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/3 Calibration Date: 08/01/2024 10:04

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 11:58

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 14:46

Lab File ID: G2_14336.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	0.2491	0.2478	0.0100	49.7	50.0	-0.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2485	0.2484	0.0100	50.0	50.0	-0.0	20.0
Toluene-d8 (Surr)	Ave	4.141	4.221	0.0100	51.0	50.0	1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8805	0.9127	0.0100	51.8	50.0	3.7	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2024 10:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub218

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 10:41:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	1813670	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	440410	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	671557	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	449344	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	450550	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1858943	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	612913	50.0	51.8	
17 Ethanol	45	2.180	2.180	0.000	99	120913	1500.0	1236.1	
24 Isopropyl alcohol	45	2.524	2.524	0.000	98	89474	250.0	168.8	
27 Acetonitrile	41	2.622	2.622	0.000	99	192976	250.0	201.5	
36 Isopropyl ether	87	3.209	3.209	0.000	95	182787	25.0	25.5	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	293226	25.0	25.0	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	98	638512	25.0	25.6	
42 Ethyl acetate	43	3.595	3.595	0.000	99	354144	50.0	47.2	
43 Propionitrile	54	3.625	3.625	0.000	99	221403	250.0	201.8	
45 Methacrylonitrile	41	3.718	3.718	0.000	91	1239817	250.0	258.2	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	621054	25.0	24.7	
58 n-Butanol	56	4.586	4.586	0.000	86	85433	625.0	0	
63 Methyl methacrylate	100	4.889	4.889	0.000	90	115840	50.0	44.0	
67 2-Nitropropane	41	5.222	5.222	0.000	98	86418	50.0	46.5	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	87	126021	50.0	50.0	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	761302	25.0	25.6	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	236925	25.0	24.9	

Reagents:

MV-Supp B_00073 Amount Added: 25.00 Units: uL
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

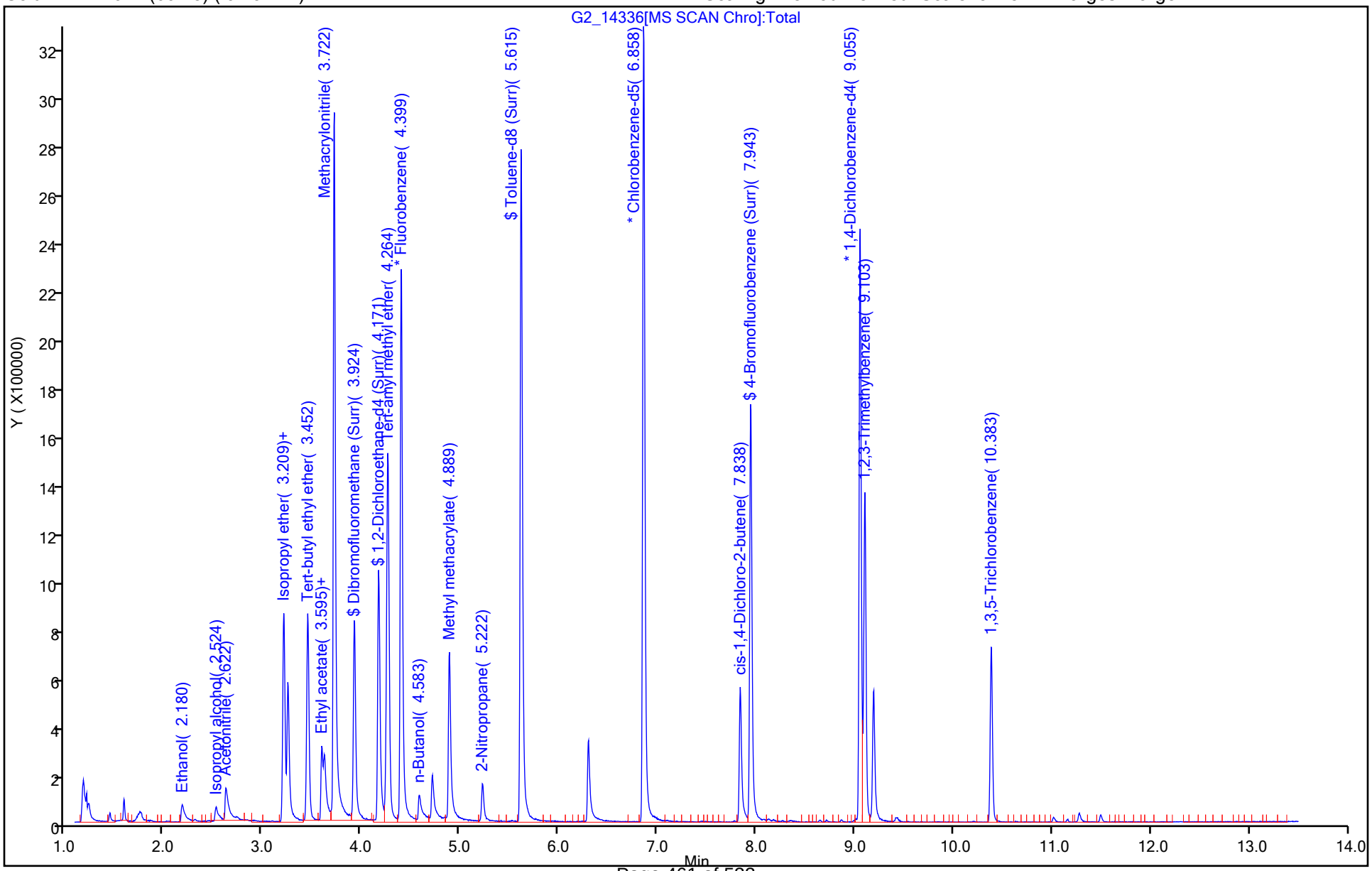
Report Date: 01-Aug-2024 12:28:22 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D

Injection Date:	01-Aug-2024 10:04:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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.: 280-194612-1

SDG No.:

Lab Sample ID: CCV 280-662478/3 Calibration Date: 08/01/2024 10:04

Instrument ID: VMS_G2 Calib Start Date: 07/30/2024 16:31

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 07/30/2024 18:59

Lab File ID: G2_14336.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	Lin1		0.0022*	0.0100	1240	1500	-17.6	20.0
Isopropyl alcohol	Lin1		0.0099*	0.0100	169	250	-32.5*	20.0
Acetonitrile	Lin1		0.0213	0.0100	201	250	-19.4	20.0
Isopropyl ether	Ave	0.1972	0.2016	0.0100	25.5	25.0	2.2	20.0
Chloroprene	Lin1		0.3234	0.0100	25.0	25.0	-0.2	20.0
Tert-butyl ethyl ether	Ave	0.6882	0.7041	0.0100	25.6	25.0	2.3	20.0
Ethyl acetate	Lin1		0.1953	0.0100	47.2	50.0	-5.6	20.0
Propionitrile	Lin1		0.0244	0.0100	202	250	-19.3	20.0
Methacrylonitrile	Ave	0.1324	0.1367	0.0100	258	250	3.3	20.0
Tert-amyl methyl ether	Ave	0.6939	0.6849	0.0100	24.7	25.0	-1.3	20.0
Methyl methacrylate	Lin1		0.0639	0.0100	44.0	50.0	-12.1	20.0
2-Nitropropane	Ave	0.0512	0.0476	0.0100	46.5	50.0	-7.0	20.0
cis-1,4-Dichloro-2-butene	Lin2		0.1877	0.0100	50.0	50.0	0.0	20.0
1,2,3-Trimethylbenzene	Ave	2.216	2.267	0.0100	25.6	25.0	2.3	20.0
1,3,5-Trichlorobenzene	Ave	0.7080	0.7056	0.0100	24.9	25.0	-0.3	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2024 10:04:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_G2
Sublist: chrom-AQ_VMSG2_8260*sub218

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 10:41:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	1813670	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	440410	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	671557	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	449344	50.0	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	450550	50.0	50.0	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1858943	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	612913	50.0	51.8	
17 Ethanol	45	2.180	2.180	0.000	99	120913	1500.0	1236.1	
24 Isopropyl alcohol	45	2.524	2.524	0.000	98	89474	250.0	168.8	
27 Acetonitrile	41	2.622	2.622	0.000	99	192976	250.0	201.5	
36 Isopropyl ether	87	3.209	3.209	0.000	95	182787	25.0	25.5	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	293226	25.0	25.0	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	98	638512	25.0	25.6	
42 Ethyl acetate	43	3.595	3.595	0.000	99	354144	50.0	47.2	
43 Propionitrile	54	3.625	3.625	0.000	99	221403	250.0	201.8	
45 Methacrylonitrile	41	3.718	3.718	0.000	91	1239817	250.0	258.2	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	621054	25.0	24.7	
58 n-Butanol	56	4.586	4.586	0.000	86	85433	625.0	0	
63 Methyl methacrylate	100	4.889	4.889	0.000	90	115840	50.0	44.0	
67 2-Nitropropane	41	5.222	5.222	0.000	98	86418	50.0	46.5	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	87	126021	50.0	50.0	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	761302	25.0	25.6	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	236925	25.0	24.9	

Reagents:

MV-Supp B_00073 Amount Added: 25.00 Units: uL
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

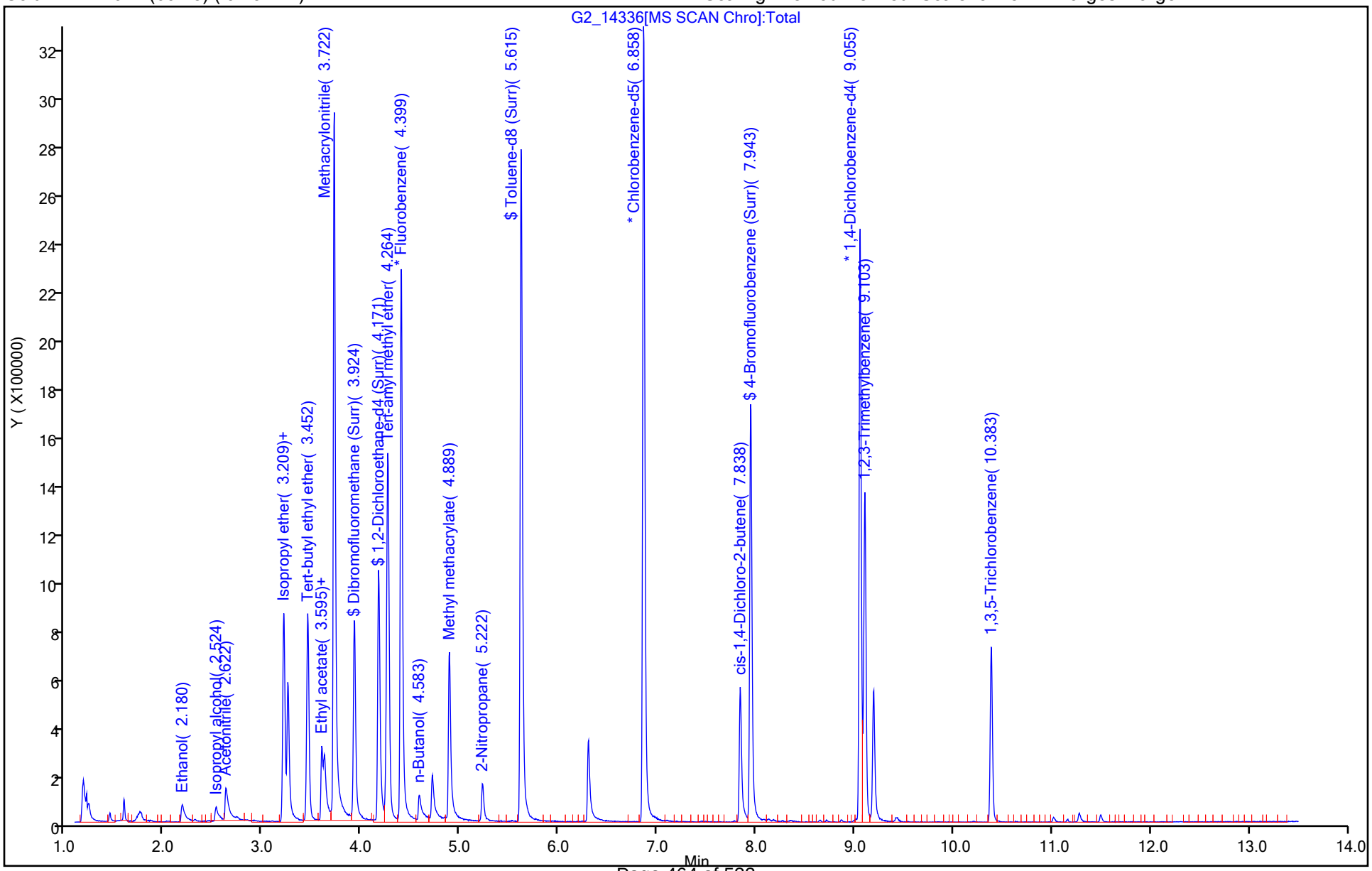
Report Date: 01-Aug-2024 12:28:22 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336.D

Injection Date:	01-Aug-2024 10:04:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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_G2\20240730-135973.b\G2_14229.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Jul-2024 09:38:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2024 10:38:30 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: BMJ3 Date: 31-Jul-2024 10:38:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	7.947	7.947	0.000	89	681562	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

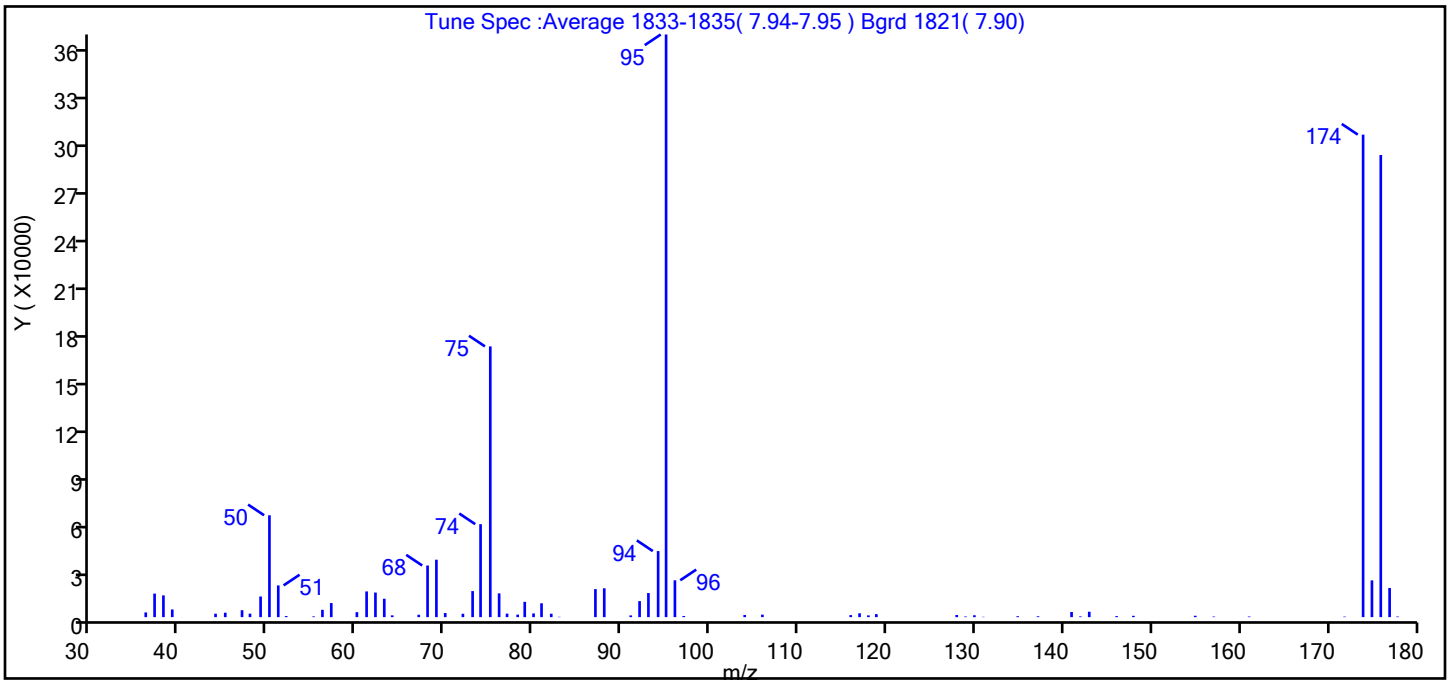
mv-Cent BFB_00008 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14229.D
Injection Date: 30-Jul-2024 09:38:30 Instrument ID: VMS_G2
Lims ID: BFB
Client ID:
Operator ID: COULTER ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_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	17.5
75	30 to 60% of m/z 95	46.5
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	82.8
175	5 to 9% of m/z 174	6.3 (7.6)
176	Greater than 95% but less than 101% of m/z 174	79.3 (95.8)
177	5 to 9% of m/z 176	5.0 (6.3)

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14229.D\AQ_VMSG2_8260.rslt\spectra.c
Injection Date: 30-Jul-2024 09:38:30
Spectrum: Tune Spec :Average 1833-1835(7.94-7.95) Bgrd 1821(7.90)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2960	62.00	15382	83.00	215	130.00	1182
37.00	14709	63.00	11503	87.00	17528	131.00	207
38.00	13610	64.00	1122	88.00	18032	135.00	585
39.00	4793	67.00	1489	91.00	1084	137.00	537
40.00	23	68.00	32256	92.00	10023	141.00	3222
44.00	2157	69.00	35896	93.00	15062	142.00	448
45.00	2773	70.00	2567	94.00	41296	143.00	3380
47.00	4350	72.00	2120	95.00	364160	146.00	639
48.00	2179	73.00	16284	96.00	23040	148.00	831
49.00	12899	74.00	58112	97.00	705	155.00	873
50.00	63672	75.00	169216	104.00	1352	157.00	363
51.00	19840	76.00	14856	106.00	1569	161.00	391
52.00	683	77.00	2198	116.00	1271	172.00	327
55.00	463	78.00	1574	117.00	2412	174.00	301568
56.00	4579	79.00	9565	118.00	1111	175.00	22984
57.00	8802	80.00	2309	119.00	1892	176.00	288832
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61.00	16079	82.00	2138	129.00	399	178.00	386

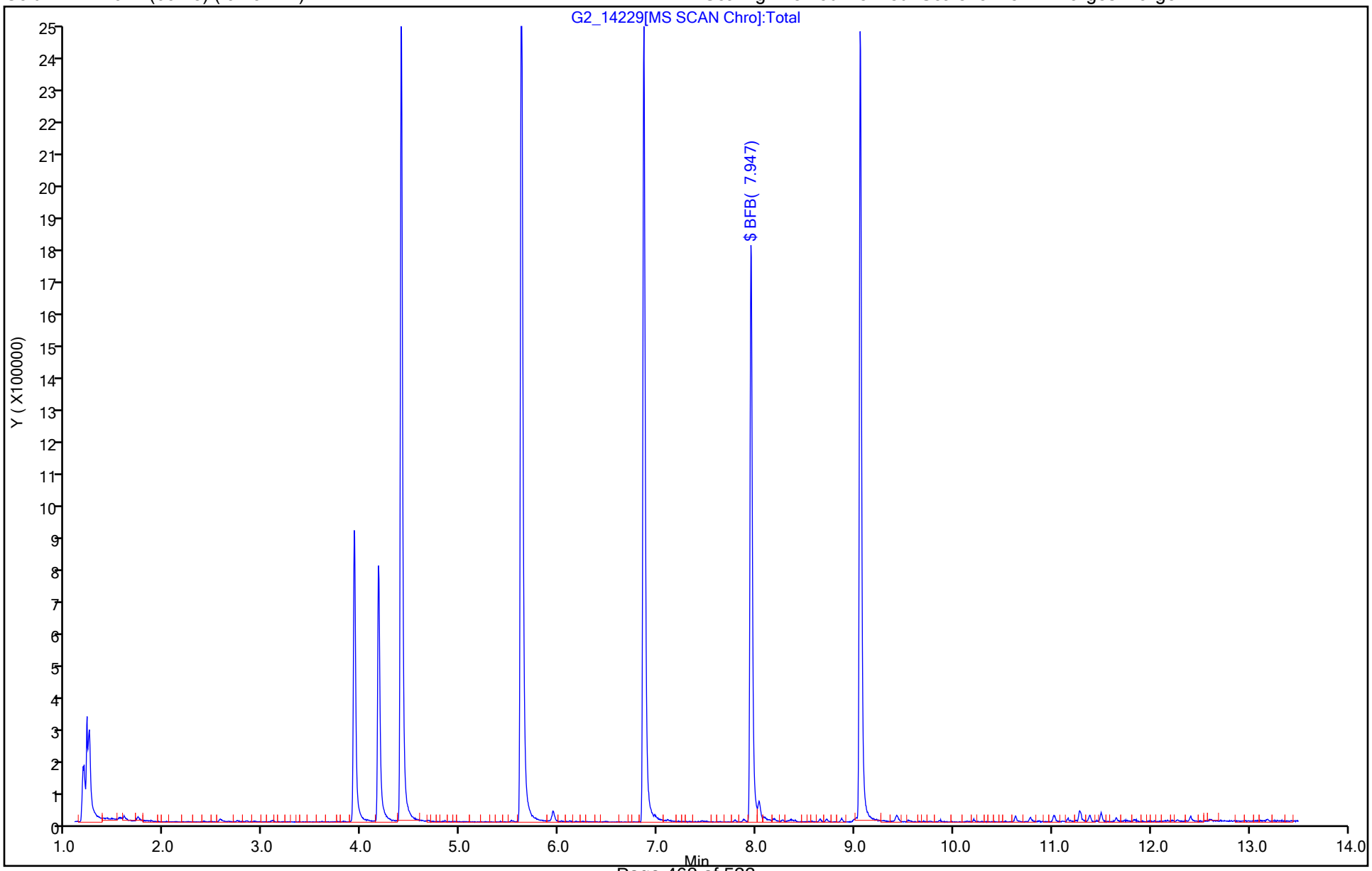
Report Date: 31-Jul-2024 10:38:31 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14229.D

Injection Date:	30-Jul-2024 09:38:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14334.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Aug-2024 09:12:30 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:18 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	7.943	7.943	0.000	89	663890	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

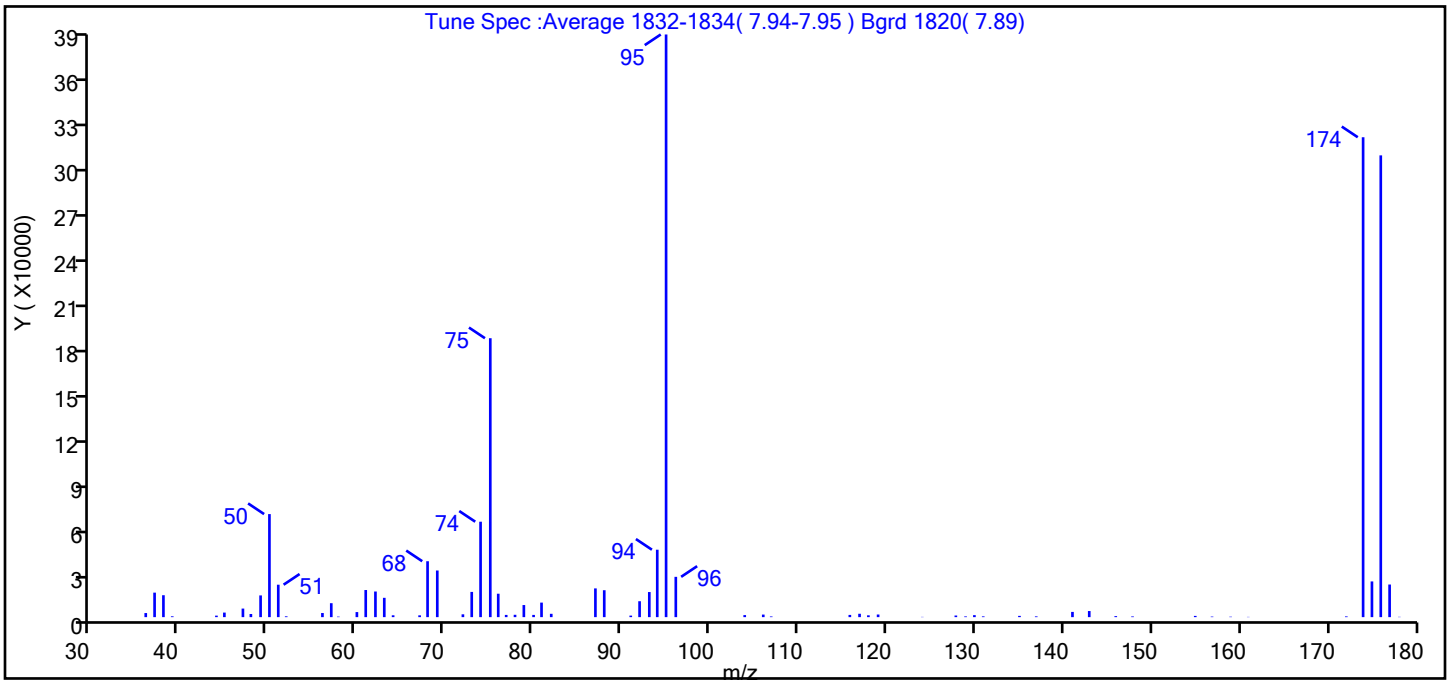
mv-Cent BFB_00008 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14334.D
Injection Date: 01-Aug-2024 09:12:30 Instrument ID: VMS_G2
Lims ID: BFB
Client ID:
Operator ID: COULTER ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMSG2_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	17.7
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.4
175	5 to 9% of m/z 174	6.1 (7.4)
176	Greater than 95% but less than 101% of m/z 174	79.3 (96.2)
177	5 to 9% of m/z 176	5.6 (7.1)

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14334.D\AQ_VMSG2_8260.rslt\spectra.c
Injection Date: 01-Aug-2024 09:12:30
Spectrum: Tune Spec :Average 1832-1834(7.94-7.95) Bgrd 1820(7.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2702	63.00	12757	91.00	1013	135.00	841
37.00	16178	64.00	1224	92.00	10510	137.00	508
38.00	14475	67.00	1192	93.00	16568	141.00	3456
39.00	547	68.00	36912	94.00	44512	143.00	4031
44.00	1006	69.00	30792	95.00	384640	146.00	676
45.00	3011	72.00	1868	96.00	26608	148.00	469
47.00	5657	73.00	16656	104.00	1351	155.00	820
48.00	2077	74.00	63000	106.00	1699	157.00	370
49.00	14342	75.00	184128	107.00	450	159.00	292
50.00	68032	76.00	15468	116.00	1470	161.00	166
51.00	21416	77.00	1468	117.00	2235	172.00	489
52.00	545	78.00	1557	118.00	1208	174.00	316800
56.00	2721	79.00	7986	119.00	1735	175.00	23576
57.00	9209	80.00	1478	124.00	170	176.00	304832
58.00	346	81.00	9602	128.00	1073	177.00	21536
60.00	3347	82.00	2202	129.00	488	178.00	199
61.00	17904	87.00	18976	130.00	1323		
62.00	16920	88.00	17768	131.00	504		

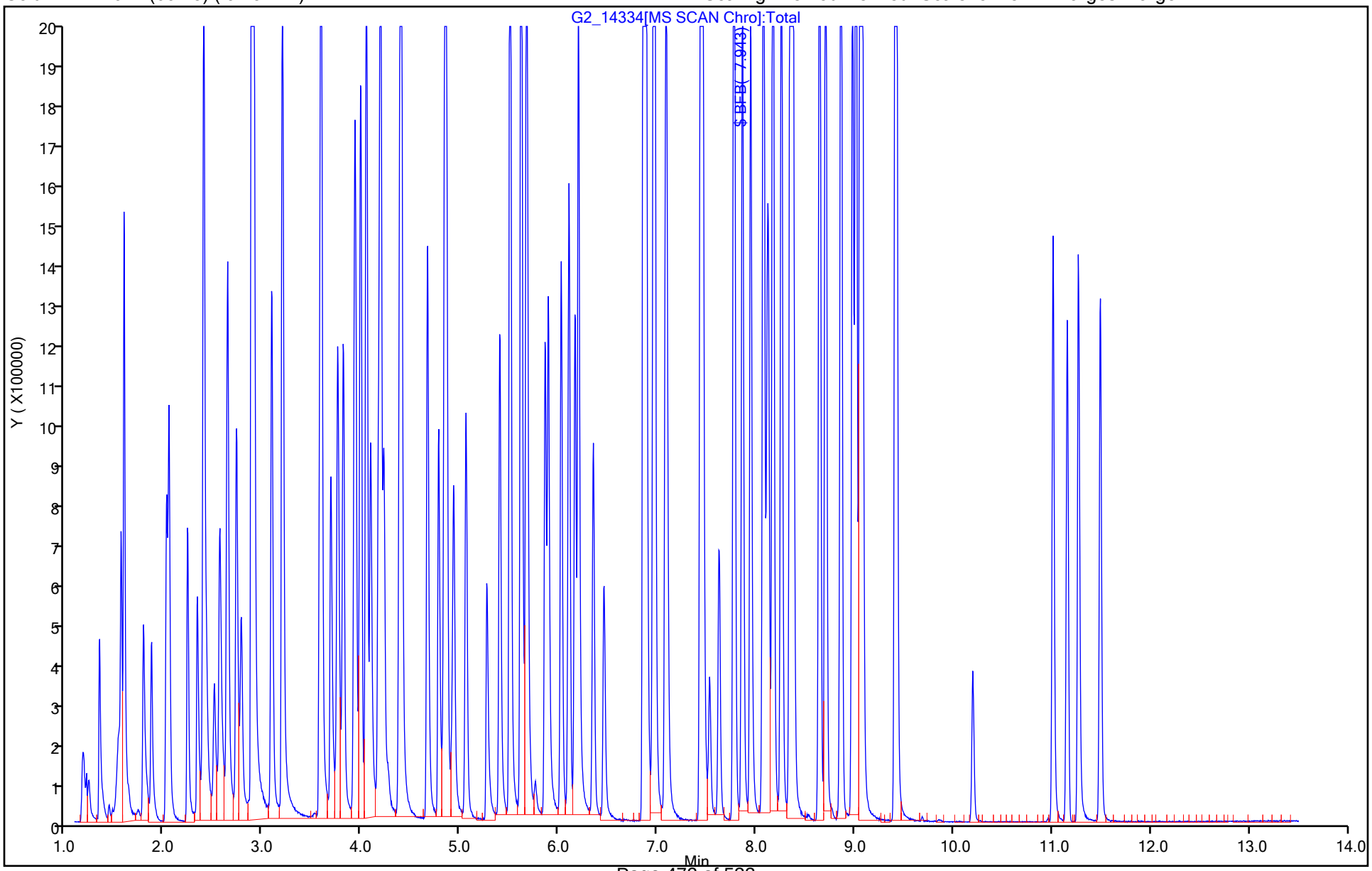
Report Date: 01-Aug-2024 12:28:19 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14334.D

Injection Date:	01-Aug-2024 09:12:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-662478/9

Matrix: Water | Lab File ID: G2_14340.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 11:26

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.16
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	0.19
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	0.42
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.28
78-87-5	1,2-Dichloropropane	ND		1.0	0.24
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.17
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		10	4.6
591-78-6	2-Hexanone	ND		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	1.7
107-05-1	Allyl chloride	ND		2.0	0.46
71-43-2	Benzene	ND		1.0	0.14
75-25-2	Bromoform	ND		2.0	0.25
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.26
56-23-5	Carbon tetrachloride	ND		1.0	0.23
108-90-7	Chlorobenzene	ND		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-662478/9

Matrix: Water | Lab File ID: G2_14340.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 11:26

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.16
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.19
75-71-8	Dichlorodifluoromethane	ND		2.0	0.30
97-63-2	Ethyl methacrylate	ND		3.0	0.19
100-41-4	Ethylbenzene	ND		1.0	0.14
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	ND		1.0	0.13
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		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	0.51
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.20
108-05-4	Vinyl acetate	ND		3.0	0.36
75-01-4	Vinyl chloride	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-662478/9

Matrix: Water | Lab File ID: G2_14340.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 11:26

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14340.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2024 11:26:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 12:28:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1781649	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	434019	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	96	652180	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.927	3.924	0.003	93	437384	50.0	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	445771	50.0	50.3	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1824162	50.0	50.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	590798	50.0	51.4	
$ 8 BFB	95	7.943	7.943	0.000	86	590798		NR	
9 Dichlorodifluoromethane	85		1.342					ND	
10 Chloromethane	50		1.536					ND	
11 Vinyl chloride	62		1.562					ND	
12 Bromomethane	94		1.791					ND	
13 Chloroethane	64		1.869					ND	
14 Dichlorofluoromethane	67		2.023					ND	
15 Trichlorofluoromethane	101		2.049					ND	
17 Ethanol	45		2.180					ND	
18 Ethyl ether	59		2.236					ND	
19 Acrolein	56		2.333					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.401					ND	
21 1,1-Dichloroethene	96		2.401					ND	
22 Acetone	43		2.427					ND	
23 Iodomethane	142		2.509					ND	
24 Isopropyl alcohol	45		2.524					ND	
25 Carbon disulfide	76		2.562					ND	7
27 Acetonitrile	41		2.622					ND	
26 Methyl acetate	43		2.633					ND	
16 3-Chloro-1-propene	41		2.644					ND	
28 Methylene Chloride	84	2.734	2.730	0.004	38	1400		0.1704	
29 2-Methyl-2-propanol	59		2.782					ND	
30 Acrylonitrile	53		2.883					ND	
31 Methyl tert-butyl ether	73		2.898					ND	
32 trans-1,2-Dichloroethene	96		2.913					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		3.089					ND	
35 Vinyl acetate	43		3.194					ND	
34 1,1-Dichloroethane	63		3.202					ND	
36 Isopropyl ether	87		3.209					ND	
37 2-Chloro-1,3-butadiene	53		3.250					ND	
38 Tert-butyl ethyl ether	59		3.452					ND	
39 2-Butanone (MEK)	43		3.572					ND	
40 cis-1,2-Dichloroethene	96		3.591					ND	
41 2,2-Dichloropropane	77		3.591					ND	
42 Ethyl acetate	43		3.595					ND	
43 Propionitrile	54		3.625					ND	
44 sec-Butyl Alcohol	45		3.688					ND	
45 Methacrylonitrile	41		3.718					ND	
46 Chlorobromomethane	128		3.755					ND	
47 Tetrahydrofuran	42		3.763					ND	
48 Chloroform	83		3.815					ND	
49 1,1,1-Trichloroethane	97		3.939					ND	
50 Cyclohexane	56		3.991					ND	
51 Carbon tetrachloride	117		4.047					ND	
52 1,1-Dichloropropene	75		4.051					ND	
53 Isobutyl alcohol	41		4.092					ND	
54 Benzene	78		4.193					ND	
55 1,2-Dichloroethane	62		4.227					ND	
56 Tert-amyl methyl ether	73		4.268					ND	
57 n-Heptane	43		4.384					ND	
58 n-Butanol	56		4.586					ND	
59 Trichloroethene	95		4.669					ND	
60 2-Pentanone	43		4.781					ND	
61 Methylcyclohexane	55		4.841					ND	
62 1,2-Dichloropropane	63		4.863					ND	
63 Methyl methacrylate	100		4.889					ND	
64 1,4-Dioxane	88		4.919					ND	
65 Dibromomethane	93		4.930					ND	
66 Dichlorobromomethane	83		5.058					ND	
67 2-Nitropropane	41		5.222					ND	
68 2-Chloroethyl vinyl ether	63		5.271					ND	
69 cis-1,3-Dichloropropene	75		5.402					ND	
70 4-Methyl-2-pentanone (MIBK)	43		5.503					ND	
71 Toluene	91		5.675					ND	
72 trans-1,3-Dichloropropene	75		5.862					ND	
73 Ethyl methacrylate	69		5.892					ND	
74 1,1,2-Trichloroethane	97		6.027					ND	
75 Tetrachloroethene	164		6.102					ND	
76 1,3-Dichloropropane	76		6.165					ND	
77 2-Hexanone	43		6.199					ND	
78 Chlorodibromomethane	129		6.349					ND	
79 Ethylene Dibromide	107		6.461					ND	
80 1-Chlorohexane	91		6.861					ND	U
81 Chlorobenzene	112		6.888					ND	
82 1,1,1,2-Tetrachloroethane	131		6.959					ND	
83 Ethylbenzene	106		6.970					ND	
84 m-Xylene & p-Xylene	106		7.086					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		7.438					ND	
86 Styrene	104		7.457					ND	
87 Bromoform	173		7.625					ND	
88 Isopropylbenzene	105		7.778					ND	
90 cis-1,4-Dichloro-2-butene	53		7.838					ND	
89 Cyclohexanone	55		7.861					ND	
91 1,1,2,2-Tetrachloroethane	83		8.070					ND	
92 Bromobenzene	156		8.081					ND	
93 trans-1,4-Dichloro-2-butene	53		8.111					ND	
94 1,2,3-Trichloropropane	110		8.123					ND	
95 N-Propylbenzene	120		8.171					ND	
96 2-Chlorotoluene	126		8.261					ND	
97 1,3,5-Trimethylbenzene	105		8.347					ND	
98 4-Chlorotoluene	126		8.377					ND	
99 tert-Butylbenzene	119		8.643					ND	
100 1,2,4-Trimethylbenzene	105		8.706					ND	
101 sec-Butylbenzene	134		8.864					ND	
102 1,3-Dichlorobenzene	146		8.980					ND	
103 4-Isopropyltoluene	119		9.013					ND	
104 1,4-Dichlorobenzene	146		9.077					ND	
105 1,2,3-Trimethylbenzene	105		9.103					ND	
106 n-Butylbenzene	91		9.414					ND	
107 1,2-Dichlorobenzene	146		9.425					ND	
108 1,2-Dibromo-3-Chloropropane	157		10.200					ND	
109 1,3,5-Trichlorobenzene	180		10.387					ND	
110 1,2,4-Trichlorobenzene	180		11.012					ND	
111 Hexachlorobutadiene	225		11.158					ND	
112 Naphthalene	128		11.270					ND	
113 1,2,3-Trichlorobenzene	180		11.494					ND	
114 Ethylene oxide TIC	1		0.000					ND	
S 115 1,2-Dichloroethene, Total	1		0.000					ND	7
S 116 1,3-Dichloropropene, Total	1		0.000					ND	7
S 117 Xylenes, Total	106		0.000					ND	7
S 118 Total BTEX	1		0.000					ND	7
S 119 Trihalomethanes, 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_00084 Amount Added: 5.00 Units: uL Run Reagent

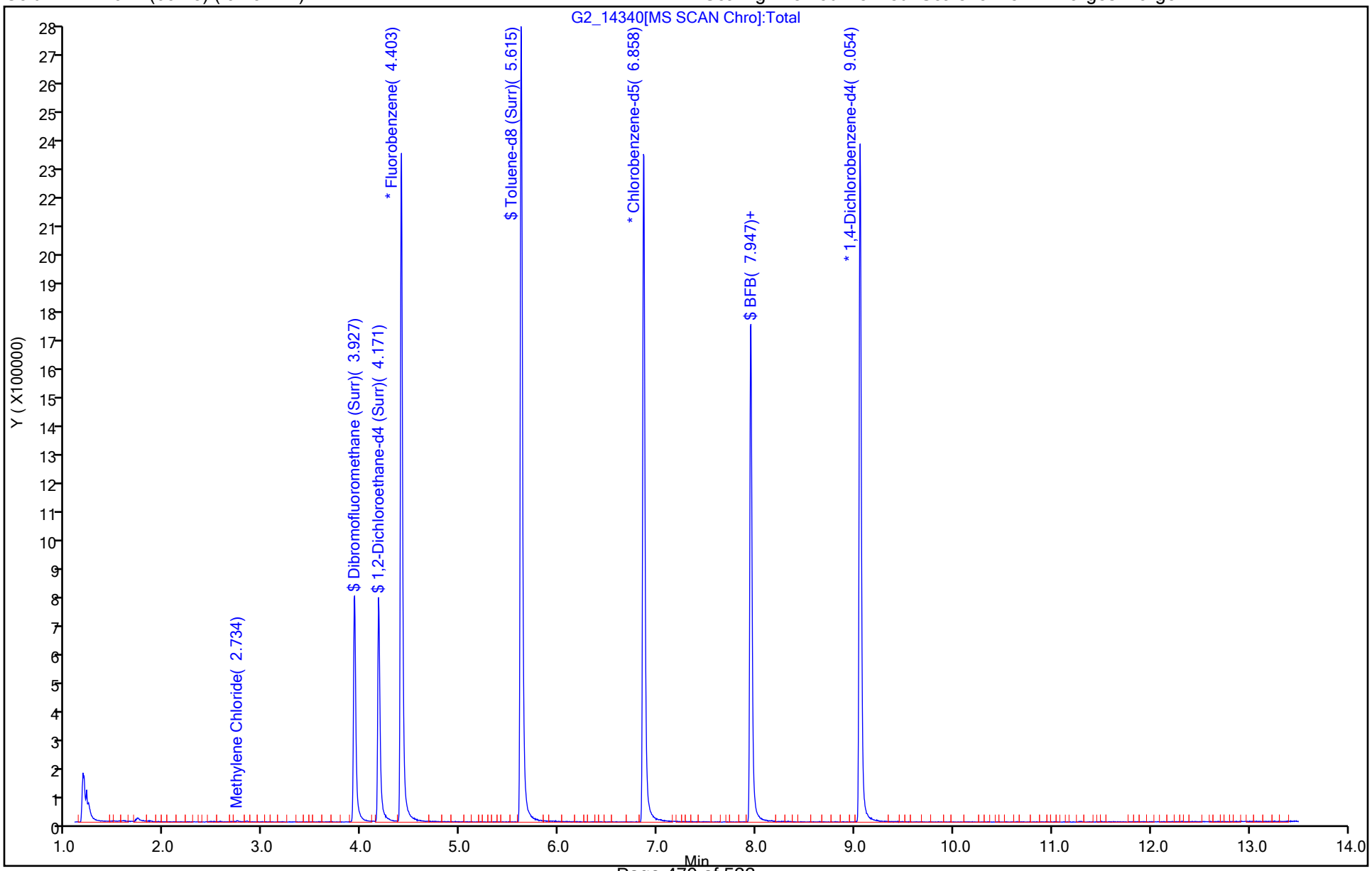
Report Date: 01-Aug-2024 12:28:40 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14340.D

Injection Date:	01-Aug-2024 11:26:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSG2_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



Report Date: 01-Aug-2024 12:28:40 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14340.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2024 11:26:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

First Level Reviewer: NNS5 Date: 01-Aug-2024 12:28:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.3	98.55
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.67
$ 6 Toluene-d8 (Surr)	50.0	50.8	101.50
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-662478/4

Matrix: Water | Lab File ID: G2_14335A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 09:43

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	50.4		1.0	0.16
71-55-6	1,1,1-Trichloroethane	49.4		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	49.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.3		1.0	0.27
75-34-3	1,1-Dichloroethane	53.2		1.0	0.22
75-35-4	1,1-Dichloroethene	50.7		1.0	0.23
563-58-6	1,1-Dichloropropene	52.5		1.0	0.19
96-18-4	1,2,3-Trichloropropane	49.6		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	52.0		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	45.7		5.0	0.42
106-93-4	1,2-Dibromoethane	50.4		1.0	0.18
95-50-1	1,2-Dichlorobenzene	51.3		1.0	0.14
107-06-2	1,2-Dichloroethane	50.7		1.0	0.28
78-87-5	1,2-Dichloropropane	53.4		1.0	0.24
541-73-1	1,3-Dichlorobenzene	53.0		1.0	0.33
142-28-9	1,3-Dichloropropane	51.8		1.0	0.17
106-46-7	1,4-Dichlorobenzene	51.3		1.0	0.39
594-20-7	2,2-Dichloropropane	53.5		1.0	0.17
78-93-3	2-Butanone (MEK)	170		10	4.6
591-78-6	2-Hexanone	189		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	191		5.0	0.98
67-64-1	Acetone	172		15	6.6
107-02-8	Acrolein	483		20	4.9
107-13-1	Acrylonitrile	459		20	1.7
107-05-1	Allyl chloride	55.3		2.0	0.46
71-43-2	Benzene	52.0		1.0	0.14
75-25-2	Bromoform	47.3		2.0	0.25
74-83-9	Bromomethane	61.6		5.0	2.4
75-15-0	Carbon disulfide	52.1		2.0	0.26
56-23-5	Carbon tetrachloride	50.9		1.0	0.23
108-90-7	Chlorobenzene	51.0		1.0	0.092
74-97-5	Chlorobromomethane	52.6		1.0	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-662478/4

Matrix: Water | Lab File ID: G2_14335A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 09:43

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Chlorodibromomethane	50.1		1.0	0.28
75-00-3	Chloroethane	47.0		2.0	0.64
67-66-3	Chloroform	50.9		1.0	0.36
74-87-3	Chloromethane	55.2		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	47.6		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	54.0		1.0	0.16
74-95-3	Dibromomethane	49.8		1.0	0.34
75-27-4	Dichlorobromomethane	52.5		1.0	0.19
75-71-8	Dichlorodifluoromethane	46.5		2.0	0.30
97-63-2	Ethyl methacrylate	47.1		3.0	0.19
100-41-4	Ethylbenzene	52.3		1.0	0.14
74-88-4	Iodomethane	48.6		5.0	2.6
78-83-1	Isobutyl alcohol	1030		110	37
75-09-2	Methylene Chloride	51.7		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	53.0		2.0	0.36
95-47-6	o-Xylene	51.4		1.0	0.11
100-42-5	Styrene	47.7		1.0	0.13
127-18-4	Tetrachloroethene	49.2		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	47.9		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	48.3		3.0	0.51
79-01-6	Trichloroethene	50.4		1.0	0.30
75-69-4	Trichlorofluoromethane	48.2		2.0	0.20
108-05-4	Vinyl acetate	129		3.0	0.36
75-01-4	Vinyl chloride	50.0		1.0	0.23
1330-20-7	Xylenes, Total	104		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-662478/4

Matrix: Water | Lab File ID: G2_14335A.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 09:43

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-127
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14335A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2024 09:43:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1890717	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	467615	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	94	747113	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	462346	50.0	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	453456	50.0	48.2	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1924762	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	90	653228	50.0	49.7	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	481930	50.0	46.5	
10 Chloromethane	50	1.536	1.536	0.000	98	543450	50.0	55.2	
11 Vinyl chloride	62	1.562	1.562	0.000	98	556309	50.0	50.0	
12 Bromomethane	94	1.791	1.791	0.000	90	392085	50.0	61.6	
13 Chloroethane	64	1.869	1.869	0.000	99	366118	50.0	47.0	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	98	812724	50.0	50.4	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	98	584989	50.0	48.2	
18 Ethyl ether	59	2.236	2.236	0.000	90	334702	50.0	53.7	
19 Acrolein	56	2.333	2.333	0.000	99	479856	493.8	482.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	96	280325	50.0	48.1	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	376211	50.0	50.7	
22 Acetone	43	2.427	2.427	0.000	100	385894	200.0	172.0	
23 Iodomethane	142	2.509	2.509	0.000	98	472737	50.0	48.6	
25 Carbon disulfide	76	2.562	2.562	0.000	99	1182655	50.0	52.1	
26 Methyl acetate	43	2.633	2.633	0.000	97	494193	100.0	89.9	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	581983	50.0	55.3	
28 Methylene Chloride	84	2.730	2.730	0.000	92	450750	50.0	51.7	
29 2-Methyl-2-propanol	59	2.782	2.782	0.000	100	401955	500.0	414.9	
30 Acrylonitrile	53	2.883	2.883	0.000	100	1561308	500.0	459.5	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	1256092	50.0	49.0	
32 trans-1,2-Dichloroethene	96	2.913	2.913	0.000	100	413823	50.0	50.4	
33 Hexane	57	3.089	3.089	0.000	90	560127	50.0	53.9	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1610709	100.0	129.4	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	777021	50.0	53.2	
39 2-Butanone (MEK)	43	3.572	3.572	0.000	99	643509	200.0	170.3	
40 cis-1,2-Dichloroethene	96	3.591	3.591	0.000	82	476881	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2,2-Dichloropropane	77	3.591	3.591	0.000	84	625007	50.0	53.5	
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	752957	1200.0	998.4	
46 Chlorobromomethane	128	3.755	3.755	0.000	96	208078	50.0	52.6	
47 Tetrahydrofuran	42	3.763	3.763	0.000	87	229592	100.0	91.5	
48 Chloroform	83	3.815	3.815	0.000	93	730856	50.0	50.9	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	619619	50.0	49.4	
50 Cyclohexane	56	3.991	3.991	0.000	89	736634	50.0	52.0	
51 Carbon tetrachloride	117	4.047	4.047	0.000	97	543902	50.0	50.9	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	98	583228	50.0	52.5	
53 Isobutyl alcohol	41	4.092	4.092	0.000	94	290139	1250.0	1033.2	
54 Benzene	78	4.193	4.193	0.000	96	1797504	50.0	52.0	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	96	504385	50.0	50.7	
57 n-Heptane	43	4.384	4.384	0.000	90	503932	50.0	57.5	
59 Trichloroethene	95	4.669	4.669	0.000	98	427132	50.0	50.4	
60 2-Pentanone	43	4.781	4.781	0.000	99	920775	160.0	156.8	
61 Methylcyclohexane	55	4.841	4.841	0.000	91	541857	50.0	53.8	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	470536	50.0	53.4	
64 1,4-Dioxane	88	4.919	4.919	0.000	92	103222	1000.0	816.2	
65 Dibromomethane	93	4.930	4.930	0.000	97	262917	50.0	49.8	
66 Dichlorobromomethane	83	5.058	5.058	0.000	100	584813	50.0	52.5	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	91	248639	50.0	44.2	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	696235	50.0	54.0	
70 4-Methyl-2-pentanone (MIBK)	43	5.503	5.503	0.000	95	1600832	200.0	191.3	
71 Toluene	91	5.675	5.675	0.000	98	1910289	50.0	51.0	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	91	654986	50.0	47.9	
73 Ethyl methacrylate	69	5.892	5.892	0.000	88	580192	50.0	47.1	
74 1,1,2-Trichloroethane	97	6.027	6.027	0.000	90	388803	50.0	48.3	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	341582	50.0	49.2	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	87	704594	50.0	51.8	
77 2-Hexanone	43	6.199	6.199	0.000	94	1092364	200.0	189.3	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	457792	50.0	50.1	
79 Ethylene Dibromide	107	6.461	6.461	0.000	98	397549	50.0	50.4	
80 1-Chlorohexane	91	6.861	6.861	0.000	61	519829	40.0	40.0	
81 Chlorobenzene	112	6.888	6.888	0.000	96	1252169	50.0	51.0	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	96	445015	50.0	50.4	
83 Ethylbenzene	106	6.970	6.970	0.000	98	685508	50.0	52.3	
84 m-Xylene & p-Xylene	106	7.086	7.086	0.000	100	810379	50.0	53.0	
85 o-Xylene	106	7.438	7.438	0.000	97	809144	50.0	51.4	
86 Styrene	104	7.457	7.457	0.000	95	1357541	50.0	47.7	
87 Bromoform	173	7.625	7.625	0.000	96	303240	50.0	47.3	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	2086207	50.0	53.5	
89 Cyclohexanone	55	7.861	7.861	0.000	90	794575	1500.0	1514.4	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	564082	50.0	49.7	
92 Bromobenzene	156	8.081	8.081	0.000	93	511350	50.0	52.5	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	84	130510	50.0	48.3	
94 1,2,3-Trichloropropane	110	8.123	8.123	0.000	84	166216	50.0	49.6	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	563780	50.0	53.8	
96 2-Chlorotoluene	126	8.261	8.261	0.000	97	485319	50.0	51.8	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1592464	50.0	52.2	
98 4-Chlorotoluene	126	8.377	8.377	0.000	96	495585	50.0	52.0	
99 tert-Butylbenzene	119	8.643	8.643	0.000	93	1415386	50.0	52.8	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	1580245	50.0	52.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	432520	50.0	53.5	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	932858	50.0	53.0	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	1708078	50.0	53.1	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	975050	50.0	51.3	
106 n-Butylbenzene	91	9.414	9.414	0.000	98	1499286	50.0	55.4	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	98	907350	50.0	51.3	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	87	105867	50.0	45.7	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	451635	50.0	52.0	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	221158	50.0	51.4	
112 Naphthalene	128	11.270	11.270	0.000	97	1110655	50.0	49.8	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	395265	50.0	49.4	
S 115 1,2-Dichloroethene, Total	1				0		100.0	97.9	
S 116 1,3-Dichloropropene, Total	1				0		100.0	101.9	
S 117 Xylenes, Total	106				0		100.0	104.4	
S 119 Trihalomethanes, Total	1				0		200.0	200.9	

Reagents:

MV-MegaMain B_00107	Amount Added: 25.00	Units: uL	
MV-Gas B_00168	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

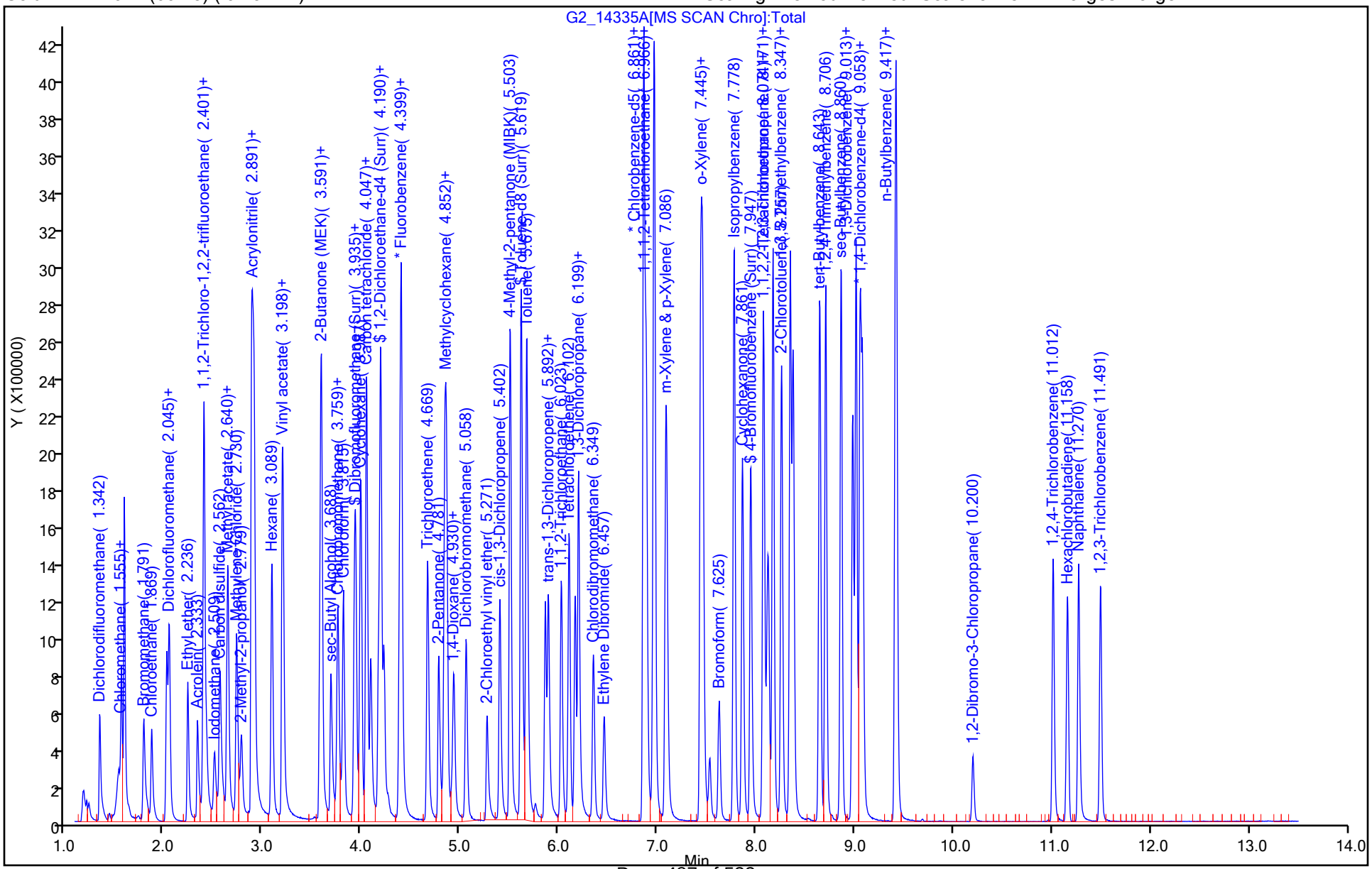
Report Date: 01-Aug-2024 12:28:23 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14335A.D

Injection Date:	01-Aug-2024 09:43:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14335A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2024 09:43:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.16
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	48.2	96.50
$ 6 Toluene-d8 (Surr)	50.0	49.7	99.41
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.7	99.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-662478/6

Matrix: Water | Lab File ID: G2_14336B.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 10:04

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-05-8	Acetonitrile	201		30	14
126-99-8	Chloroprene	24.9		3.0	0.79
126-98-7	Methacrylonitrile	257		15	5.3
80-62-6	Methyl methacrylate	43.8		4.0	1.1
107-12-0	Propionitrile	201		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336B.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2024 10:04:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.399	4.399	0.000	99	1818989	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	440410	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	95	671557	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	449344	50.0	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	450550	50.0	49.8	
$ 6 Toluene-d8 (Surr)	98	5.615	5.615	0.000	93	1858943	50.0	51.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	88	612913	50.0	51.8	
17 Ethanol	45	2.180	2.180	0.000	99	120913	1500.0	1232.9	
24 Isopropyl alcohol	45	2.524	2.524	0.000	98	89474	250.0	168.3	
27 Acetonitrile	41	2.622	2.622	0.000	99	192976	250.0	200.9	
36 Isopropyl ether	87	3.209	3.209	0.000	95	182787	25.0	25.5	
37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	293226	25.0	24.9	
38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	98	638512	25.0	25.5	
42 Ethyl acetate	43	3.595	3.595	0.000	99	354144	50.0	47.1	
43 Propionitrile	54	3.625	3.625	0.000	99	221403	250.0	201.3	
45 Methacrylonitrile	41	3.718	3.718	0.000	91	1239817	250.0	257.4	
56 Tert-amyl methyl ether	73	4.268	4.268	0.000	98	621054	25.0	24.6	
58 n-Butanol	56		4.586				625.0	ND	7
63 Methyl methacrylate	100	4.889	4.889	0.000	90	115840	50.0	43.8	
67 2-Nitropropane	41	5.222	5.222	0.000	98	86418	50.0	46.4	
90 cis-1,4-Dichloro-2-butene	53	7.838	7.838	0.000	87	126021	50.0	50.0	
105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	761302	25.0	25.6	
109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	97	236925	25.0	24.9	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MV-Supp B_00073 Amount Added: 25.00 Units: uL
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

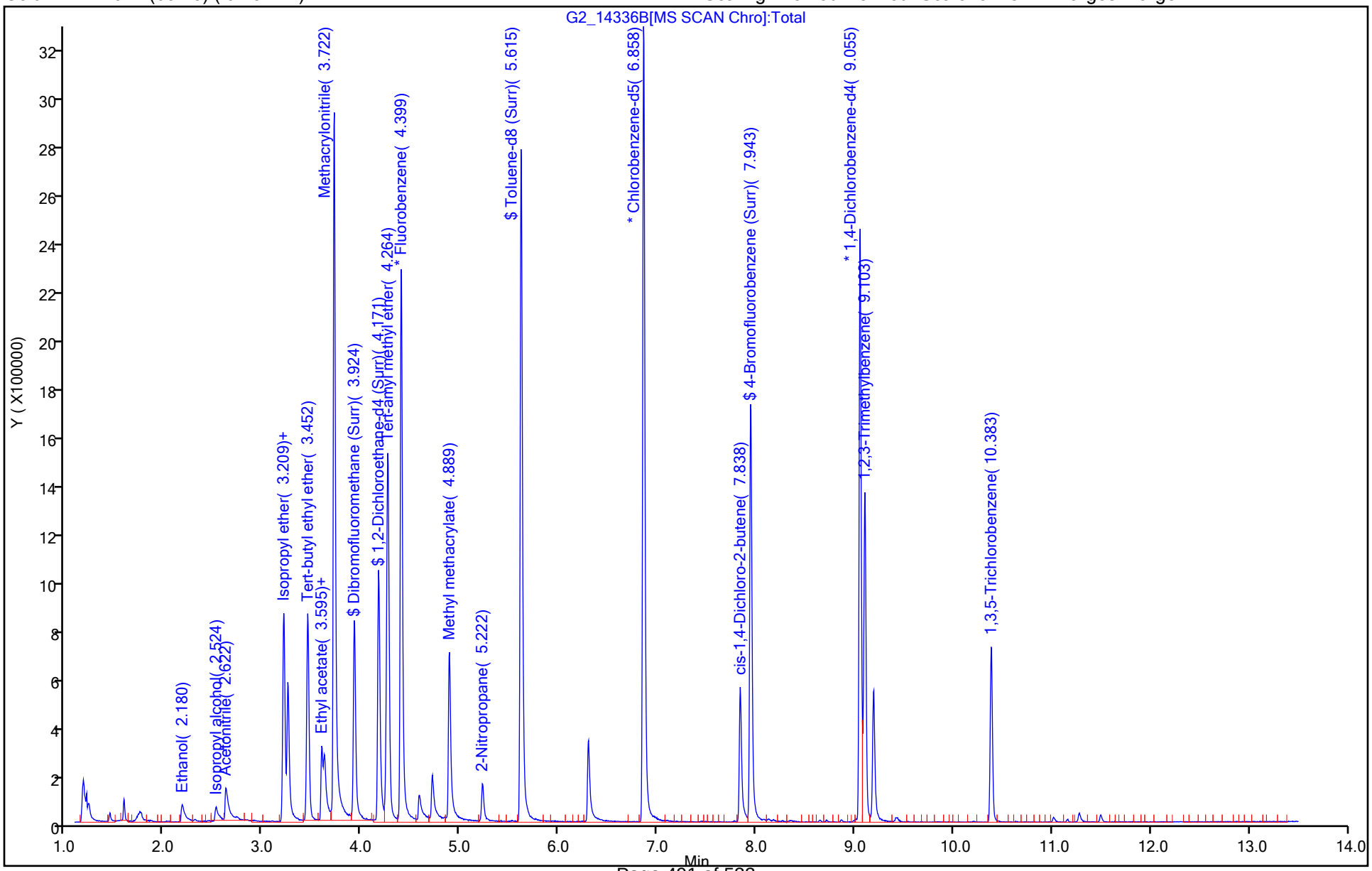
Report Date: 01-Aug-2024 12:28:35 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14336B.D

Injection Date:	01-Aug-2024 10:04:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14336B.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2024 10:04:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.17
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.8	99.66
$ 6 Toluene-d8 (Surr)	50.0	51.0	101.94
$ 7 4-Bromofluorobenzene (Surr)	50.0	51.8	103.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-662478/5

Matrix: Water | Lab File ID: G2_14337.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 10:24

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.2		1.0	0.16
71-55-6	1,1,1-Trichloroethane	48.6		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	52.2		1.0	0.21
79-00-5	1,1,2-Trichloroethane	49.9		1.0	0.27
75-34-3	1,1-Dichloroethane	51.2		1.0	0.22
75-35-4	1,1-Dichloroethene	47.2		1.0	0.23
563-58-6	1,1-Dichloropropene	50.5		1.0	0.19
96-18-4	1,2,3-Trichloropropane	51.9		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	51.8		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	47.7		5.0	0.42
106-93-4	1,2-Dibromoethane	52.3		1.0	0.18
95-50-1	1,2-Dichlorobenzene	51.1		1.0	0.14
107-06-2	1,2-Dichloroethane	52.1		1.0	0.28
78-87-5	1,2-Dichloropropane	53.2		1.0	0.24
541-73-1	1,3-Dichlorobenzene	53.0		1.0	0.33
142-28-9	1,3-Dichloropropane	53.8		1.0	0.17
106-46-7	1,4-Dichlorobenzene	51.5		1.0	0.39
594-20-7	2,2-Dichloropropane	50.1		1.0	0.17
78-93-3	2-Butanone (MEK)	179		10	4.6
591-78-6	2-Hexanone	212		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	208		5.0	0.98
67-64-1	Acetone	178		15	6.6
107-02-8	Acrolein	481		20	4.9
107-13-1	Acrylonitrile	462		20	1.7
107-05-1	Allyl chloride	53.7		2.0	0.46
71-43-2	Benzene	51.0		1.0	0.14
75-25-2	Bromoform	50.0		2.0	0.25
74-83-9	Bromomethane	57.7		5.0	2.4
75-15-0	Carbon disulfide	46.8		2.0	0.26
56-23-5	Carbon tetrachloride	49.4		1.0	0.23
108-90-7	Chlorobenzene	51.5		1.0	0.092
74-97-5	Chlorobromomethane	50.8		1.0	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-662478/5

Matrix: Water | Lab File ID: G2_14337.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 10:24

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Chlorodibromomethane	51.3		1.0	0.28
75-00-3	Chloroethane	45.0		2.0	0.64
67-66-3	Chloroform	49.8		1.0	0.36
74-87-3	Chloromethane	46.6		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	45.6		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	53.6		1.0	0.16
74-95-3	Dibromomethane	49.3		1.0	0.34
75-27-4	Dichlorobromomethane	51.9		1.0	0.19
75-71-8	Dichlorodifluoromethane	39.5		2.0	0.30
97-63-2	Ethyl methacrylate	50.6		3.0	0.19
100-41-4	Ethylbenzene	52.7		1.0	0.14
74-88-4	Iodomethane	42.3		5.0	2.6
78-83-1	Isobutyl alcohol	1160		110	37
75-09-2	Methylene Chloride	49.2		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	52.0		2.0	0.36
95-47-6	o-Xylene	52.0		1.0	0.11
100-42-5	Styrene	48.2		1.0	0.13
127-18-4	Tetrachloroethene	49.5		1.0	0.40
108-88-3	Toluene	50.0		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	48.6		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	47.9		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	51.4		3.0	0.51
79-01-6	Trichloroethene	49.2		1.0	0.30
75-69-4	Trichlorofluoromethane	47.8		2.0	0.20
108-05-4	Vinyl acetate	130		3.0	0.36
75-01-4	Vinyl chloride	46.7		1.0	0.23
1330-20-7	Xylenes, Total	104		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-662478/5

Matrix: Water | Lab File ID: G2_14337.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 10:24

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-127
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14337.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2024 10:24:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1949469	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	86	471404	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	94	763529	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	480208	50.0	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	481400	50.0	49.7	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1978905	50.0	50.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	90	670839	50.0	49.9	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	421317	50.0	39.5	
10 Chloromethane	50	1.544	1.536	0.008	98	473422	50.0	46.6	
11 Vinyl chloride	62	1.563	1.562	0.001	97	535964	50.0	46.7	
12 Bromomethane	94	1.787	1.791	-0.004	90	378444	50.0	57.7	
13 Chloroethane	64	1.869	1.869	0.000	99	361213	50.0	45.0	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	97	807739	50.0	48.5	
15 Trichlorofluoromethane	101	2.045	2.049	-0.004	98	598029	50.0	47.8	
18 Ethyl ether	59	2.236	2.236	0.000	91	343431	50.0	53.4	
19 Acrolein	56	2.334	2.333	0.001	99	493184	493.8	481.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	96	270193	50.0	44.9	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	361408	50.0	47.2	
22 Acetone	43	2.427	2.427	0.000	100	412296	200.0	178.2	
23 Iodomethane	142	2.506	2.509	-0.003	99	418944	50.0	42.3	
25 Carbon disulfide	76	2.562	2.562	0.000	99	1095458	50.0	46.8	
26 Methyl acetate	43	2.629	2.633	-0.004	97	531750	100.0	93.7	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	93	582589	50.0	53.7	
28 Methylene Chloride	84	2.730	2.730	0.000	92	441920	50.0	49.2	
29 2-Methyl-2-propanol	59	2.779	2.782	-0.003	100	461561	500.0	461.6	
30 Acrylonitrile	53	2.884	2.883	0.001	98	1620151	500.0	462.3	
31 Methyl tert-butyl ether	73	2.895	2.898	-0.003	94	1301026	50.0	49.2	
32 trans-1,2-Dichloroethene	96	2.910	2.913	-0.003	99	411546	50.0	48.6	
33 Hexane	57	3.089	3.089	0.000	90	552755	50.0	52.8	
35 Vinyl acetate	43	3.191	3.194	-0.004	97	1666445	100.0	129.8	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	770411	50.0	51.2	
39 2-Butanone (MEK)	43	3.572	3.572	0.000	99	697323	200.0	178.8	
40 cis-1,2-Dichloroethene	96	3.587	3.591	-0.004	82	471236	50.0	45.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2,2-Dichloropropane	77	3.591	3.591	0.000	88	603725	50.0	50.1	
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	850239	1200.0	1089.1	
46 Chlorobromomethane	128	3.752	3.755	-0.003	97	207333	50.0	50.8	
47 Tetrahydrofuran	42	3.763	3.763	0.000	89	248888	100.0	96.1	
48 Chloroform	83	3.815	3.815	0.000	93	737306	50.0	49.8	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	627547	50.0	48.6	
50 Cyclohexane	56	3.991	3.991	0.000	89	745994	50.0	51.1	
51 Carbon tetrachloride	117	4.047	4.047	0.000	97	544282	50.0	49.4	
52 1,1-Dichloropropene	75	4.047	4.051	-0.004	97	578751	50.0	50.5	
53 Isobutyl alcohol	41	4.092	4.092	0.000	94	337430	1250.0	1160.4	
54 Benzene	78	4.193	4.193	0.000	97	1816818	50.0	51.0	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	535320	50.0	52.1	
57 n-Heptane	43	4.384	4.384	0.000	90	491685	50.0	54.4	
59 Trichloroethene	95	4.669	4.669	0.000	98	419933	50.0	49.2	
60 2-Pentanone	43	4.781	4.781	0.000	99	925762	160.0	152.9	
61 Methylcyclohexane	55	4.845	4.841	0.004	91	553029	50.0	53.3	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	483399	50.0	53.2	
64 1,4-Dioxane	88	4.916	4.919	-0.003	93	117556	1000.0	899.6	
65 Dibromomethane	93	4.931	4.930	0.001	97	268459	50.0	49.3	
66 Dichlorobromomethane	83	5.058	5.058	0.000	99	595862	50.0	51.9	
68 2-Chloroethyl vinyl ether	63	5.271	5.271	0.000	90	269415	50.0	46.4	
69 cis-1,3-Dichloropropene	75	5.398	5.402	-0.004	97	697778	50.0	53.6	
70 4-Methyl-2-pentanone (MIBK)	43	5.503	5.503	0.000	95	1798213	200.0	208.2	
71 Toluene	91	5.672	5.675	-0.003	98	1929667	50.0	50.0	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	92	674938	50.0	47.9	
73 Ethyl methacrylate	69	5.892	5.892	0.000	88	629496	50.0	50.6	
74 1,1,2-Trichloroethane	97	6.023	6.027	-0.004	91	414628	50.0	49.9	
75 Tetrachloroethene	164	6.102	6.102	0.000	97	346677	50.0	49.5	
76 1,3-Dichloropropane	76	6.166	6.165	0.001	88	737205	50.0	53.8	
77 2-Hexanone	43	6.199	6.199	0.000	94	1235086	200.0	212.0	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	472209	50.0	51.3	
79 Ethylene Dibromide	107	6.457	6.461	-0.004	99	416028	50.0	52.3	
80 1-Chlorohexane	91	6.858	6.861	-0.003	56	526375	40.0	40.2	
81 Chlorobenzene	112	6.884	6.888	-0.004	95	1273933	50.0	51.5	
82 1,1,1,2-Tetrachloroethane	131	6.959	6.959	0.000	97	464685	50.0	52.2	
83 Ethylbenzene	106	6.970	6.970	0.000	98	696223	50.0	52.7	
84 m-Xylene & p-Xylene	106	7.090	7.086	0.004	100	802358	50.0	52.0	
85 o-Xylene	106	7.438	7.438	0.000	96	825288	50.0	52.0	
86 Styrene	104	7.457	7.457	0.001	95	1383309	50.0	48.2	
87 Bromoform	173	7.625	7.625	0.000	96	322982	50.0	50.0	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	2107138	50.0	52.9	
89 Cyclohexanone	55	7.861	7.861	0.000	90	828593	1500.0	1566.5	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	605711	50.0	52.2	
92 Bromobenzene	156	8.078	8.081	-0.003	93	520053	50.0	52.2	
93 trans-1,4-Dichloro-2-butene	53	8.112	8.111	0.001	87	142111	50.0	51.4	
94 1,2,3-Trichloropropane	110	8.123	8.123	0.000	84	177968	50.0	51.9	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	575589	50.0	53.8	
96 2-Chlorotoluene	126	8.254	8.261	-0.007	97	498624	50.0	52.1	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1631660	50.0	52.4	
98 4-Chlorotoluene	126	8.374	8.377	-0.003	96	501272	50.0	51.5	
99 tert-Butylbenzene	119	8.643	8.643	0.000	93	1444152	50.0	52.7	
100 1,2,4-Trimethylbenzene	105	8.707	8.706	0.001	97	1619103	50.0	52.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	442093	50.0	53.5	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	953412	50.0	53.0	
103 4-Isopropyltoluene	119	9.010	9.013	-0.003	97	1741727	50.0	53.0	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	999055	50.0	51.5	
106 n-Butylbenzene	91	9.410	9.414	-0.004	98	1532945	50.0	55.4	
107 1,2-Dichlorobenzene	146	9.421	9.425	-0.004	98	923644	50.0	51.1	
108 1,2-Dibromo-3-Chloropropane	157	10.196	10.200	-0.004	87	113091	50.0	47.7	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	459444	50.0	51.8	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	218853	50.0	49.8	
112 Naphthalene	128	11.270	11.270	0.000	97	1133942	50.0	49.7	
113 1,2,3-Trichlorobenzene	180	11.491	11.494	-0.003	95	398118	50.0	48.7	
S 115 1,2-Dichloroethene, Total	1				0		100.0	94.2	
S 116 1,3-Dichloropropene, Total	1				0		100.0	101.5	
S 117 Xylenes, Total	106				0		100.0	104.0	
S 119 Trihalomethanes, Total	1				0		200.0	203.0	

Reagents:

MV-MegaMain B_00107	Amount Added: 25.00	Units: uL	
MV-Gas B_00168	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

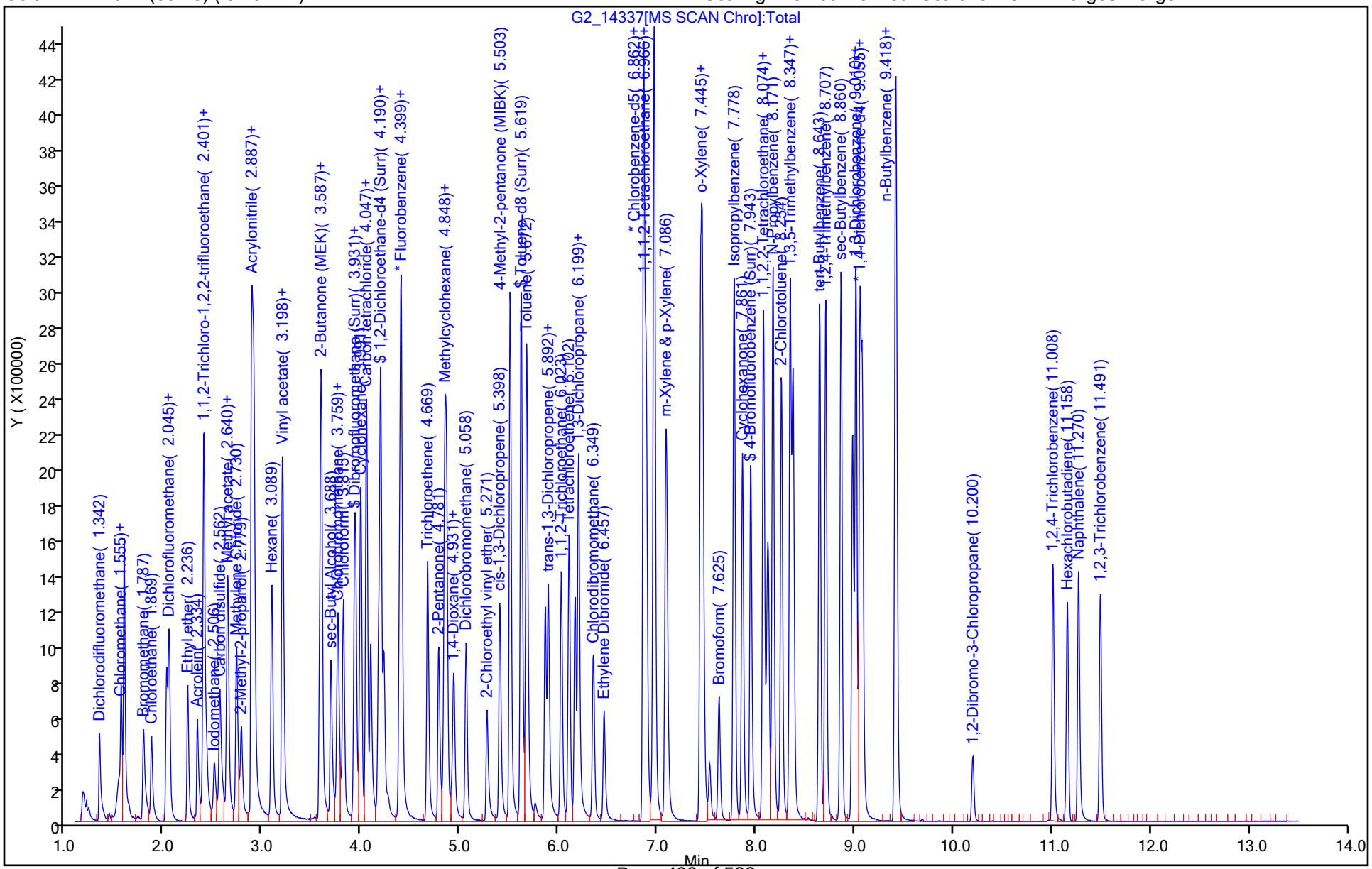
Report Date: 01-Aug-2024 12:28:29 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14337.D

Injection Date:	01-Aug-2024 10:24:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14337.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2024 10:24:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.4	98.88
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.7	99.36
$ 6 Toluene-d8 (Surr)	50.0	50.7	101.38
$ 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.: 280-194612-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-662478/7

Matrix: Water | Lab File ID: G2_14338.D

Analysis Method: 8260D | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 10:45

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-05-8	Acetonitrile	195		30	14
126-99-8	Chloroprene	24.7		3.0	0.79
126-98-7	Methacrylonitrile	262		15	5.3
80-62-6	Methyl methacrylate	42.0		4.0	1.1
107-12-0	Propionitrile	204		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	97		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14338.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2024 10:45:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD S
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	4.403	4.399	0.004	99	1925411	50.0	50.0	
*	2 Chlorobenzene-d5	119	6.858	6.862	-0.004	88	459116	50.0	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.055	9.055	0.000	96	693782	50.0	50.0	
$	4 Dibromofluoromethane (Surr)	111	3.924	3.924	0.000	93	467301	50.0	48.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	97	485525	50.0	50.7	
$	6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1942920	50.0	51.1	
$	7 4-Bromofluorobenzene (Surr)	95	7.943	7.943	0.000	89	639535	50.0	52.3	
	17 Ethanol	45	2.169	2.180	-0.011	99	127034	1500.0	1224.8	
	24 Isopropyl alcohol	45	2.517	2.524	-0.007	98	97468	250.0	173.2	
	27 Acetonitrile	41	2.618	2.622	-0.004	99	198234	250.0	195.1	
	36 Isopropyl ether	87	3.209	3.209	0.000	95	198553	25.0	26.1	
	37 2-Chloro-1,3-butadiene	53	3.250	3.250	0.000	90	308266	25.0	24.7	
	38 Tert-butyl ethyl ether	59	3.452	3.452	0.000	97	691839	25.0	26.1	
	42 Ethyl acetate	43	3.595	3.595	0.000	99	360524	50.0	45.3	
	43 Propionitrile	54	3.625	3.625	0.000	99	237256	250.0	203.5	
	45 Methacrylonitrile	41	3.718	3.718	0.000	90	1335372	250.0	261.9	
	56 Tert-amyl methyl ether	73	4.268	4.268	0.000	99	651543	25.0	24.4	
	58 n-Butanol	56		4.586				625.0	ND	7
	63 Methyl methacrylate	100	4.889	4.889	0.000	90	117240	50.0	42.0	
	67 2-Nitropropane	41	5.223	5.222	0.001	97	99589	50.0	50.5	
	90 cis-1,4-Dichloro-2-butene	53	7.842	7.838	0.004	87	138193	50.0	52.9	
	105 1,2,3-Trimethylbenzene	105	9.103	9.103	0.000	98	794150	25.0	25.8	
	109 1,3,5-Trichlorobenzene	180	10.387	10.387	0.000	96	247963	25.0	25.2	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MV-Supp B_00073 Amount Added: 25.00 Units: uL
mv-IS_SS_00084 Amount Added: 5.00 Units: uL Run Reagent

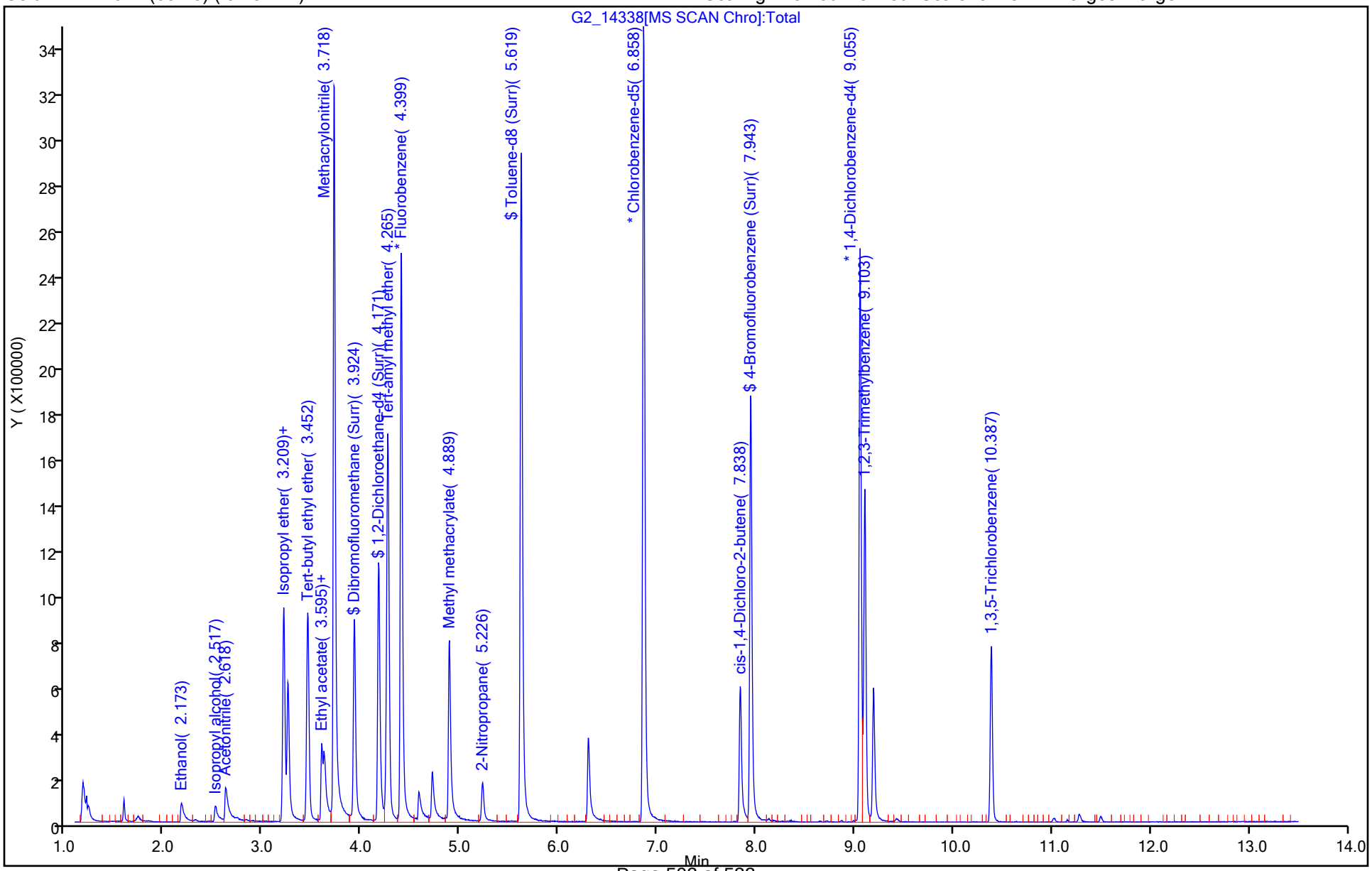
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Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14338.D

Injection Date:	01-Aug-2024 10:45:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	LCSD			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14338.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2024 10:45:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD S
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 12:28:22 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1679

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.7	97.43
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.46
$ 6 Toluene-d8 (Surr)	50.0	51.1	102.20
$ 7 4-Bromofluorobenzene (Surr)	50.0	52.3	104.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MS | Lab Sample ID: 280-194612-3 MS

Matrix: Water | Lab File ID: G2_14356.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:02

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	50.3		1.0	0.16
71-55-6	1,1,1-Trichloroethane	46.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	55.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	49.4		1.0	0.27
75-34-3	1,1-Dichloroethane	49.1		1.0	0.22
75-35-4	1,1-Dichloroethene	43.1		1.0	0.23
563-58-6	1,1-Dichloropropene	48.0		1.0	0.19
96-18-4	1,2,3-Trichloropropane	53.6		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	52.7		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	53.0		5.0	0.42
106-93-4	1,2-Dibromoethane	51.5		1.0	0.18
95-50-1	1,2-Dichlorobenzene	50.5		1.0	0.14
107-06-2	1,2-Dichloroethane	48.9		1.0	0.28
78-87-5	1,2-Dichloropropane	51.2		1.0	0.24
541-73-1	1,3-Dichlorobenzene	51.2		1.0	0.33
142-28-9	1,3-Dichloropropane	53.1		1.0	0.17
106-46-7	1,4-Dichlorobenzene	48.6		1.0	0.39
594-20-7	2,2-Dichloropropane	43.0		1.0	0.17
78-93-3	2-Butanone (MEK)	200		10	4.6
591-78-6	2-Hexanone	236		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	226		5.0	0.98
67-64-1	Acetone	193		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	469		20	4.9
107-13-1	Acrylonitrile	505		20	1.7
107-05-1	Allyl chloride	50.4		2.0	0.46
71-43-2	Benzene	48.6		1.0	0.14
75-25-2	Bromoform	49.6		2.0	0.25
74-83-9	Bromomethane	57.7		5.0	2.4
75-15-0	Carbon disulfide	42.1		2.0	0.26
56-23-5	Carbon tetrachloride	46.0		1.0	0.23
108-90-7	Chlorobenzene	49.7		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MS | Lab Sample ID: 280-194612-3 MS

Matrix: Water | Lab File ID: G2_14356.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:02

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	48.2		1.0	0.40
124-48-1	Chlorodibromomethane	50.4		1.0	0.28
75-00-3	Chloroethane	44.4		2.0	0.64
67-66-3	Chloroform	47.7		1.0	0.36
74-87-3	Chloromethane	44.2		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	43.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	50.7		1.0	0.16
74-95-3	Dibromomethane	48.7		1.0	0.34
75-27-4	Dichlorobromomethane	49.7		1.0	0.19
75-71-8	Dichlorodifluoromethane	39.8		2.0	0.30
97-63-2	Ethyl methacrylate	51.7		3.0	0.19
100-41-4	Ethylbenzene	49.7		1.0	0.14
74-88-4	Iodomethane	36.6		5.0	2.6
78-83-1	Isobutyl alcohol	1440		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
75-09-2	Methylene Chloride	45.9		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.8		2.0	0.36
95-47-6	o-Xylene	49.9		1.0	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	46.7		1.0	0.13
127-18-4	Tetrachloroethene	47.1		1.0	0.40
108-88-3	Toluene	47.8		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.1		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	45.6		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	50.8		3.0	0.51
79-01-6	Trichloroethene	48.8		1.0	0.30
75-69-4	Trichlorofluoromethane	43.1		2.0	0.20
108-05-4	Vinyl acetate	131		3.0	0.36
75-01-4	Vinyl chloride	46.3		1.0	0.23
1330-20-7	Xylenes, Total	99.7		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MS | Lab Sample ID: 280-194612-3 MS

Matrix: Water | Lab File ID: G2_14356.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:02

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-125

Report Date: 01-Aug-2024 18:01:54 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14356.D
Lims ID: 280-194612-B-3 MS
Client ID: PA-3-20240725
Sample Type: MS
Inject. Date: 01-Aug-2024 17:02:30 ALS Bottle#: 22 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-b-3 ms
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 18:00:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1869796	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.858	6.862	-0.004	86	452712	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	94	733607	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	455787	50.0	48.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	471075	50.0	50.7	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1886024	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	90	646154	50.0	50.0	
$ 8 BFB	95	7.947	7.943	0.004	90	647866		NR	
9 Dichlorodifluoromethane	85	1.342	1.342	0.000	99	407418	50.0	39.8	
10 Chloromethane	50	1.551	1.536	0.015	88	431182	50.0	44.2	
11 Vinyl chloride	62	1.563	1.562	0.000	98	509009	50.0	46.3	
12 Bromomethane	94	1.783	1.791	-0.008	90	363000	50.0	57.7	
13 Chloroethane	64	1.866	1.869	-0.003	99	341707	50.0	44.4	
14 Dichlorofluoromethane	67	2.019	2.023	-0.004	97	722738	50.0	45.3	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	99	517509	50.0	43.1	
17 Ethanol	45		2.180					ND	U
18 Ethyl ether	59	2.236	2.236	0.000	91	316097	50.0	51.3	
19 Acrolein	56	2.333	2.333	0.000	99	460770	493.8	469.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	96	232004	50.0	40.2	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	316594	50.0	43.1	
22 Acetone	43	2.427	2.427	0.000	99	427704	200.0	192.8	
23 Iodomethane	142	2.506	2.509	-0.003	98	343827	50.0	36.6	
24 Isopropyl alcohol	45		2.524					ND	U
25 Carbon disulfide	76	2.562	2.562	0.000	99	945220	50.0	42.1	
27 Acetonitrile	41		2.622					ND	
26 Methyl acetate	43	2.633	2.633	0.000	97	541911	100.0	99.4	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	94	525043	50.0	50.4	
28 Methylene Chloride	84	2.730	2.730	0.000	92	395941	50.0	45.9	
29 2-Methyl-2-propanol	59	2.782	2.782	0.000	100	548238	500.0	570.8	
30 Acrylonitrile	53	2.884	2.883	0.001	99	1702016	500.0	504.9	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	1260793	50.0	49.7	
32 trans-1,2-Dichloroethene	96	2.913	2.913	0.000	99	374268	50.0	46.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.089	3.089	0.000	89	441004	50.0	43.9	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1607793	100.0	130.6	
34 1,1-Dichloroethane	63	3.202	3.202	0.000	96	708694	50.0	49.1	
36 Isopropyl ether	87		3.209					ND	U
37 2-Chloro-1,3-butadiene	53		3.250					ND	
38 Tert-butyl ethyl ether	59		3.452					ND	
39 2-Butanone (MEK)	43	3.576	3.572	0.004	99	750940	200.0	200.2	
40 cis-1,2-Dichloroethene	96	3.591	3.591	0.000	82	429749	50.0	43.4	
41 2,2-Dichloropropane	77	3.591	3.591	0.000	86	496708	50.0	43.0	
42 Ethyl acetate	43		3.595					ND	
43 Propionitrile	54		3.625					ND	U
44 sec-Butyl Alcohol	45	3.688	3.688	0.000	99	998809	1200.0	1323.7	
45 Methacrylonitrile	41		3.718					ND	
46 Chlorobromomethane	128	3.755	3.755	0.000	97	188398	50.0	48.2	
47 Tetrahydrofuran	42	3.763	3.763	0.000	88	272244	100.0	109.2	
48 Chloroform	83	3.815	3.815	0.000	93	677322	50.0	47.7	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	573218	50.0	46.3	
50 Cyclohexane	56	3.991	3.991	0.000	88	652123	50.0	46.5	
51 Carbon tetrachloride	117	4.051	4.047	0.004	97	486704	50.0	46.0	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	98	527015	50.0	48.0	
53 Isobutyl alcohol	41	4.092	4.092	0.000	94	404955	1250.0	1442.3	
54 Benzene	78	4.193	4.193	0.000	96	1660759	50.0	48.6	
55 1,2-Dichloroethane	62	4.227	4.227	0.000	97	481916	50.0	48.9	
56 Tert-amyl methyl ether	73		4.268					ND	
57 n-Heptane	43	4.388	4.384	0.004	91	404475	50.0	46.7	
58 n-Butanol	56		4.586					ND	
59 Trichloroethene	95	4.669	4.669	0.000	99	400229	50.0	48.8	
60 2-Pentanone	43	4.781	4.781	0.000	99	1092945	160.0	187.9	
61 Methylcyclohexane	55	4.844	4.841	0.003	91	475003	50.0	47.7	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	97	445515	50.0	51.2	
63 Methyl methacrylate	100		4.889					ND	
64 1,4-Dioxane	88	4.916	4.919	-0.003	92	128184	1000.0	1020.1	
65 Dibromomethane	93	4.934	4.930	0.004	97	254205	50.0	48.7	
66 Dichlorobromomethane	83	5.058	5.058	0.000	99	547604	50.0	49.7	
67 2-Nitropropane	41		5.222					ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	ND	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	633815	50.0	50.7	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.503	0.004	95	1873351	200.0	226.0	
71 Toluene	91	5.675	5.675	0.000	98	1768584	50.0	47.8	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	92	615913	50.0	45.6	
73 Ethyl methacrylate	69	5.892	5.892	0.000	87	617547	50.0	51.7	
74 1,1,2-Trichloroethane	97	6.027	6.027	0.000	91	393264	50.0	49.4	
75 Tetrachloroethene	164	6.102	6.102	0.000	98	316966	50.0	47.1	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	88	698705	50.0	53.1	
77 2-Hexanone	43	6.199	6.199	0.000	94	1321434	200.0	235.8	
78 Chlorodibromomethane	129	6.349	6.349	0.000	90	445764	50.0	50.4	
79 Ethylene Dibromide	107	6.457	6.461	-0.004	99	393685	50.0	51.5	
80 1-Chlorohexane	91	6.862	6.861	0.001	55	479590	40.0	38.2	
81 Chlorobenzene	112	6.888	6.888	0.000	95	1179603	50.0	49.7	
82 1,1,1,2-Tetrachloroethane	131	6.963	6.959	0.004	96	430048	50.0	50.3	
83 Ethylbenzene	106	6.970	6.970	0.000	98	630331	50.0	49.7	
84 m-Xylene & p-Xylene	106	7.086	7.086	0.000	100	737273	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
85 o-Xylene	106	7.438	7.438	0.000	96	760427	50.0	49.9	
86 Styrene	104	7.457	7.457	0.001	95	1286084	50.0	46.7	
87 Bromoform	173	7.625	7.625	0.000	96	307923	50.0	49.6	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	1960800	50.0	51.2	
90 cis-1,4-Dichloro-2-butene	53		7.838					ND	
89 Cyclohexanone	55	7.861	7.861	0.000	90	609206	1500.0	1199.3	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	613414	50.0	55.0	
92 Bromobenzene	156	8.078	8.081	-0.003	93	486107	50.0	50.8	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	87	134966	50.0	50.8	
94 1,2,3-Trichloropropane	110	8.123	8.123	0.000	84	176503	50.0	53.6	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	530412	50.0	51.6	
96 2-Chlorotoluene	126	8.257	8.261	-0.004	97	458449	50.0	49.8	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1513739	50.0	50.6	
98 4-Chlorotoluene	126	8.373	8.377	-0.004	96	461851	50.0	49.4	
99 tert-Butylbenzene	119	8.643	8.643	0.000	93	1347366	50.0	51.2	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	1486724	50.0	49.9	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	409456	50.0	51.6	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	884288	50.0	51.2	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	97	1625628	50.0	51.4	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	906381	50.0	48.6	
105 1,2,3-Trimethylbenzene	105		9.103					ND	7
106 n-Butylbenzene	91	9.414	9.414	0.000	98	1417283	50.0	53.3	
107 1,2-Dichlorobenzene	146	9.421	9.425	-0.004	98	876850	50.0	50.5	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	87	120522	50.0	53.0	
109 1,3,5-Trichlorobenzene	180		10.387					ND	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	449404	50.0	52.7	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	98	206527	50.0	48.9	
112 Naphthalene	128	11.270	11.270	0.000	97	1233186	50.0	56.3	
113 1,2,3-Trichlorobenzene	180	11.491	11.494	-0.003	95	412413	50.0	52.5	
114 Ethylene oxide TIC	1		0.000					ND	
S 115 1,2-Dichloroethene, Total	1				0		100.0	89.5	
S 116 1,3-Dichloropropene, Total	1				0		100.0	96.3	
S 117 Xylenes, Total	106				0		100.0	99.7	
S 118 Total BTEX	1				0			245.7	
S 119 Trihalomethanes, Total	1				0		200.0	197.5	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MV-MegaMain B_00107	Amount Added: 25.00	Units: uL	
MV-Gas B_00168	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

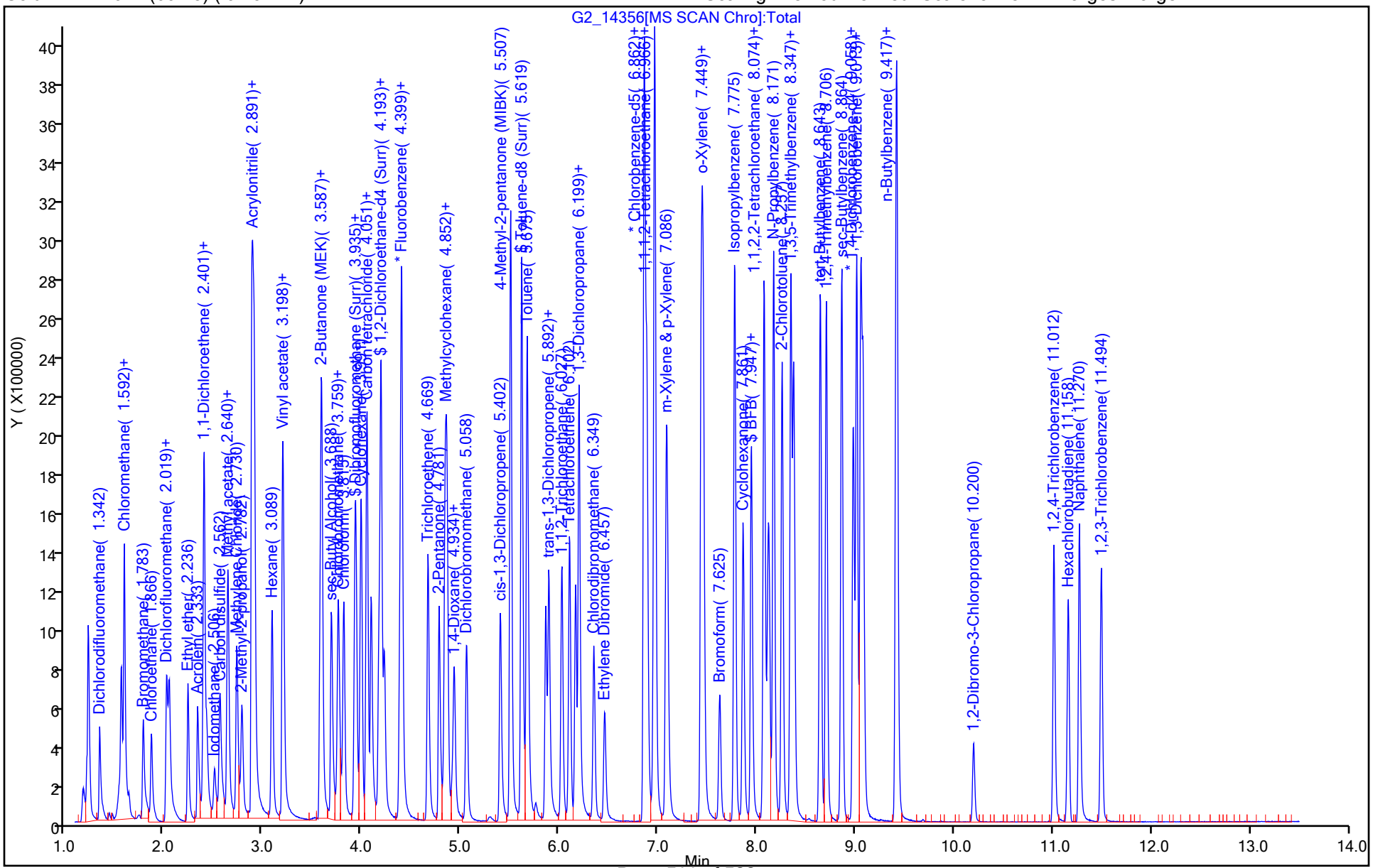
Report Date: 01-Aug-2024 18:01:54 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14356.D

Injection Date:	01-Aug-2024 17:02:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-B-3 MS			Worklist Smp#:	28
Client ID:	PA-3-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	AQ_VMSG2_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



Report Date: 01-Aug-2024 18:01:54 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14356.D
Lims ID: 280-194612-B-3 MS
Client ID: PA-3-20240725
Sample Type: MS
Inject. Date: 01-Aug-2024 17:02:30 ALS Bottle#: 22 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-b-3 ms
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 18:00:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	48.9	97.85
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.37
$ 6 Toluene-d8 (Surr)	50.0	50.3	100.61
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.0	100.04

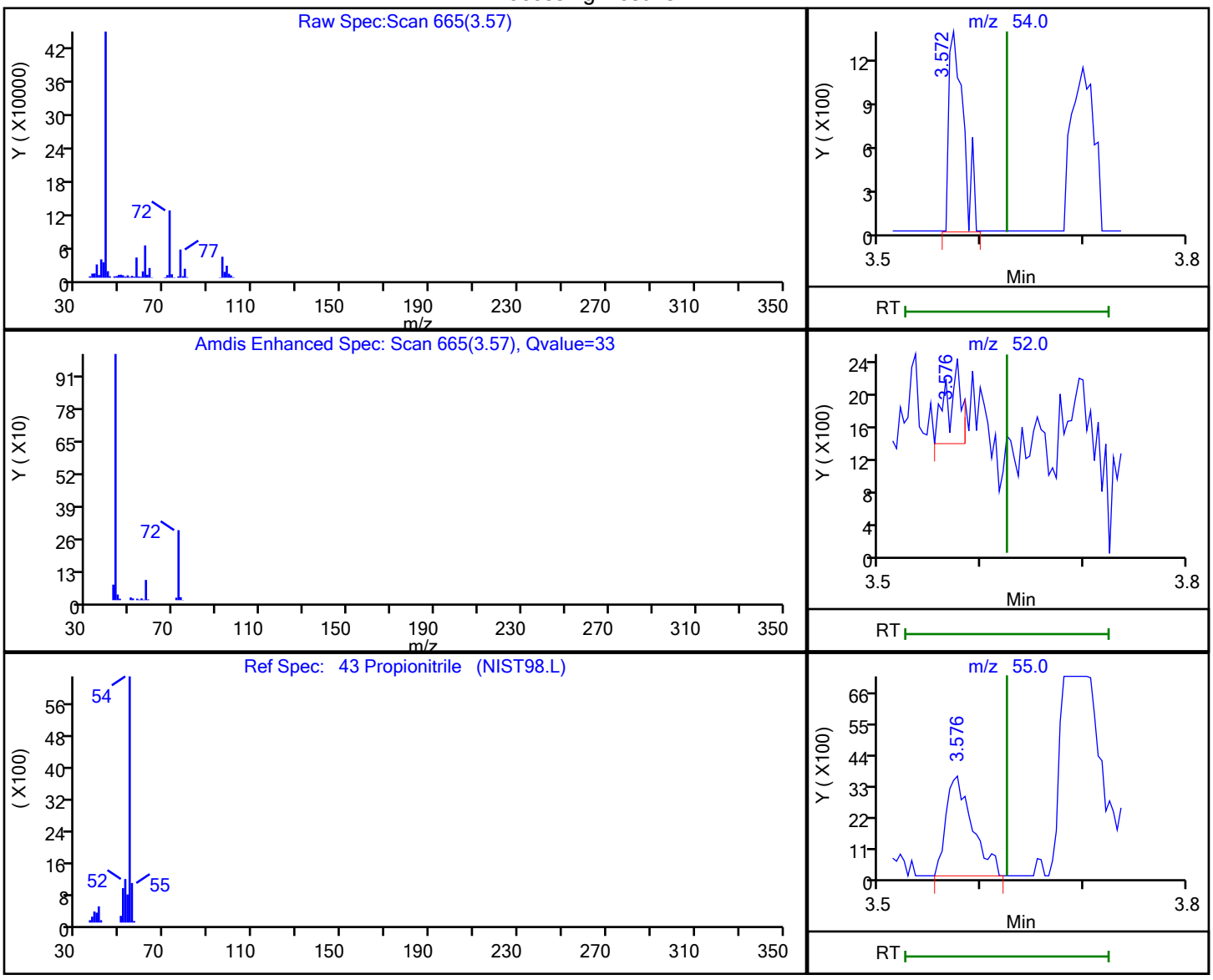
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14356.D				
Injection Date:	01-Aug-2024 17:02:30	Instrument ID:	VMS_G2		
Lims ID:	280-194612-B-3 MS				
Client ID:	PA-3-20240725				
Operator ID:	COULTER	ALS Bottle#:	22	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

43 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.57	54.00	1311	21.343472
3.58	52.00	1008	
3.58	55.00	6409	

Reviewer: LP8K, 01-Aug-2024 18:00:30 -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: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MSD | Lab Sample ID: 280-194612-3 MSD

Matrix: Water | Lab File ID: G2_14357.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:23

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	51.4		1.0	0.16
71-55-6	1,1,1-Trichloroethane	46.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	56.2		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.1		1.0	0.27
75-34-3	1,1-Dichloroethane	51.3		1.0	0.22
75-35-4	1,1-Dichloroethene	42.5		1.0	0.23
563-58-6	1,1-Dichloropropene	47.2		1.0	0.19
96-18-4	1,2,3-Trichloropropane	54.7		2.5	0.28
120-82-1	1,2,4-Trichlorobenzene	56.8		1.0	0.58
96-12-8	1,2-Dibromo-3-Chloropropane	55.8		5.0	0.42
106-93-4	1,2-Dibromoethane	52.6		1.0	0.18
95-50-1	1,2-Dichlorobenzene	52.8		1.0	0.14
107-06-2	1,2-Dichloroethane	51.4		1.0	0.28
78-87-5	1,2-Dichloropropane	53.4		1.0	0.24
541-73-1	1,3-Dichlorobenzene	53.6		1.0	0.33
142-28-9	1,3-Dichloropropane	53.8		1.0	0.17
106-46-7	1,4-Dichlorobenzene	50.1		1.0	0.39
594-20-7	2,2-Dichloropropane	43.0		1.0	0.17
78-93-3	2-Butanone (MEK)	213		10	4.6
591-78-6	2-Hexanone	237		5.0	0.81
108-10-1	4-Methyl-2-pentanone (MIBK)	235		5.0	0.98
67-64-1	Acetone	202		15	6.6
75-05-8	Acetonitrile	ND		30	14
107-02-8	Acrolein	537		20	4.9
107-13-1	Acrylonitrile	525		20	1.7
107-05-1	Allyl chloride	51.5		2.0	0.46
71-43-2	Benzene	50.4		1.0	0.14
75-25-2	Bromoform	50.8		2.0	0.25
74-83-9	Bromomethane	64.3		5.0	2.4
75-15-0	Carbon disulfide	42.8		2.0	0.26
56-23-5	Carbon tetrachloride	45.9		1.0	0.23
108-90-7	Chlorobenzene	51.6		1.0	0.092

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MSD | Lab Sample ID: 280-194612-3 MSD

Matrix: Water | Lab File ID: G2_14357.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:23

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-97-5	Chlorobromomethane	52.5		1.0	0.40
124-48-1	Chlorodibromomethane	51.4		1.0	0.28
75-00-3	Chloroethane	49.7		2.0	0.64
67-66-3	Chloroform	50.2		1.0	0.36
74-87-3	Chloromethane	53.8		2.0	0.23
126-99-8	Chloroprene	ND		3.0	0.79
156-59-2	cis-1,2-Dichloroethene	44.7		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	51.5		1.0	0.16
74-95-3	Dibromomethane	51.5		1.0	0.34
75-27-4	Dichlorobromomethane	52.0		1.0	0.19
75-71-8	Dichlorodifluoromethane	44.7		2.0	0.30
97-63-2	Ethyl methacrylate	52.6		3.0	0.19
100-41-4	Ethylbenzene	52.1		1.0	0.14
74-88-4	Iodomethane	41.3		5.0	2.6
78-83-1	Isobutyl alcohol	1540		110	37
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
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	52.2		1.0	0.11
107-12-0	Propionitrile	ND		20	3.7
100-42-5	Styrene	49.0		1.0	0.13
127-18-4	Tetrachloroethene	46.8		1.0	0.40
108-88-3	Toluene	50.5		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.4		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	48.0		1.0	0.14
110-57-6	trans-1,4-Dichloro-2-butene	51.5		3.0	0.51
79-01-6	Trichloroethene	48.3		1.0	0.30
75-69-4	Trichlorofluoromethane	48.6		2.0	0.20
108-05-4	Vinyl acetate	133		3.0	0.36
75-01-4	Vinyl chloride	52.6		1.0	0.23
1330-20-7	Xylenes, Total	105		1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver | Job No.: 280-194612-1

SDG No.:

Client Sample ID: PA-3-20240725 MSD | Lab Sample ID: 280-194612-3 MSD

Matrix: Water | Lab File ID: G2_14357.D

Analysis Method: 8260D | Date Collected: 07/25/2024 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2024 17:23

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.: 662478 | Units: ug/L

Preparation Batch No.: | Instrument ID: VMS_G2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-125

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14357.D
Lims ID: 280-194612-A-3 MSD
Client ID: PA-3-20240725
Sample Type: MSD
Inject. Date: 01-Aug-2024 17:23:30 ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-194612-a-3 msd
Operator ID: COULTER Instrument ID: VMS_G2

Method: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2024 18:01:08 Calib Date: 30-Jul-2024 18:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: LP8K Date: 01-Aug-2024 18:01:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.403	4.399	0.004	99	1795442	50.0	50.0	
* 2 Chlorobenzene-d5	119	6.862	6.862	0.000	87	449451	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.054	9.055	-0.001	94	738749	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.928	3.924	0.004	93	442802	50.0	49.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.171	4.171	0.000	96	452193	50.0	50.7	
$ 6 Toluene-d8 (Surr)	98	5.619	5.615	0.004	93	1849891	50.0	49.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.947	7.943	0.004	90	638151	50.0	49.1	
$ 8 BFB	95	7.947	7.943	0.004	90	640083		NR	
9 Dichlorodifluoromethane	85	1.345	1.342	0.003	99	439333	50.0	44.7	
10 Chloromethane	50	1.555	1.536	0.019	80	503282	50.0	53.8	
11 Vinyl chloride	62	1.562	1.562	0.000	98	555749	50.0	52.6	
12 Bromomethane	94	1.787	1.791	-0.004	90	388572	50.0	64.3	
13 Chloroethane	64	1.869	1.869	0.000	99	366938	50.0	49.7	
14 Dichlorofluoromethane	67	2.023	2.023	0.000	97	790004	50.0	51.5	
15 Trichlorofluoromethane	101	2.049	2.049	0.000	98	560047	50.0	48.6	
17 Ethanol	45		2.180					ND	
18 Ethyl ether	59	2.240	2.236	0.004	90	312183	50.0	52.7	
19 Acrolein	56	2.337	2.333	0.004	99	508805	493.8	537.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.401	2.401	0.000	96	206526	50.0	37.3	
21 1,1-Dichloroethene	96	2.401	2.401	0.000	98	299167	50.0	42.5	
22 Acetone	43	2.431	2.427	0.004	99	430446	200.0	202.1	
23 Iodomethane	142	2.509	2.509	0.000	98	376031	50.0	41.3	
24 Isopropyl alcohol	45		2.524					ND	U
25 Carbon disulfide	76	2.562	2.562	0.000	99	922714	50.0	42.8	
27 Acetonitrile	41		2.622					ND	
26 Methyl acetate	43	2.637	2.633	0.004	97	572233	100.0	109.1	
16 3-Chloro-1-propene	41	2.644	2.644	0.000	94	514616	50.0	51.5	
28 Methylene Chloride	84	2.734	2.730	0.004	92	403380	50.0	48.7	
29 2-Methyl-2-propanol	59	2.786	2.782	0.004	100	560591	500.0	607.6	
30 Acrylonitrile	53	2.884	2.883	0.001	99	1699983	500.0	524.6	
31 Methyl tert-butyl ether	73	2.898	2.898	0.000	94	1251373	50.0	51.4	
32 trans-1,2-Dichloroethene	96	2.913	2.913	0.000	99	362313	50.0	46.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57	3.089	3.089	0.000	90	391911	50.0	39.3	
35 Vinyl acetate	43	3.194	3.194	0.000	97	1571638	100.0	132.9	
34 1,1-Dichloroethane	63	3.205	3.202	0.003	96	711070	50.0	51.3	
36 Isopropyl ether	87		3.209					ND	U
37 2-Chloro-1,3-butadiene	53		3.250					ND	
38 Tert-butyl ethyl ether	59		3.452					ND	
39 2-Butanone (MEK)	43	3.576	3.572	0.004	99	767036	200.0	212.7	
40 cis-1,2-Dichloroethene	96	3.591	3.591	0.000	82	425356	50.0	44.7	
41 2,2-Dichloropropane	77	3.595	3.591	0.004	84	477982	50.0	43.0	
42 Ethyl acetate	43		3.595					ND	
43 Propionitrile	54		3.625					ND	U
44 sec-Butyl Alcohol	45	3.692	3.688	0.004	99	1037494	1200.0	1428.1	
45 Methacrylonitrile	41		3.718					ND	
46 Chlorobromomethane	128	3.759	3.755	0.004	96	197126	50.0	52.5	
47 Tetrahydrofuran	42	3.767	3.763	0.004	89	272100	100.0	113.6	
48 Chloroform	83	3.815	3.815	0.000	93	683688	50.0	50.2	
49 1,1,1-Trichloroethane	97	3.939	3.939	0.000	98	551332	50.0	46.3	
50 Cyclohexane	56	3.991	3.991	0.000	88	583630	50.0	43.4	
51 Carbon tetrachloride	117	4.047	4.047	0.000	96	466593	50.0	45.9	
52 1,1-Dichloropropene	75	4.051	4.051	0.000	98	497785	50.0	47.2	
53 Isobutyl alcohol	41	4.096	4.092	0.004	95	415202	1250.0	1537.4	
54 Benzene	78	4.193	4.193	0.000	96	1654705	50.0	50.4	
55 1,2-Dichloroethane	62	4.231	4.227	0.004	97	485928	50.0	51.4	
56 Tert-amyl methyl ether	73		4.268					ND	U
57 n-Heptane	43	4.388	4.384	0.004	90	365551	50.0	43.9	
58 n-Butanol	56		4.586					ND	
59 Trichloroethene	95	4.669	4.669	0.000	98	393453	50.0	48.3	
60 2-Pentanone	43	4.781	4.781	0.000	99	1096947	160.0	196.3	
61 Methylcyclohexane	55	4.844	4.841	0.003	90	436718	50.0	45.7	
62 1,2-Dichloropropane	63	4.863	4.863	0.000	98	446178	50.0	53.4	
63 Methyl methacrylate	100		4.889					ND	
64 1,4-Dioxane	88	4.916	4.919	-0.003	91	131740	1000.0	1090.5	
65 Dibromomethane	93	4.934	4.930	0.004	96	258426	50.0	51.5	
66 Dichlorobromomethane	83	5.061	5.058	0.003	100	549967	50.0	52.0	
67 2-Nitropropane	41		5.222					ND	
68 2-Chloroethyl vinyl ether	63		5.271				ND	ND	
69 cis-1,3-Dichloropropene	75	5.402	5.402	0.000	97	638151	50.0	51.5	
70 4-Methyl-2-pentanone (MIBK)	43	5.507	5.503	0.004	95	1867560	200.0	234.6	
71 Toluene	91	5.675	5.675	0.000	98	1797602	50.0	50.5	
72 trans-1,3-Dichloropropene	75	5.862	5.862	0.000	91	622802	50.0	48.0	
73 Ethyl methacrylate	69	5.896	5.892	0.004	88	624602	50.0	52.6	
74 1,1,2-Trichloroethane	97	6.027	6.027	0.000	90	398691	50.0	52.1	
75 Tetrachloroethene	164	6.106	6.102	0.004	98	312518	50.0	46.8	
76 1,3-Dichloropropane	76	6.165	6.165	0.000	89	703187	50.0	53.8	
77 2-Hexanone	43	6.199	6.199	0.000	94	1315773	200.0	236.5	
78 Chlorodibromomethane	129	6.353	6.349	0.004	90	451106	50.0	51.4	
79 Ethylene Dibromide	107	6.457	6.461	-0.004	99	398542	50.0	52.6	
80 1-Chlorohexane	91	6.862	6.861	0.001	94	466269	40.0	37.4	
81 Chlorobenzene	112	6.888	6.888	0.000	95	1216660	50.0	51.6	
82 1,1,1,2-Tetrachloroethane	131	6.963	6.959	0.004	97	436148	50.0	51.4	
83 Ethylbenzene	106	6.970	6.970	0.000	98	656604	50.0	52.1	
84 m-Xylene & p-Xylene	106	7.090	7.086	0.004	99	774843	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
85 o-Xylene	106	7.438	7.438	0.000	97	790307	50.0	52.2	
86 Styrene	104	7.457	7.457	0.001	95	1339336	50.0	49.0	
87 Bromoform	173	7.625	7.625	0.000	96	313139	50.0	50.8	
88 Isopropylbenzene	105	7.778	7.778	0.000	96	2002537	50.0	52.0	
90 cis-1,4-Dichloro-2-butene	53		7.838					ND	
89 Cyclohexanone	55	7.861	7.861	0.000	90	622263	1500.0	1233.9	
91 1,1,2,2-Tetrachloroethane	83	8.070	8.070	0.000	94	630821	50.0	56.2	
92 Bromobenzene	156	8.078	8.081	-0.003	93	500475	50.0	51.9	
93 trans-1,4-Dichloro-2-butene	53	8.111	8.111	0.000	86	137878	50.0	51.5	
94 1,2,3-Trichloropropane	110	8.126	8.123	0.003	84	181286	50.0	54.7	
95 N-Propylbenzene	120	8.171	8.171	0.000	99	550553	50.0	53.2	
96 2-Chlorotoluene	126	8.257	8.261	-0.004	97	485537	50.0	52.4	
97 1,3,5-Trimethylbenzene	105	8.347	8.347	0.000	94	1573324	50.0	52.2	
98 4-Chlorotoluene	126	8.377	8.377	0.000	96	506324	50.0	53.8	
99 tert-Butylbenzene	119	8.647	8.643	0.004	93	1381210	50.0	52.1	
100 1,2,4-Trimethylbenzene	105	8.706	8.706	0.000	97	1569851	50.0	52.3	
101 sec-Butylbenzene	134	8.864	8.864	0.000	94	419758	50.0	52.5	
102 1,3-Dichlorobenzene	146	8.980	8.980	0.000	98	931560	50.0	53.6	
103 4-Isopropyltoluene	119	9.013	9.013	0.000	98	1662805	50.0	52.3	
104 1,4-Dichlorobenzene	146	9.077	9.077	0.000	95	939885	50.0	50.1	
105 1,2,3-Trimethylbenzene	105		9.103					ND	U
106 n-Butylbenzene	91	9.414	9.414	0.000	98	1464330	50.0	54.7	
107 1,2-Dichlorobenzene	146	9.425	9.425	0.000	97	922886	50.0	52.8	
108 1,2-Dibromo-3-Chloropropane	157	10.200	10.200	0.000	88	127949	50.0	55.8	
109 1,3,5-Trichlorobenzene	180		10.387					ND	
110 1,2,4-Trichlorobenzene	180	11.012	11.012	0.000	94	488011	50.0	56.8	
111 Hexachlorobutadiene	225	11.158	11.158	0.000	97	217288	50.0	51.1	
112 Naphthalene	128	11.270	11.270	0.000	97	1336440	50.0	60.6	
113 1,2,3-Trichlorobenzene	180	11.494	11.494	0.000	95	445070	50.0	56.2	
114 Ethylene oxide TIC	1		0.000					ND	
S 115 1,2-Dichloroethene, Total	1				0		100.0	91.2	
S 116 1,3-Dichloropropene, Total	1				0		100.0	99.5	
S 117 Xylenes, Total	106				0		100.0	104.9	
S 118 Total BTEX	1				0			258.0	
S 119 Trihalomethanes, Total	1				0		200.0	204.4	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- U - Marked Undetected

Reagents:

MV-MegaMain B_00107	Amount Added: 25.00	Units: uL	
MV-Gas B_00168	Amount Added: 10.00	Units: uL	
mv-IS_SS_00084	Amount Added: 5.00	Units: uL	Run Reagent

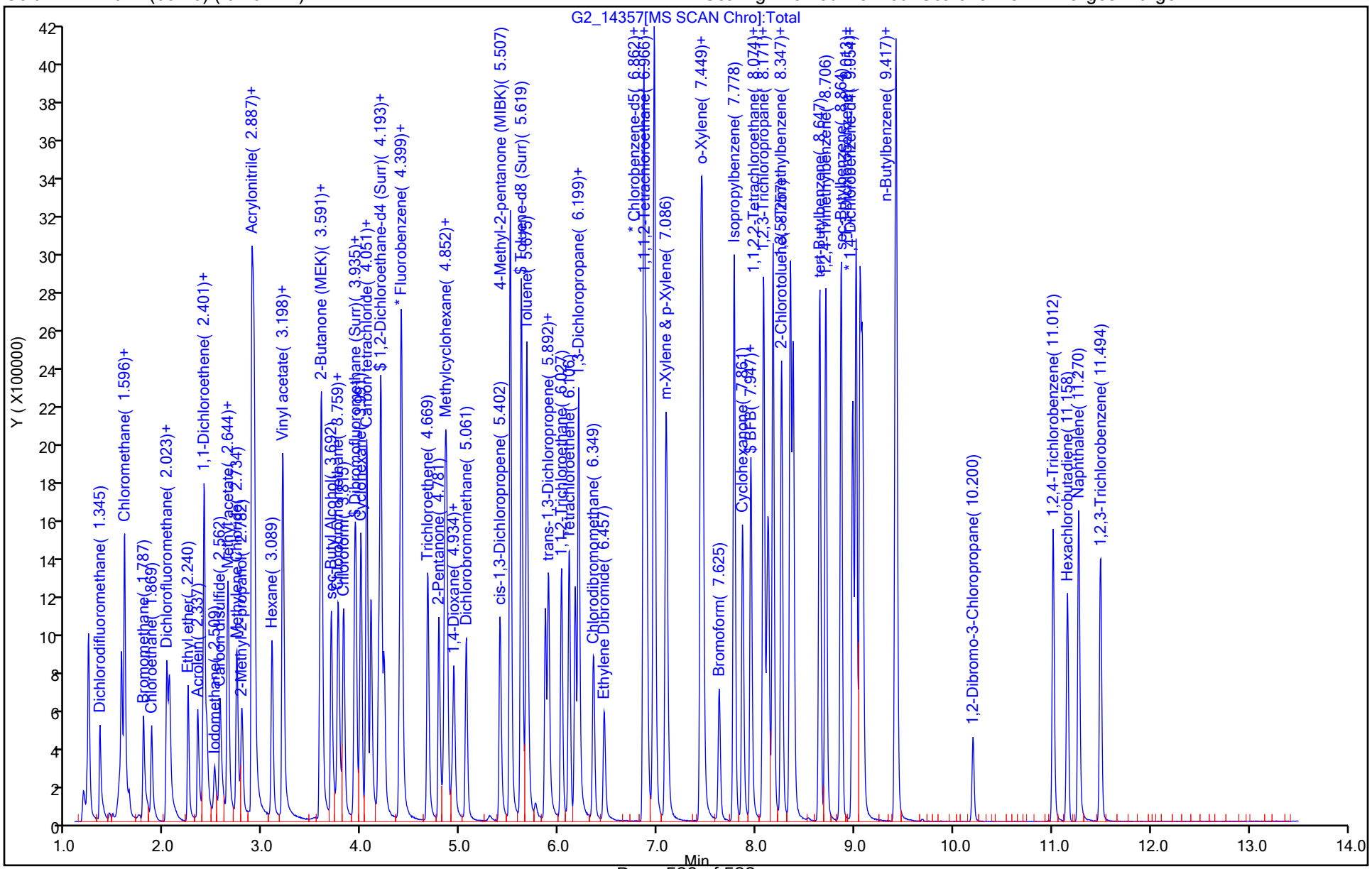
Report Date: 01-Aug-2024 18:01:59 Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14357.D

Injection Date:	01-Aug-2024 17:23:30	Instrument ID:	VMS_G2	Operator ID:	COULTER
Lims ID:	280-194612-A-3 MSD			Worklist Smp#:	29
Client ID:	PA-3-20240725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	AQ_VMSG2_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_G2\20240801-136063.b\G2_14357.D				
Lims ID:	280-194612-A-3 MSD				
Client ID:	PA-3-20240725				
Sample Type:	MSD				
Inject. Date:	01-Aug-2024 17:23:30	ALS Bottle#:	23	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-194612-a-3 msd				
Operator ID:	COULTER	Instrument ID:	VMS_G2		
Method:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\AQ_VMSG2_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	01-Aug-2024 18:01:08	Calib Date:	30-Jul-2024 18:59:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_G2\20240730-135973.b\G2_14250.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: LP8K Date: 01-Aug-2024 18:01:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.5	99.00
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.34
$ 6 Toluene-d8 (Surr)	50.0	49.7	99.40
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.1	98.11

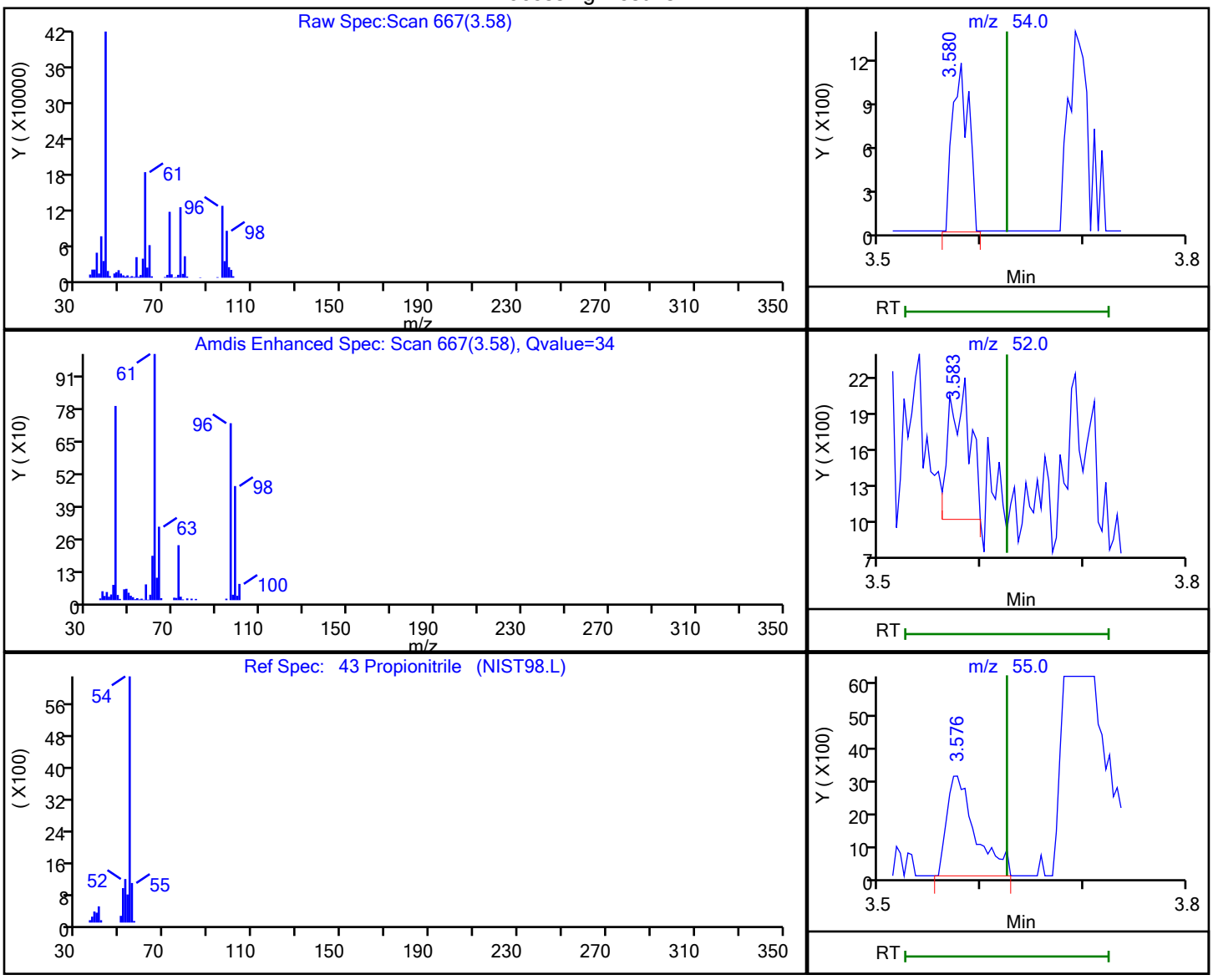
User Disabled Compound Report

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\VMS_G2\20240801-136063.b\G2_14357.D				
Injection Date:	01-Aug-2024 17:23:30	Instrument ID:	VMS_G2		
Lims ID:	280-194612-A-3 MSD				
Client ID:	PA-3-20240725				
Operator ID:	COULTER	ALS Bottle#:	23	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSG2_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

43 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.58	54.00	1252	21.337784
3.58	52.00	1571	
3.58	55.00	5982	

Reviewer: LP8K, 01-Aug-2024 18:00:52 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 07/30/2024 09:38

Analysis Batch Number: 662184 End Date: 07/30/2024 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-662184/1		07/30/2024 09:38	1	G2_14229.D	DB-624 (60.25) 0.25(mm)
STD05 280-662184/27 IC		07/30/2024 11:58	1	G2_14230.D	DB-624 (60.25) 0.25(mm)
STD1 280-662184/28 IC		07/30/2024 12:19	1	G2_14231.D	DB-624 (60.25) 0.25(mm)
STD2 280-662184/29 IC		07/30/2024 12:40	1	G2_14232.D	DB-624 (60.25) 0.25(mm)
STD5 280-662184/30 IC		07/30/2024 13:01	1	G2_14233.D	DB-624 (60.25) 0.25(mm)
STD10 280-662184/31 IC		07/30/2024 13:22	1	G2_14234.D	DB-624 (60.25) 0.25(mm)
ICIS 280-662184/32		07/30/2024 13:43	1	G2_14235.D	DB-624 (60.25) 0.25(mm)
STD75 280-662184/33 IC		07/30/2024 14:04	1	G2_14236.D	DB-624 (60.25) 0.25(mm)
STD100 280-662184/34 IC		07/30/2024 14:25	1	G2_14237.D	DB-624 (60.25) 0.25(mm)
STD200 280-662184/35 IC		07/30/2024 14:46	1	G2_14238.D	DB-624 (60.25) 0.25(mm)
ICV 280-662184/37		07/30/2024 15:29	1	G2_14240.D	DB-624 (60.25) 0.25(mm)
STD1 280-662184/39 IC		07/30/2024 16:31	1	G2_14243.D	DB-624 (60.25) 0.25(mm)
STD2 280-662184/40 IC		07/30/2024 16:52	1	G2_14244.D	DB-624 (60.25) 0.25(mm)
STD5 280-662184/41 IC		07/30/2024 17:13	1	G2_14245.D	DB-624 (60.25) 0.25(mm)
STD10 280-662184/42 IC		07/30/2024 17:34	1	G2_14246.D	DB-624 (60.25) 0.25(mm)
STD50 280-662184/43 IC		07/30/2024 17:56	1	G2_14247.D	DB-624 (60.25) 0.25(mm)
STD75 280-662184/44 IC		07/30/2024 18:17	1	G2_14248.D	DB-624 (60.25) 0.25(mm)
STD100 280-662184/45 IC		07/30/2024 18:38	1	G2_14249.D	DB-624 (60.25) 0.25(mm)
STD200 280-662184/46 IC		07/30/2024 18:59	1	G2_14250.D	DB-624 (60.25) 0.25(mm)
ICV 280-662184/47		07/30/2024 19:41	1	G2_14252.D	DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Instrument ID: VMS_G2 Start Date: 08/01/2024 09:12

Analysis Batch Number: 662478 End Date: 08/01/2024 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-662478/1		08/01/2024 09:12	1	G2_14334.D	DB-624 (60.25) 0.25(mm)
CCV 280-662478/2		08/01/2024 09:43	1	G2_14335.D	DB-624 (60.25) 0.25(mm)
LCS 280-662478/4		08/01/2024 09:43	1	G2_14335A.D	DB-624 (60.25) 0.25(mm)
CCV 280-662478/3		08/01/2024 10:04	1	G2_14336.D	DB-624 (60.25) 0.25(mm)
LCS 280-662478/6		08/01/2024 10:04	1	G2_14336B.D	DB-624 (60.25) 0.25(mm)
LCSD 280-662478/5		08/01/2024 10:24	1	G2_14337.D	DB-624 (60.25) 0.25(mm)
LCSD 280-662478/7		08/01/2024 10:45	1	G2_14338.D	DB-624 (60.25) 0.25(mm)
MB 280-662478/9		08/01/2024 11:26	1	G2_14340.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 11:47	1		DB-624 (60.25) 0.25(mm)
280-194612-6	TB-01-20240725	08/01/2024 12:08	1	G2_14342.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 12:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 12:50	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 13:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 13:32	1		DB-624 (60.25) 0.25(mm)
280-194612-1	PA-8-77-87-20240725	08/01/2024 13:53	1	G2_14347.D	DB-624 (60.25) 0.25(mm)
280-194612-2	PA-8-77-87-Q-20240725	08/01/2024 14:14	1	G2_14348.D	DB-624 (60.25) 0.25(mm)
280-194612-3	PA-3-20240725	08/01/2024 14:35	1	G2_14349.D	DB-624 (60.25) 0.25(mm)
280-194612-4	PA-4-100-110-20240725	08/01/2024 14:56	1	G2_14350.D	DB-624 (60.25) 0.25(mm)
280-194612-5	PA-1-20240725	08/01/2024 15:17	1	G2_14351.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 15:38	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 15:59	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 16:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 16:41	1		DB-624 (60.25) 0.25(mm)
280-194612-3 MS	PA-3-20240725 MS	08/01/2024 17:02	1	G2_14356.D	DB-624 (60.25) 0.25(mm)
280-194612-3 MSD	PA-3-20240725 MSD	08/01/2024 17:23	1	G2_14357.D	DB-624 (60.25) 0.25(mm)
CCVC 280-662478/30		08/01/2024 17:44	1		DB-624 (60.25) 0.25(mm)
CCVC 280-662478/31		08/01/2024 18:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		08/01/2024 18:48	4		DB-624 (60.25) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Batch Number: 662184 Batch Start Date: 07/30/24 09:38 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil Std B 00006	mv-Cent BFB 00008	mv-Cent IS 00008	MV-Gas A 00193
BFB 280-662184/1		8260D			5 mL	5 mL		2 uL		
STD05 280-662184/27 IC		8260D			5 mL	5 mL	5 uL			
STD1 280-662184/28 IC		8260D			5 mL	5 mL	10 uL			
STD2 280-662184/29 IC		8260D			5 mL	5 mL	20 uL			
STD5 280-662184/30 IC		8260D			5 mL	5 mL				
STD10 280-662184/31 IC		8260D			5 mL	5 mL				
ICIS 280-662184/32		8260D			5 mL	5 mL				
STD75 280-662184/33 IC		8260D			5 mL	5 mL				
STD100 280-662184/34 IC		8260D			5 mL	5 mL				
STD200 280-662184/35 IC		8260D			5 mL	5 mL				
ICV 280-662184/37		8260D			5 mL	5 mL				10 uL
STD1 280-662184/39 IC		8260D			5 mL	5 mL			5 uL	
STD2 280-662184/40 IC		8260D			5 mL	5 mL			5 uL	
STD5 280-662184/41 IC		8260D			5 mL	5 mL			5 uL	
STD10 280-662184/42 IC		8260D			5 mL	5 mL			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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Batch Number: 662184 Batch Start Date: 07/30/24 09:38 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Cal Dil Std B 00006	mv-Cent BFB 00008	mv-Cent IS 00008	MV-Gas A 00193
STD50 280-662184/43 IC		8260D			5 mL	5 mL			5 uL	
STD75 280-662184/44 IC		8260D			5 mL	5 mL			5 uL	
STD100 280-662184/45 IC		8260D			5 mL	5 mL			5 uL	
STD200 280-662184/46 IC		8260D			5 mL	5 mL			5 uL	
ICV 280-662184/47		8260D			5 mL	5 mL			5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MV-Gas B 00168	mv-IS_SS 00084	MV-MegaMain B 00107	MV-MegaMainA 00112	MV-Supp A 00094	MV-Supp B 00072
BFB 280-662184/1		8260D								
STD05 280-662184/27 IC		8260D				5 uL				
STD1 280-662184/28 IC		8260D				5 uL				
STD2 280-662184/29 IC		8260D				5 uL				
STD5 280-662184/30 IC		8260D			1 uL	5 uL	2.5 uL			
STD10 280-662184/31 IC		8260D			2 uL	5 uL	5 uL			
ICIS 280-662184/32		8260D			10 uL	5 uL	25 uL			
STD75 280-662184/33 IC		8260D			15 uL	5 uL	37.5 uL			
STD100 280-662184/34 IC		8260D			20 uL	5 uL	50 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Batch Number: 662184 Batch Start Date: 07/30/24 09:38 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MV-Gas B 00168	mv-IS_SS 00084	MV-MegaMain B 00107	MV-MegaMainA 00112	MV-Supp A 00094	MV-Supp B 00072
STD200 280-662184/35 IC		8260D			40 uL	5 uL	100 uL			
ICV 280-662184/37		8260D				5 uL		25 uL		
STD1 280-662184/39 IC		8260D								1 uL
STD2 280-662184/40 IC		8260D								2 uL
STD5 280-662184/41 IC		8260D								5 uL
STD10 280-662184/42 IC		8260D								10 uL
STD50 280-662184/43 IC		8260D								50 uL
STD75 280-662184/44 IC		8260D								75 uL
STD100 280-662184/45 IC		8260D								100 uL
STD200 280-662184/46 IC		8260D								200 uL
ICV 280-662184/47		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.: 280-194612-1

SDG No.:

Batch Number: 662478 Batch Start Date: 08/01/24 09:12 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00008	MV-Gas B 00168
BFB 280-662478/1		8260D			5 mL	5 mL			2 uL	
CCV 280-662478/2		8260D			5 mL	5 mL				10 uL
CCV 280-662478/3		8260D			5 mL	5 mL				
LCS 280-662478/4		8260D			5 mL	5 mL				10 uL
LCSD 280-662478/5		8260D			5 mL	5 mL				10 uL
LCS 280-662478/6		8260D			5 mL	5 mL				
LCSD 280-662478/7		8260D			5 mL	5 mL				
MB 280-662478/9		8260D			5 mL	5 mL				
280-194612-A-6	TB-01-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-B-1	PA-8-77-87-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-C-2	PA-8-77-87-Q-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-C-3	PA-3-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-B-4	PA-4-100-110-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-C-5	PA-1-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		
280-194612-B-3 MS	PA-3-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		10 uL
280-194612-A-3 MSD	PA-3-20240725	8260D	Water	T	5 mL	5 mL	<2 SU	No		10 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00084	MV-MegaMain B 00107	MV-Supp B 00073			
BFB 280-662478/1		8260D								
CCV 280-662478/2		8260D			5 uL	25 uL				
CCV 280-662478/3		8260D			5 uL		25 uL			
LCS 280-662478/4		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-194612-1

SDG No.:

Batch Number: 662478 Batch Start Date: 08/01/24 09:12 Batch Analyst: Coulter, Dawn (goes by Sh

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	mv-IS_SS 00084	MV-MegaMain B 00107	MV-Supp B 00073			
LCSD 280-662478/5		8260D			5 uL	25 uL				
LCS 280-662478/6		8260D			5 uL		25 uL			
LCSD 280-662478/7		8260D			5 uL		25 uL			
MB 280-662478/9		8260D			5 uL					
280-194612-A-6	TB-01-20240725	8260D	Water	T	5 uL					
280-194612-B-1	PA-8-77-87-20240725	8260D	Water	T	5 uL					
280-194612-C-2	PA-8-77-87-Q-20240725	8260D	Water	T	5 uL					
280-194612-C-3	PA-3-20240725	8260D	Water	T	5 uL					
280-194612-B-4	PA-4-100-110-20240725	8260D	Water	T	5 uL					
280-194612-C-5	PA-1-20240725	8260D	Water	T	5 uL					
280-194612-B-3 MS	PA-3-20240725	8260D	Water	T	5 uL	25 uL				
280-194612-A-3 MSD	PA-3-20240725	8260D	Water	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.

Shipping and Receiving Documents

Revised COC-280-194612
Recived by email on 7/29/24 BRV 7/29/24

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

280-194612 Chain of Custody

eurofins

Client Information	Sampler: Adria mead	Lab PM: Bieniulis, Dylan T.	Carrier Tracking No(s):	COC No: 1
Client Contact: Mary Lou Fox / Adria mead	Phone: 208-709-1159	E-Mail: Dylan.Bieniulis@et.eurofinsus.com		Page: 1 of 1
Company: CDM Smith, Inc.				Job #:
Address: 14432 S.E. Eastgate Way Suite 100	Due Date Requested:			
City: Bellvue	TAT Requested (days): 15 business days			
State, Zip: WA, 98007				
Phone: 425-519-8300 / 208-709-1159	PO #:			
Email: FoxML@cdmsmith.com / meadal@cdmsmith.com	WO #:			
Project Name: Bannock Ft. Hall Mine LF, Idaho	Project #: 28018772			
Site: Bannock Landfill	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - VOCs	8011 - EDB, DBCP, and 1,2,3-TCP	6020B - Total Metals	6020B - Dissolved Metals (Field Filtered)	7470A - Total Mercury	8270E - SVOCs	8321B - Herbicides and Pentachlorophenol	8270E_SIM - Benzo[a]pyrene	8081B - OC Pesticides	8082A - PCBs	8141B OP Pesticides	8290A - 2,3,7,8-TCDD (ETA SACRAMENTO)	4500_CN_E - Total Cyanide	SM4500_S2_D - Total Sulfide	9056A - Anions (NO3, NO2, Cl, SO4, and Br)	9056A - Anions (Br only)	9060A - TOC	RSK-175 - Dissolved Gases (MEEAP)	2320B - Alkalinity	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	A	A	D	D	D	N	N	N	N	N	N	N	N	B	C/B	N	N	S	A	N	X	
PA-8-77-87-20240725	7/25/24	1035	G	W		X																				3	
PA-8-77-87-Q-20240725	7/25/24	1035	G	W		X																				3	
PA-3-20240725	7/25/24	1000	G	W	X	X																				8	
PA-4-100-110-20240725	7/25/24	0935	G	W		X																				3	
PA-1-20240725	7/25/24	1010	G	W		X																				3	
TB-01-20240725	7/25/24	1140	G	W		X																				2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months ☐

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Adria mead	Date/Time: 7/25/24 1144	Company	Received by: Sealed for Shipment	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/26/24 0905	Company EETDEN	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6°C CF0.1 IRTM



280-194612 Waybill

ORIGIN ID:IDAA

SHIP DATE: 25JUL24
ACTWGT: 38.55 LB
CAD: /SSF62521
DIMS: 11x19x15 IN

Part # 160839

eurofins | Environment Testing TestAmerica

2476120

TO SAMPLE RECIEVING
EUORFINS ENVIRON TESTING
4955 YARROW ST

ARVADA CO 80002-4517 (US)

(303) 736-0100

INV:
PO:

REF:

DEPT:

FedEx Express

J241024071602uv

FRI - 26 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0667 8182 2606 9539

XS LAAA

80002
CO-US DEN

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 280-194612-1

Login Number: 194612
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
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 - Pocatello City Monitoring Well

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 1990** to **25 July 2024**

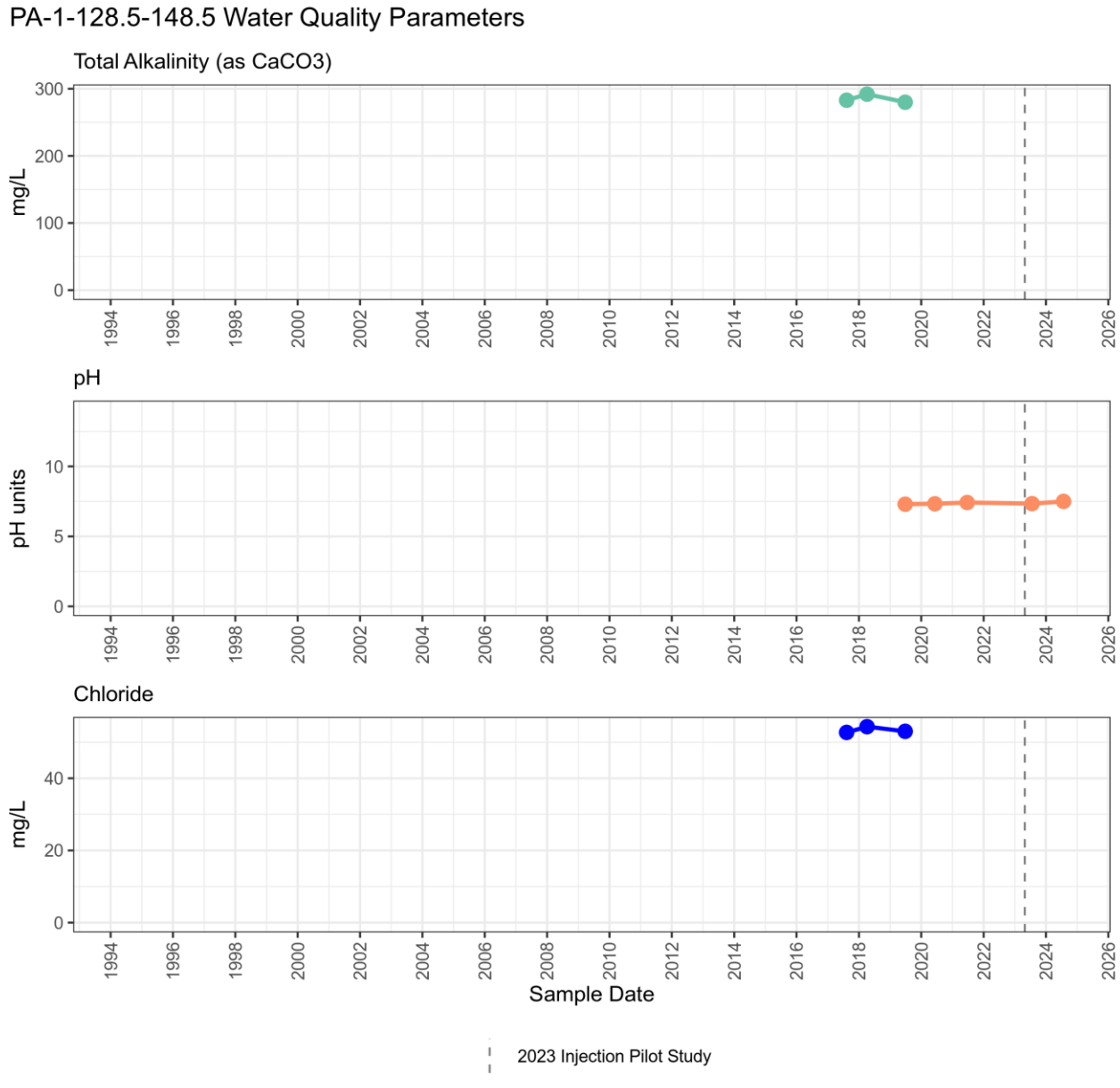
Graph notes

- 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.

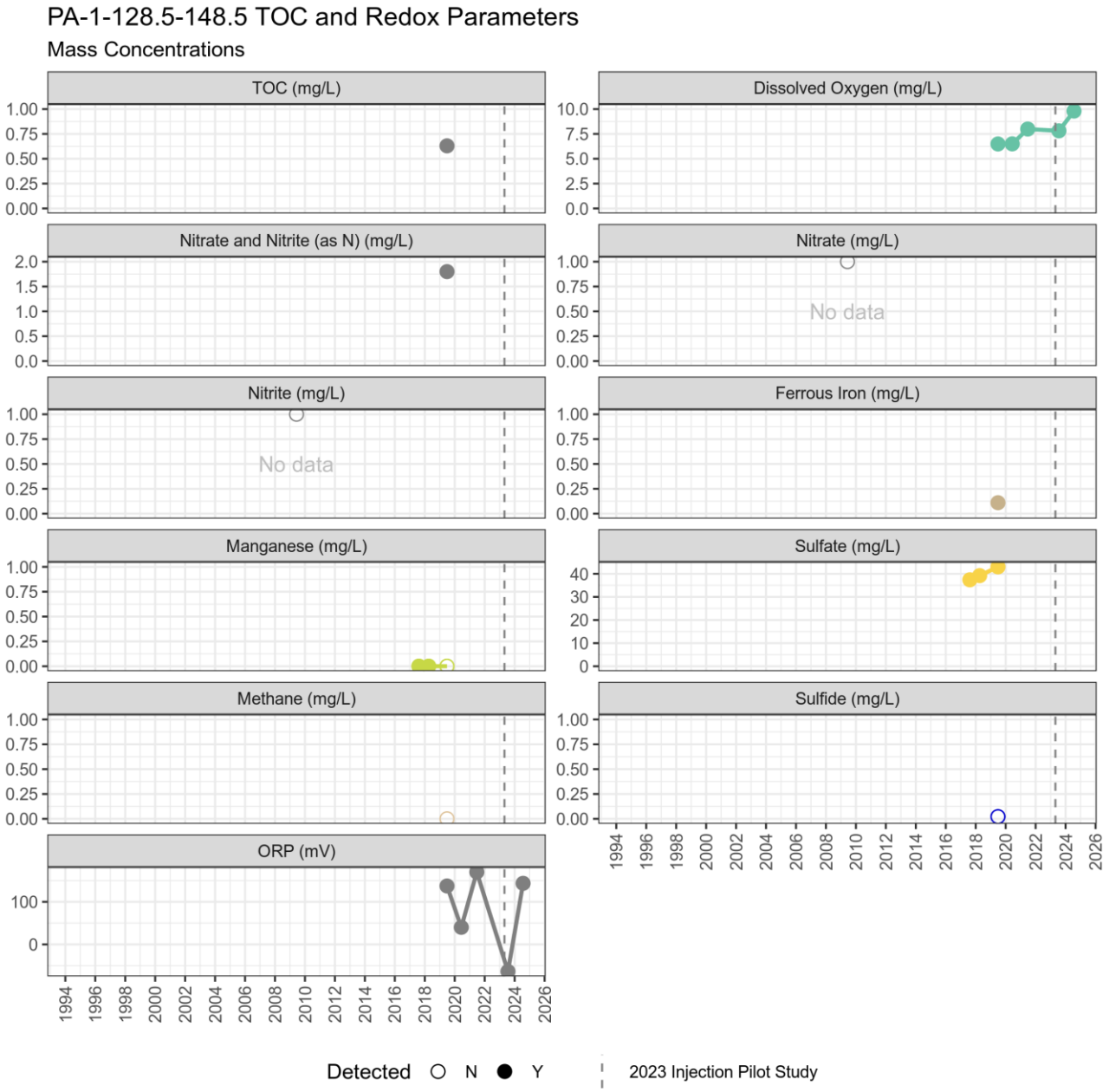
Well summaries

PA-1-128.5-148.5

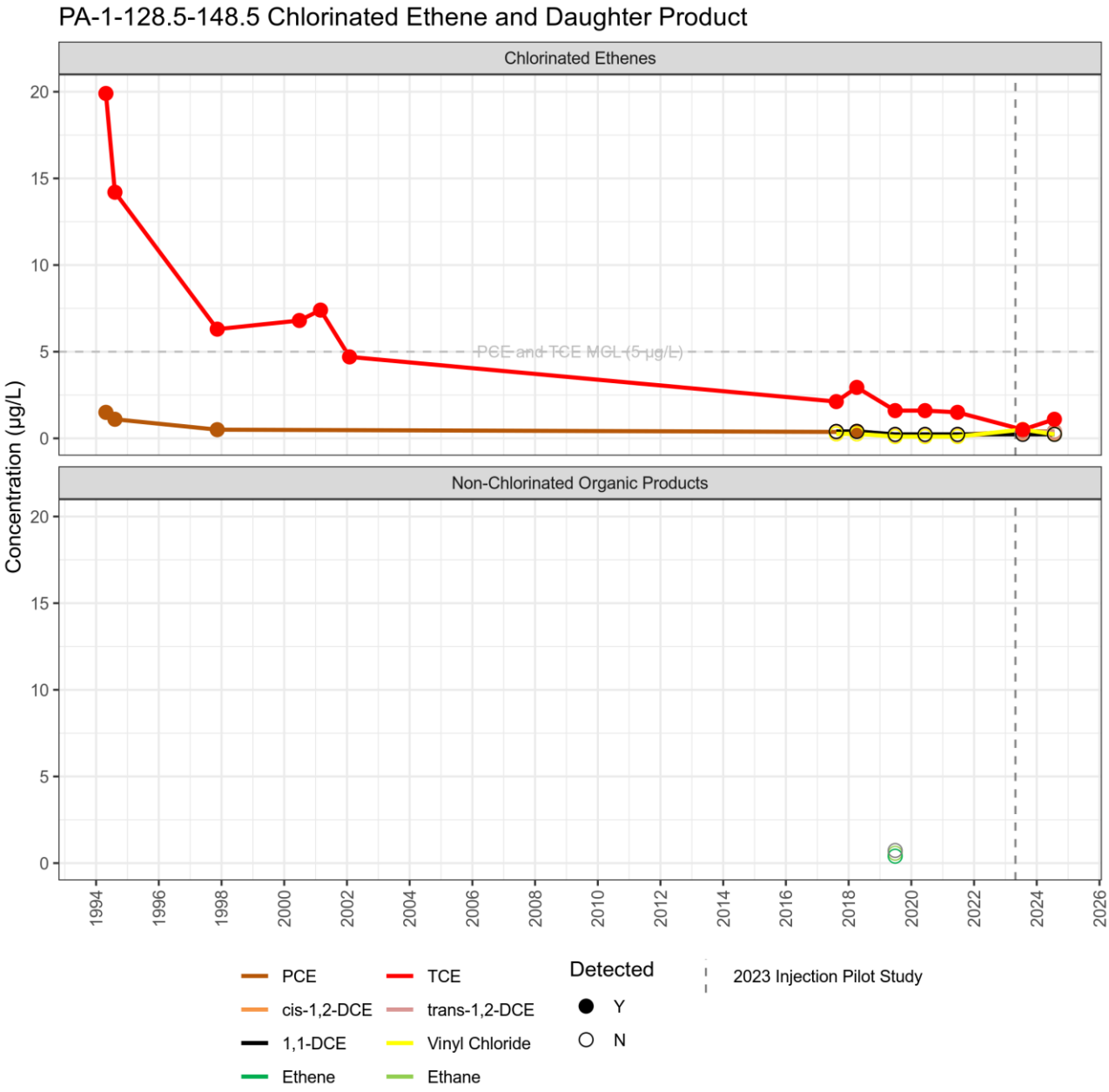
Water Quality



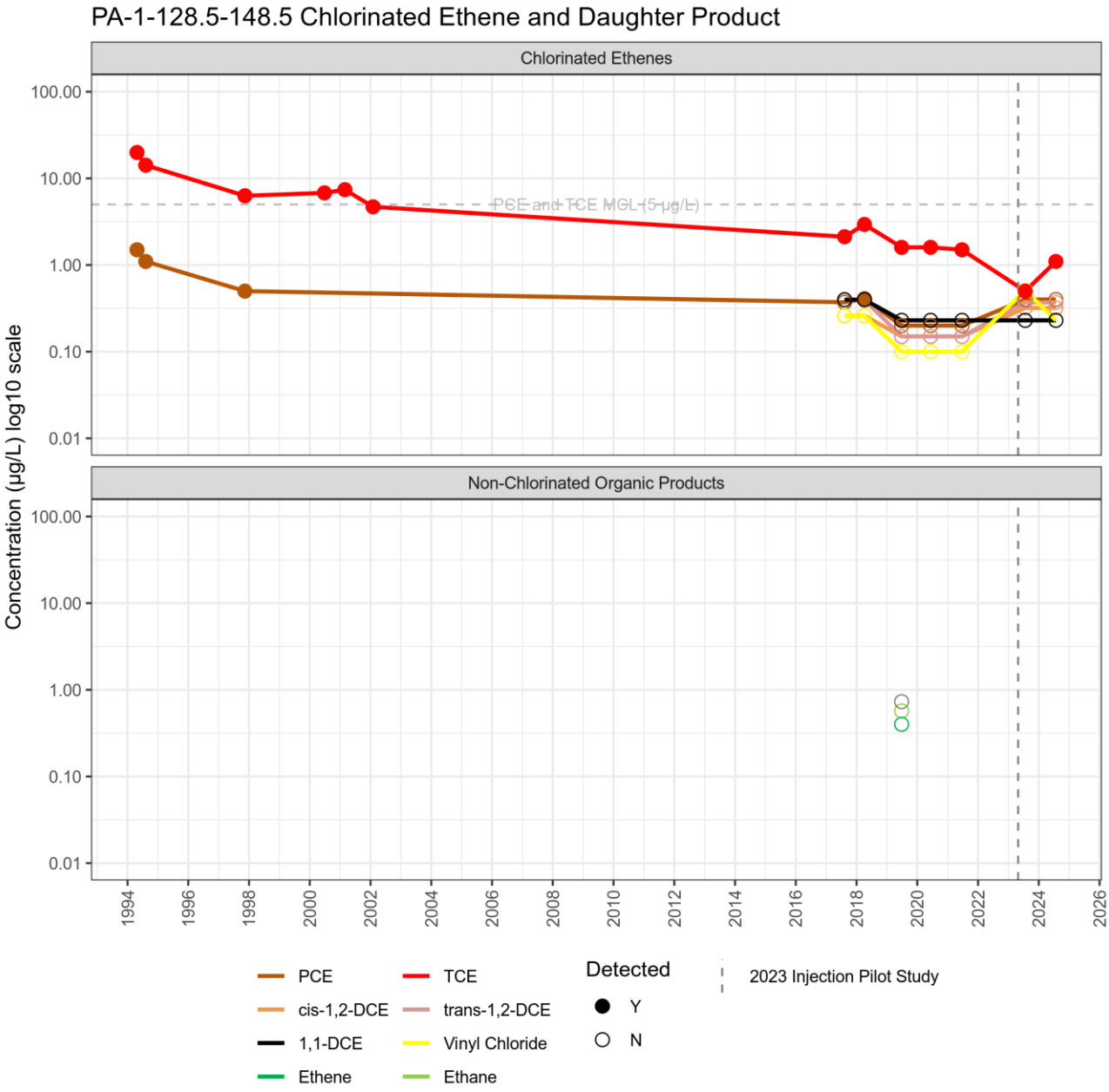
TOC and Redox Parameters



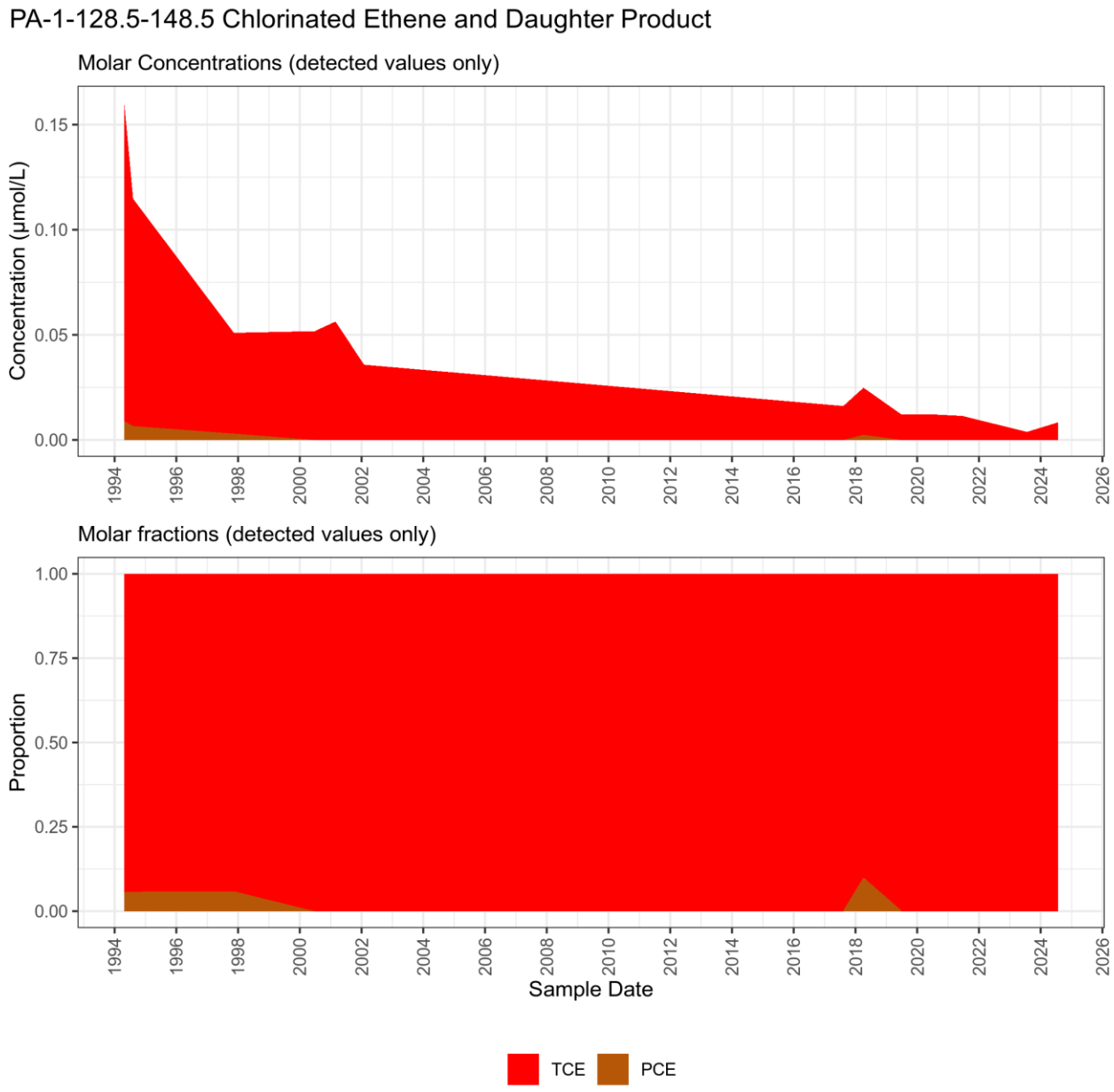
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

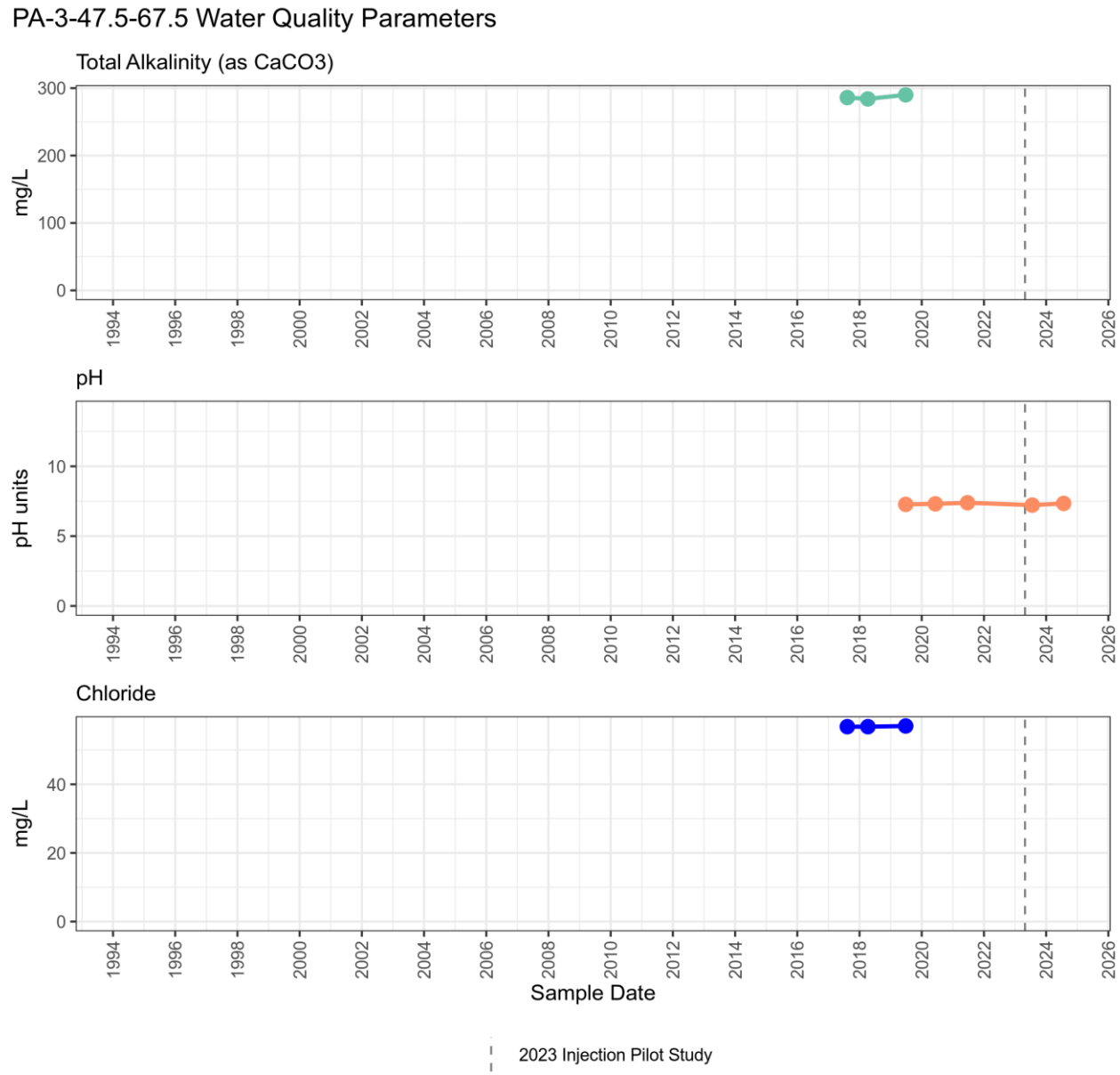


Chlorinated Ethene and Daughter Product Concentration

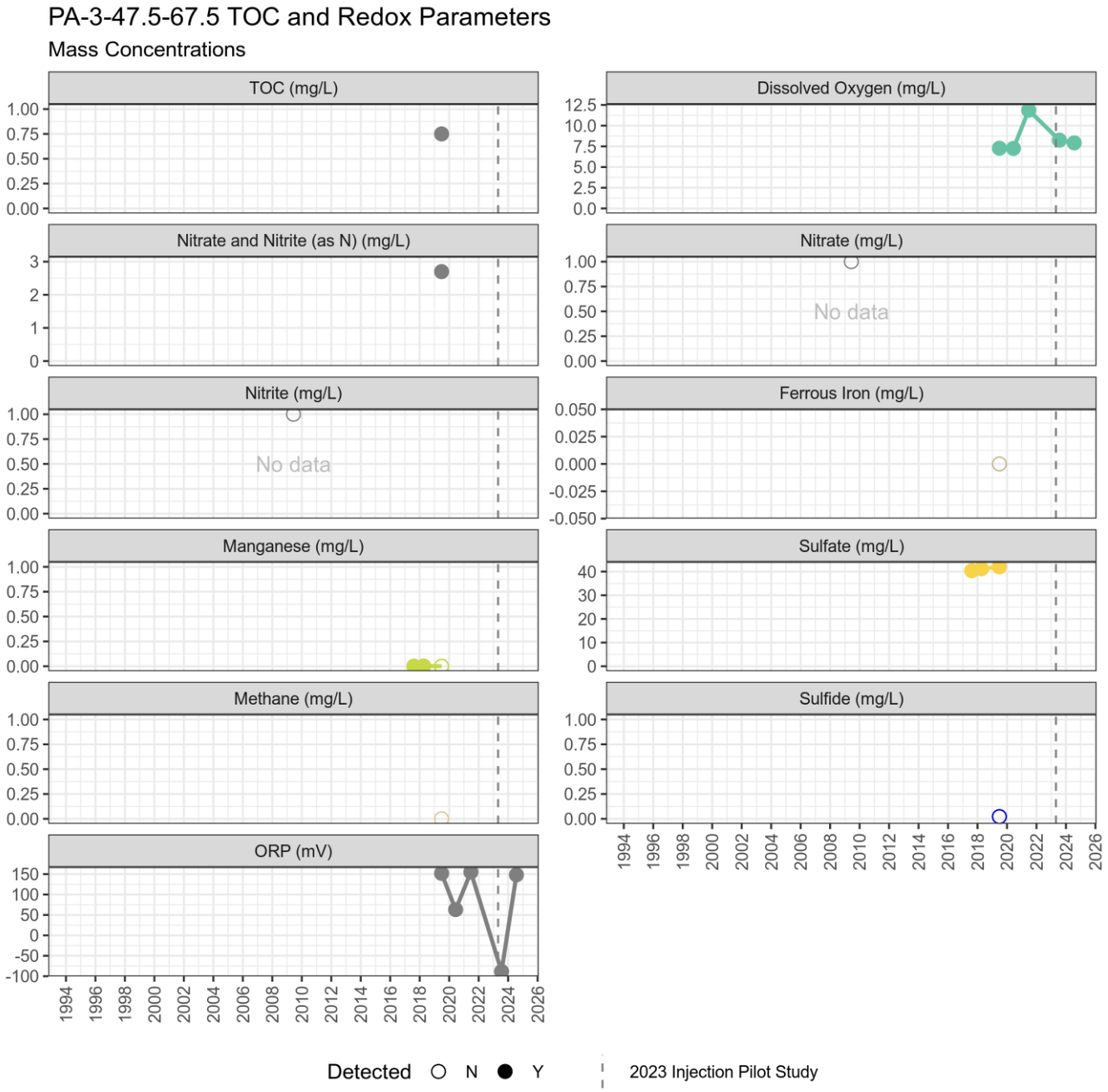


PA-3-47.5-67.5

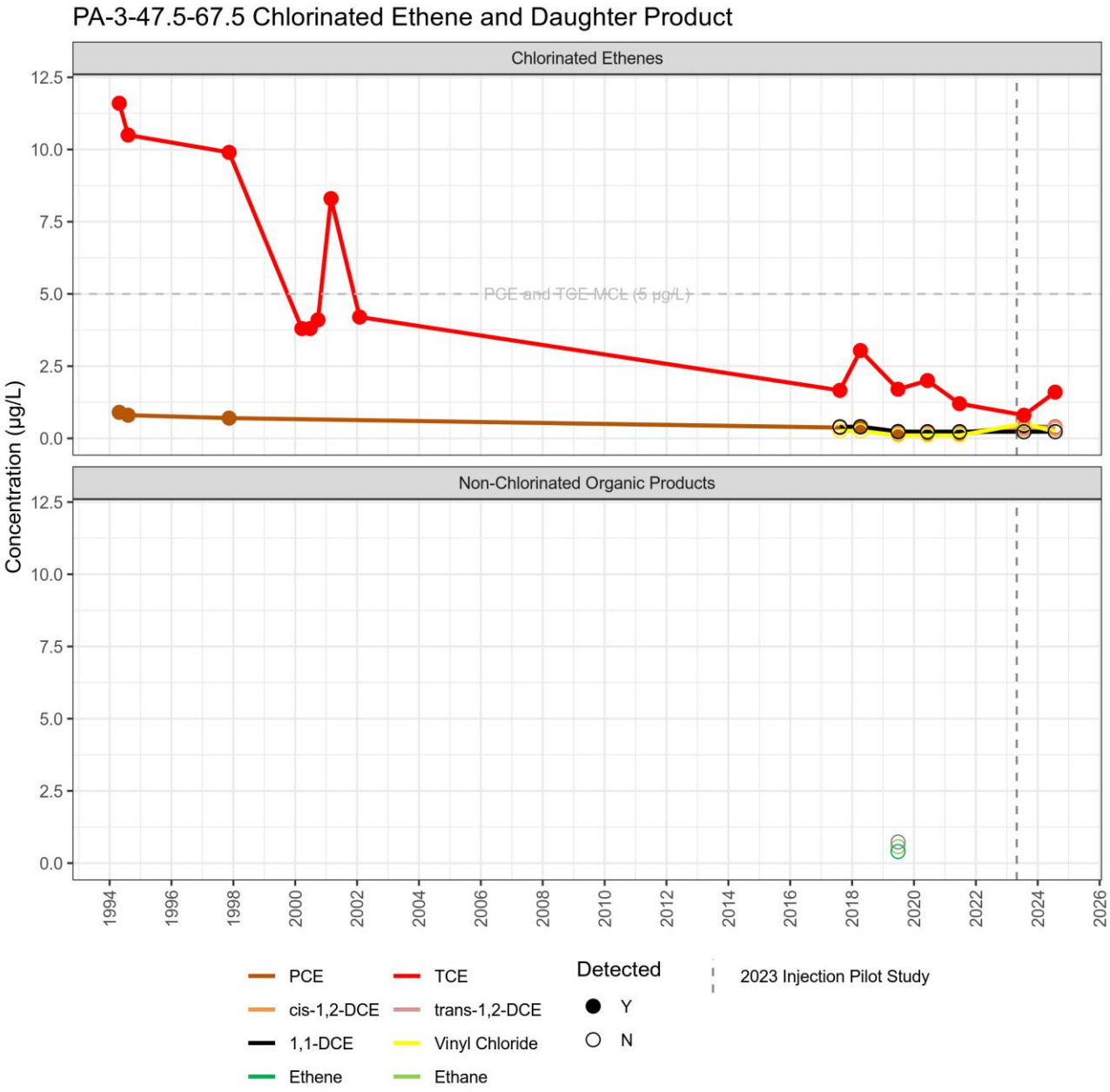
Water Quality



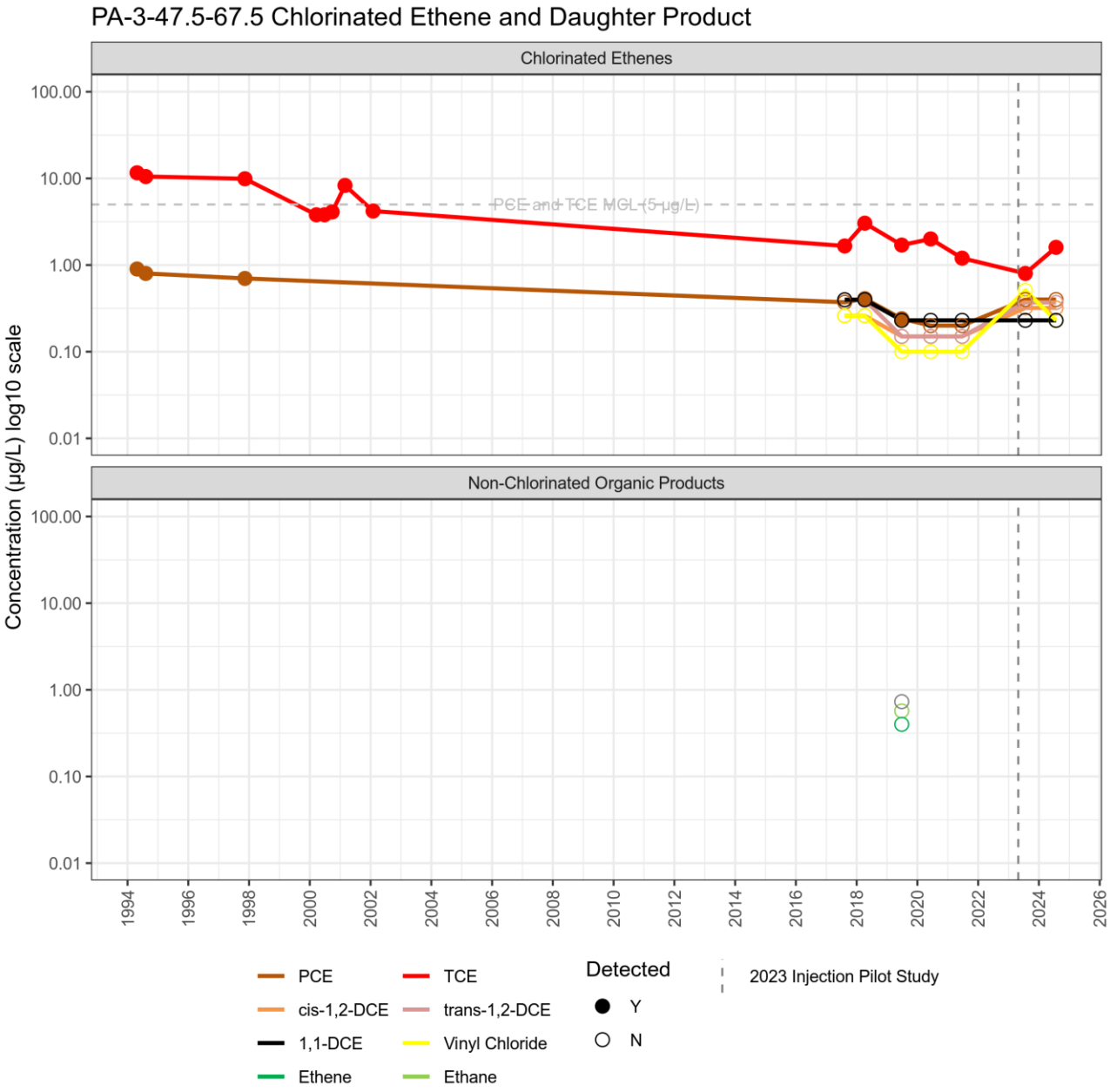
TOC and Redox Parameters



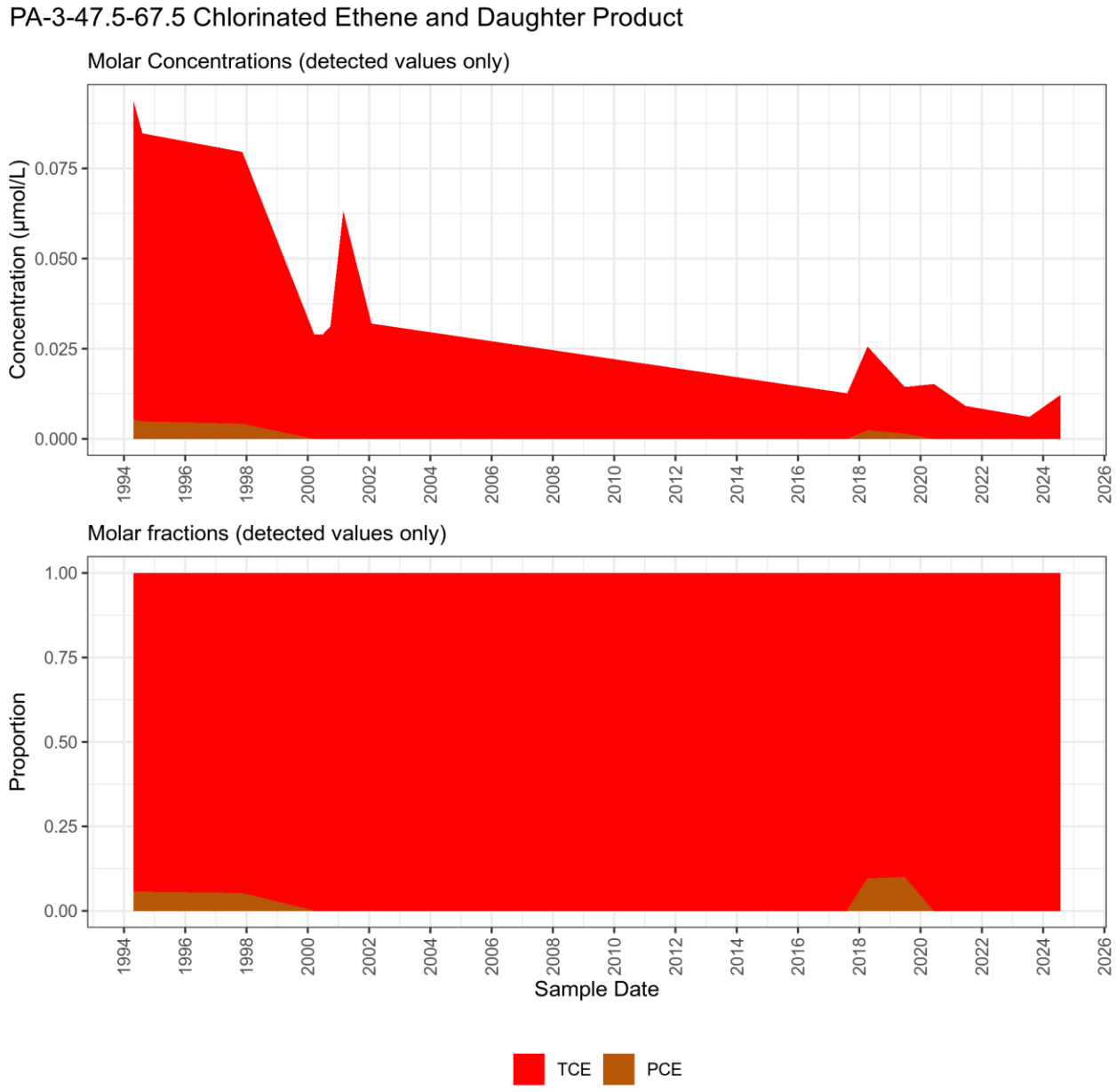
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

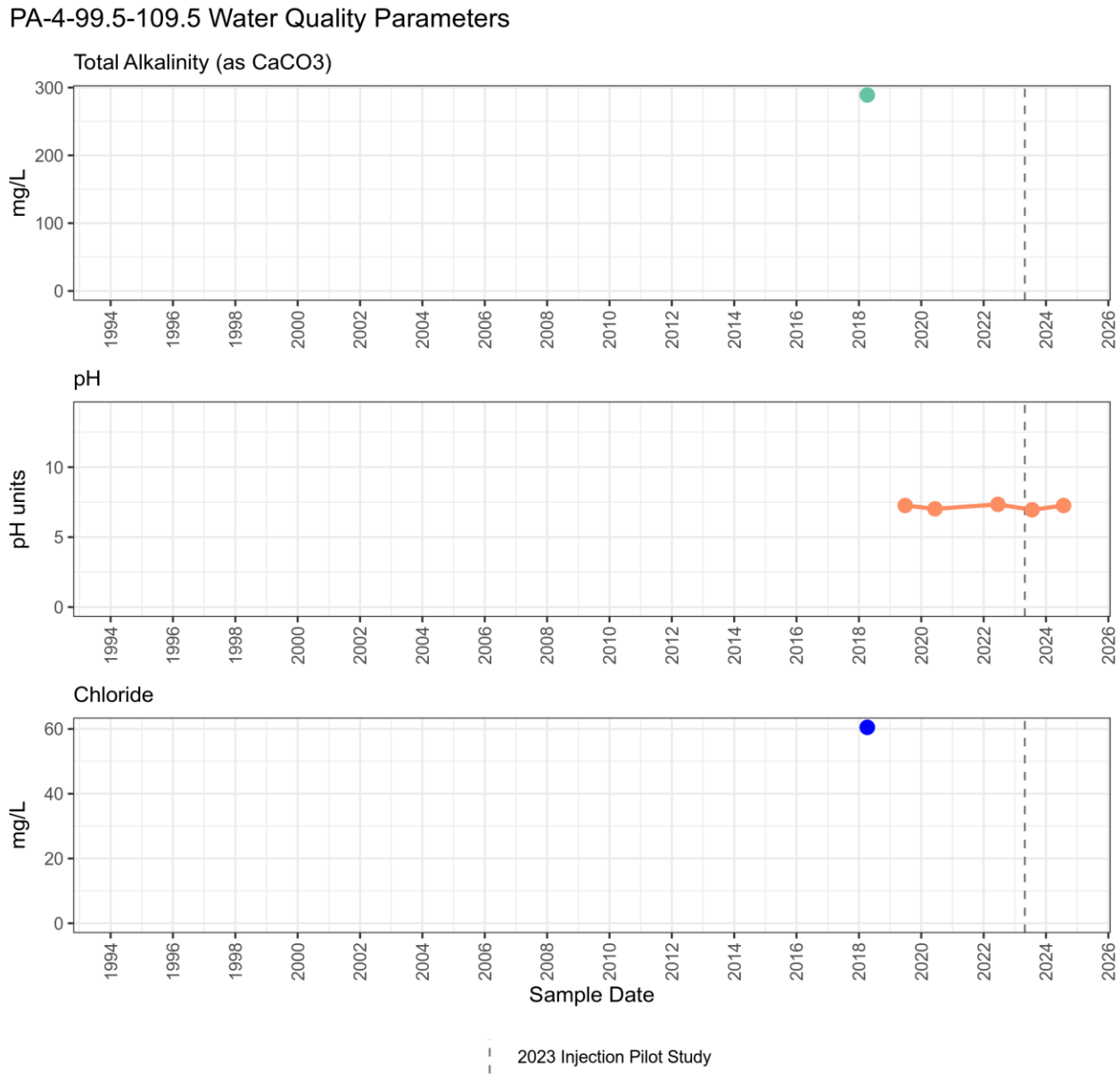


Chlorinated Ethene and Daughter Product Concentration

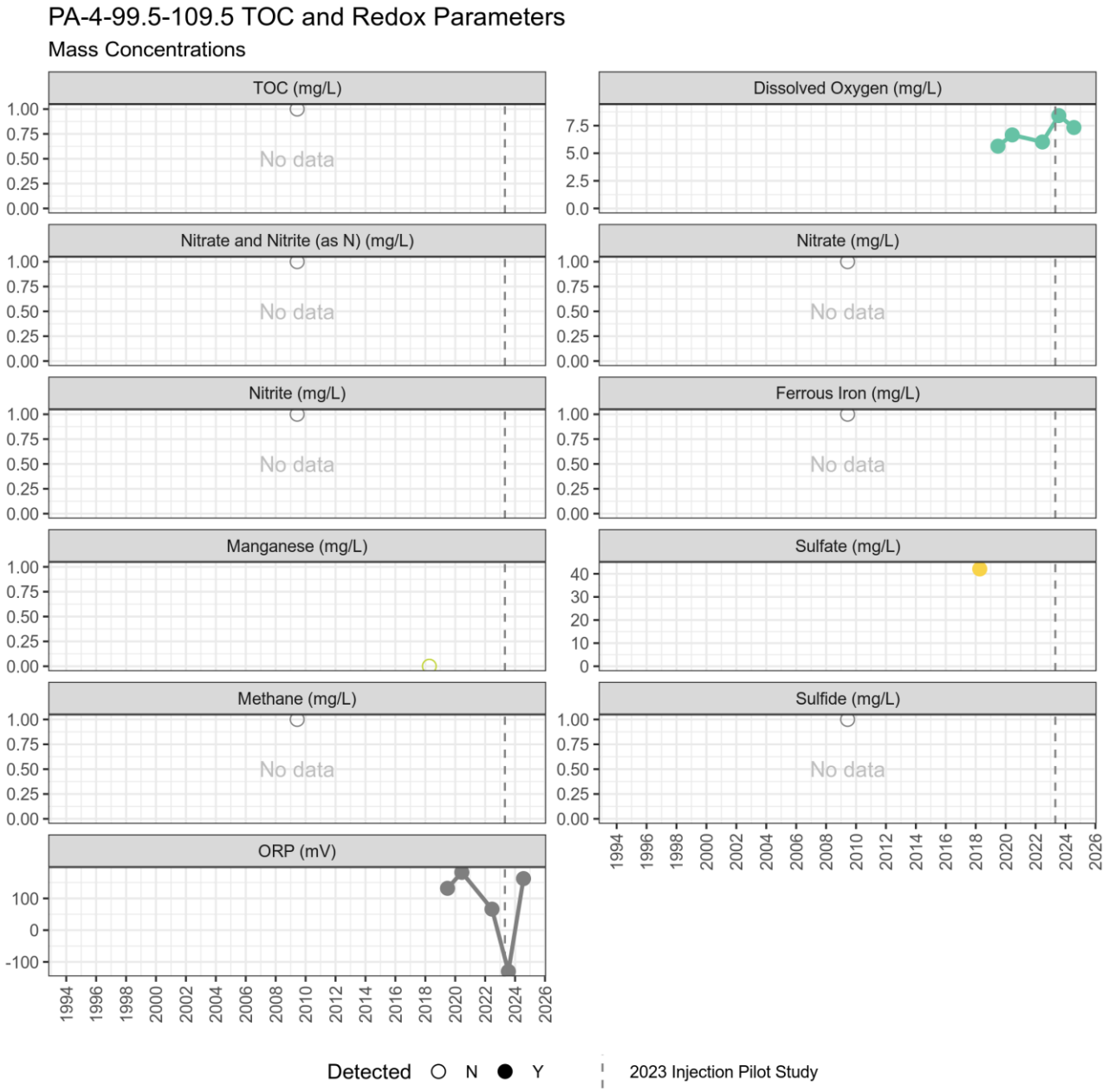


PA-4-99.5-109.5

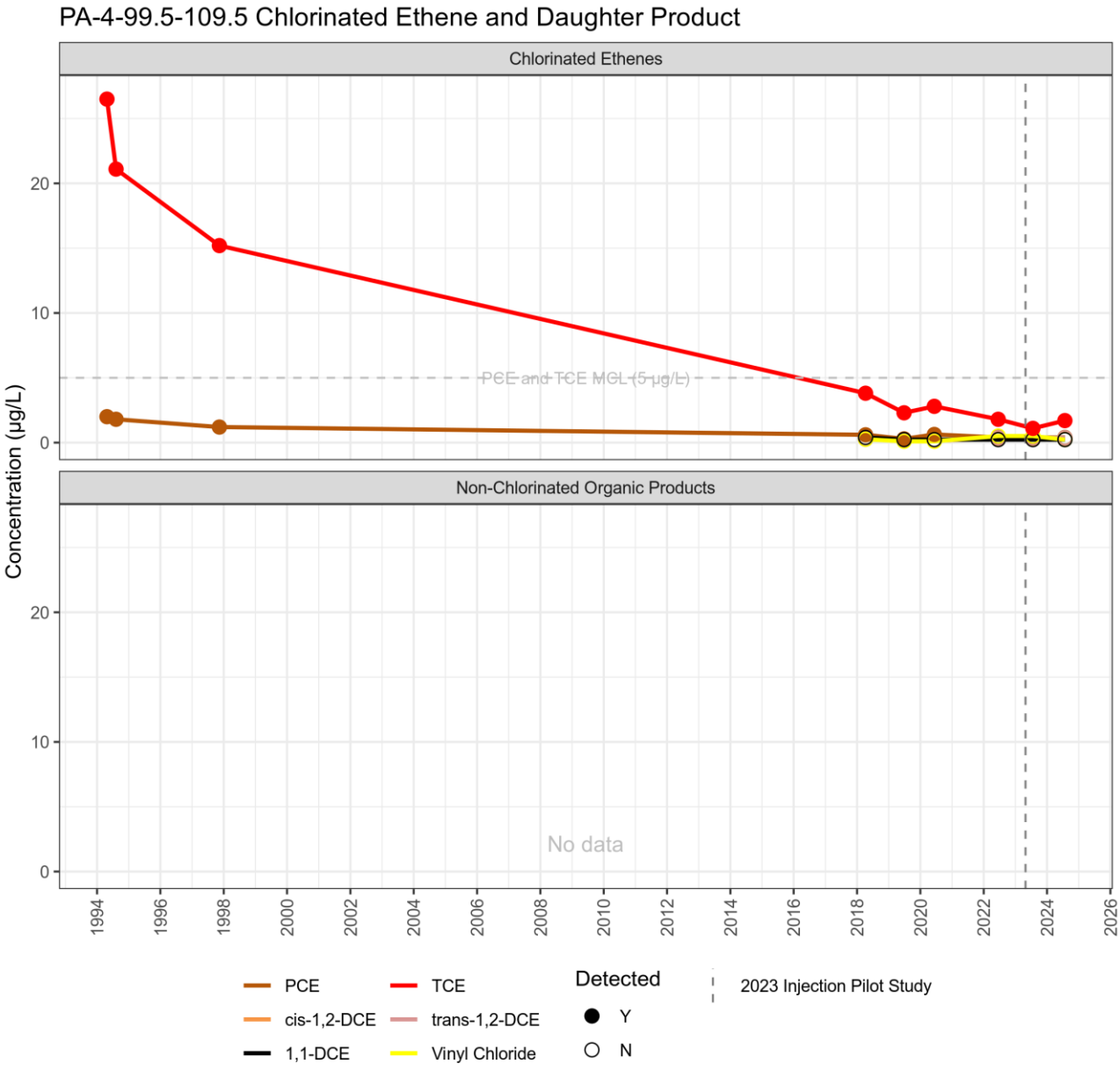
Water Quality



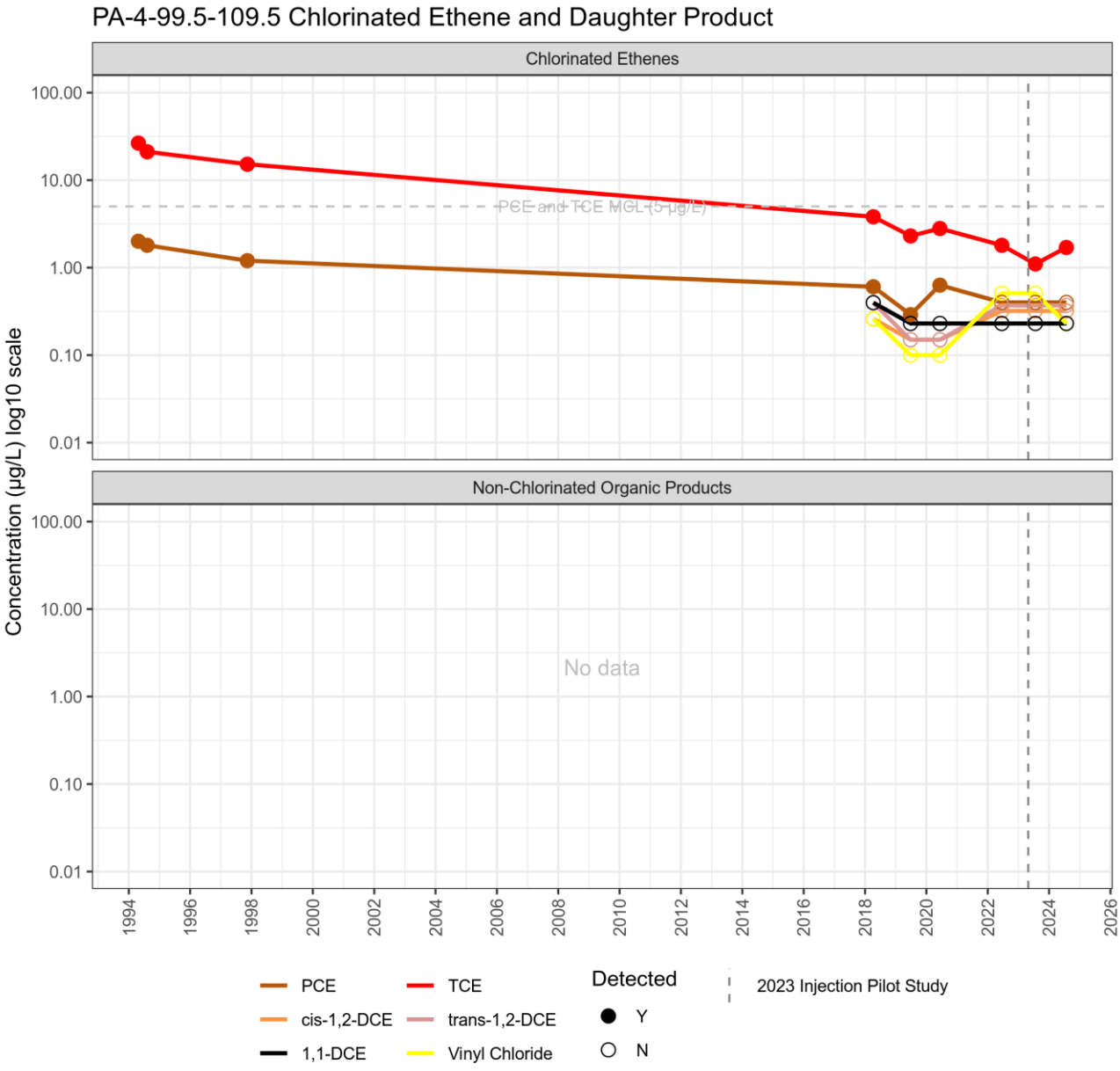
TOC and Redox Parameters



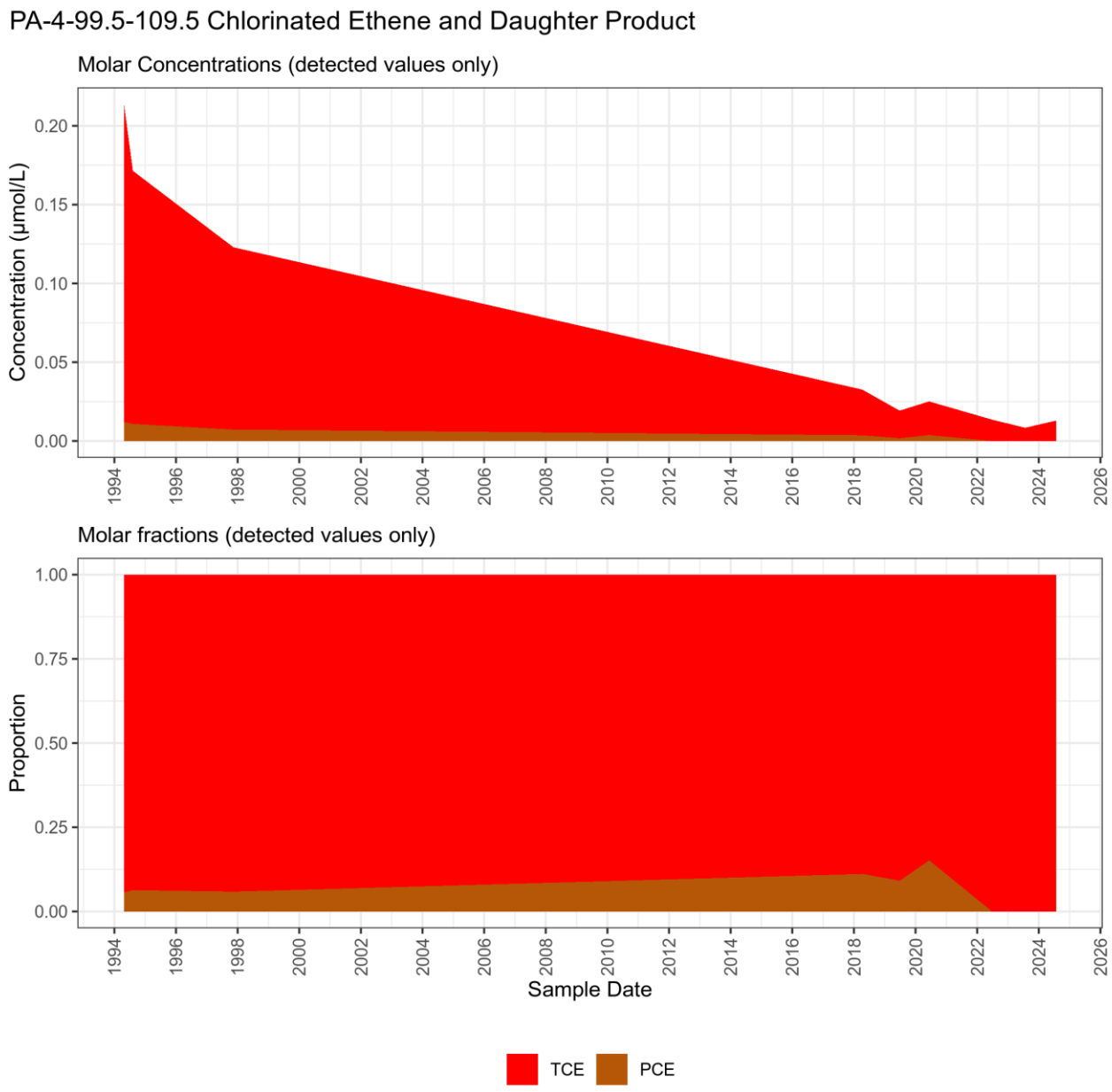
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

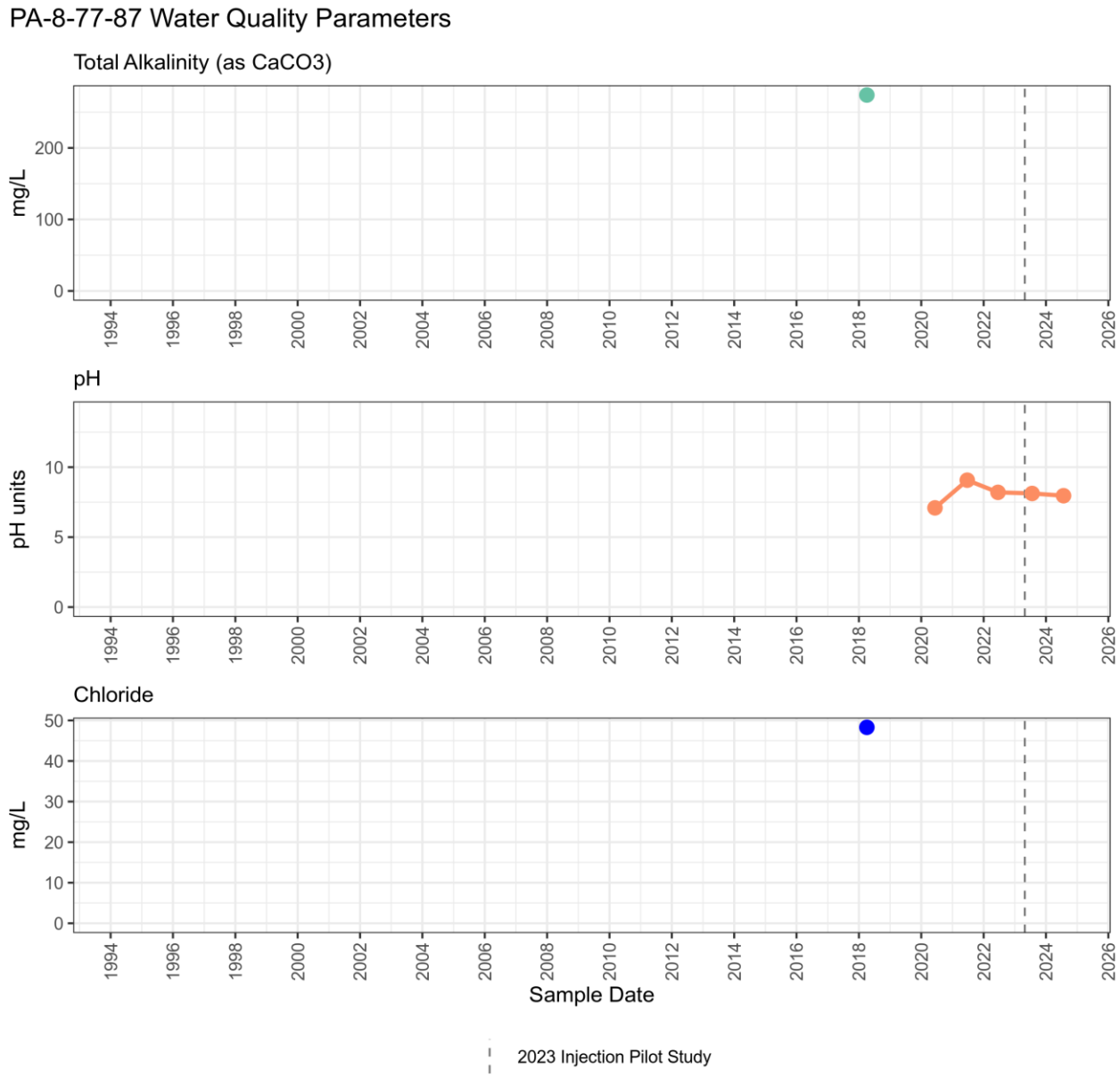


Chlorinated Ethene and Daughter Product Concentration

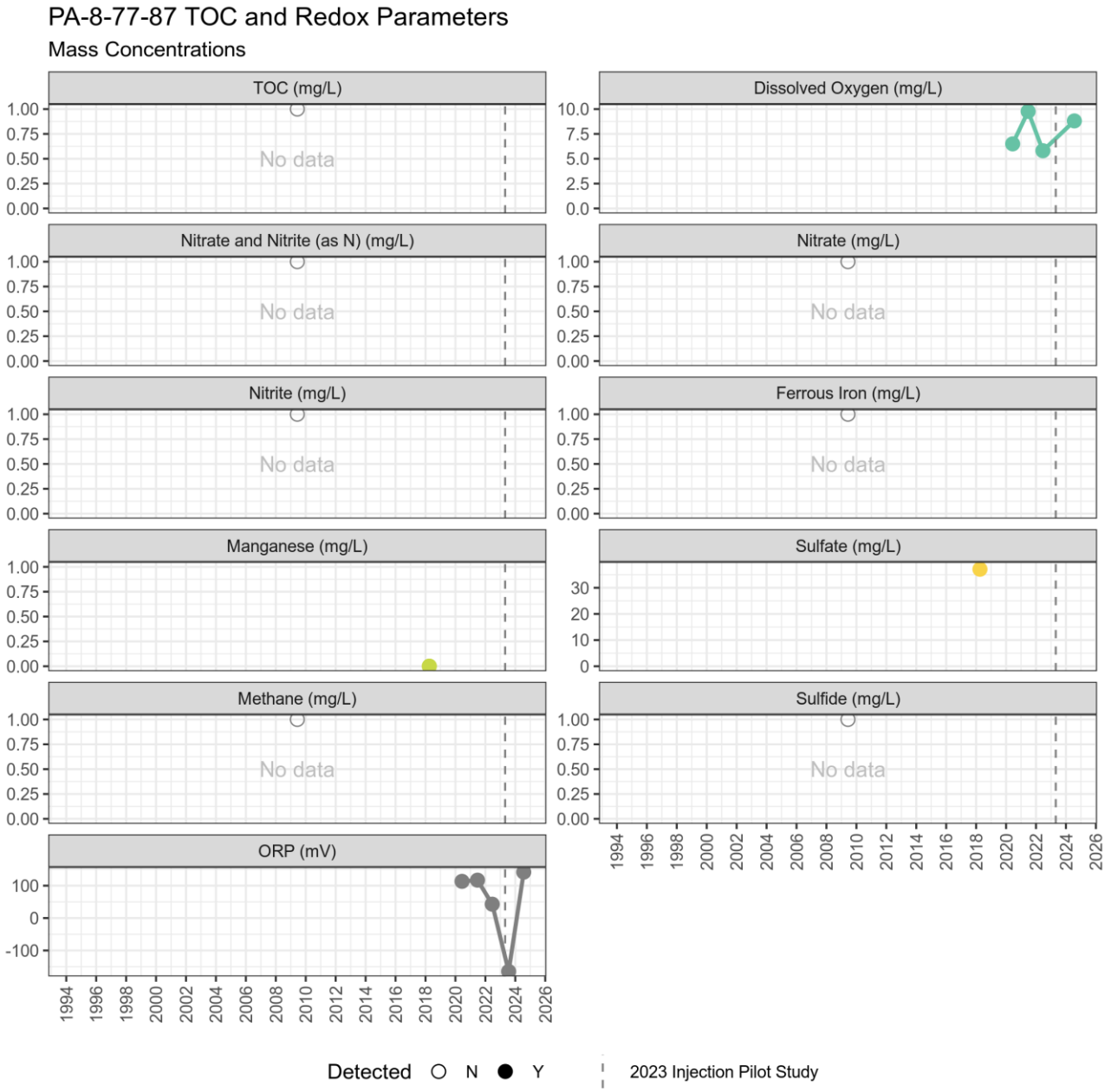


PA-8-77-87

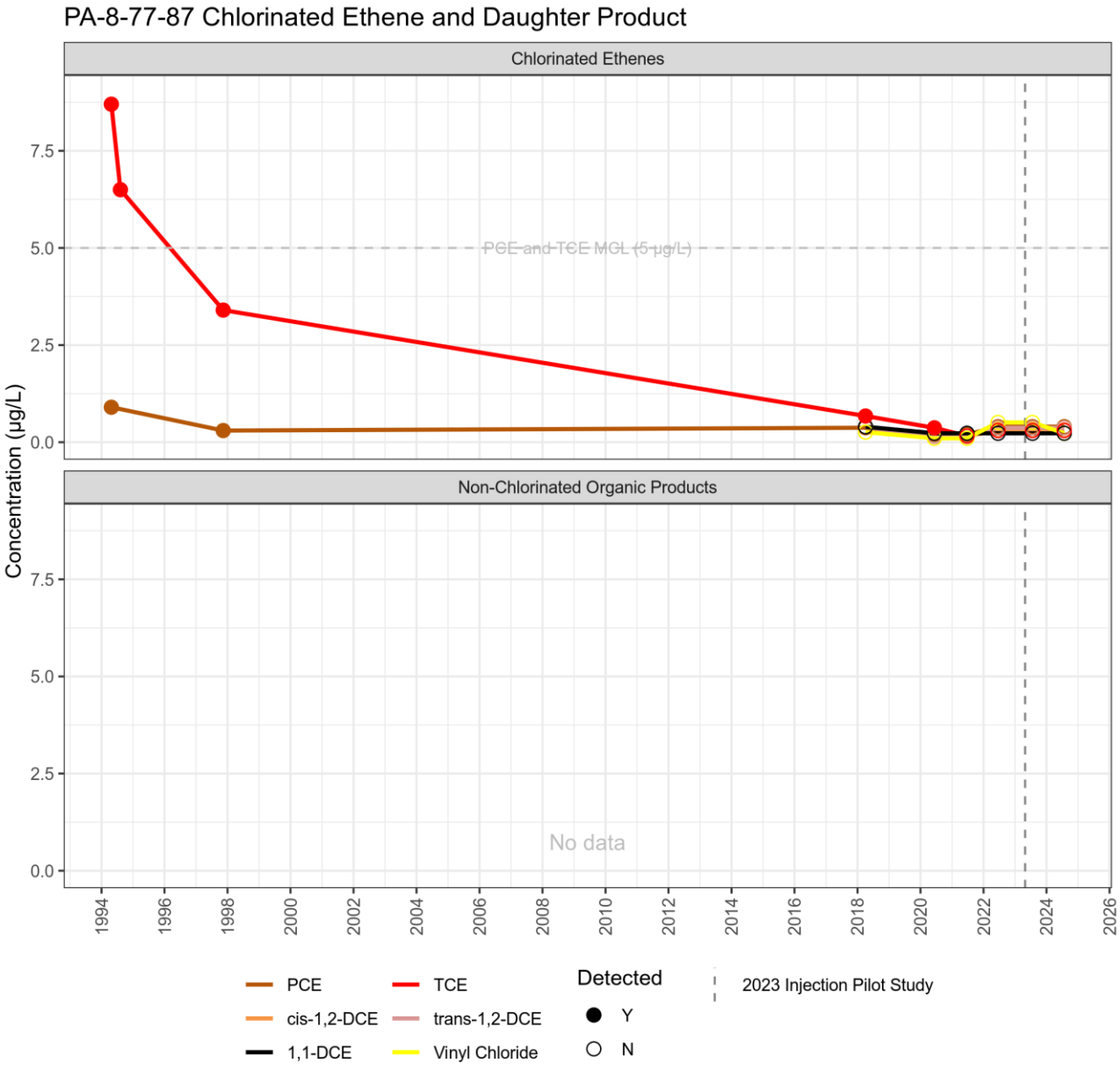
Water Quality



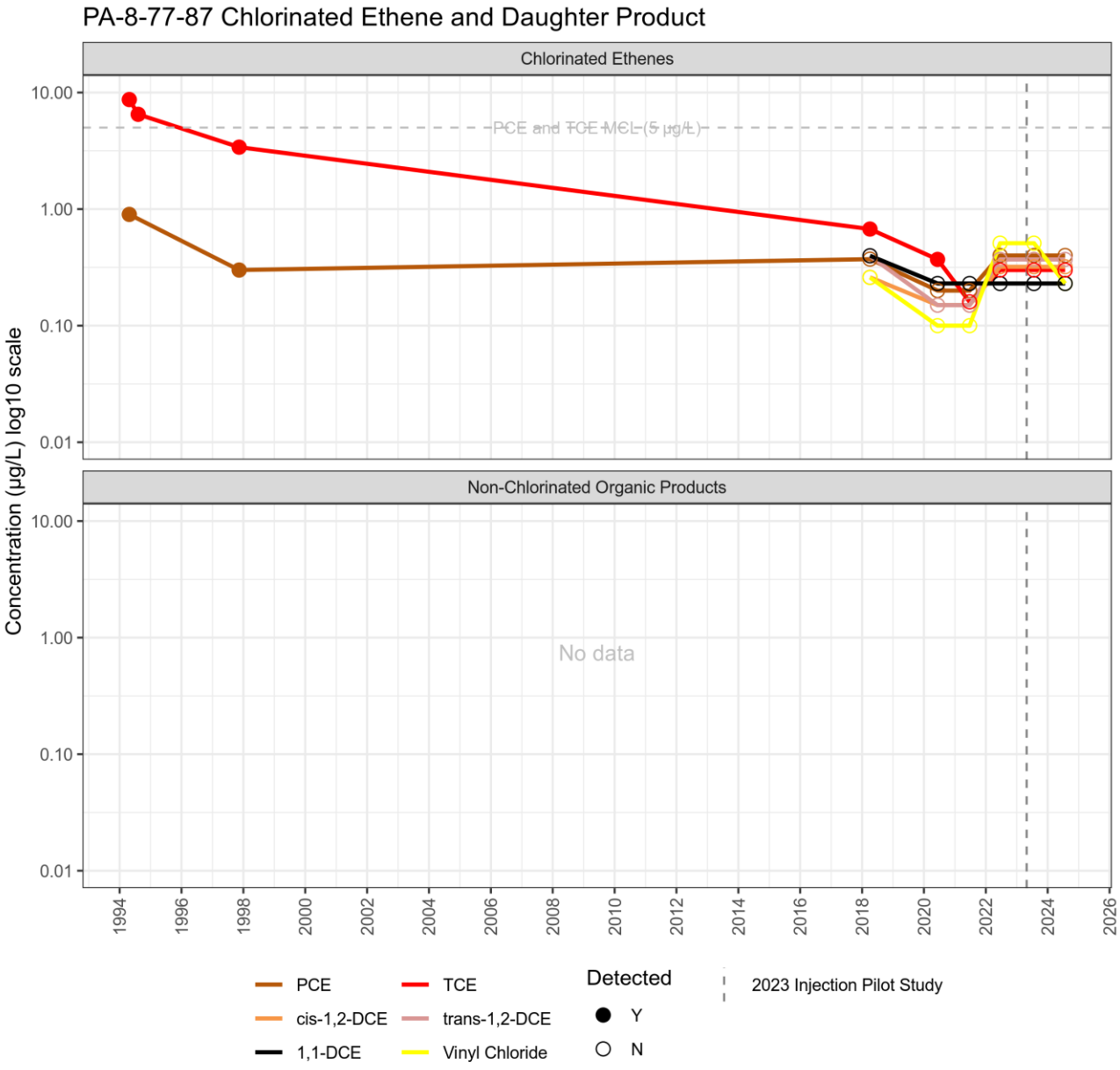
TOC and Redox Parameters



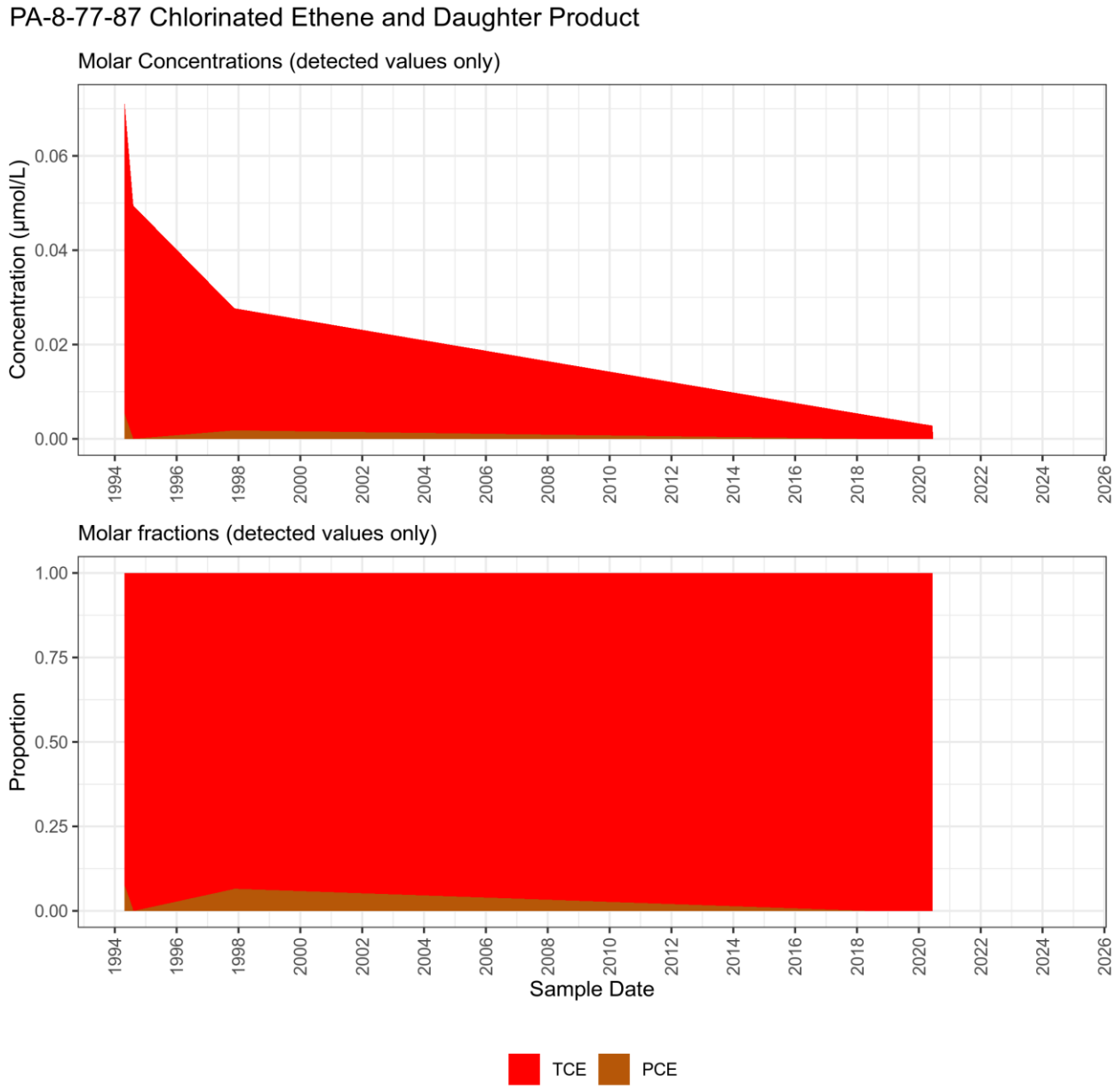
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration



Chlorinated Ethenes and Geochemistry Time Series Plots - Domestic Wells

Data filters

This report is filtered to only include:

- **RW-2076F, RW-2151H, RW-2172H, RW-2203H, RW-2213F, RW-2237H, RW-7505P, RW-7677P, RW-8030P, RW-8048P, and RW-8284P** from **Residential Wells**
- Results from **01 January 1990** to **25 July 2024**

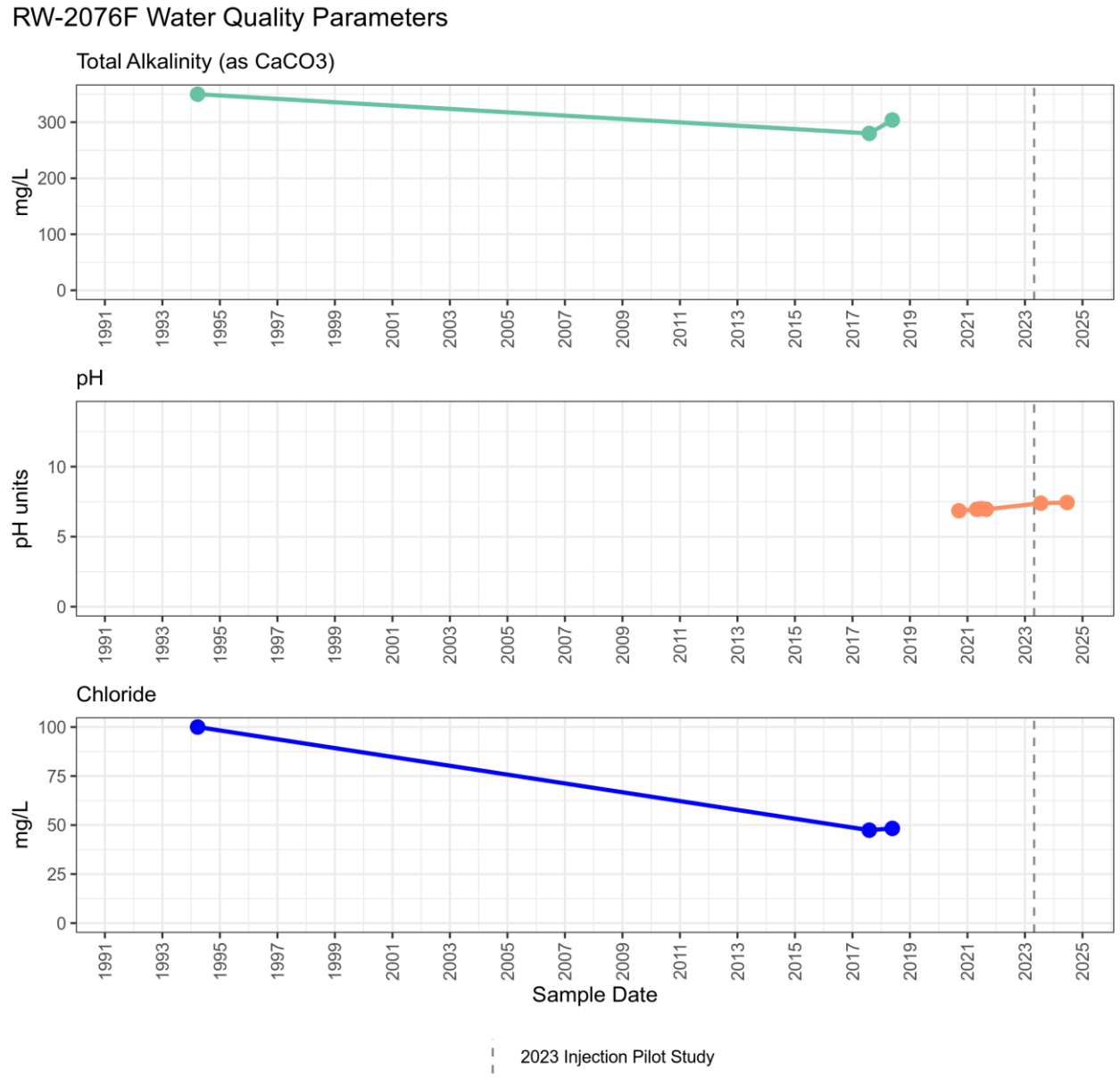
Graph notes

- 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.

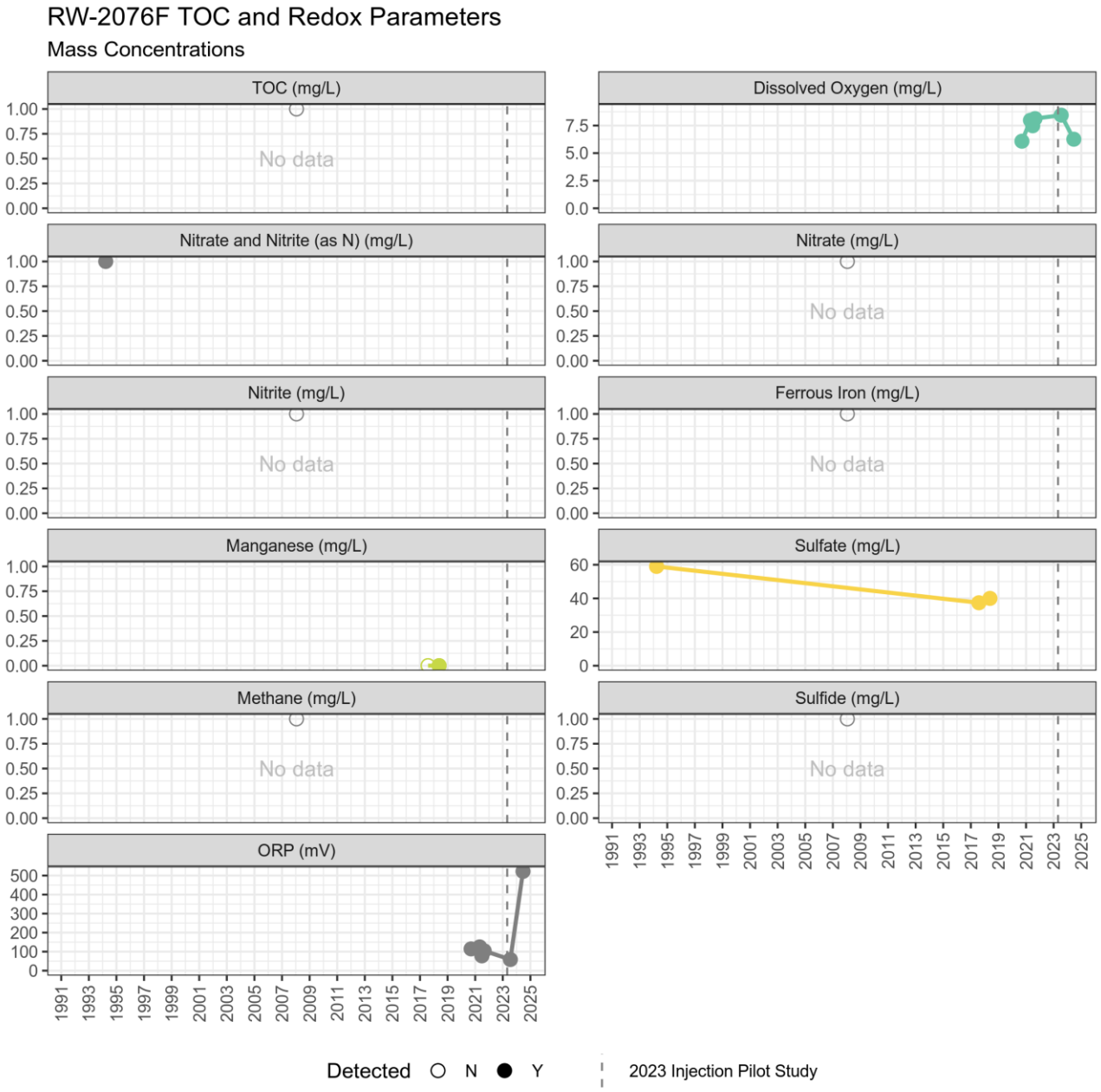
Well summaries

RW-2076F

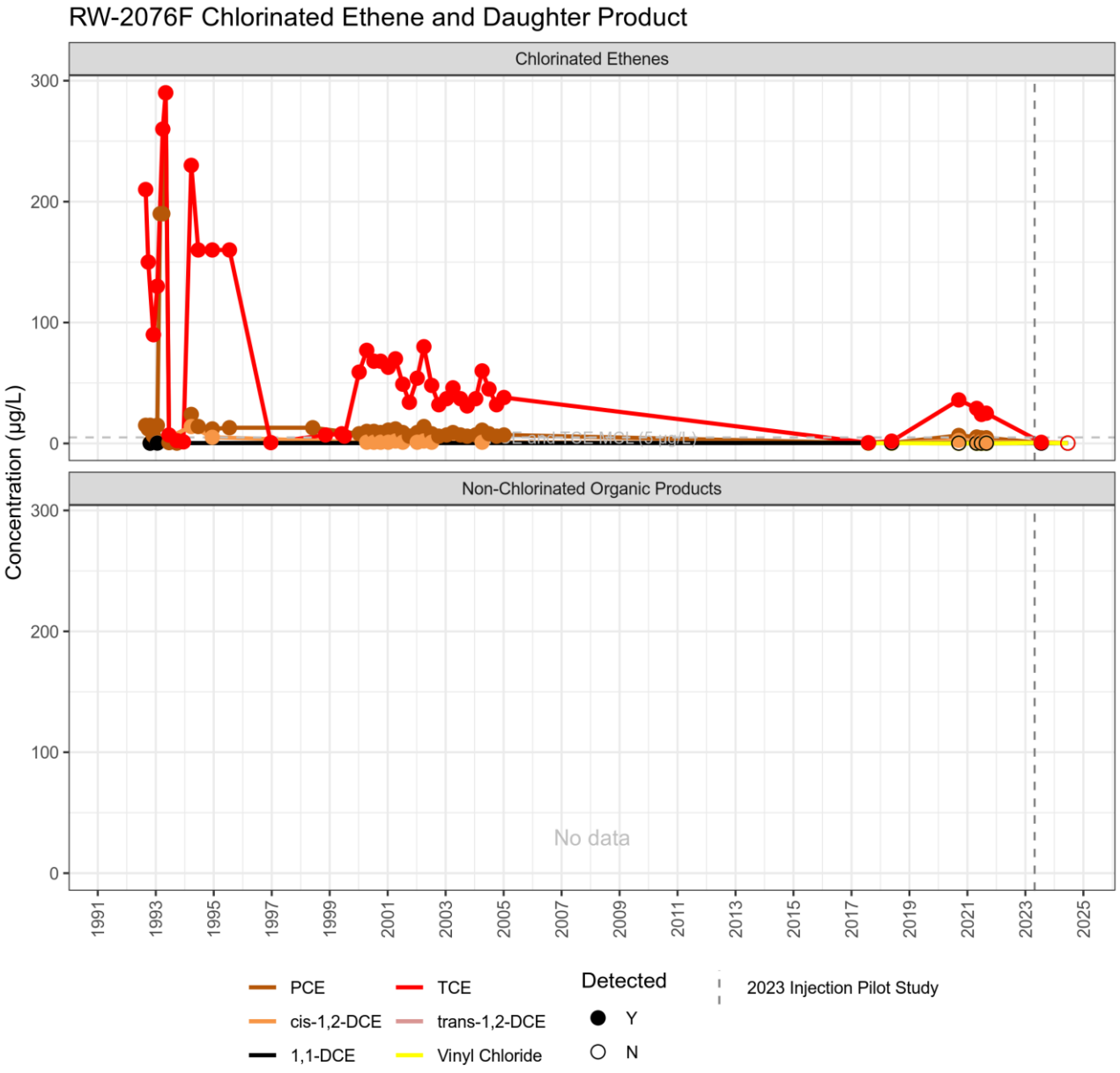
Water Quality



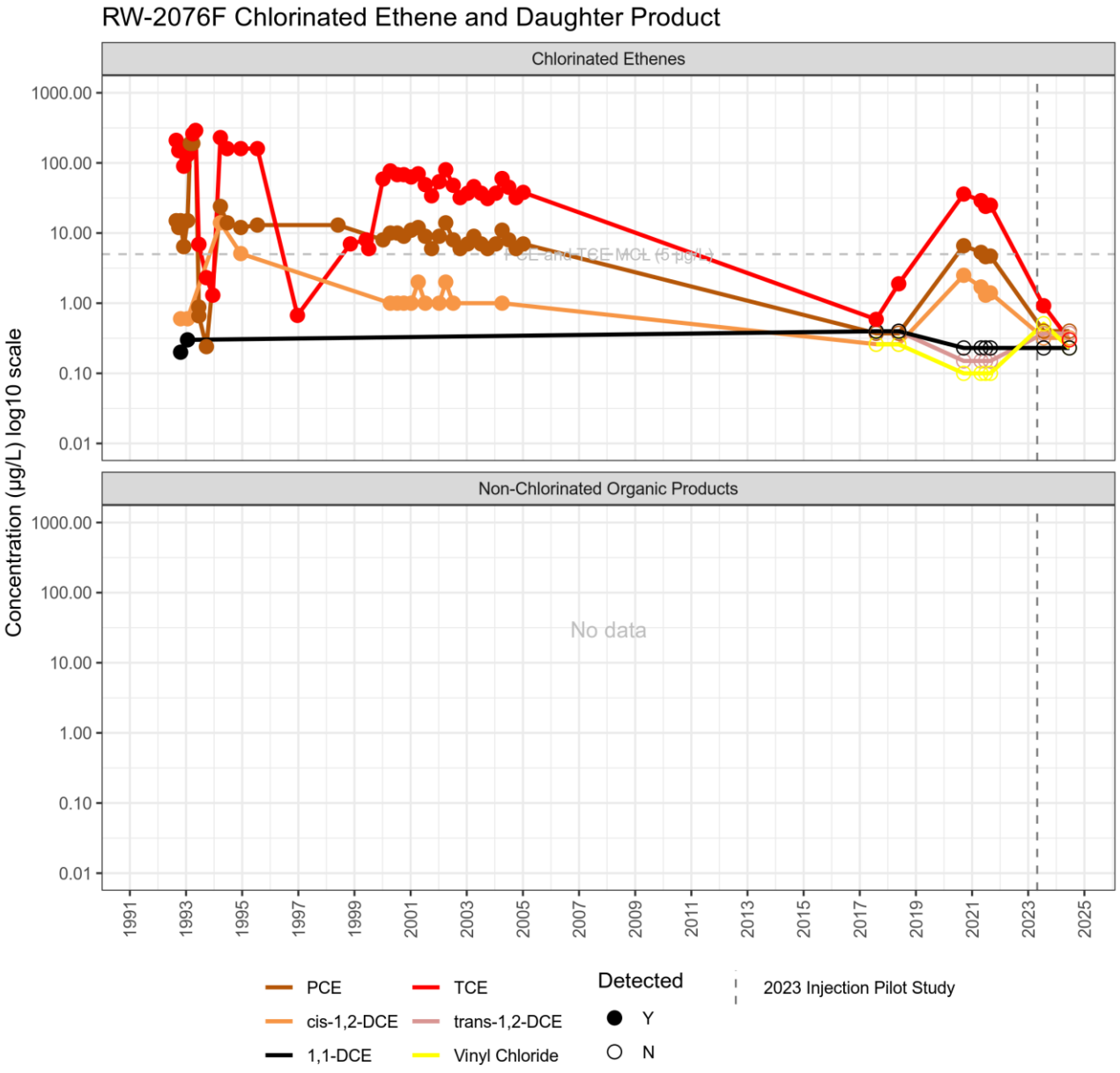
TOC and Redox Parameters



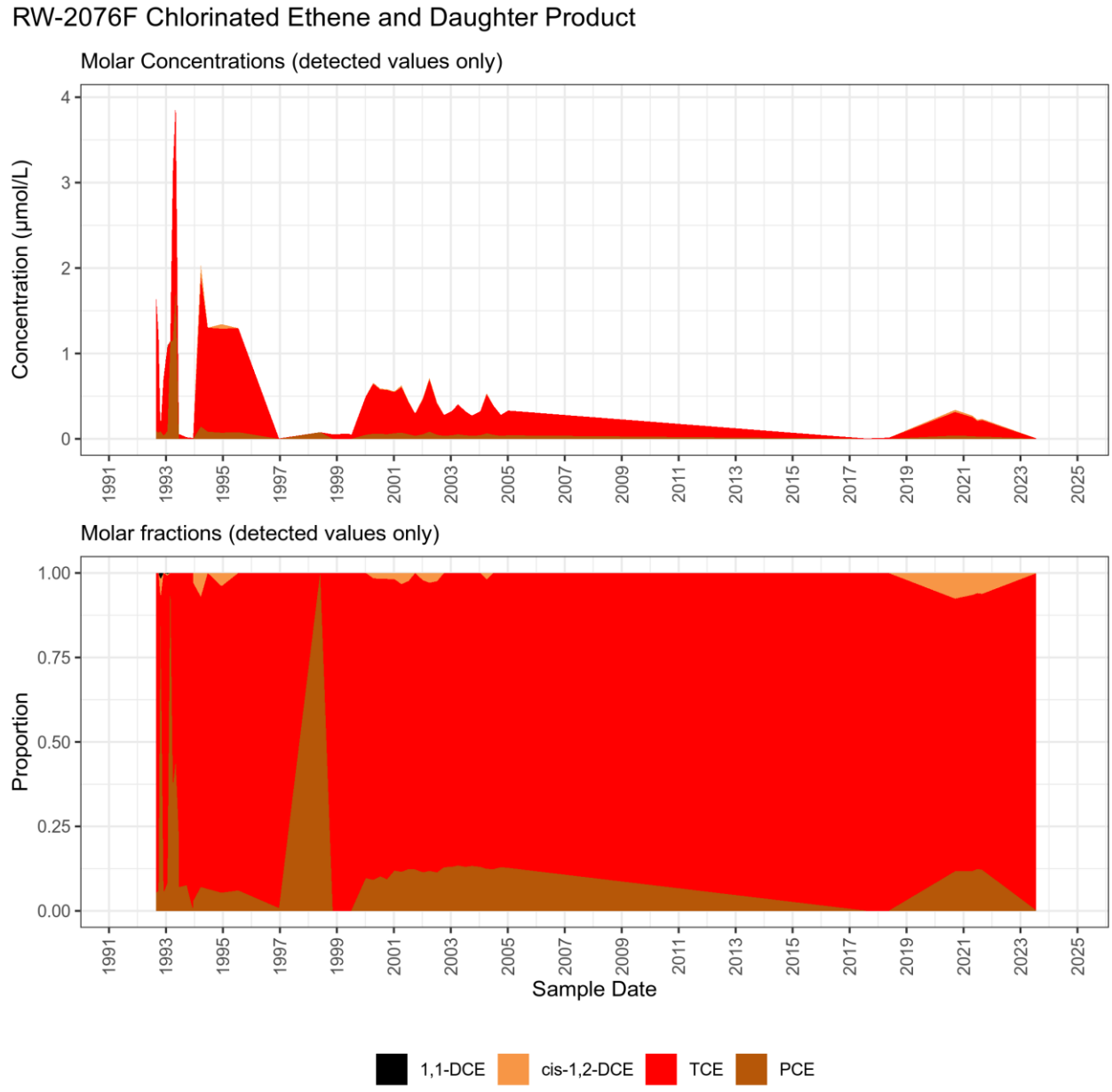
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

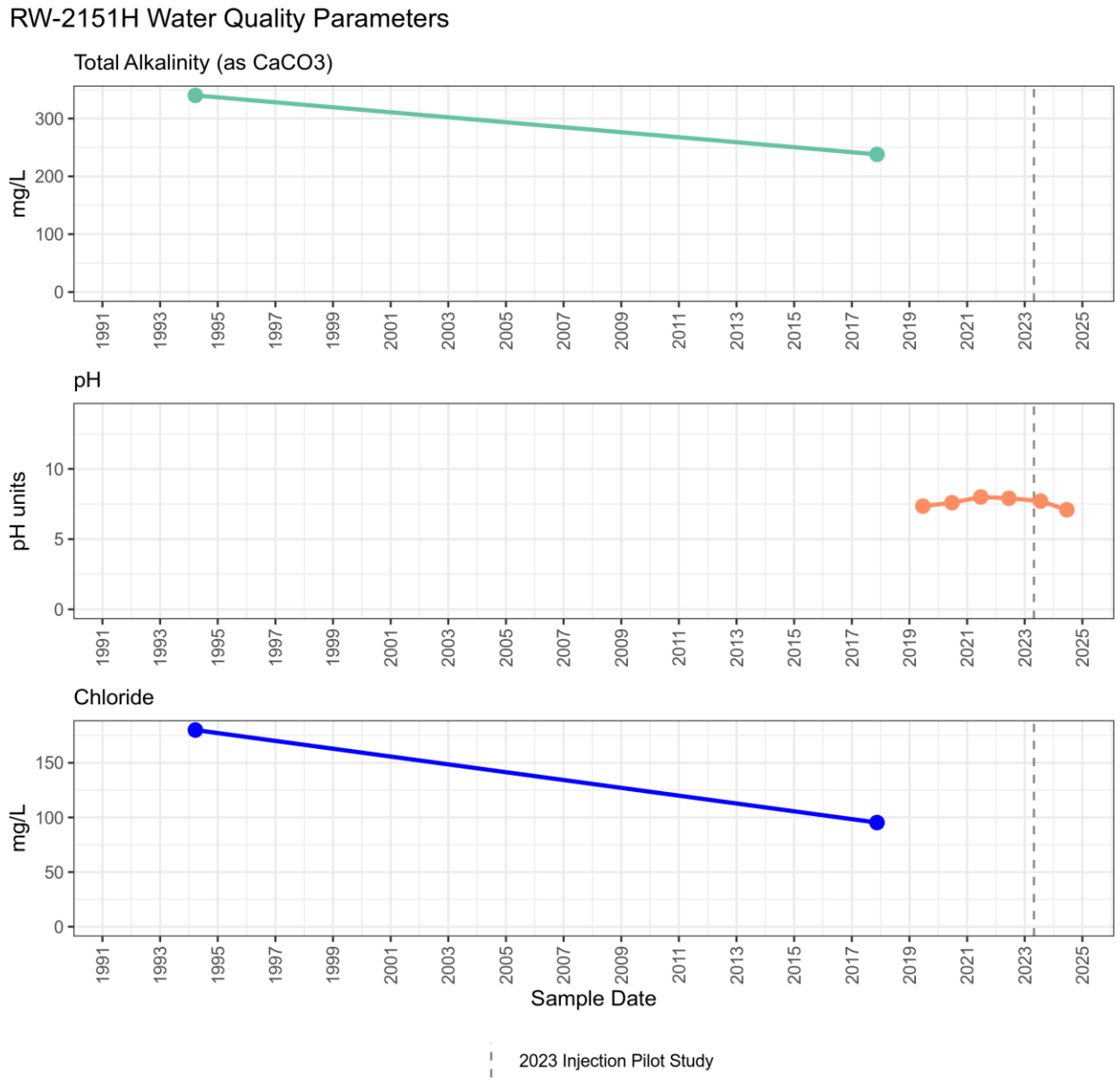


Chlorinated Ethene and Daughter Product Concentration

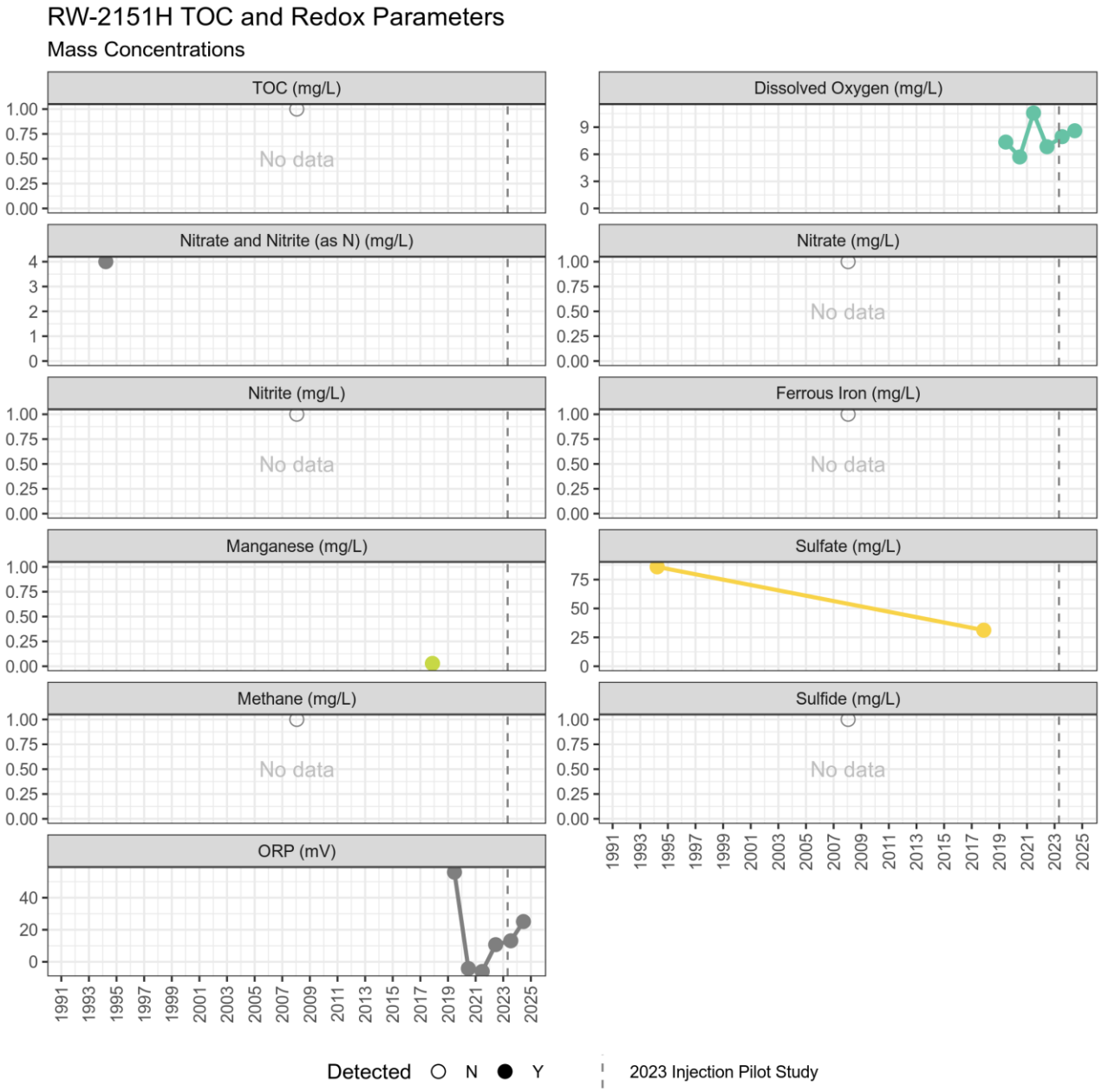


RW-2151H

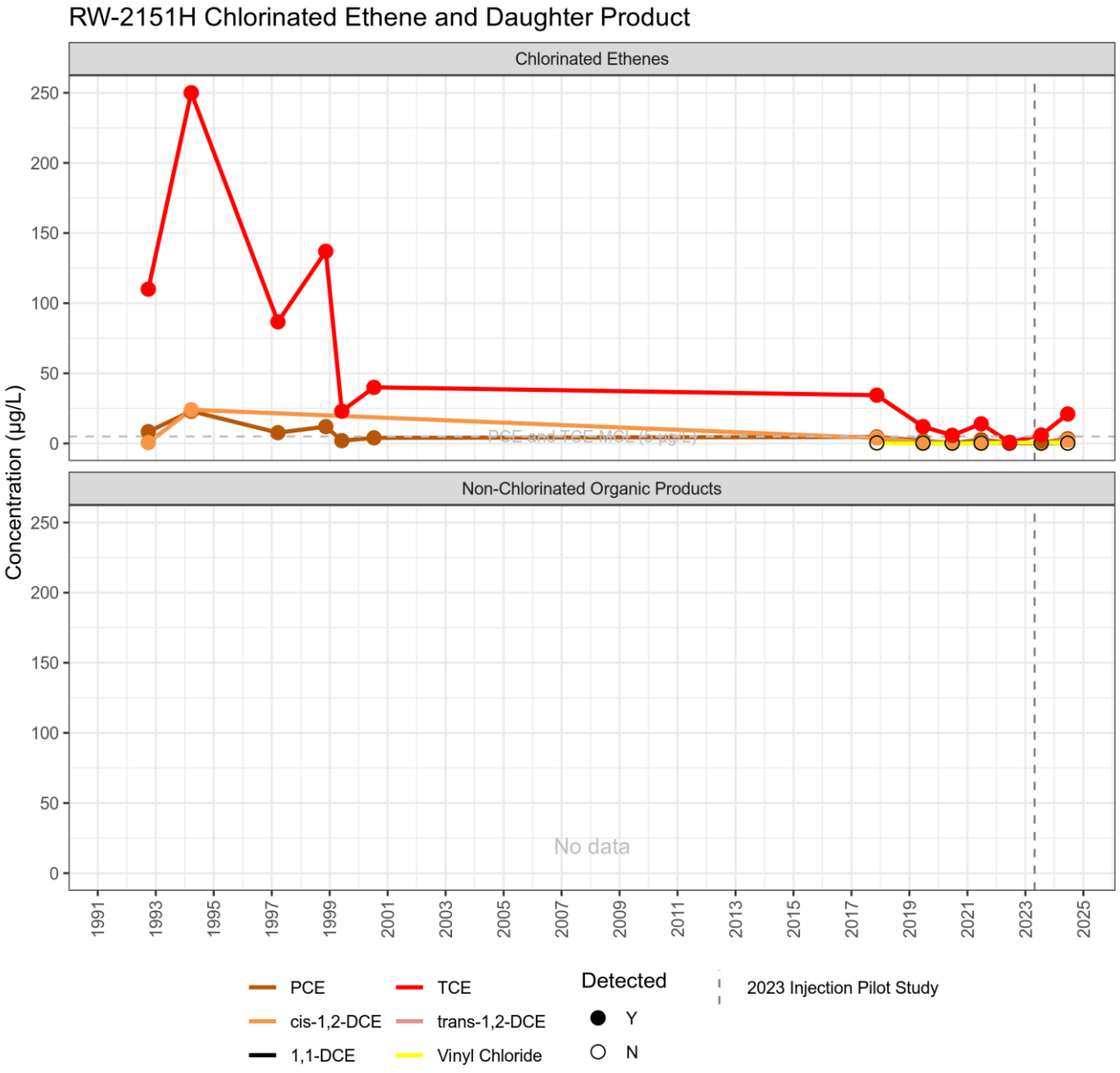
Water Quality



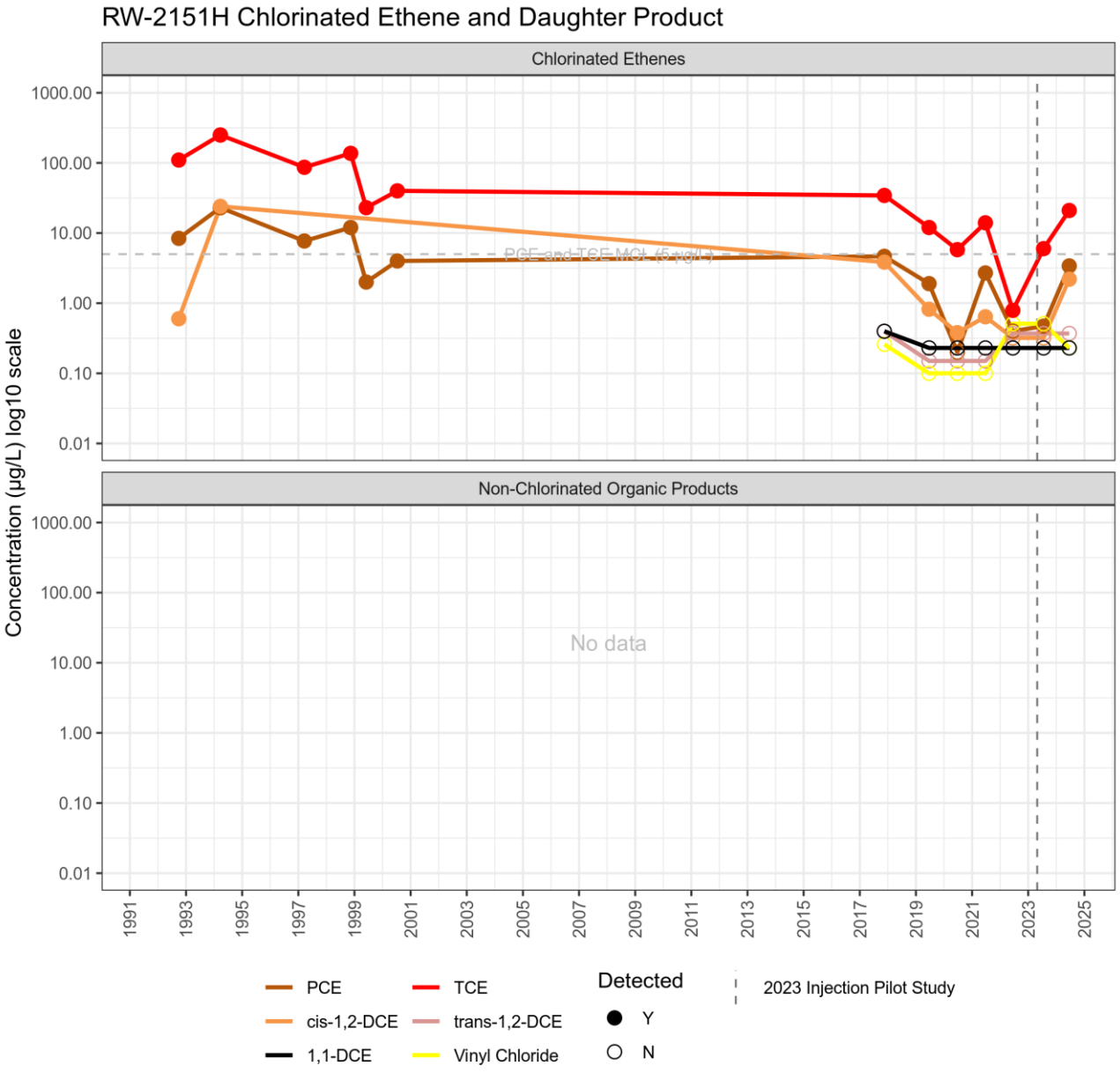
TOC and Redox Parameters



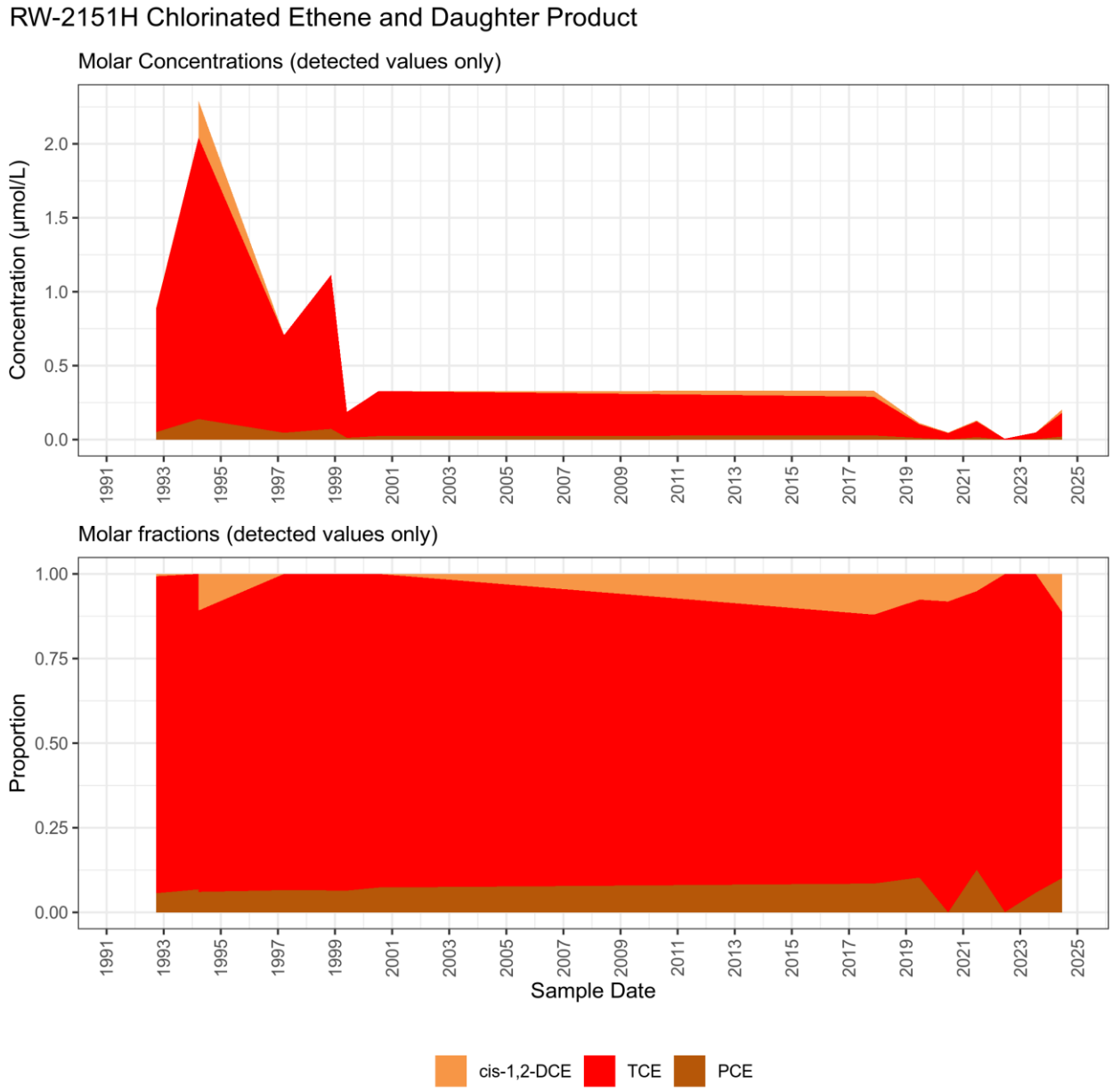
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

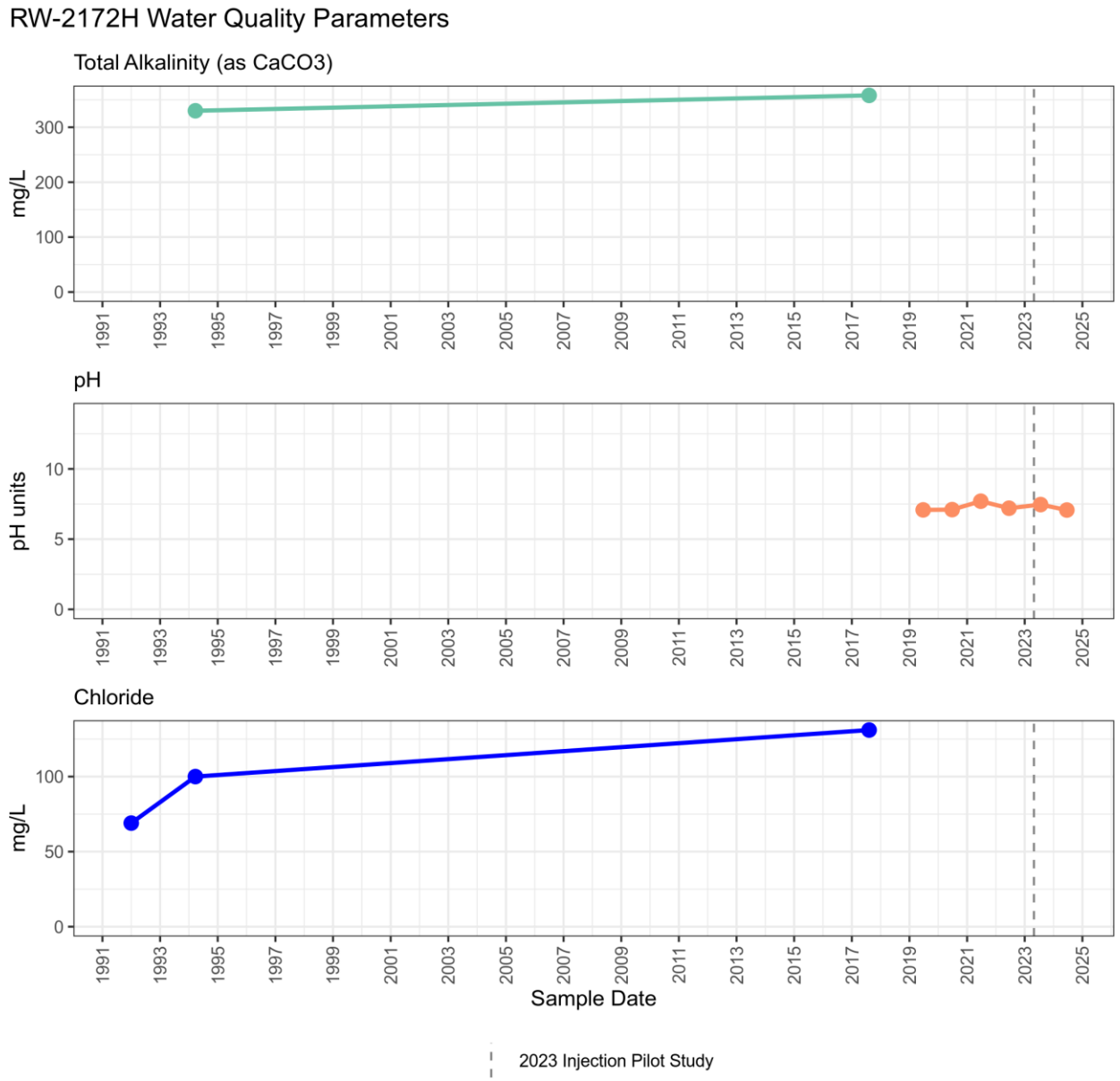


Chlorinated Ethene and Daughter Product Concentration

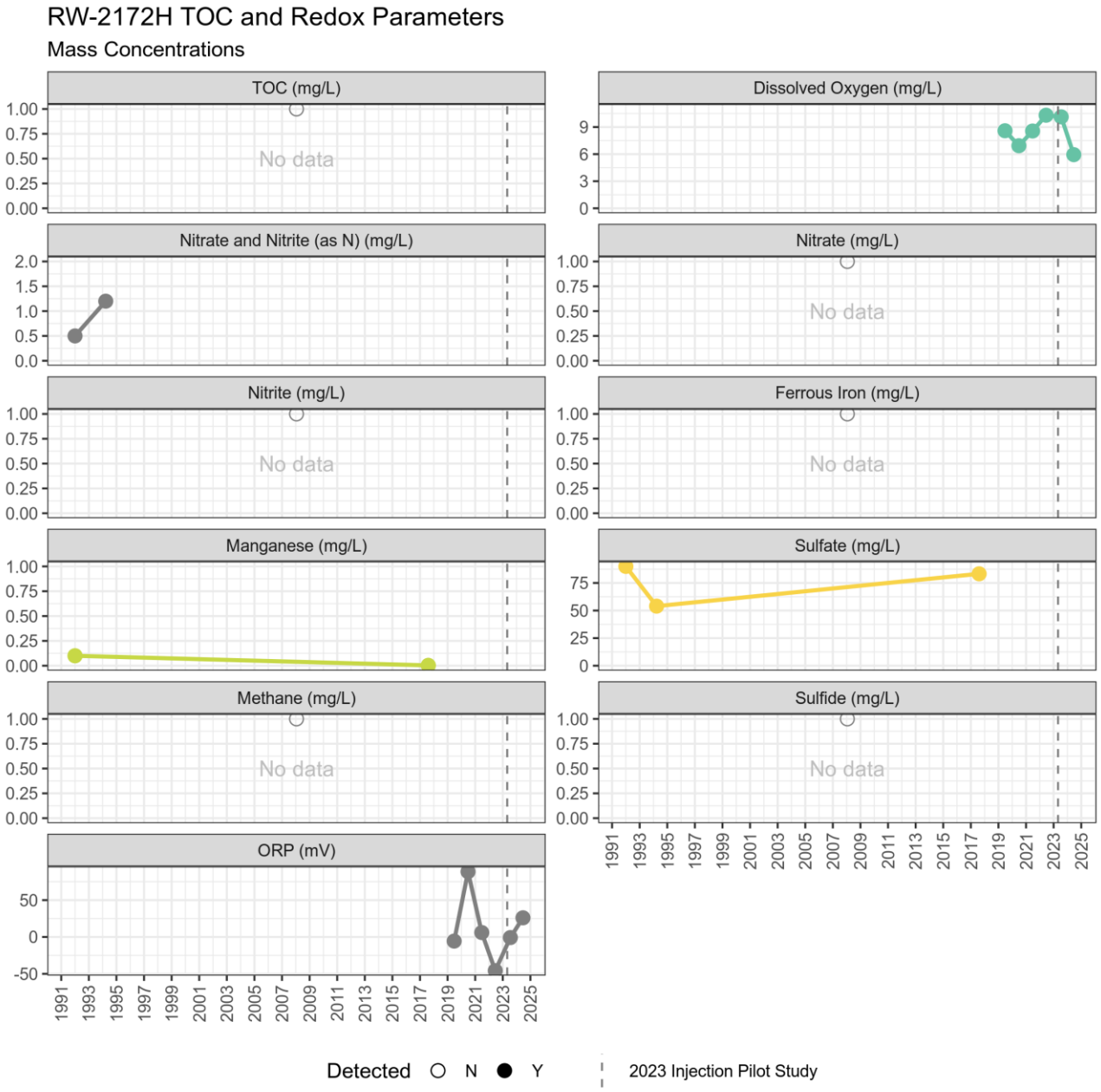


RW-2172H

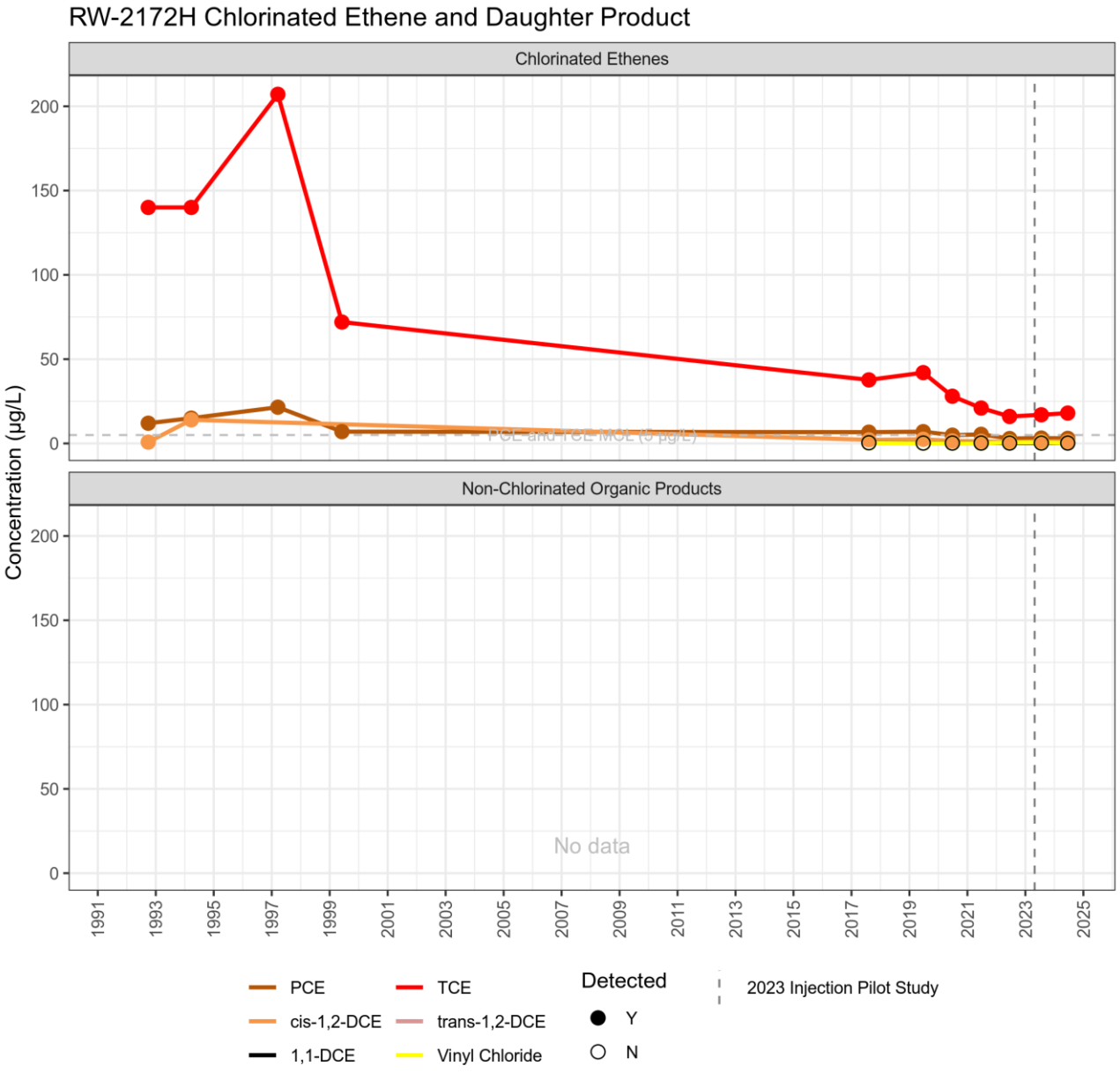
Water Quality



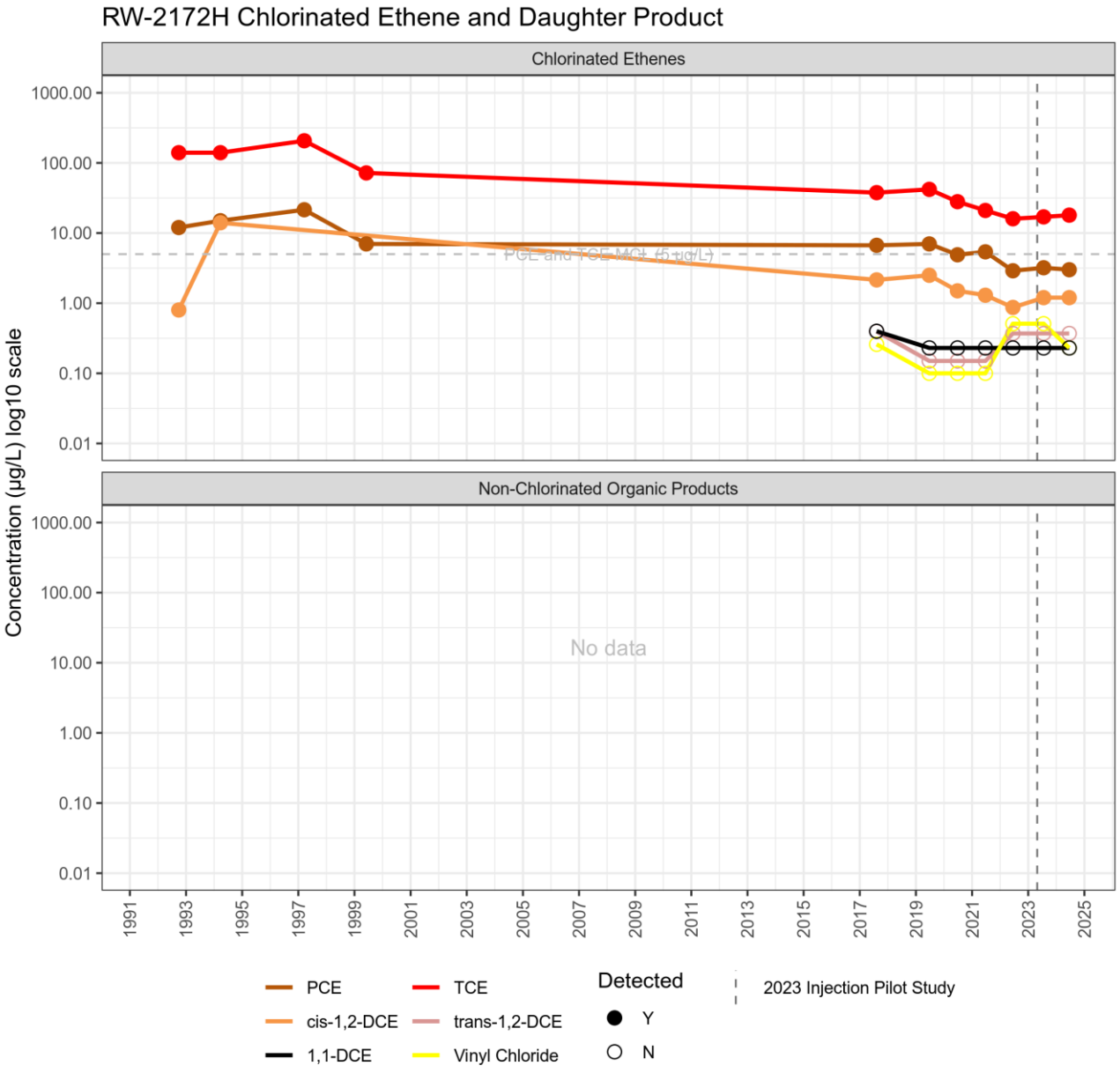
TOC and Redox Parameters



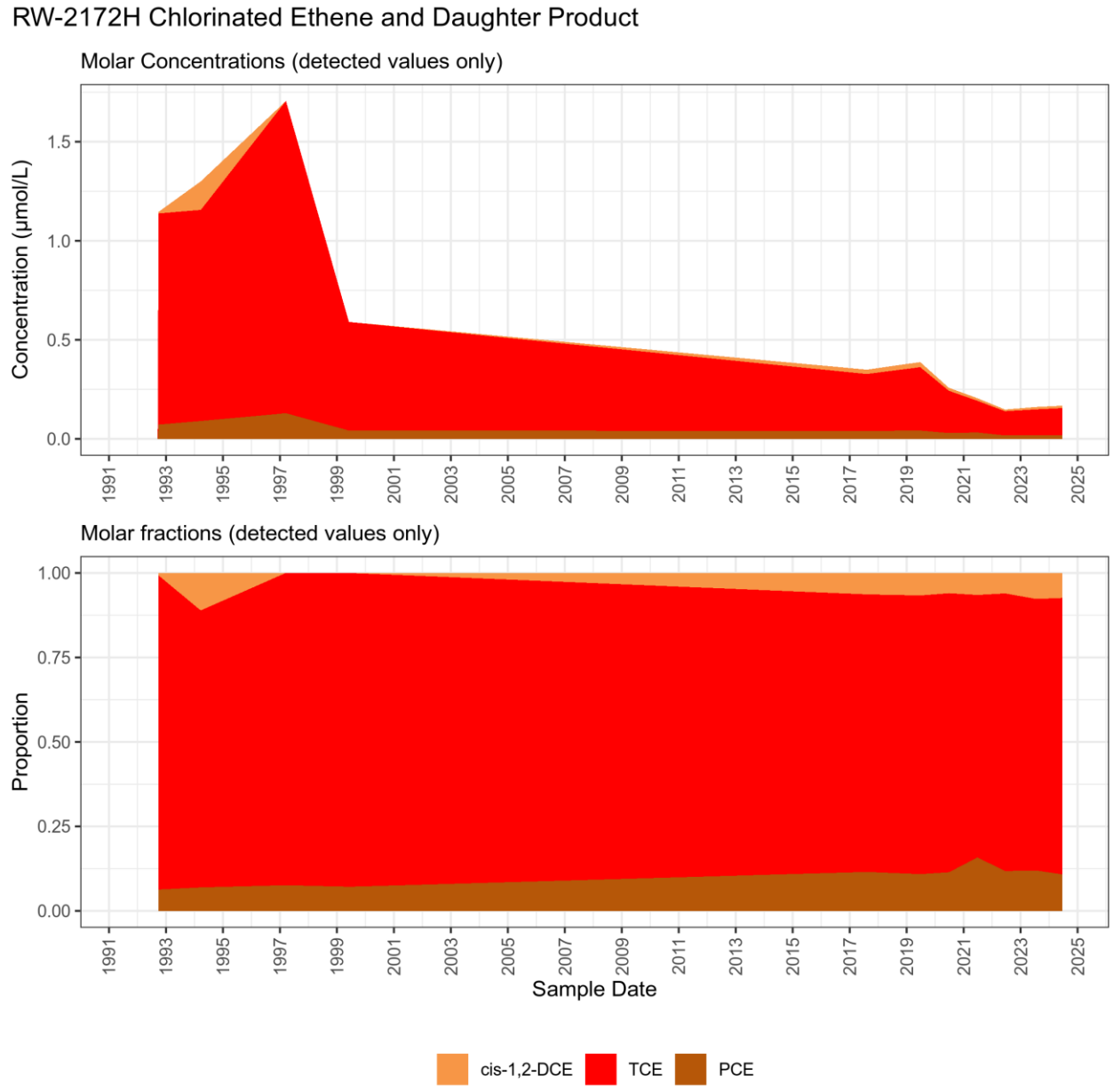
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

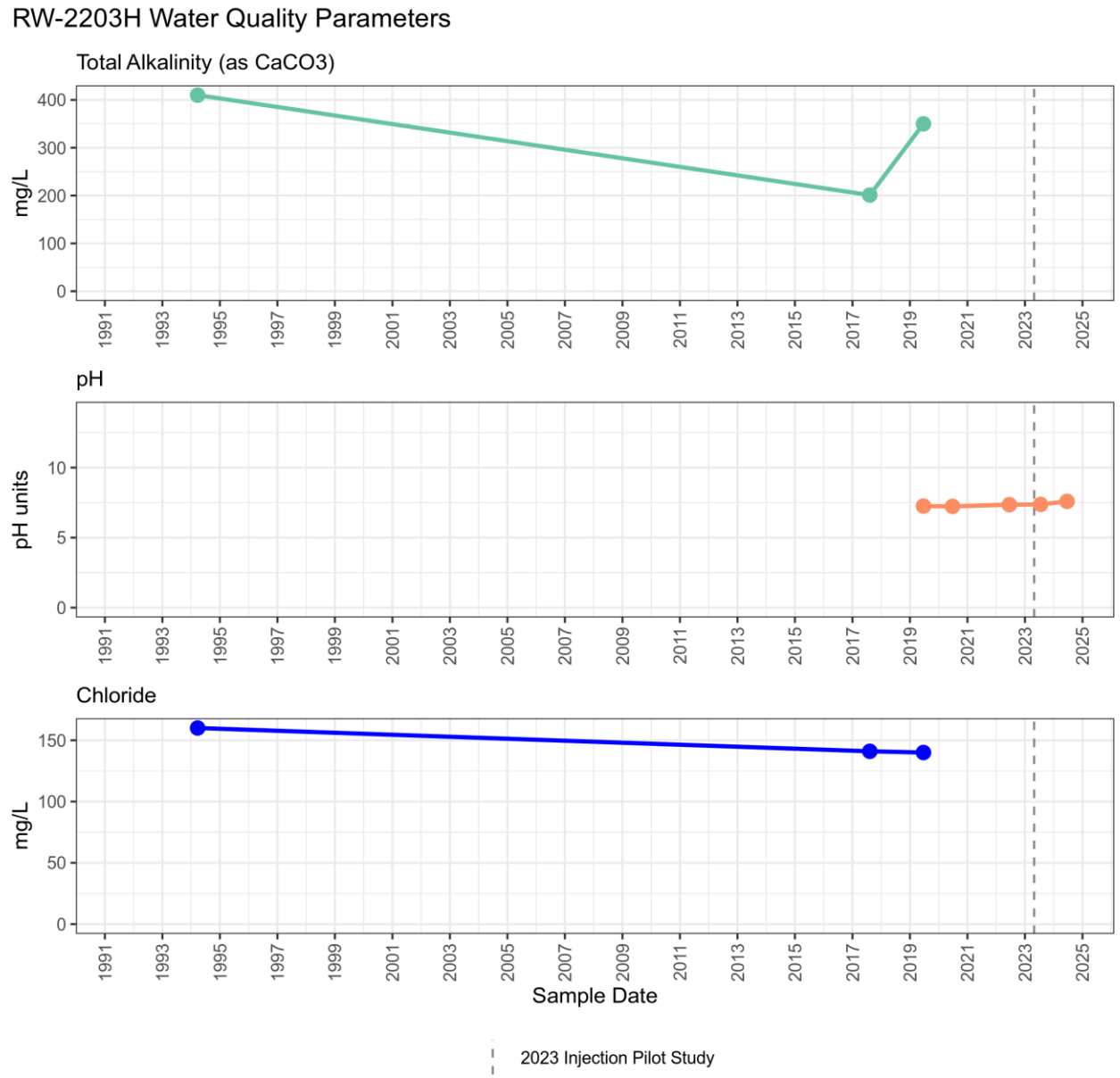


Chlorinated Ethene and Daughter Product Concentration

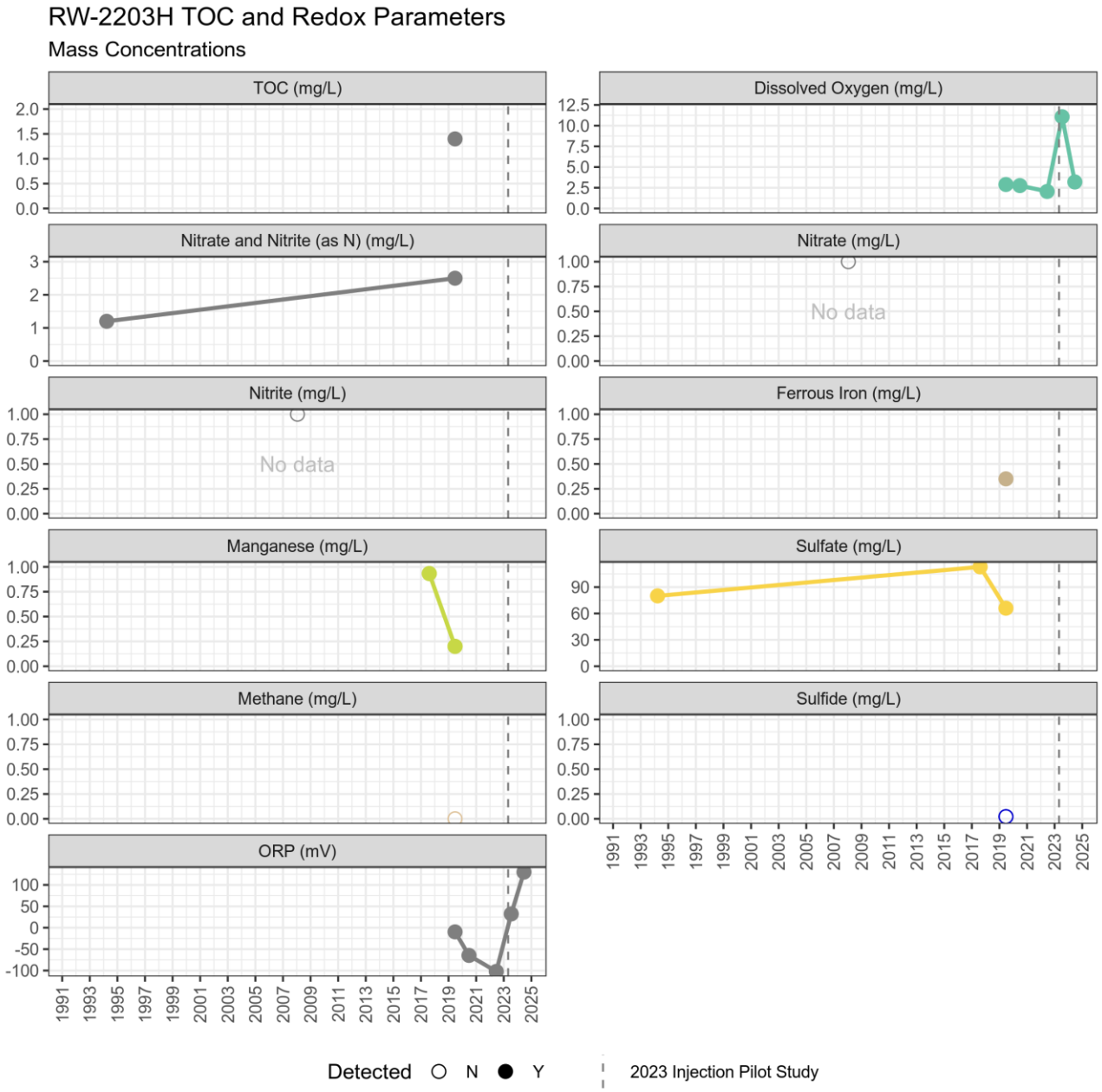


RW-2203H

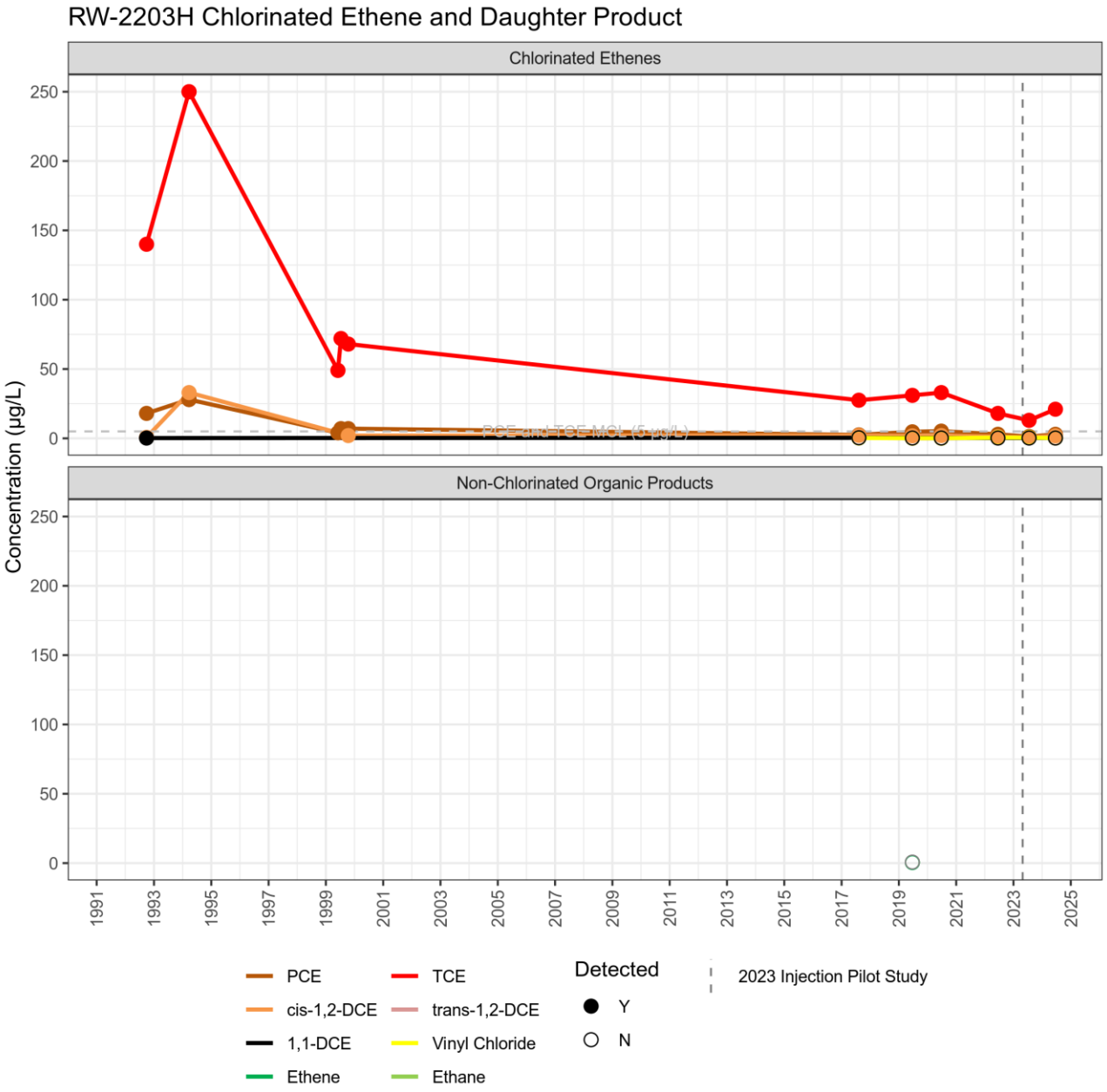
Water Quality



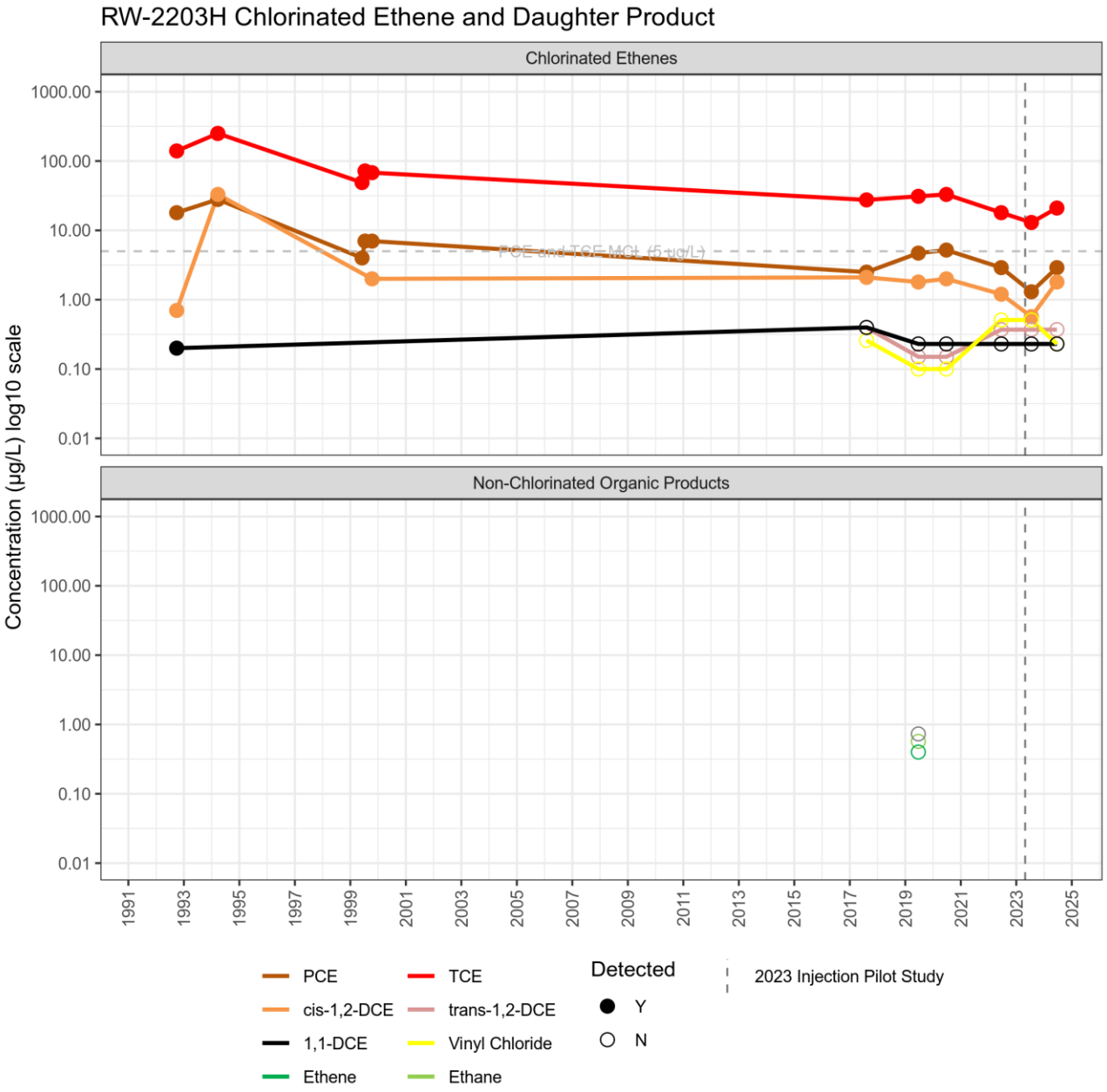
TOC and Redox Parameters



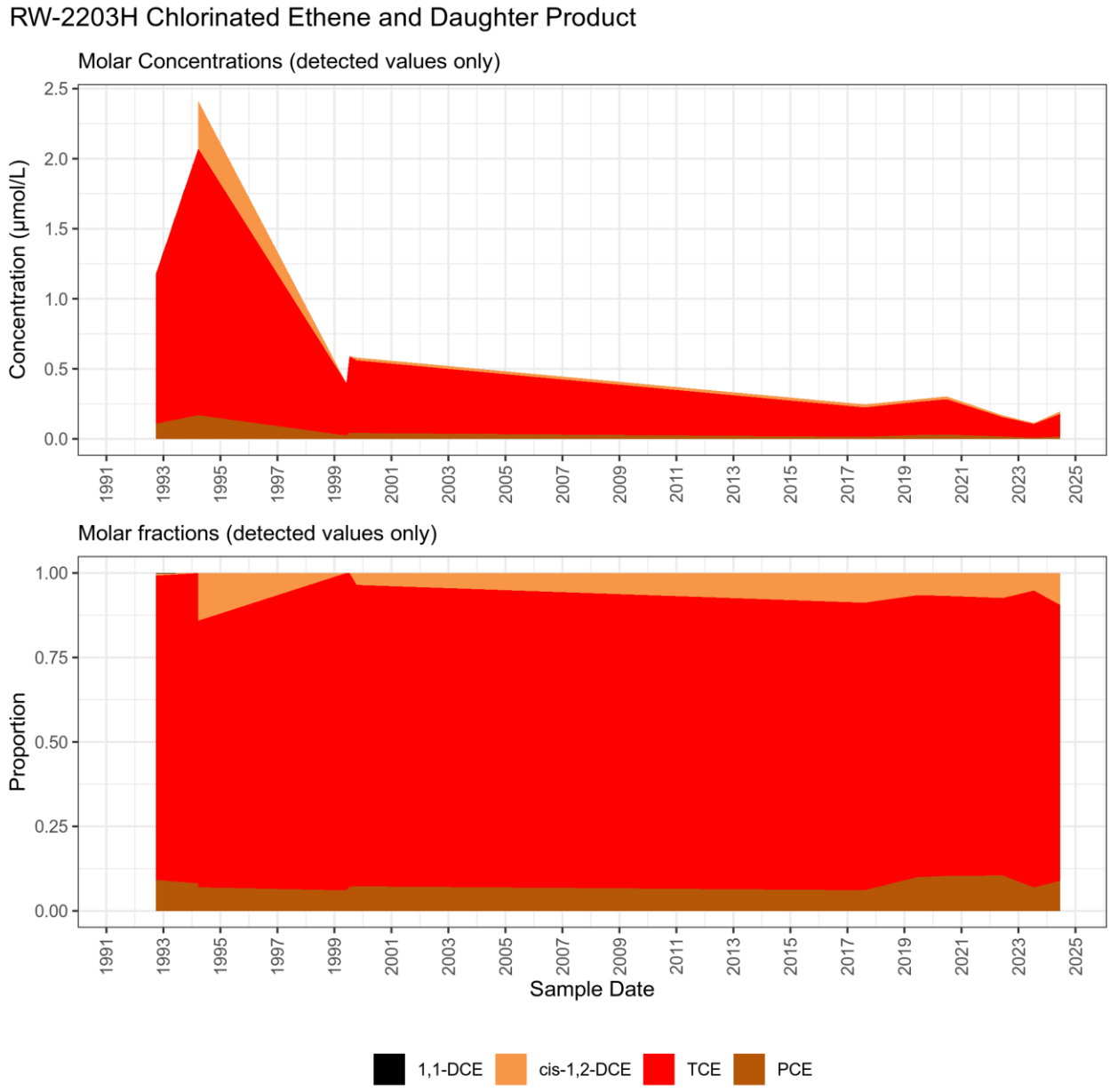
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

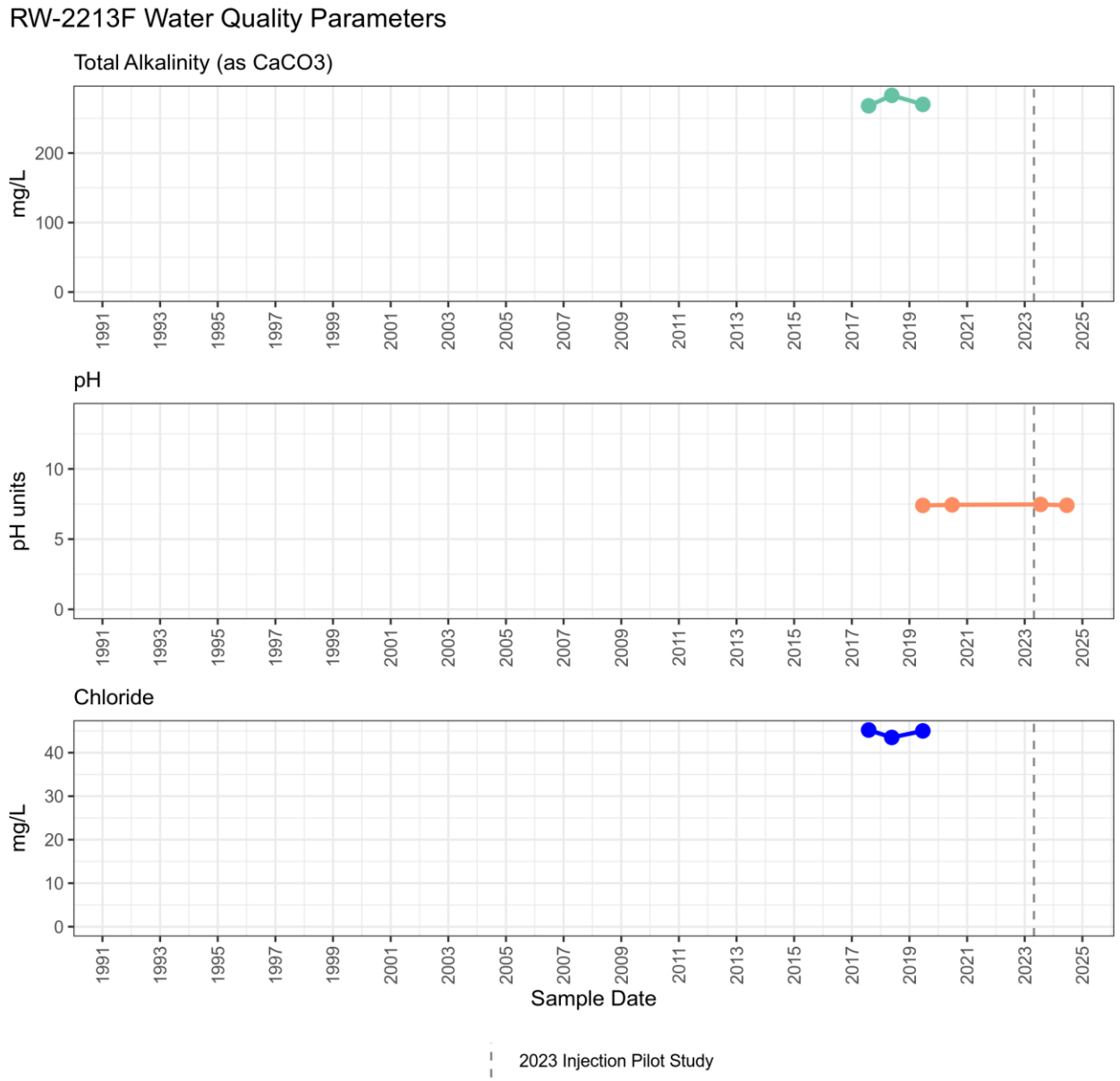


Chlorinated Ethene and Daughter Product Concentration

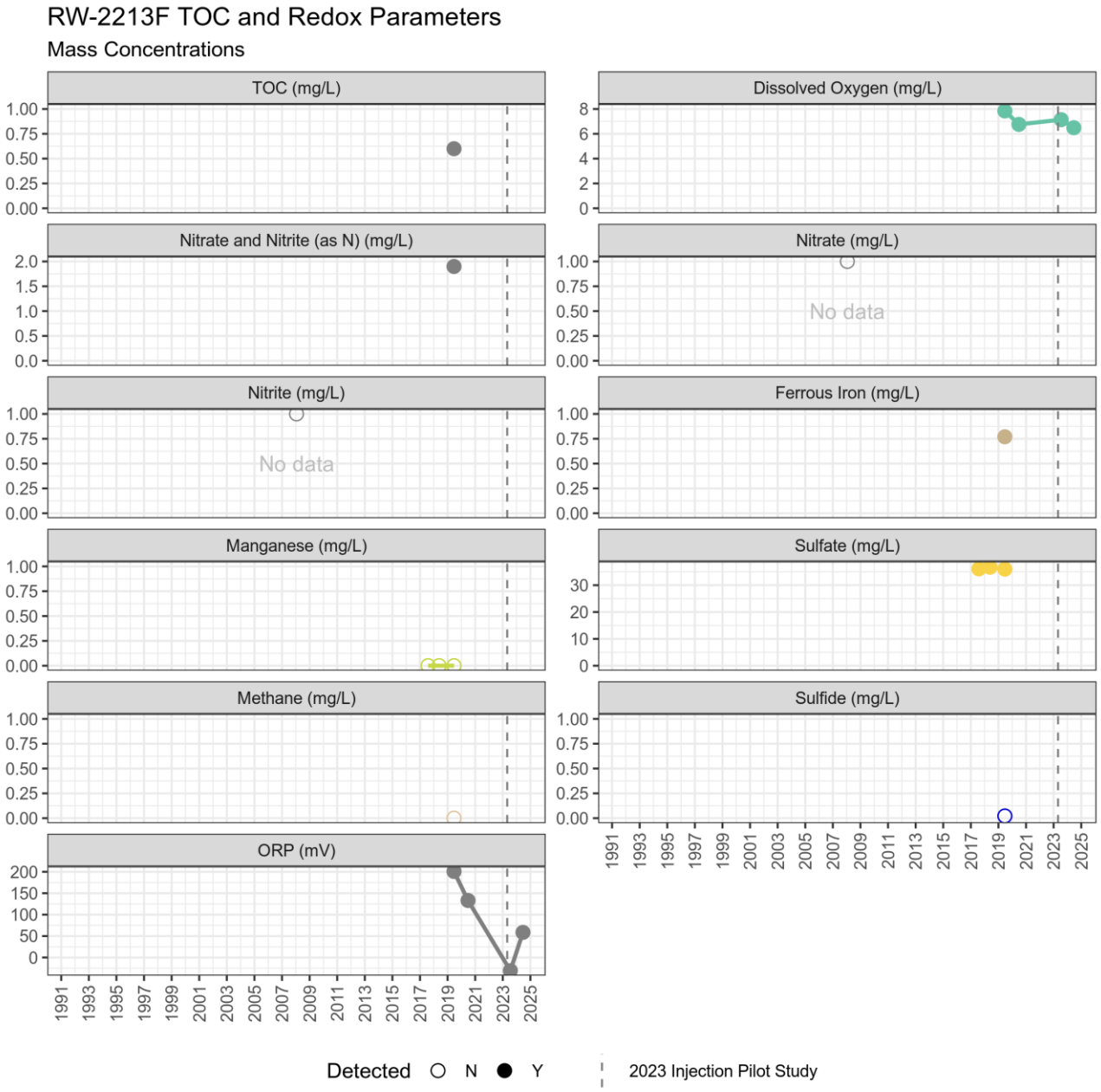


RW-2213F

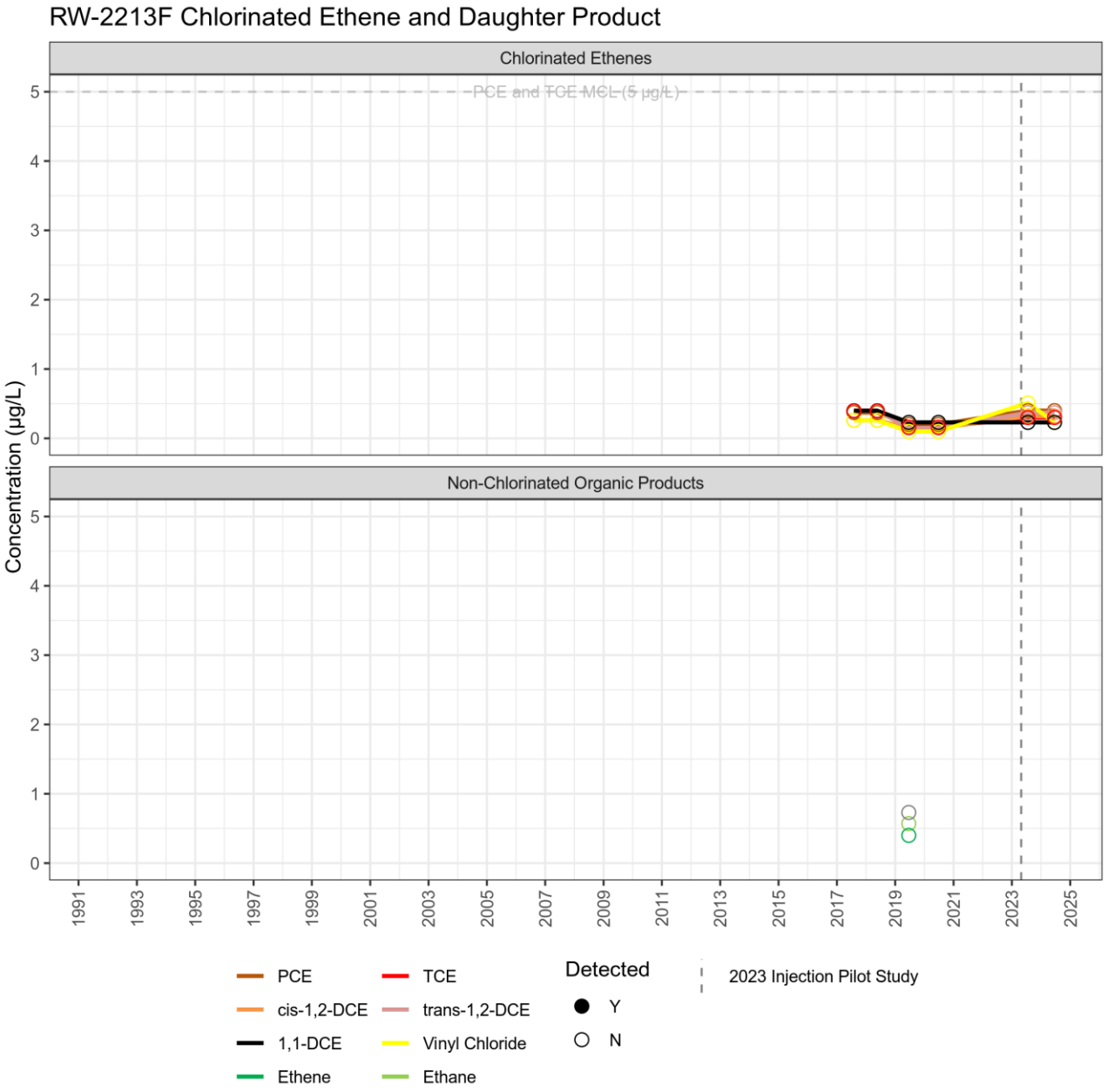
Water Quality



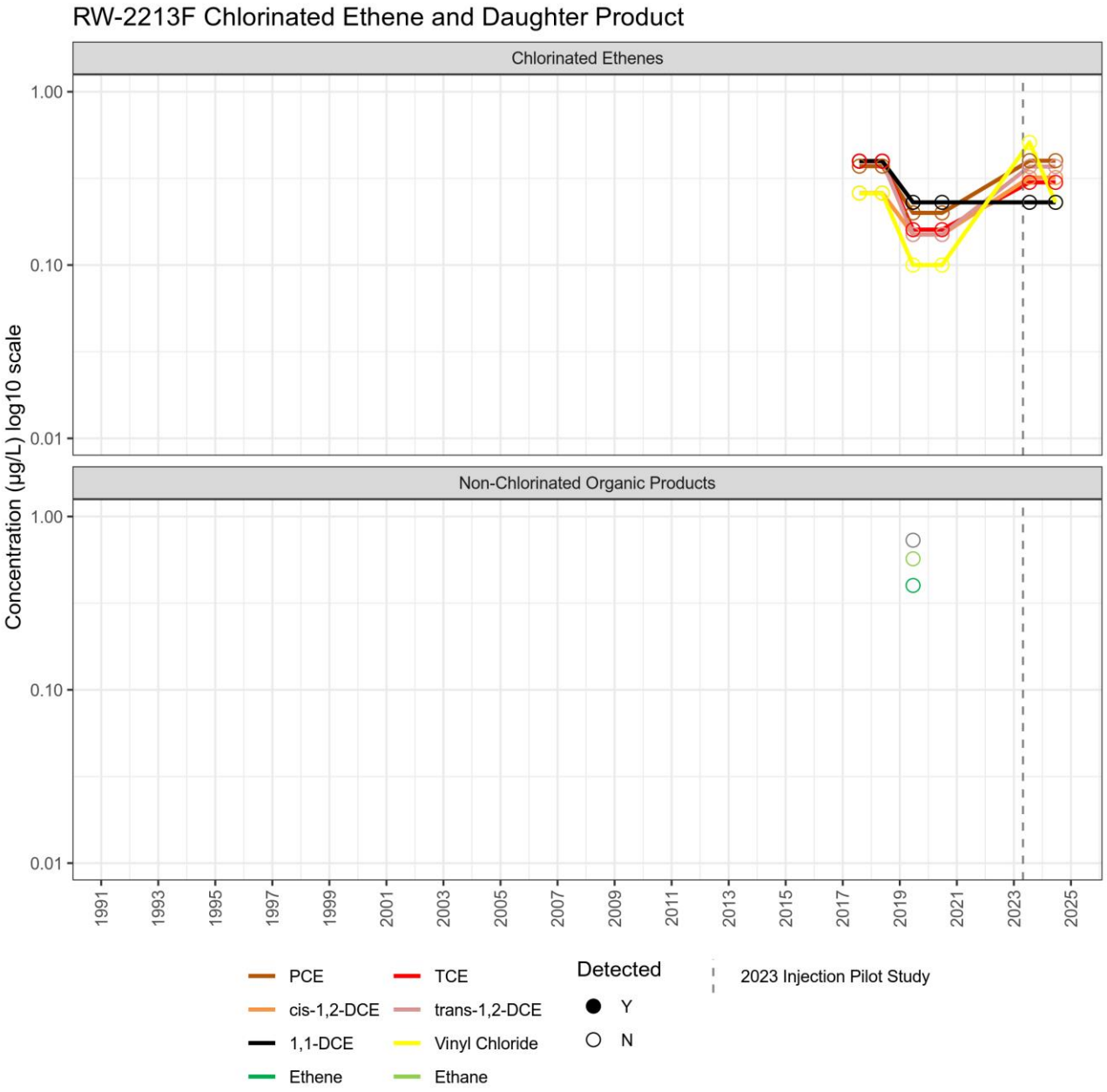
TOC and Redox Parameters



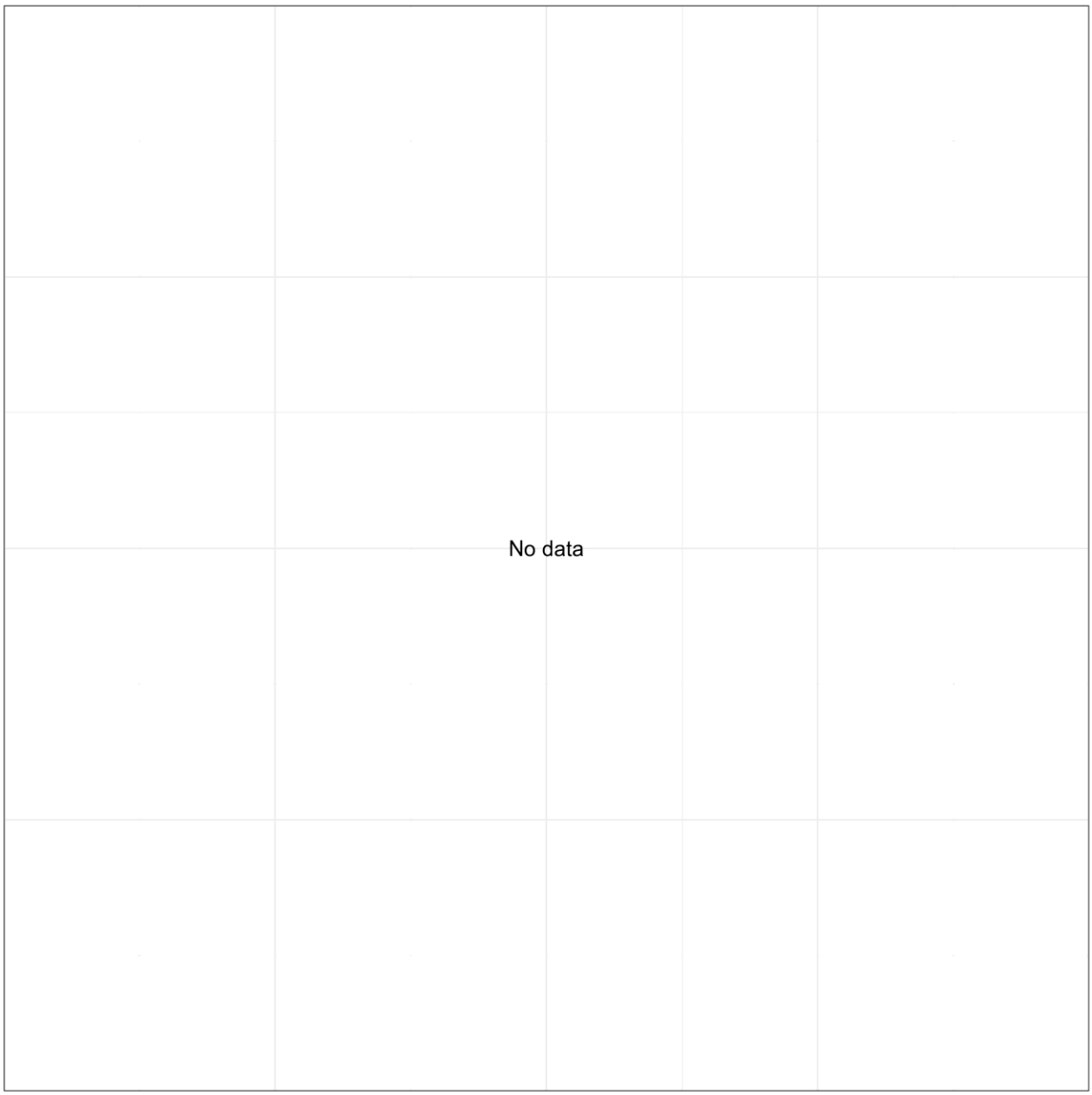
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

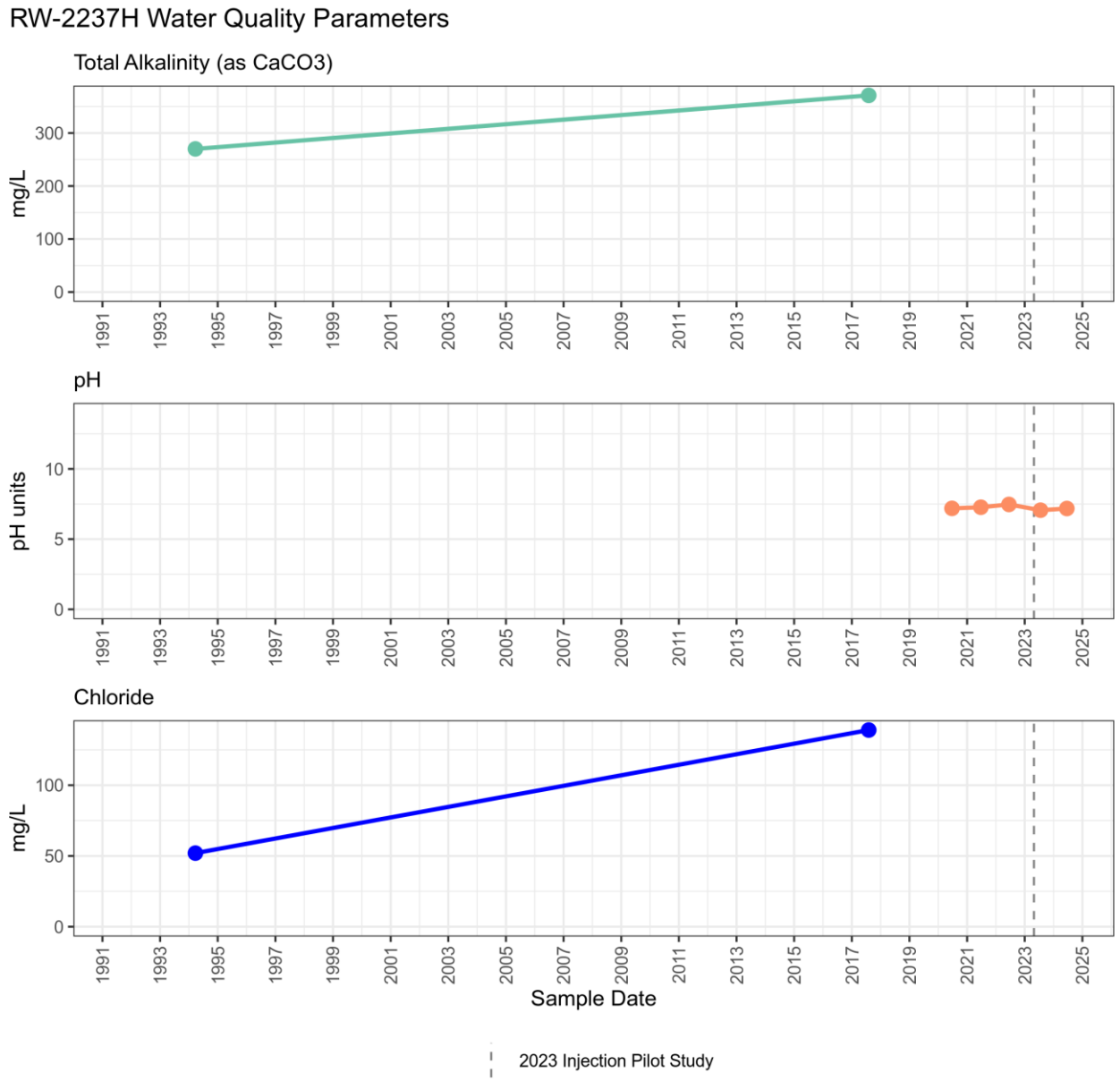


Chlorinated Ethene and Daughter Product Concentration

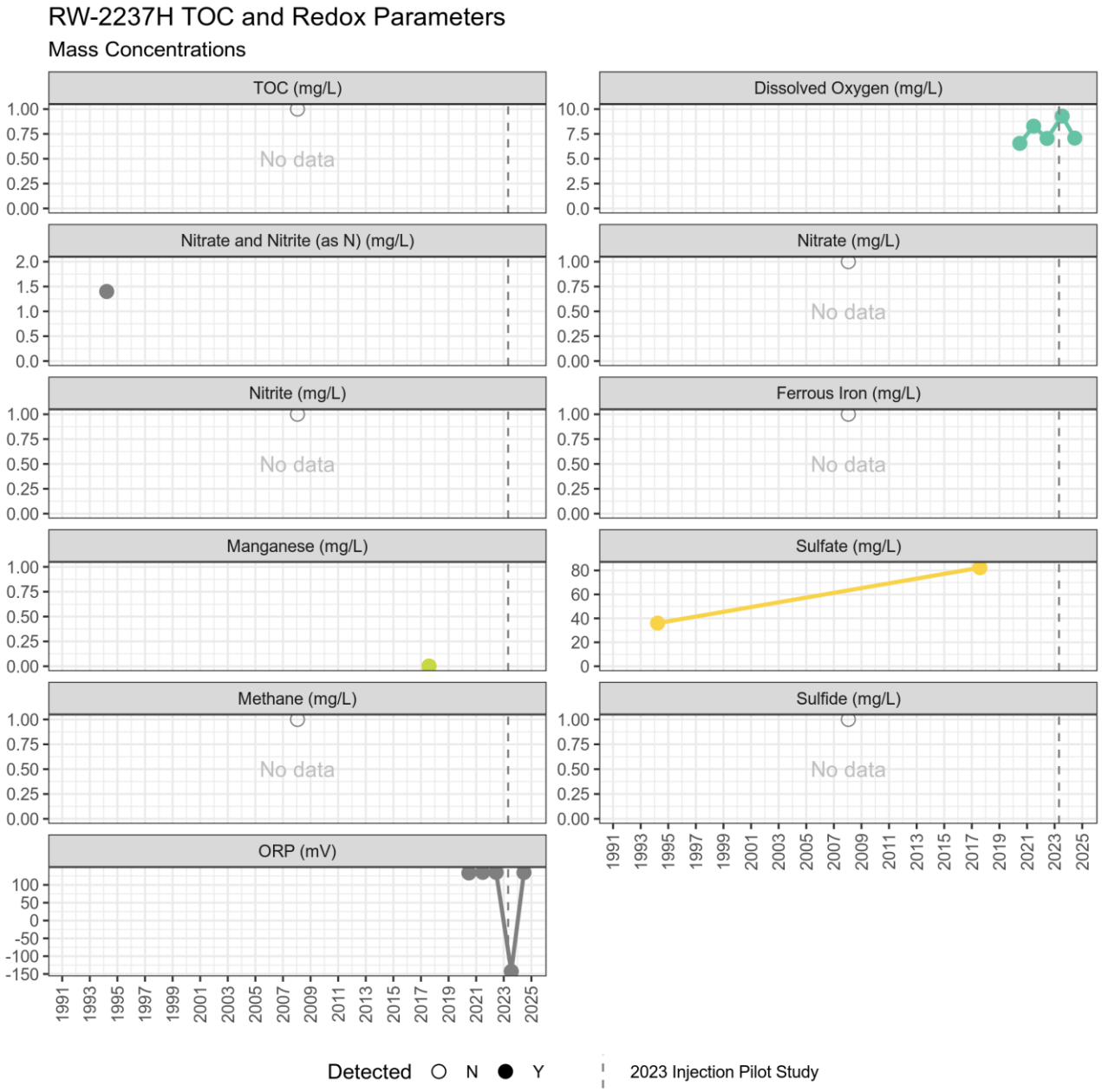


RW-2237H

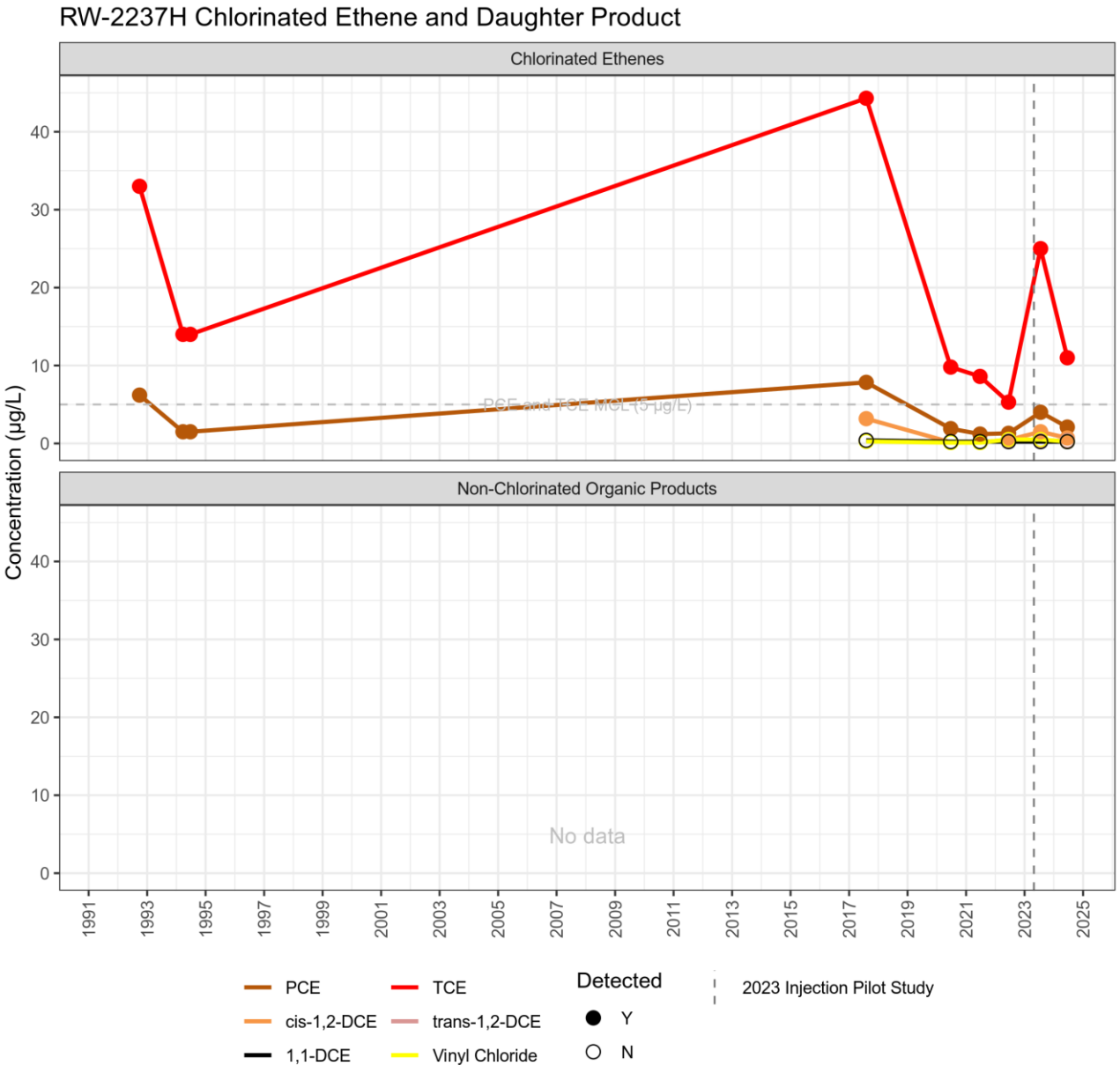
Water Quality



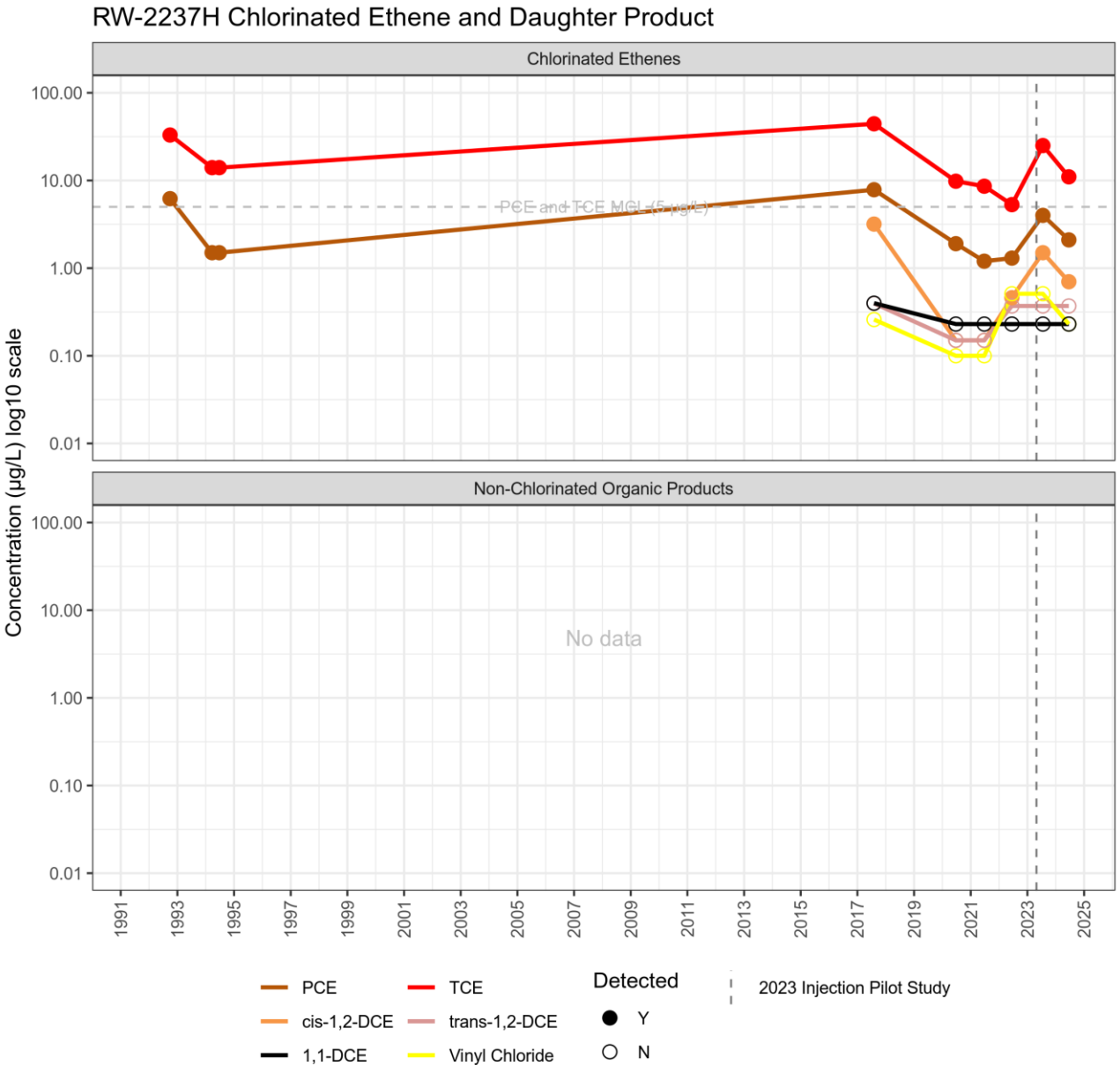
TOC and Redox Parameters



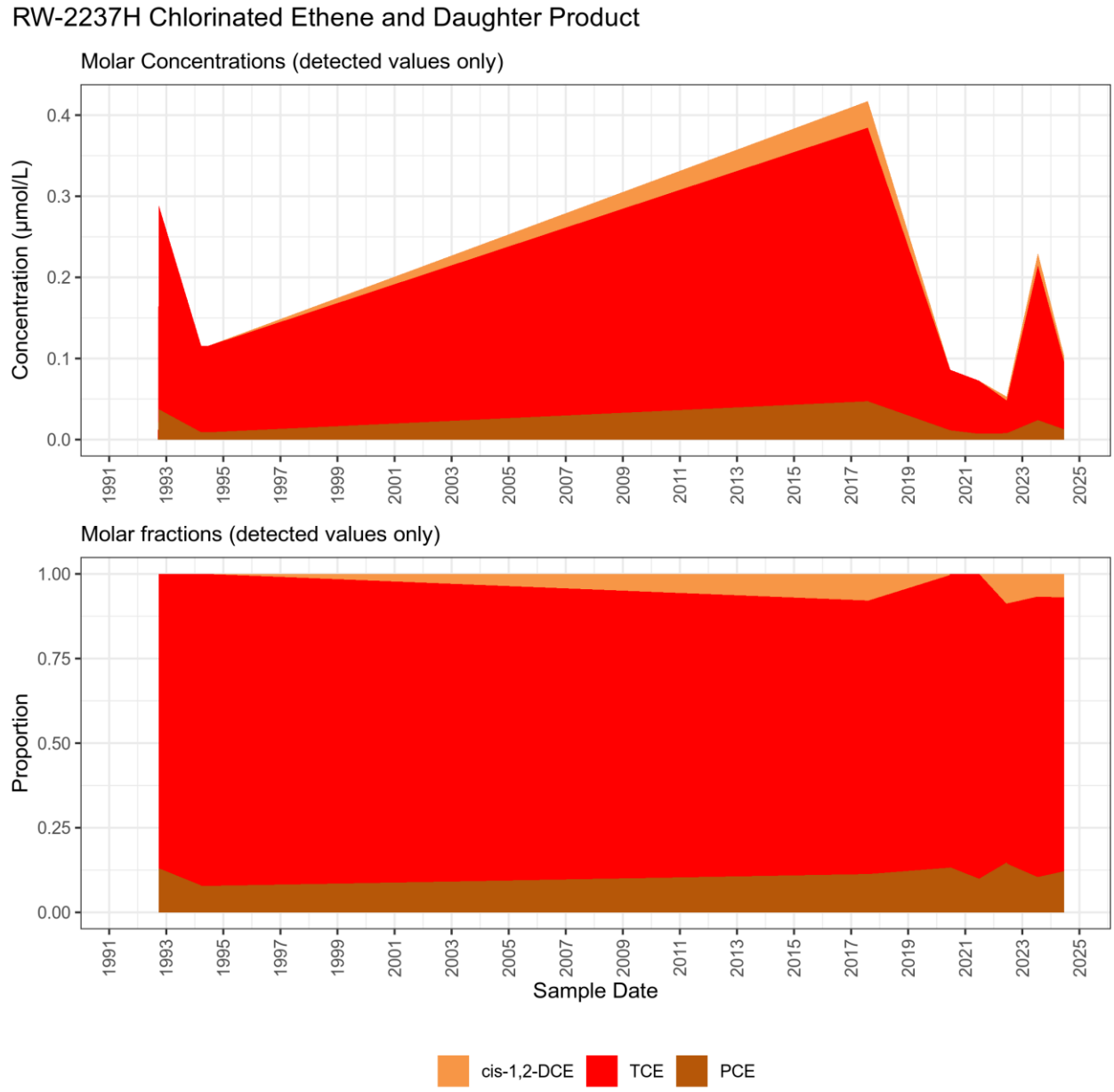
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

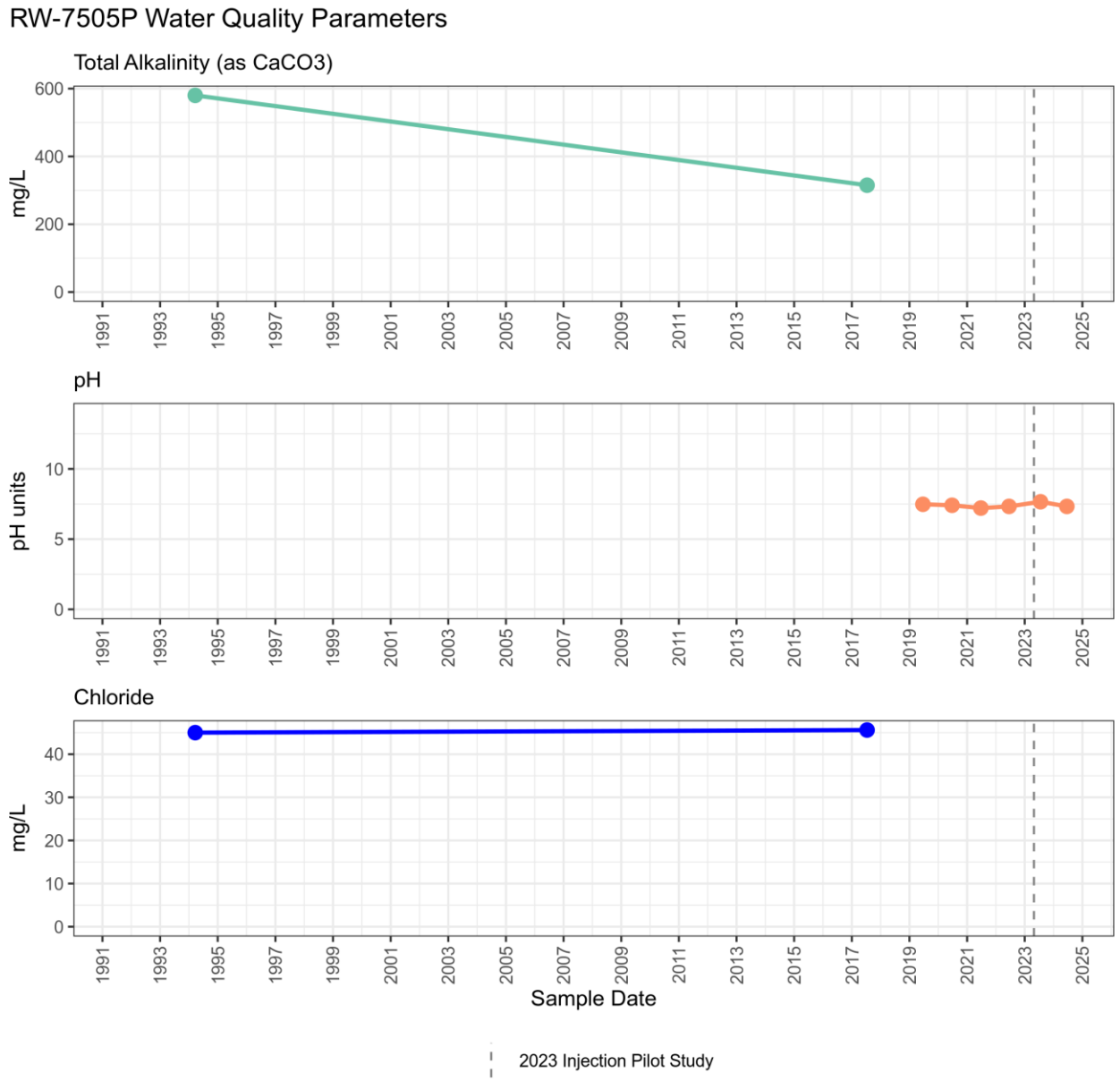


Chlorinated Ethene and Daughter Product Concentration

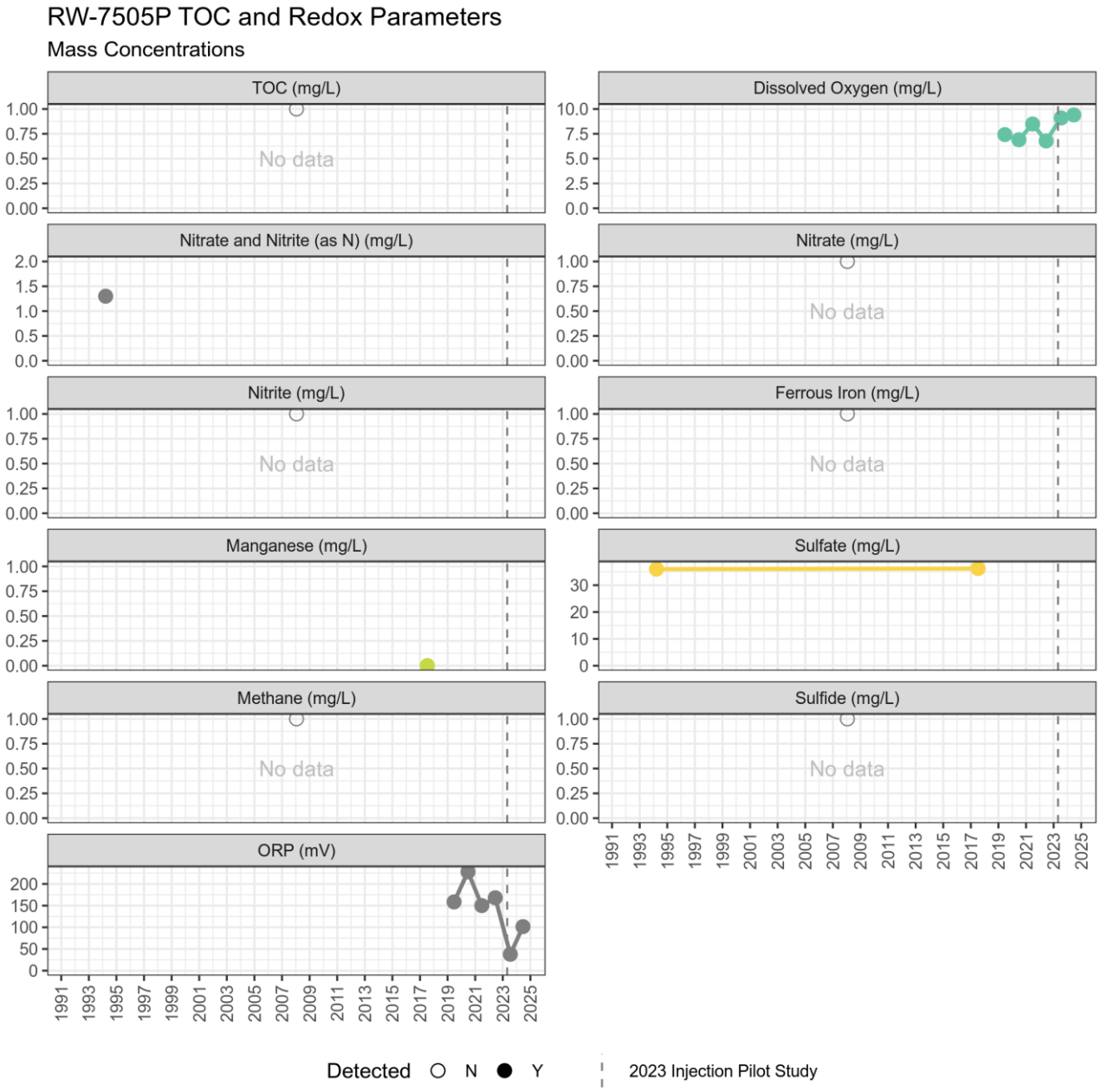


RW-7505P

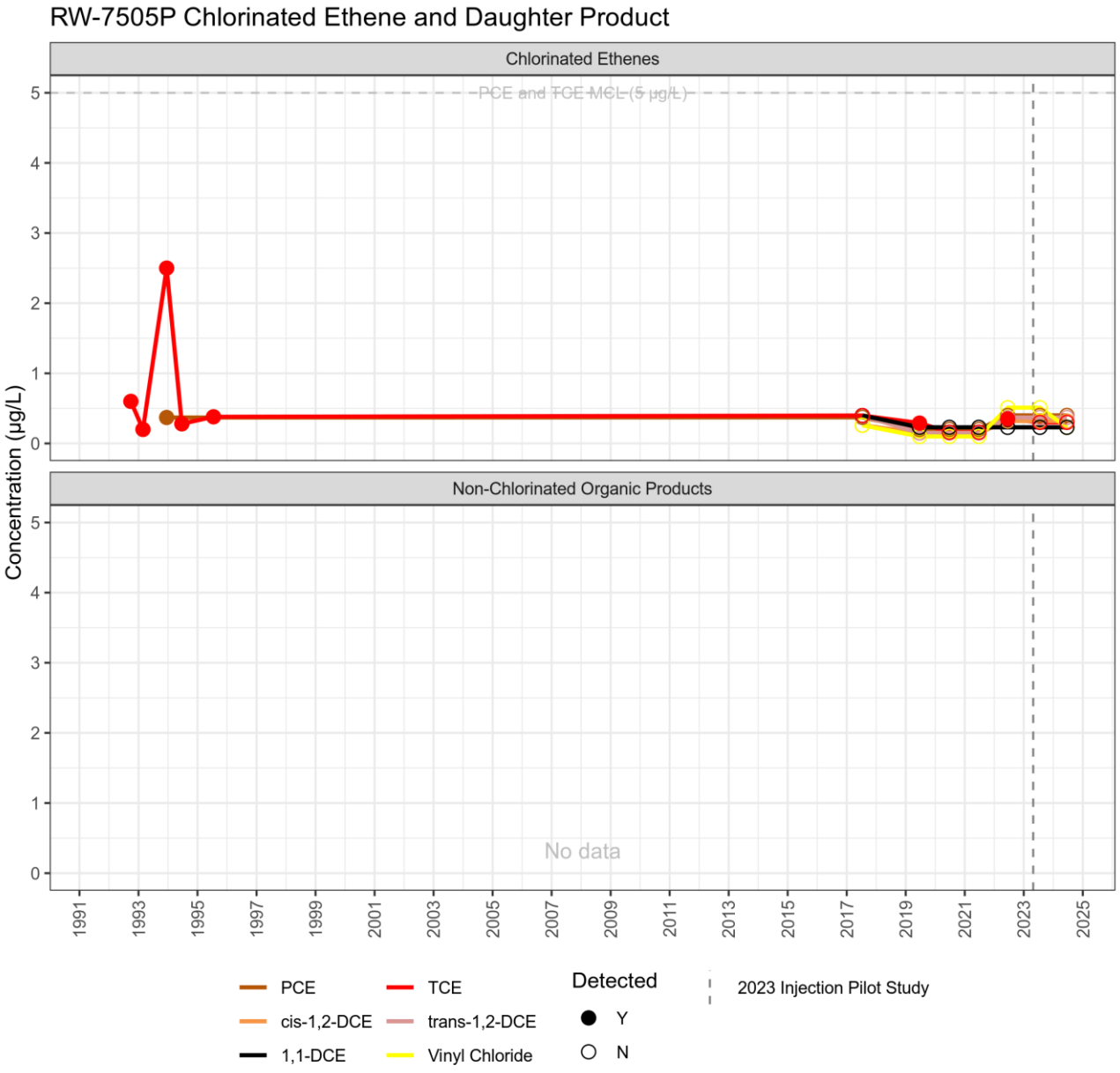
Water Quality



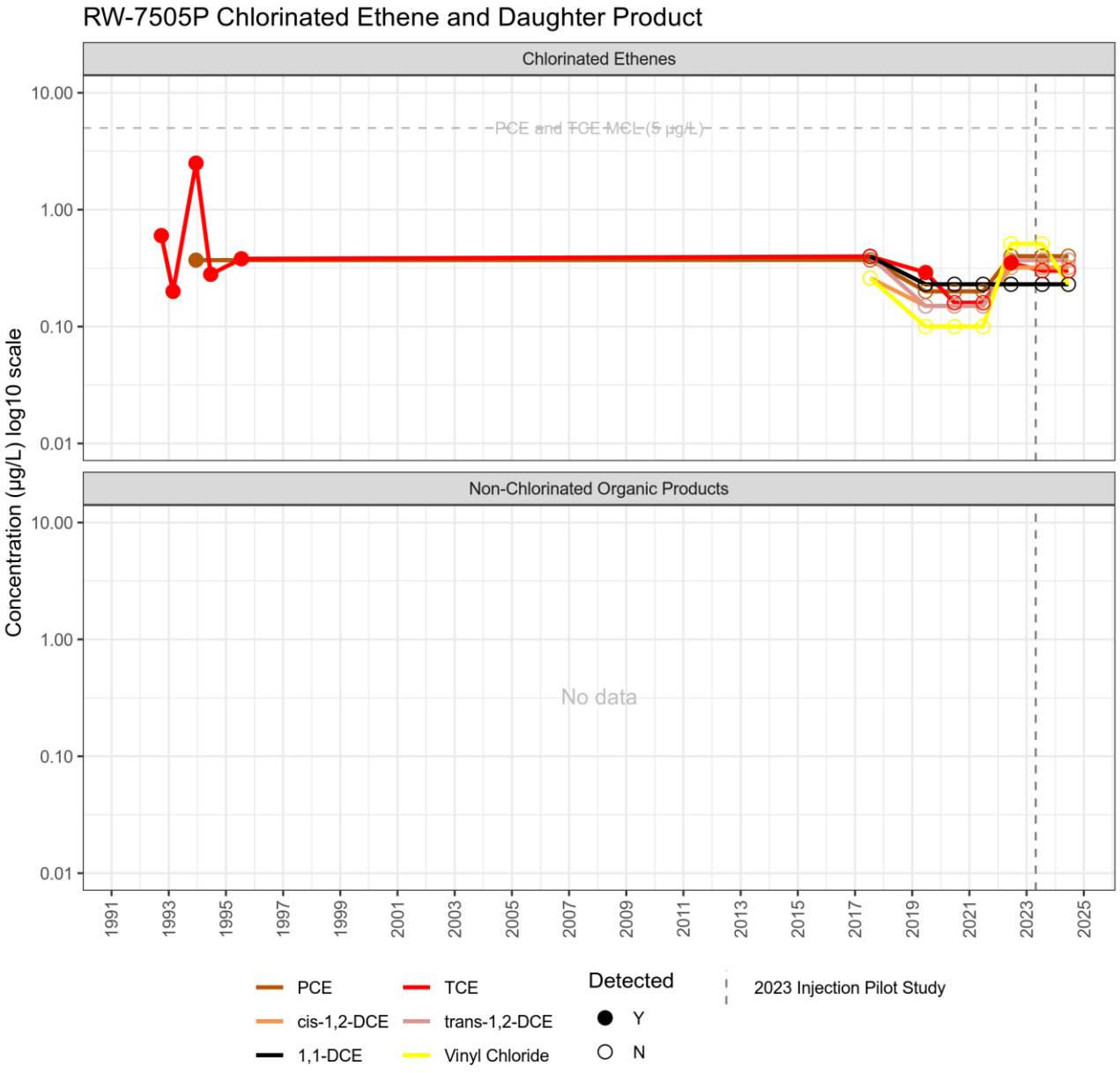
TOC and Redox Parameters



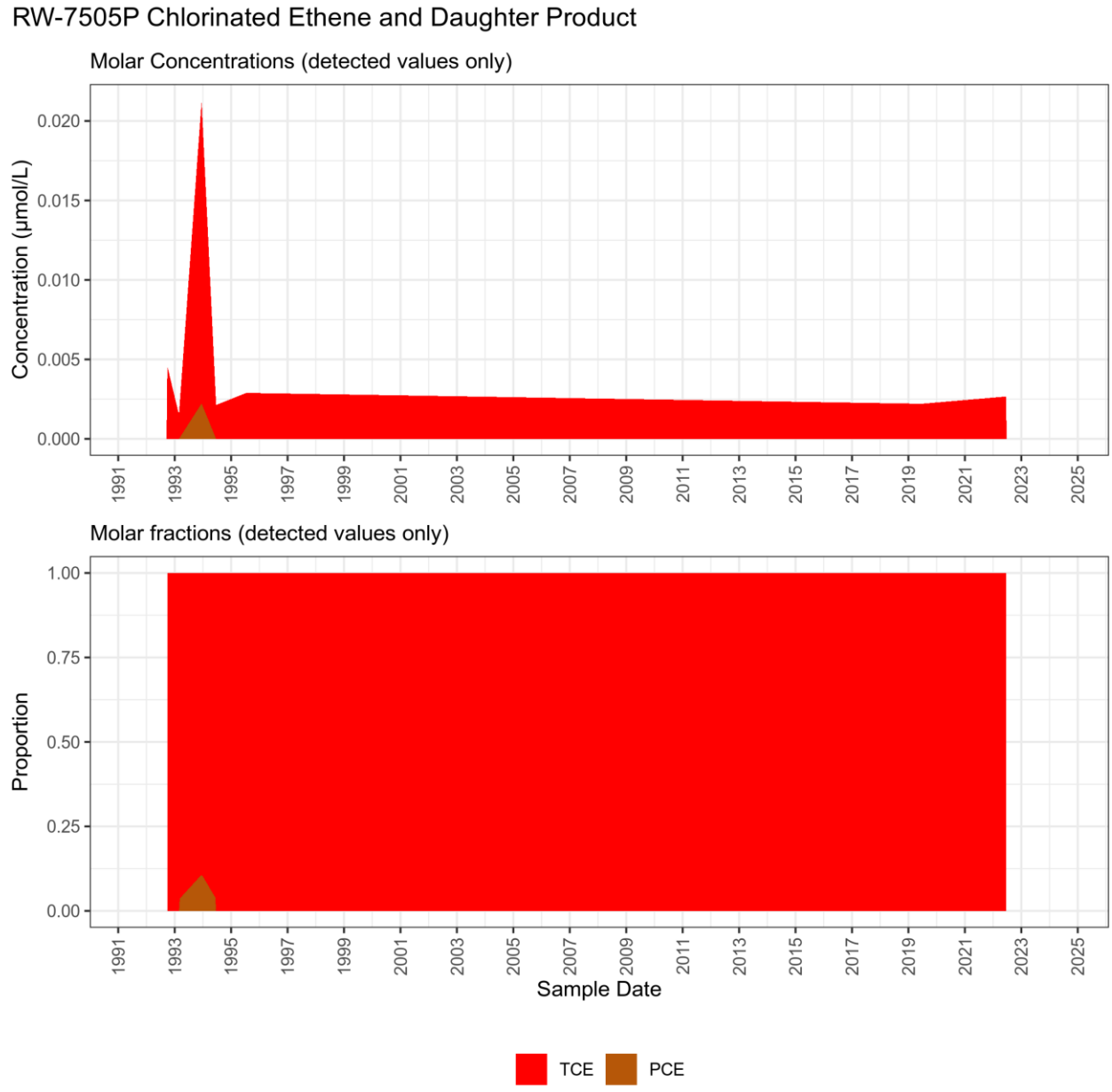
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

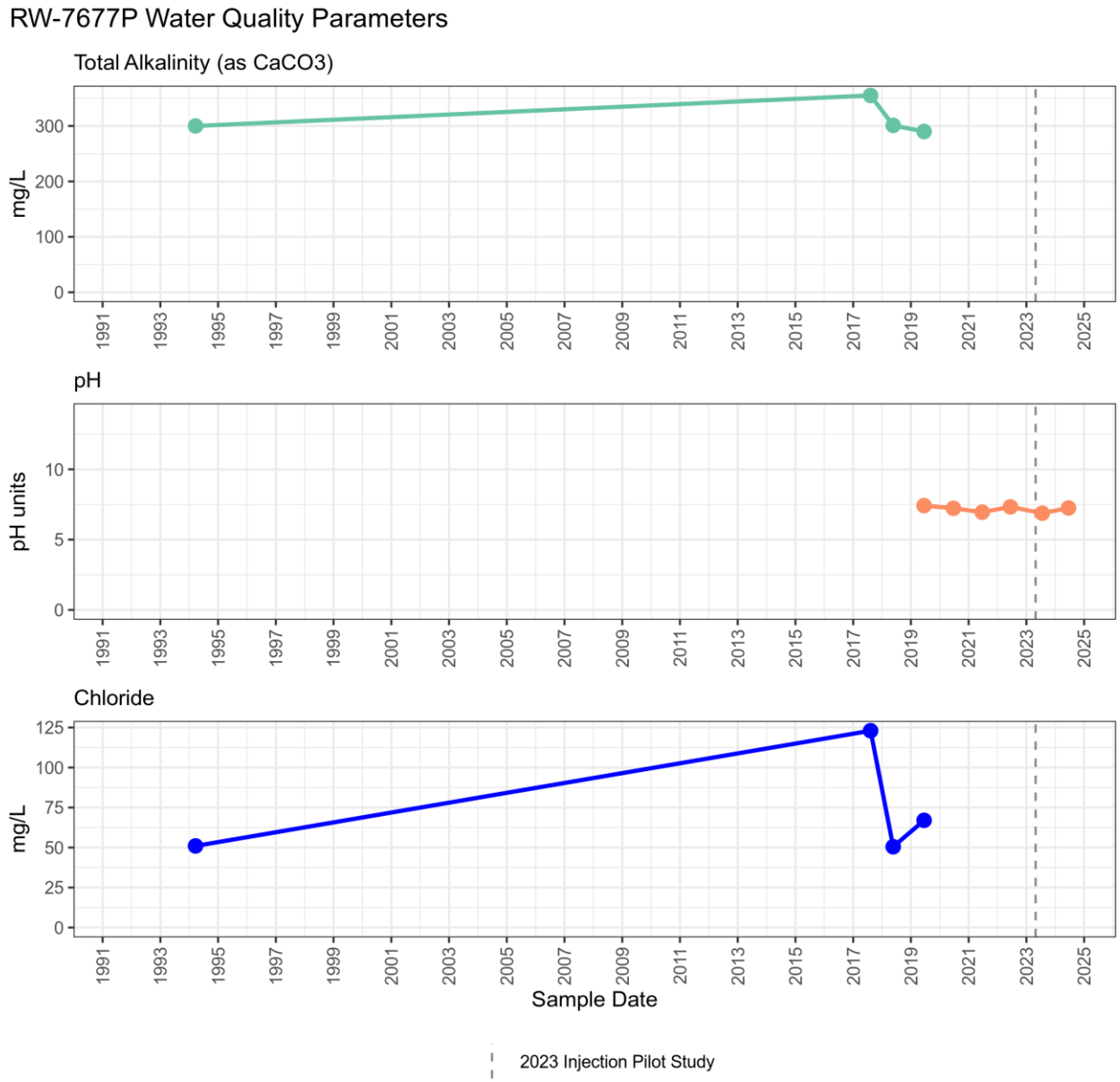


Chlorinated Ethene and Daughter Product Concentration

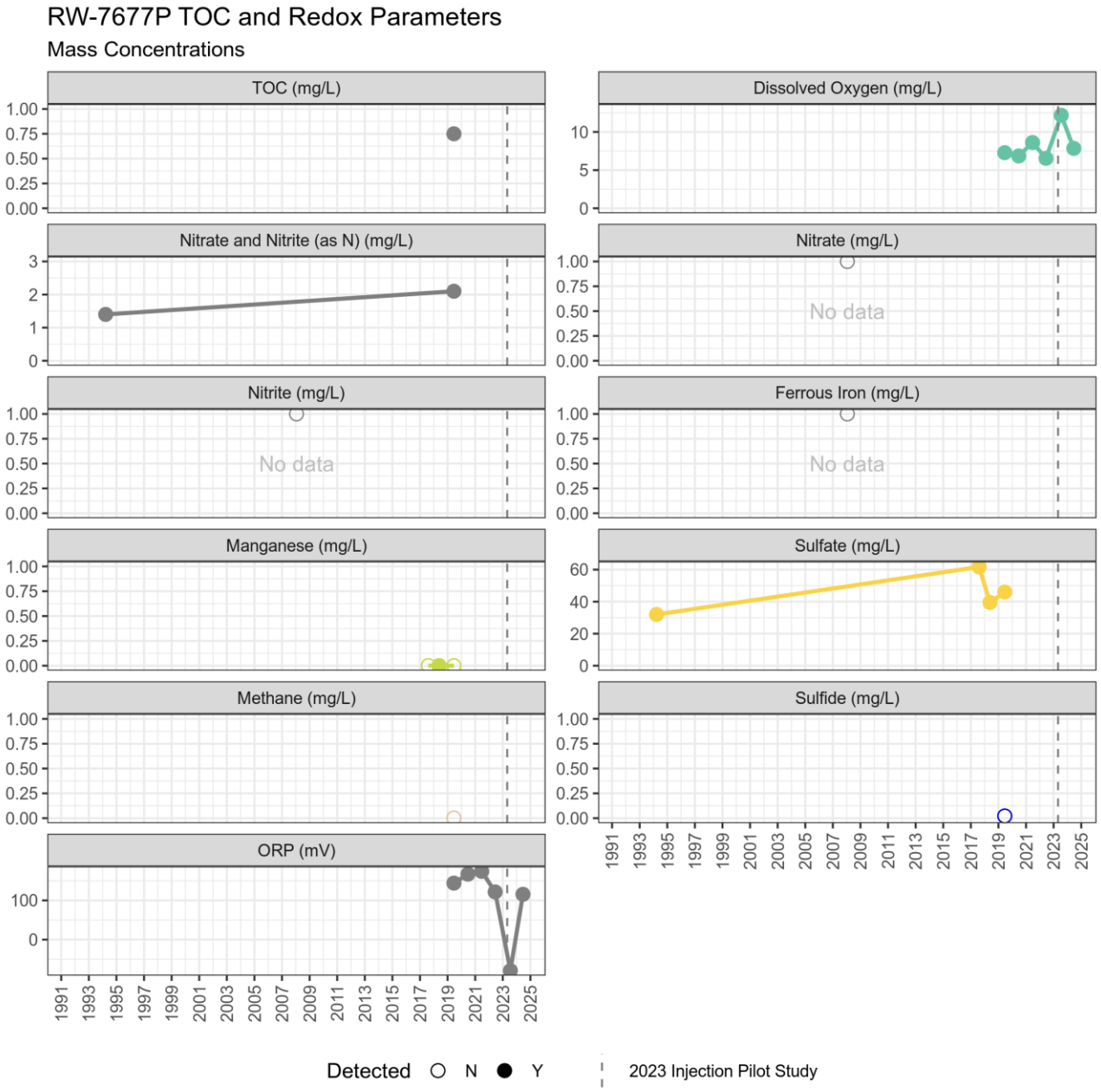


RW-7677P

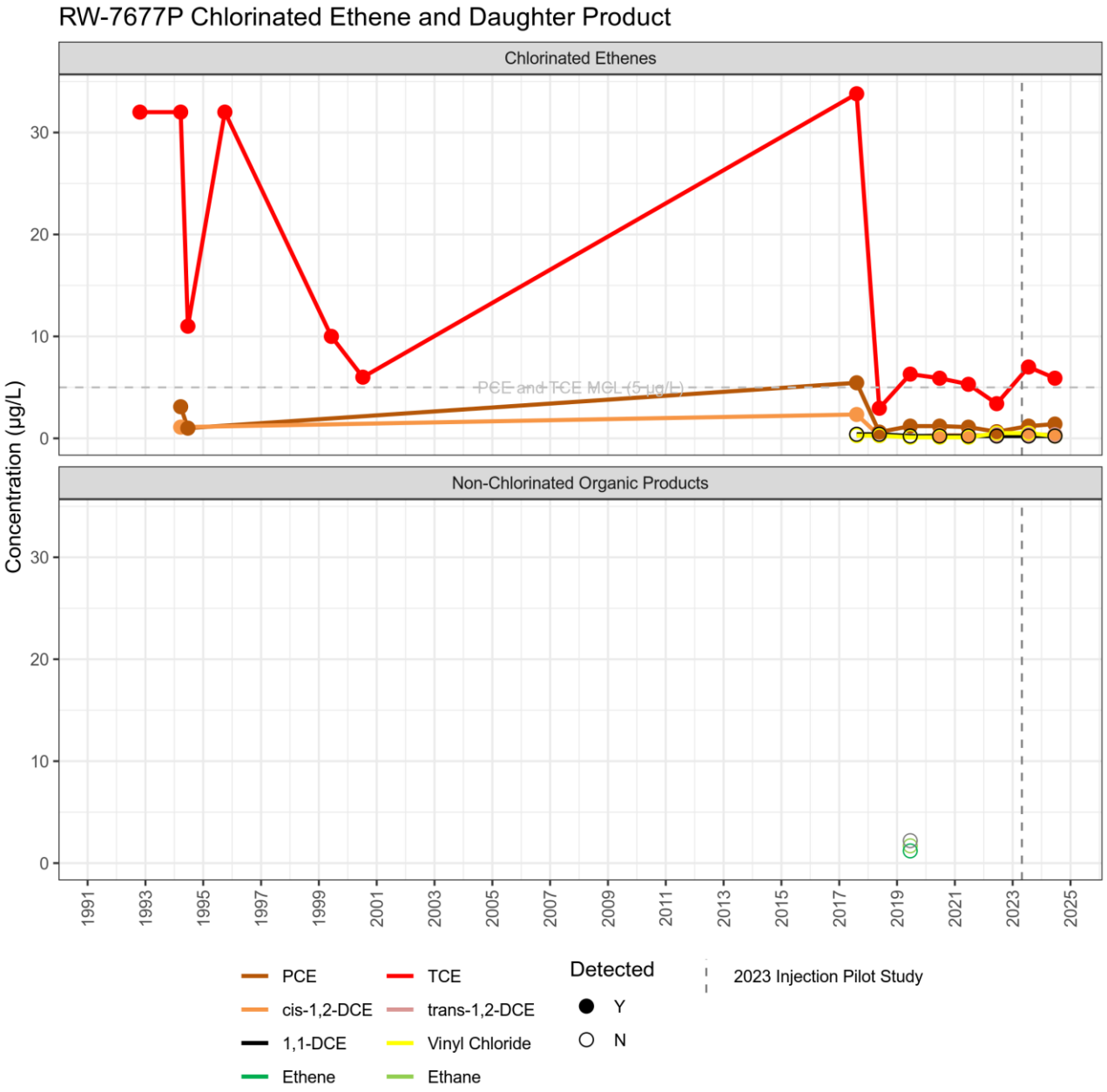
Water Quality



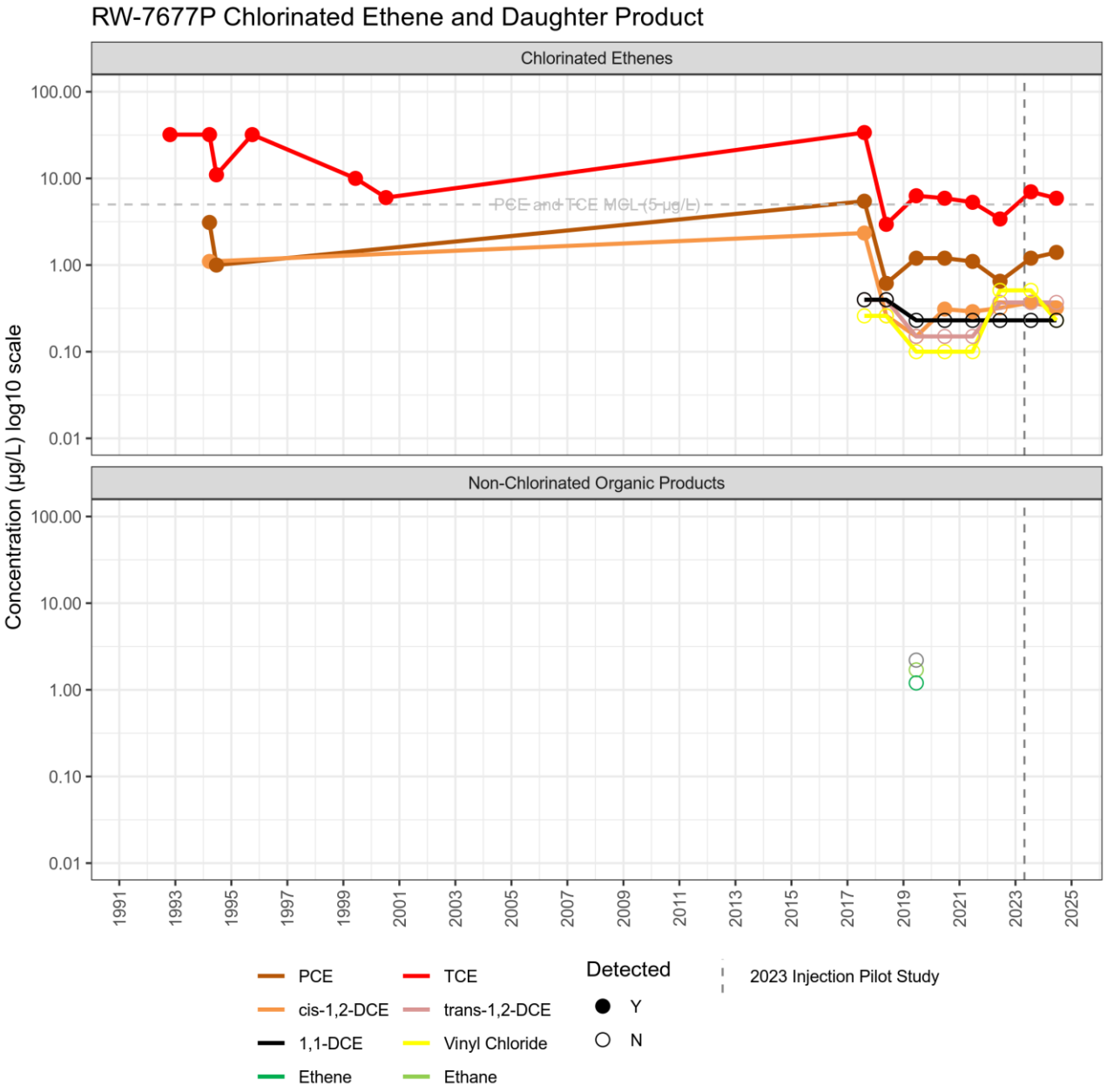
TOC and Redox Parameters



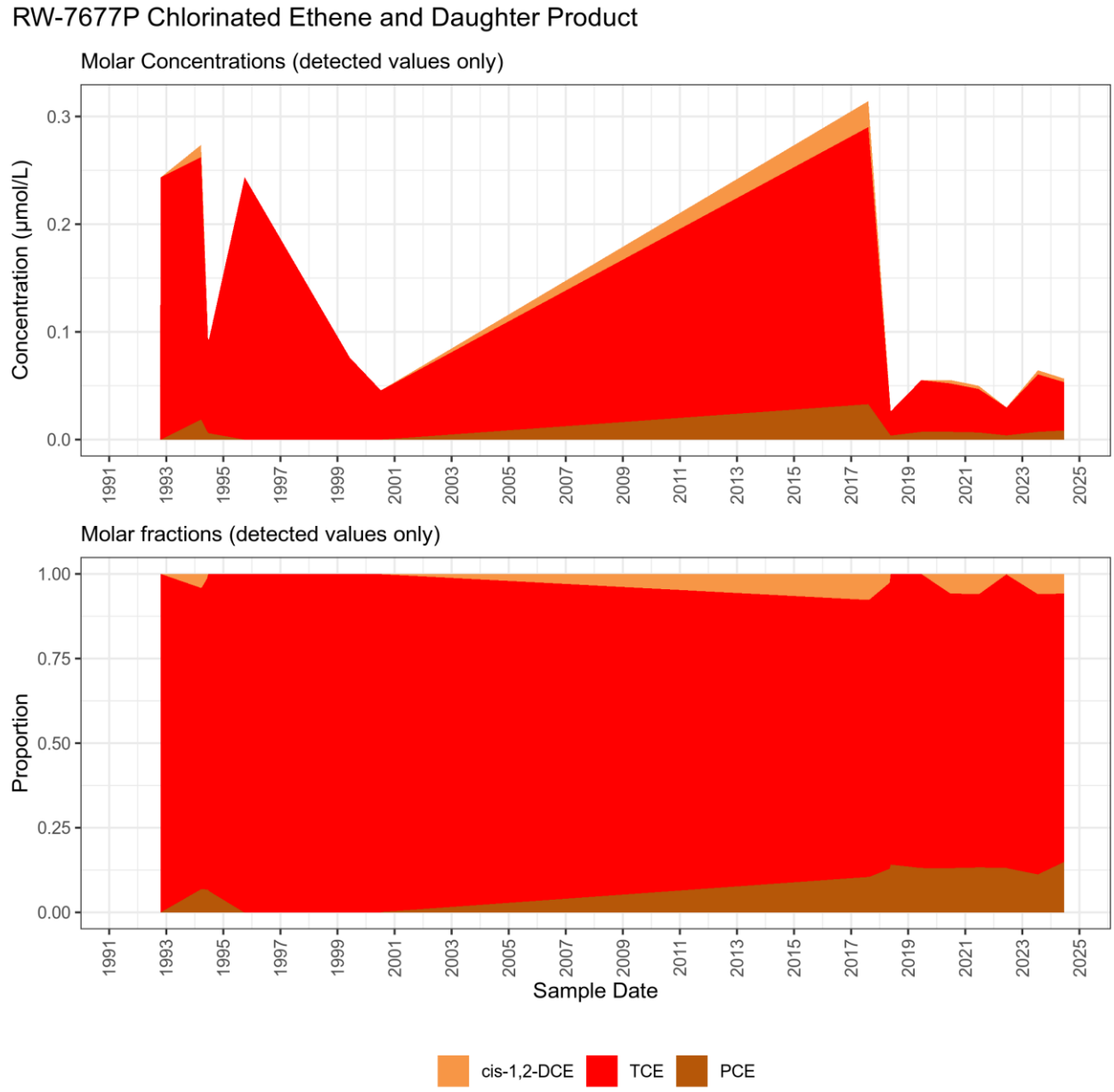
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

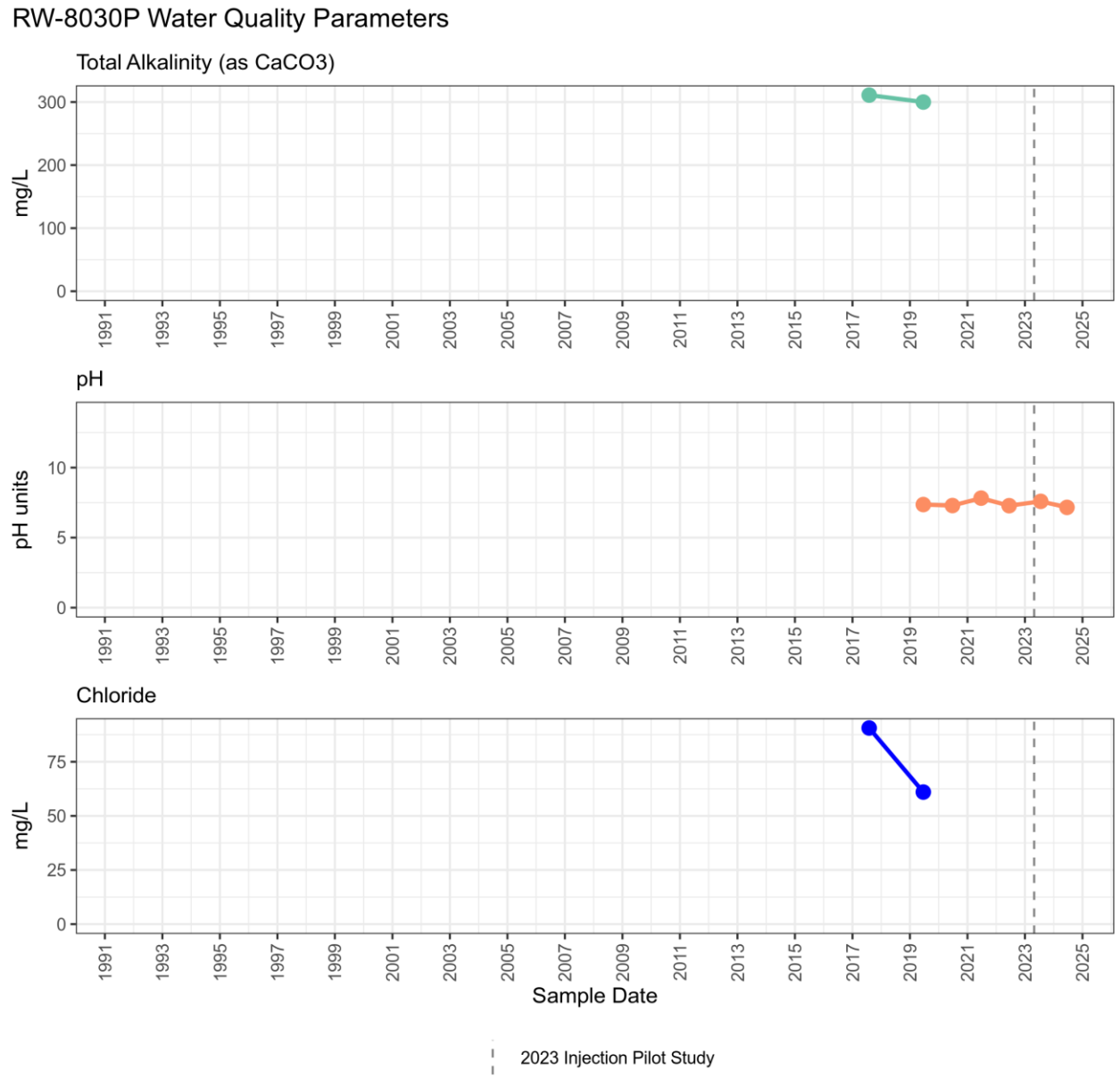


Chlorinated Ethene and Daughter Product Concentration

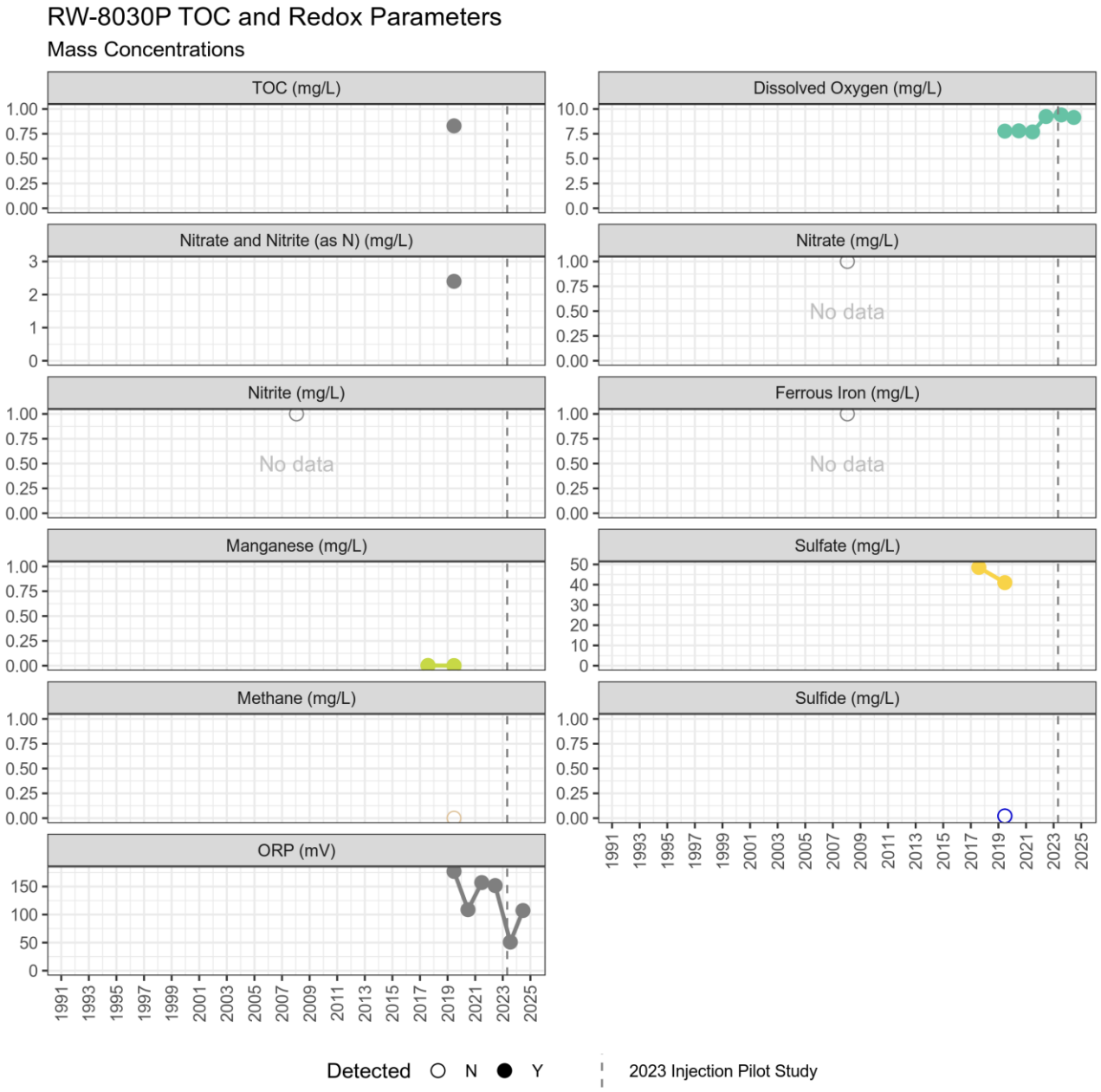


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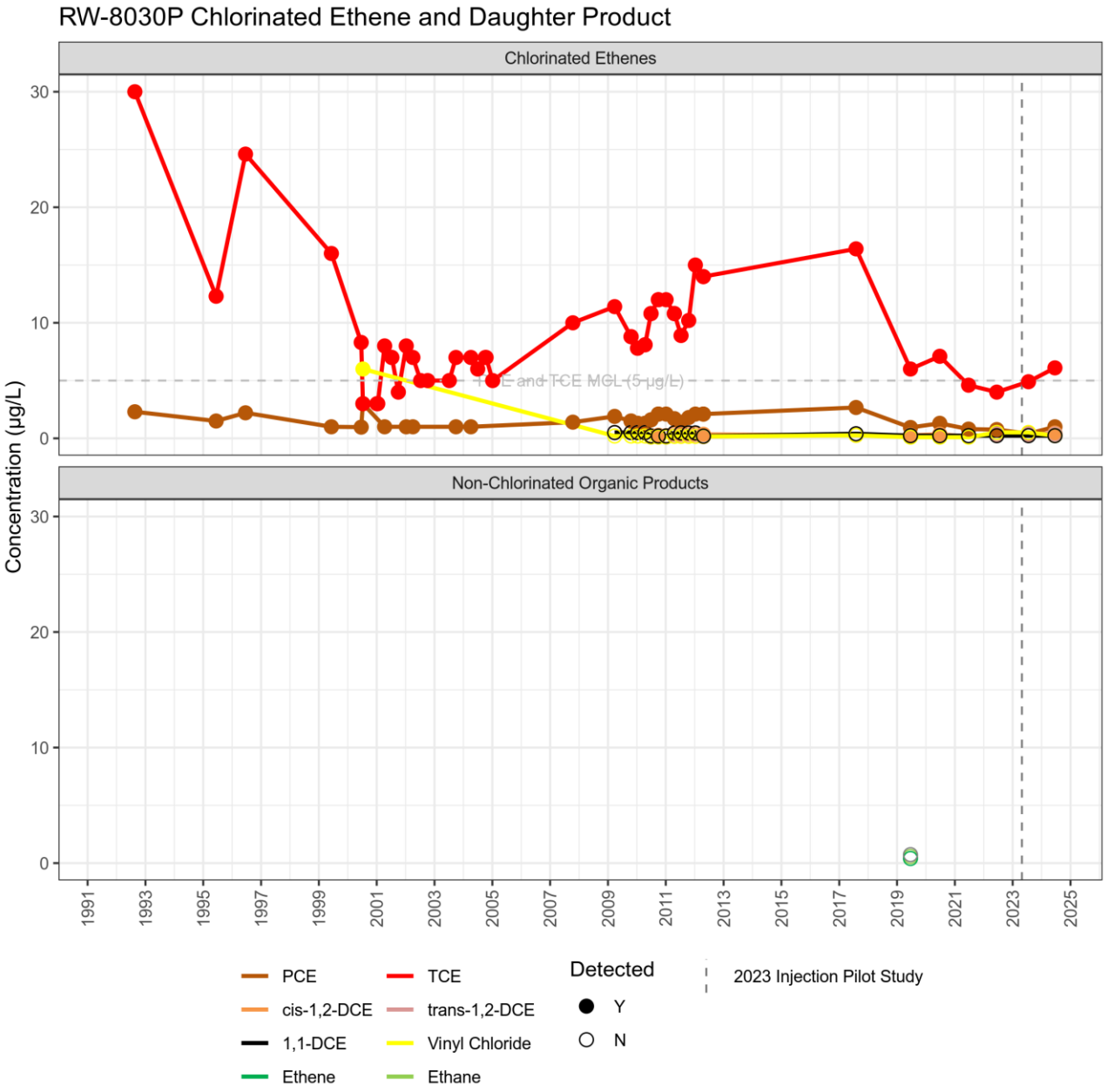
Water Quality



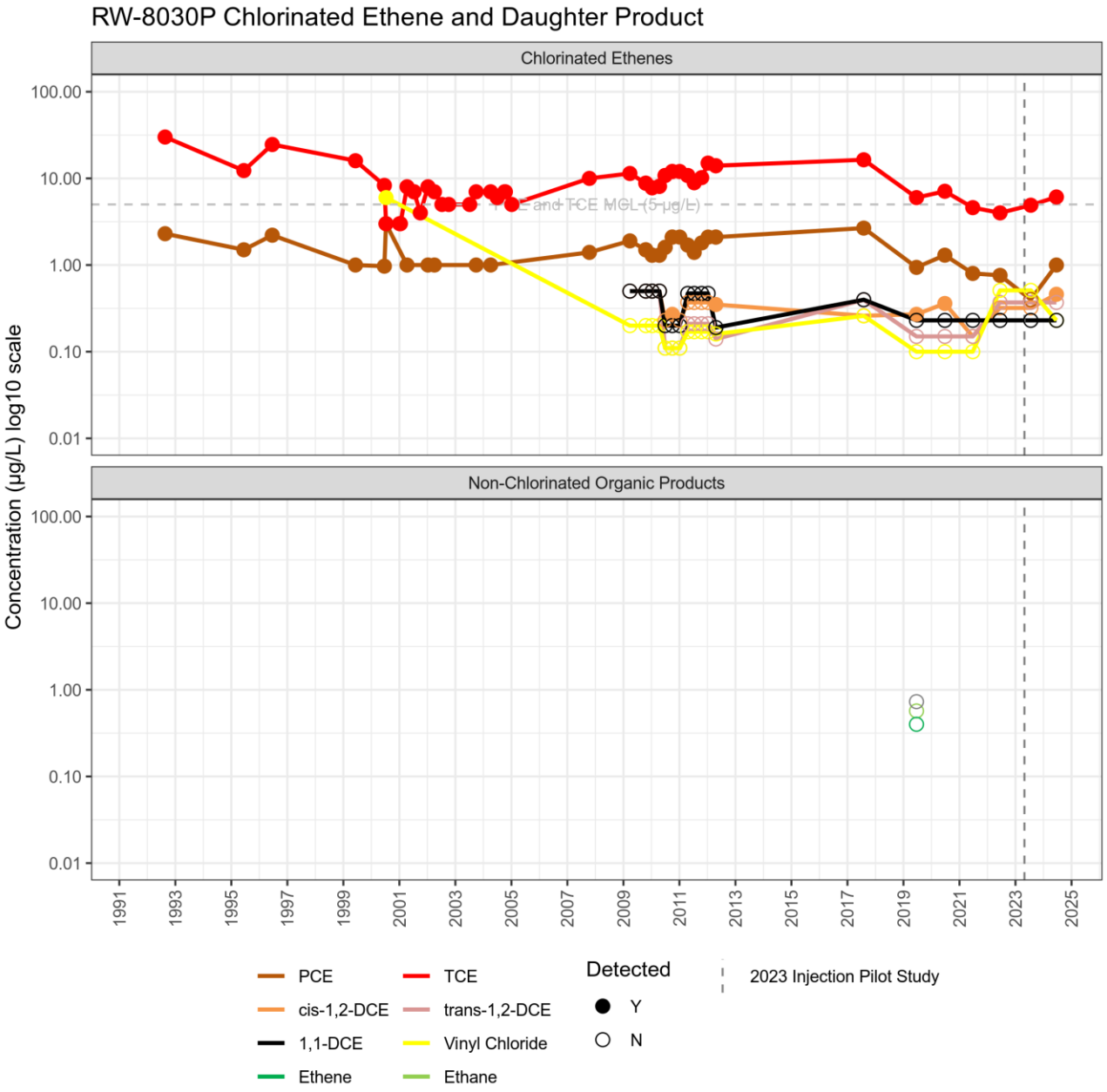
TOC and Redox Parameters



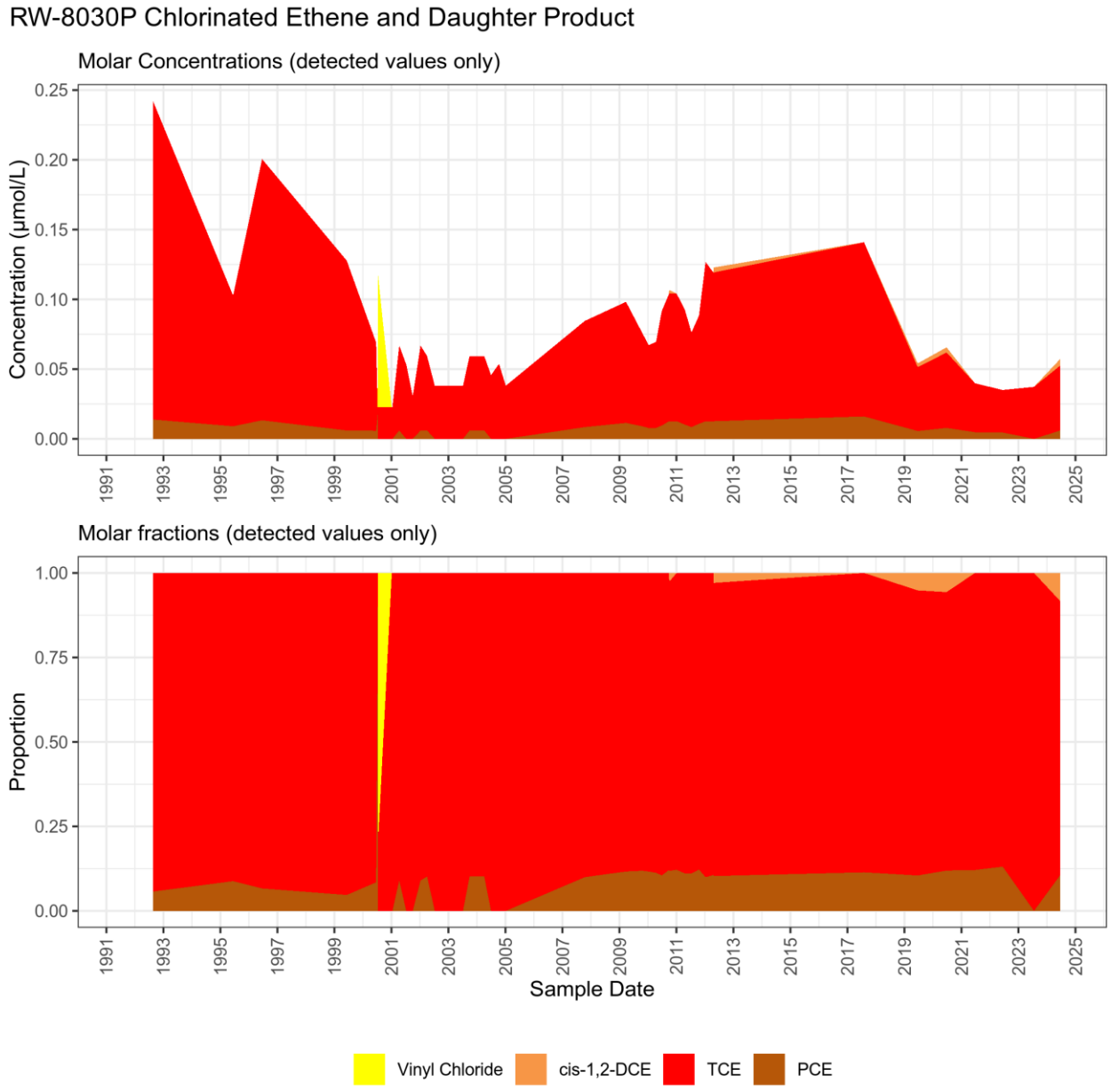
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

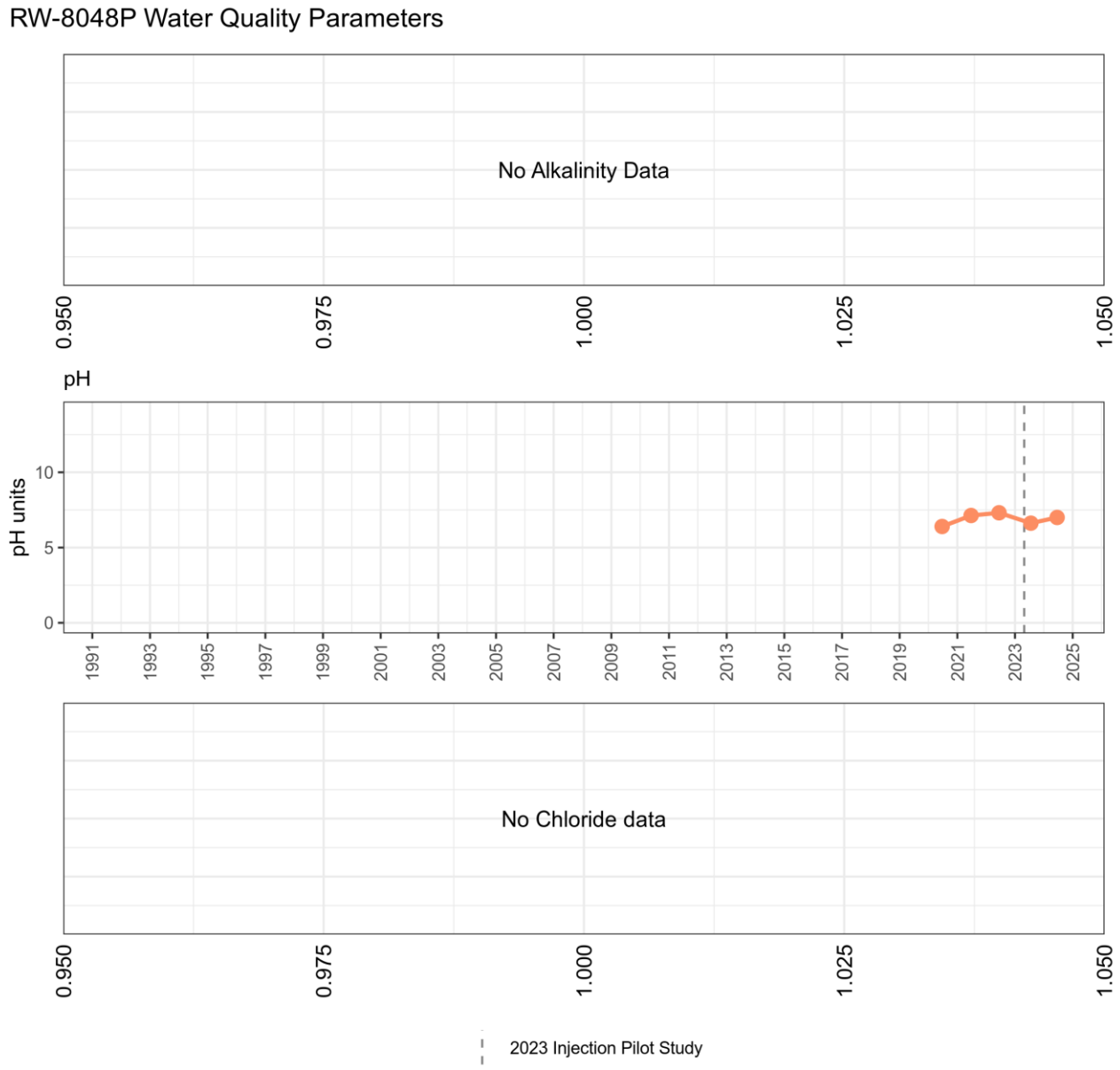


Chlorinated Ethene and Daughter Product Concentration

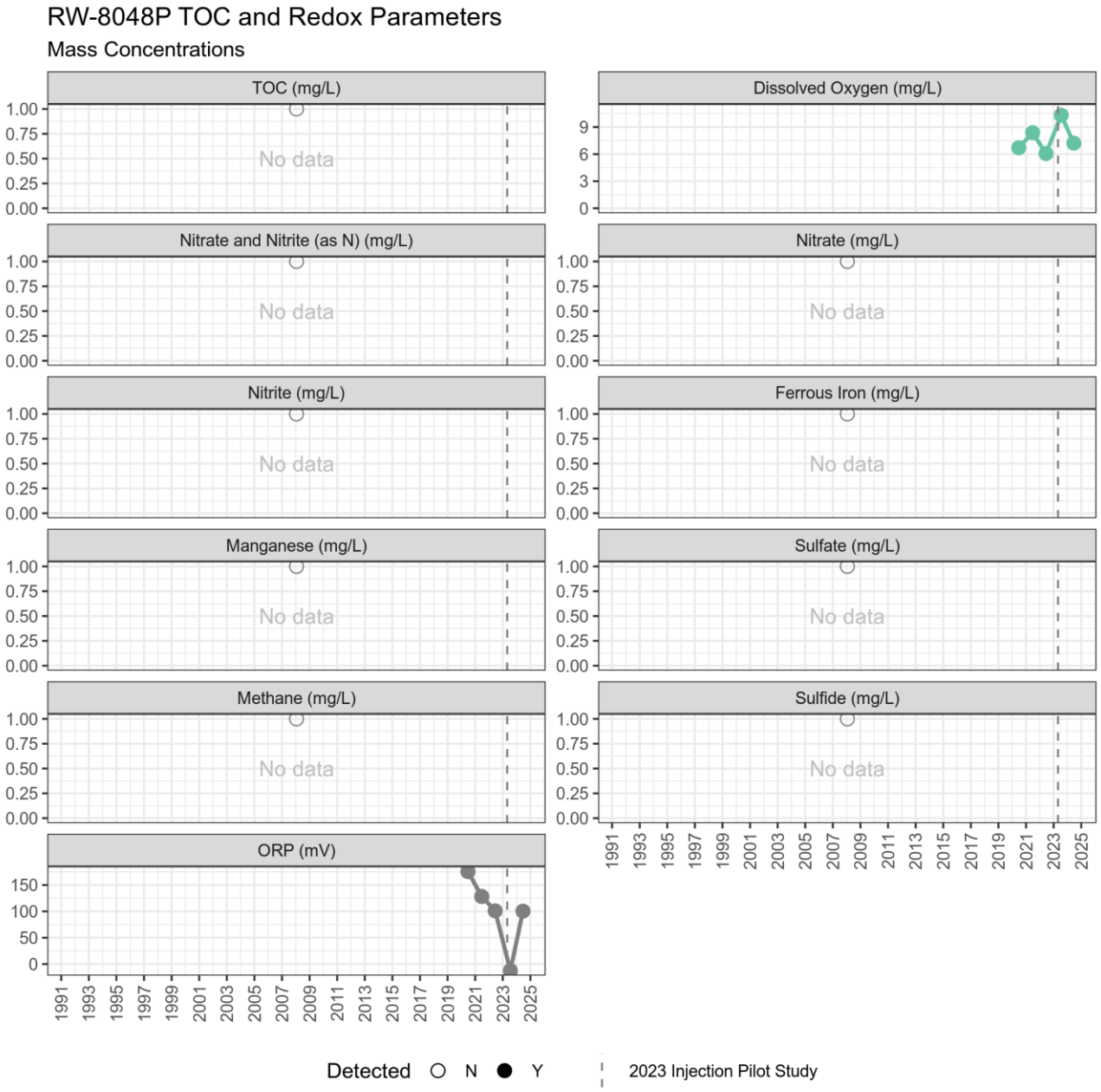


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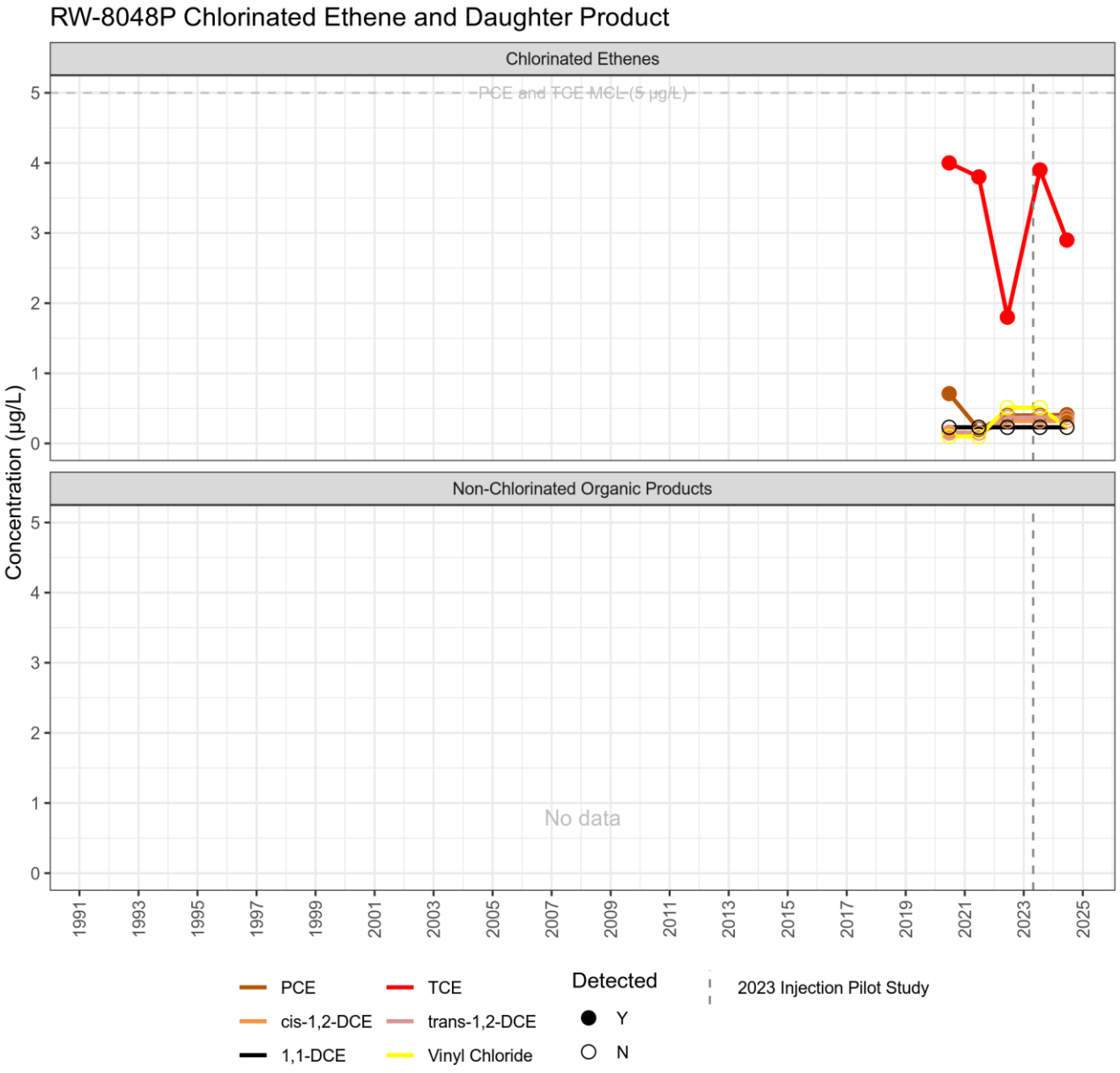
Water Quality



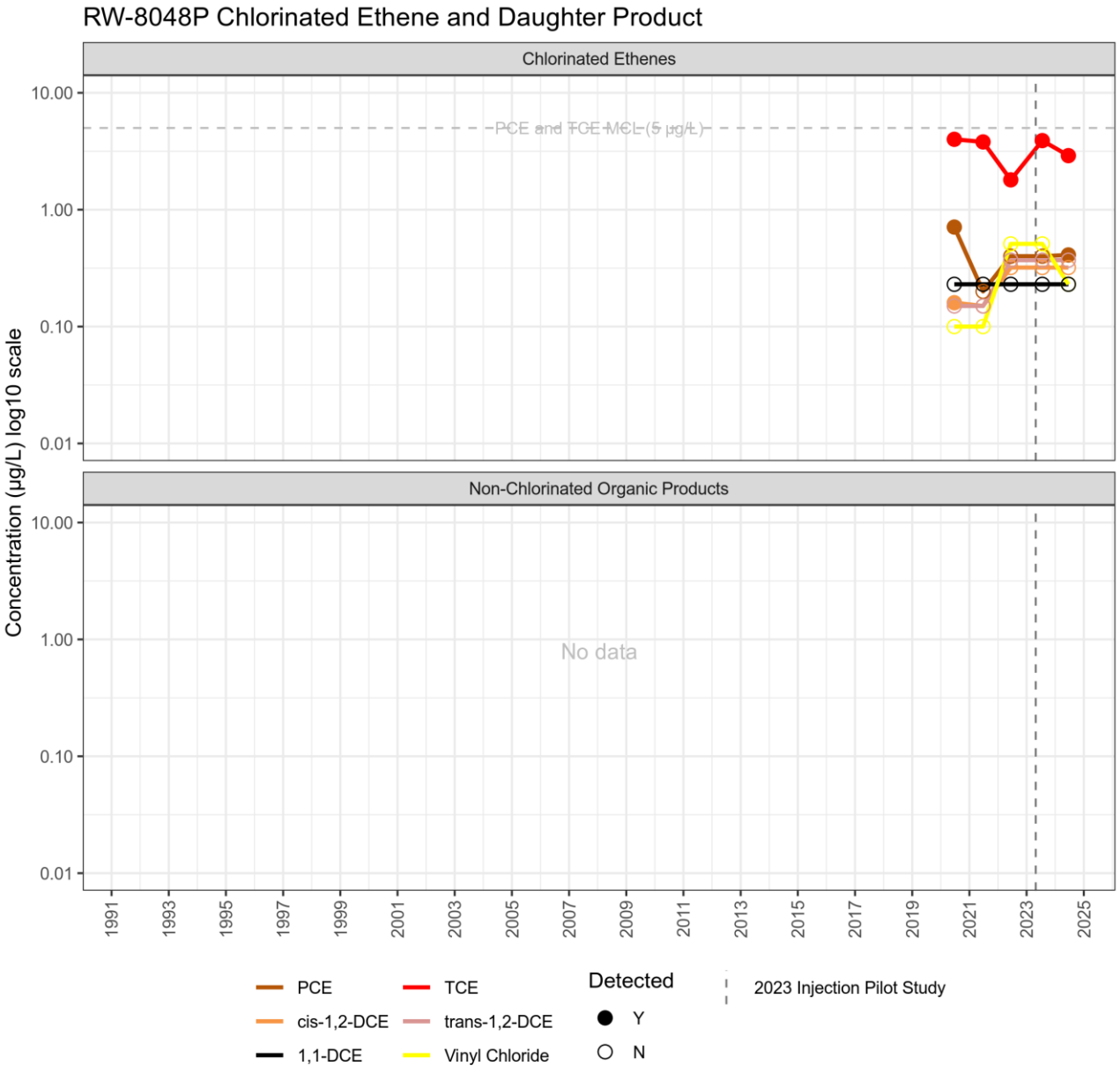
TOC and Redox Parameters



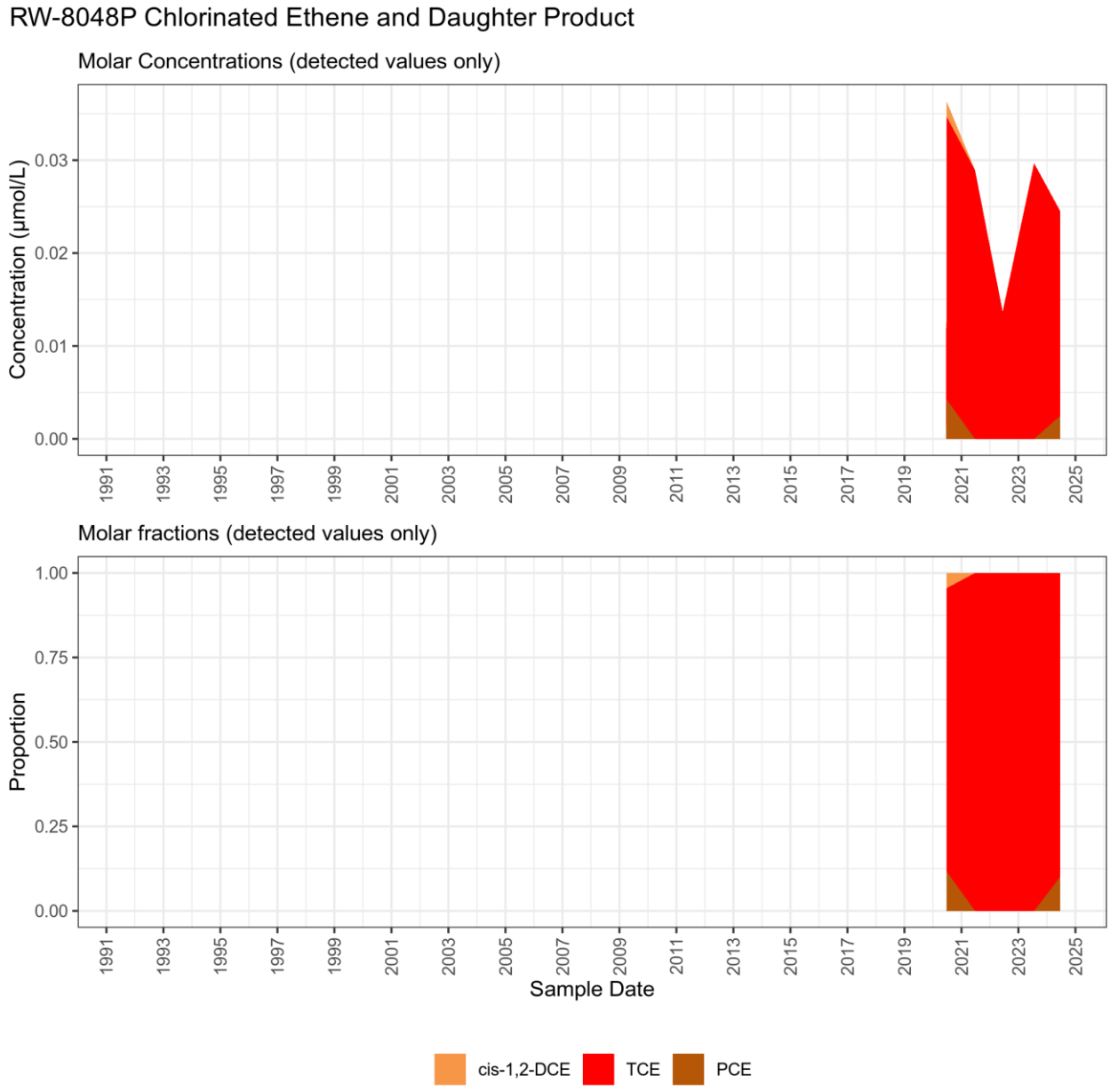
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

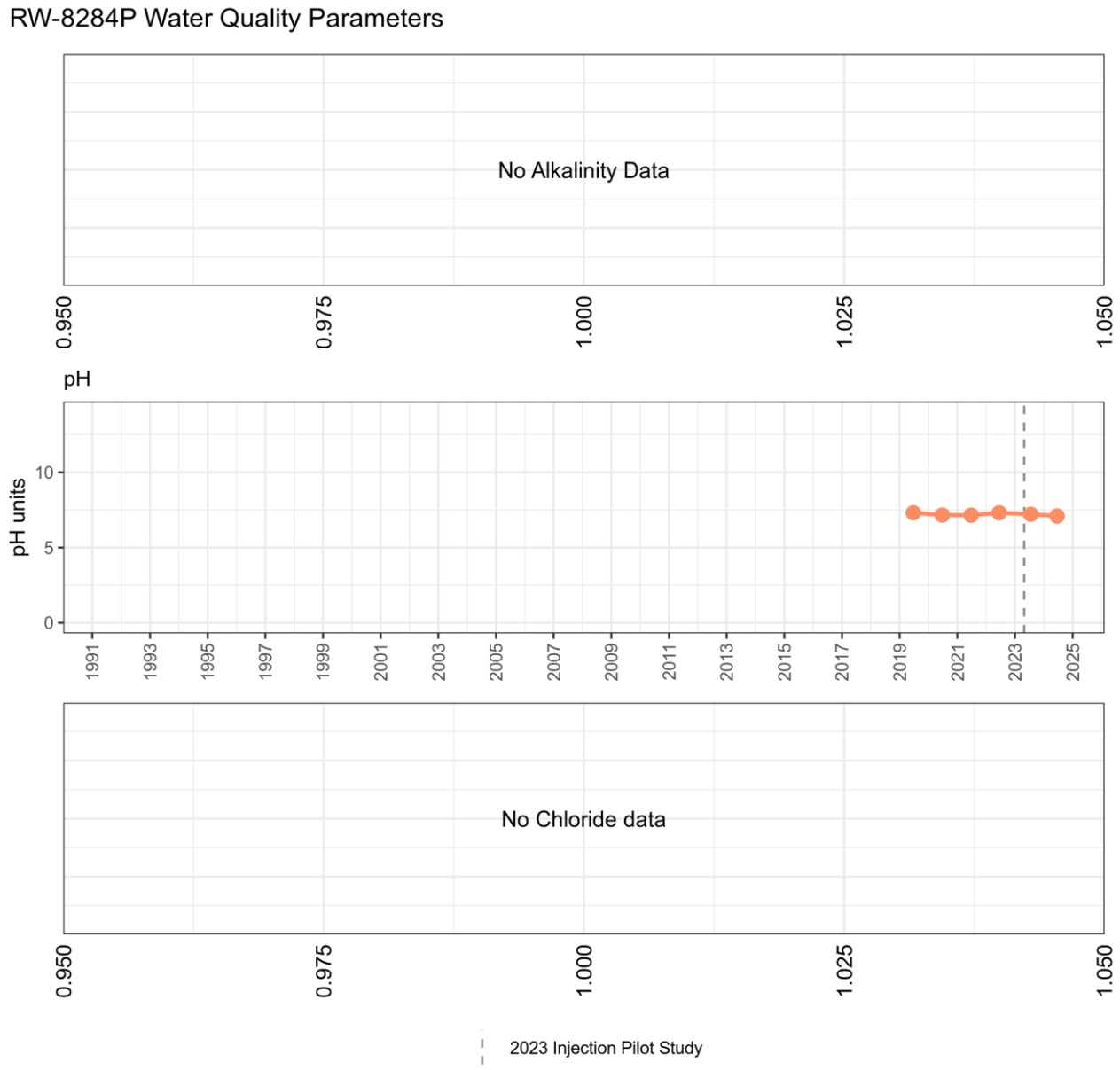


Chlorinated Ethene and Daughter Product Concentration

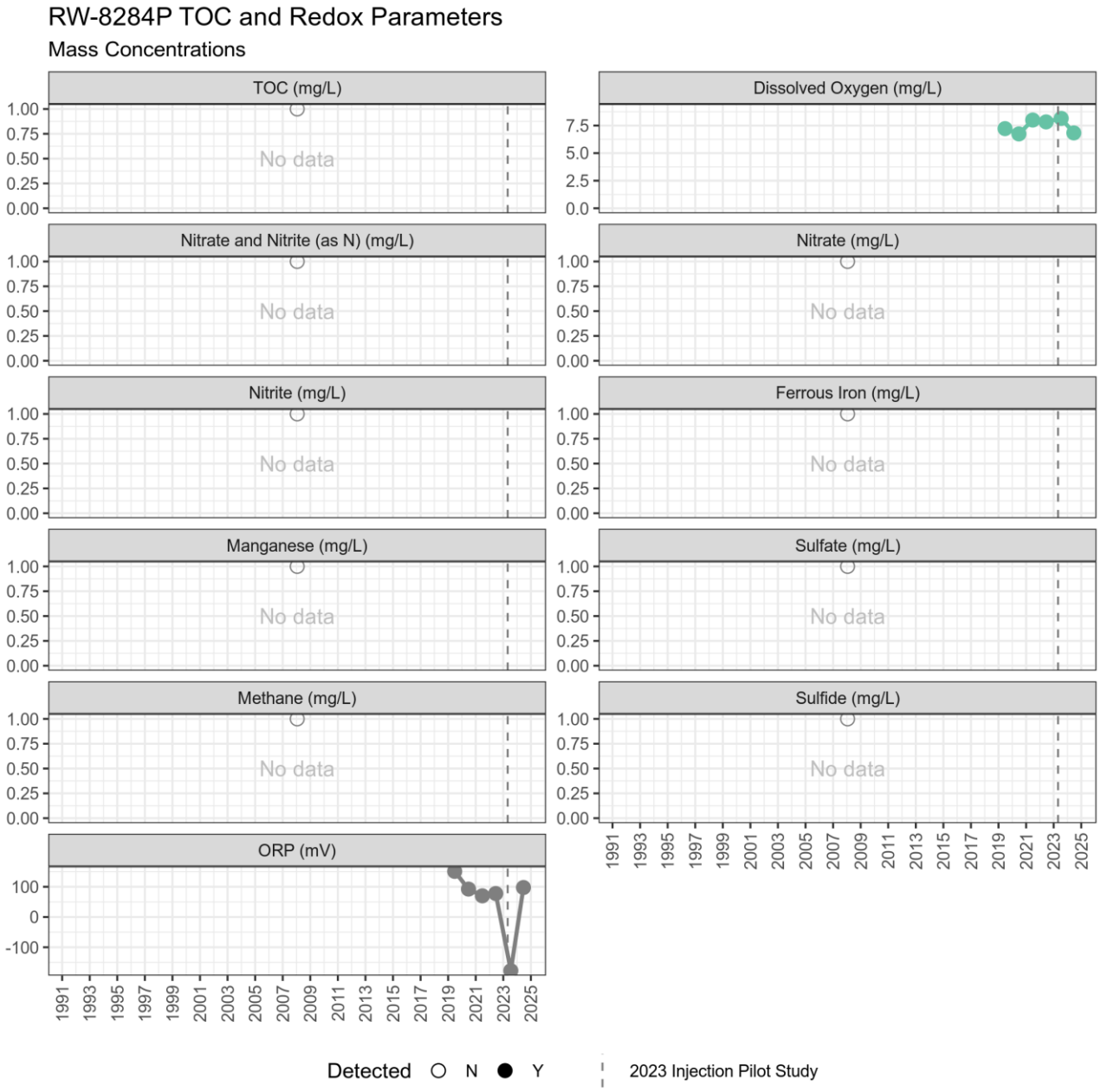


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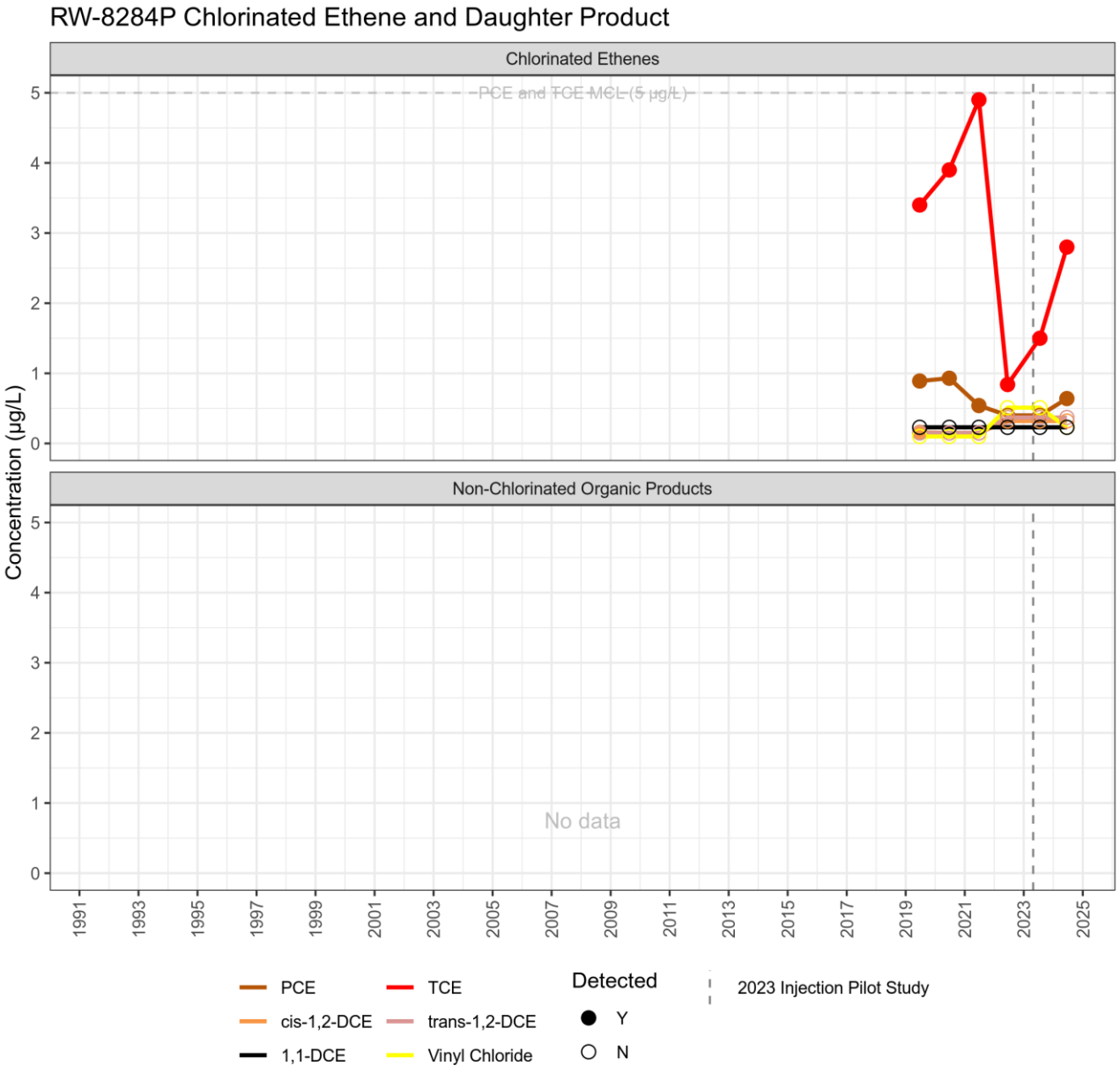
Water Quality



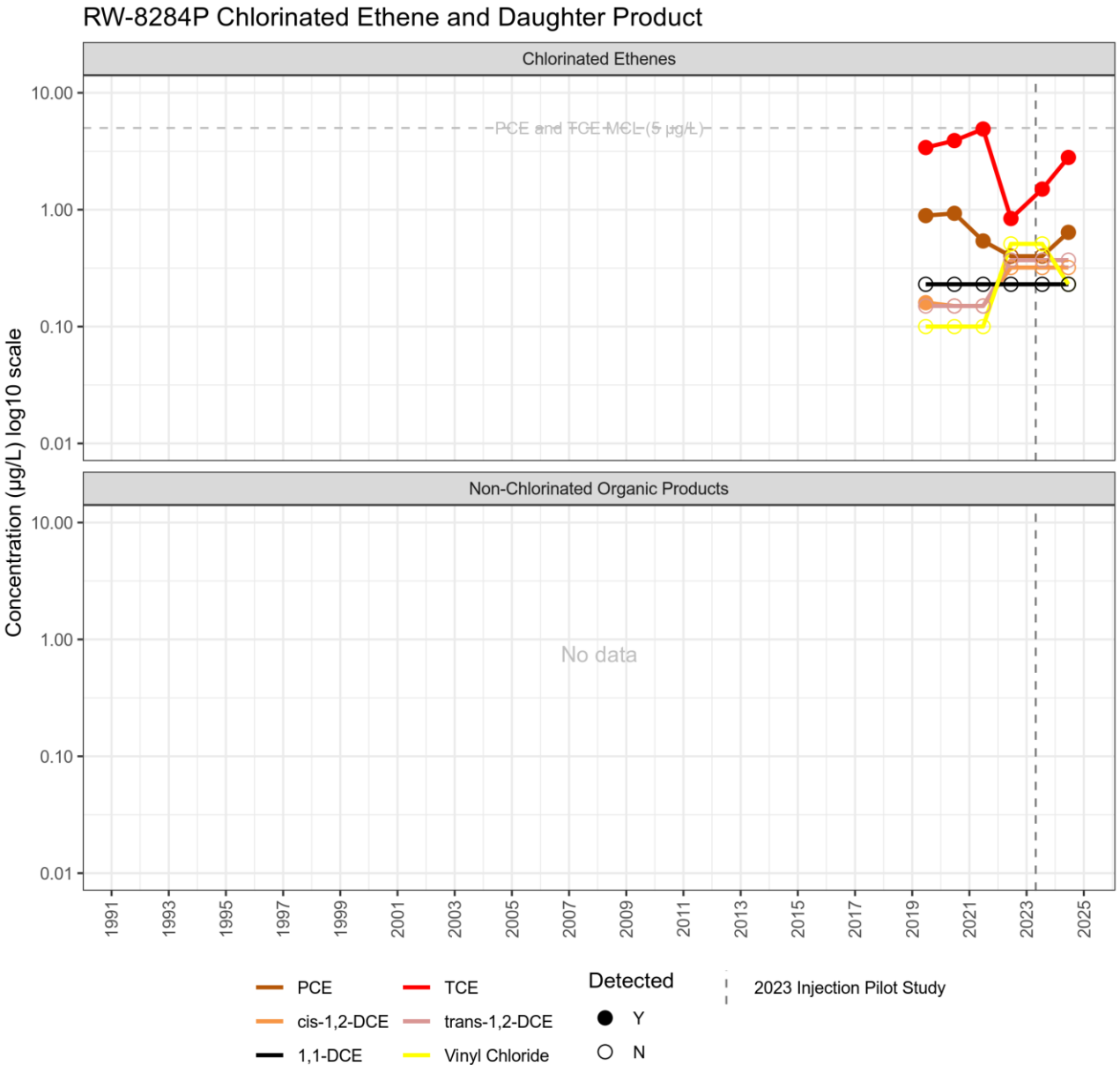
TOC and Redox Parameters



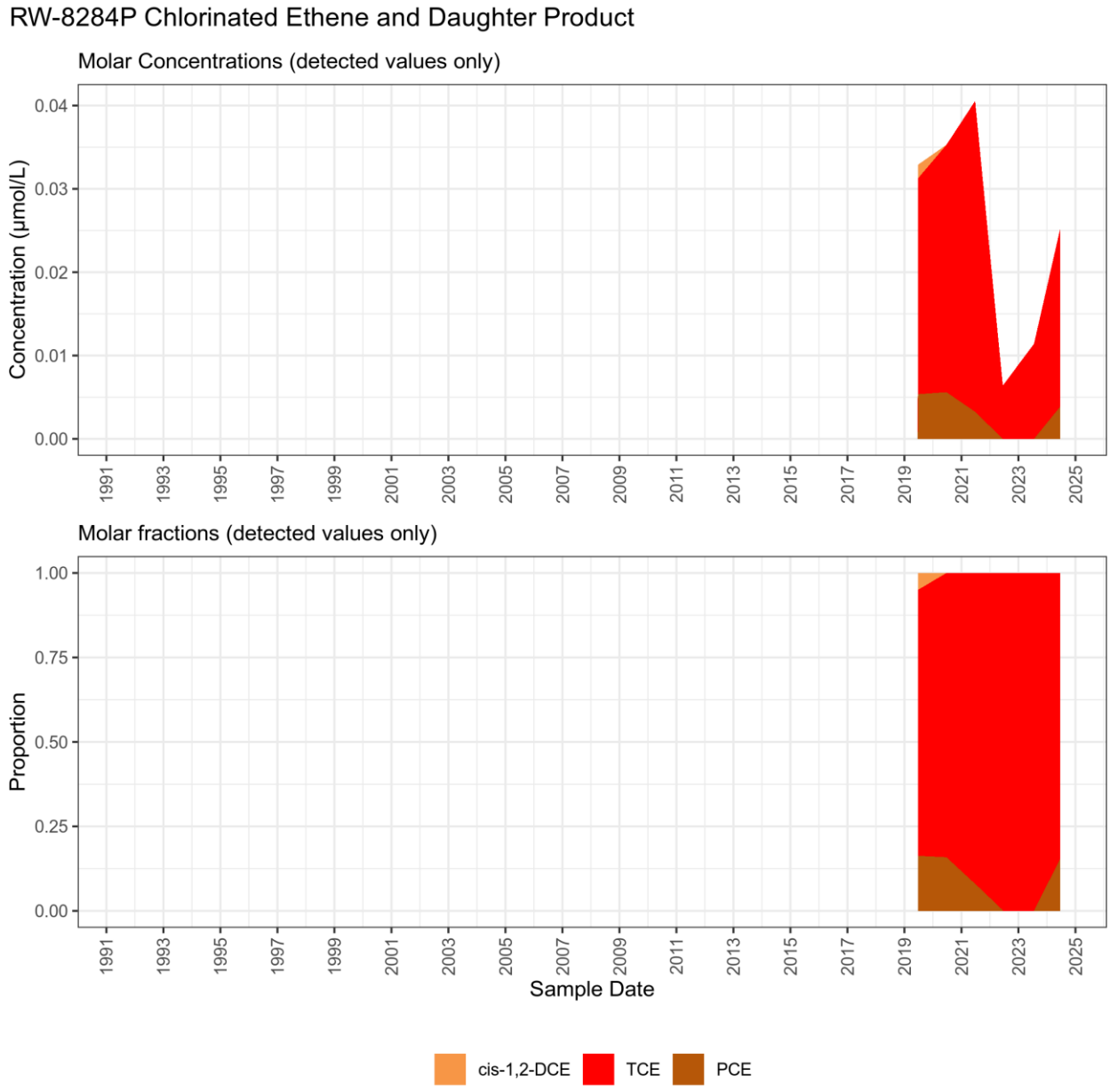
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration



Chlorinated Ethenes and Geochemistry Time Series Plots - Pocatello City Municipal Supply Well

Data filters

This report is filtered to only include:

- **Muni-Well-14 and Muni-Well-33** from **Pocatello City Municipal Supply Well**
- Results from **01 January 1990** to **25 July 2024**

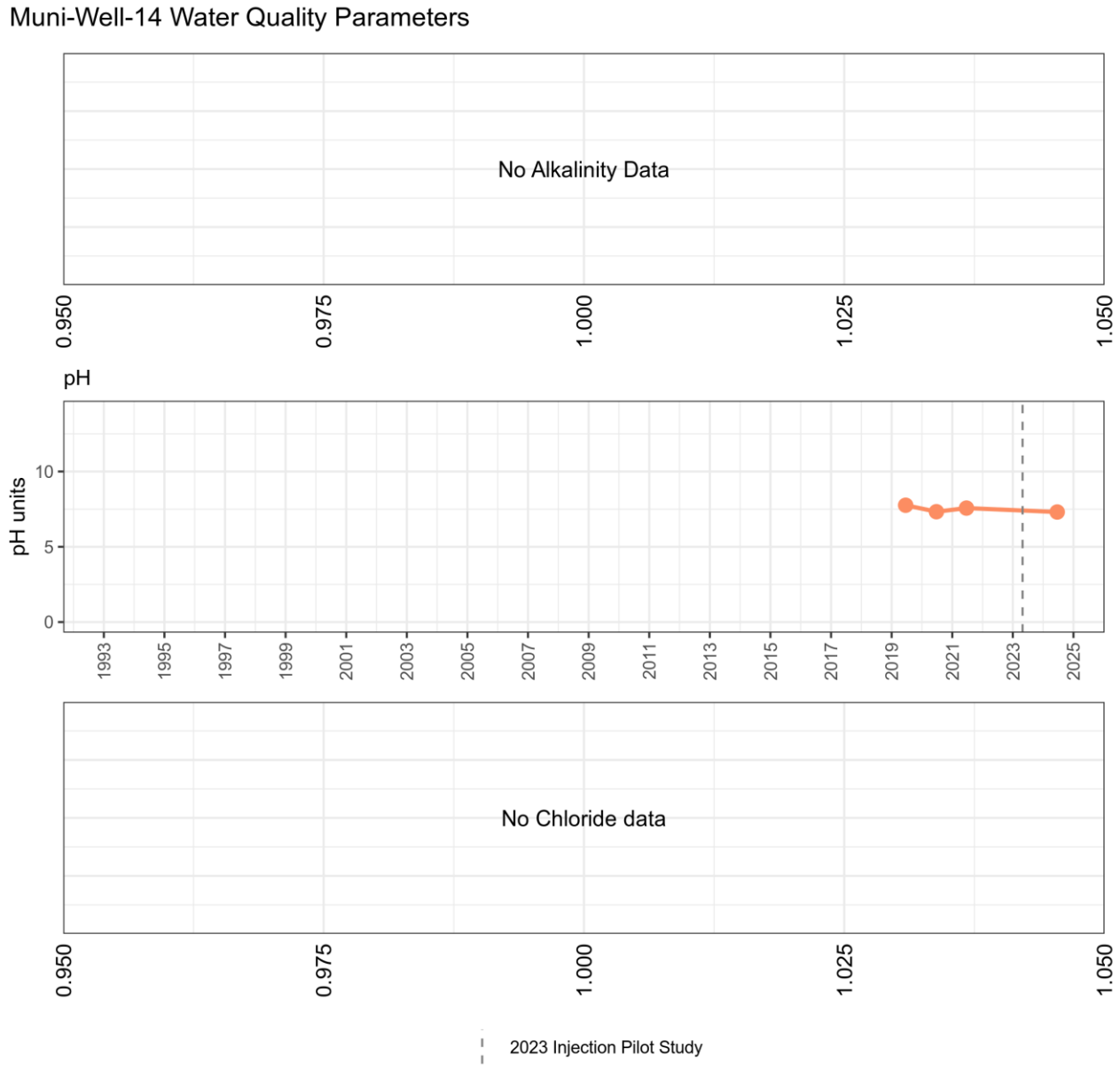
Graph notes

- 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.

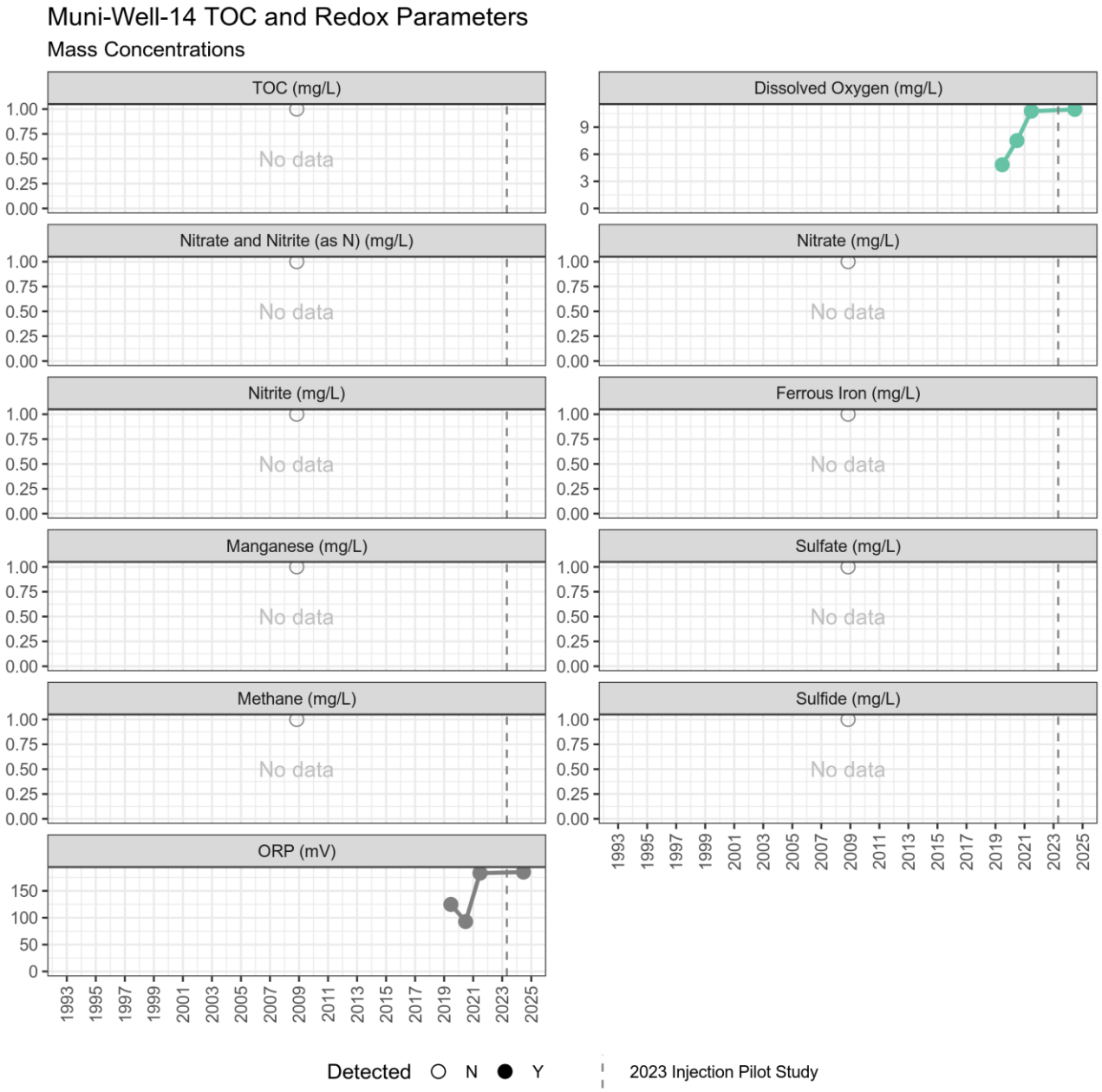
Well summaries

Muni-Well-14

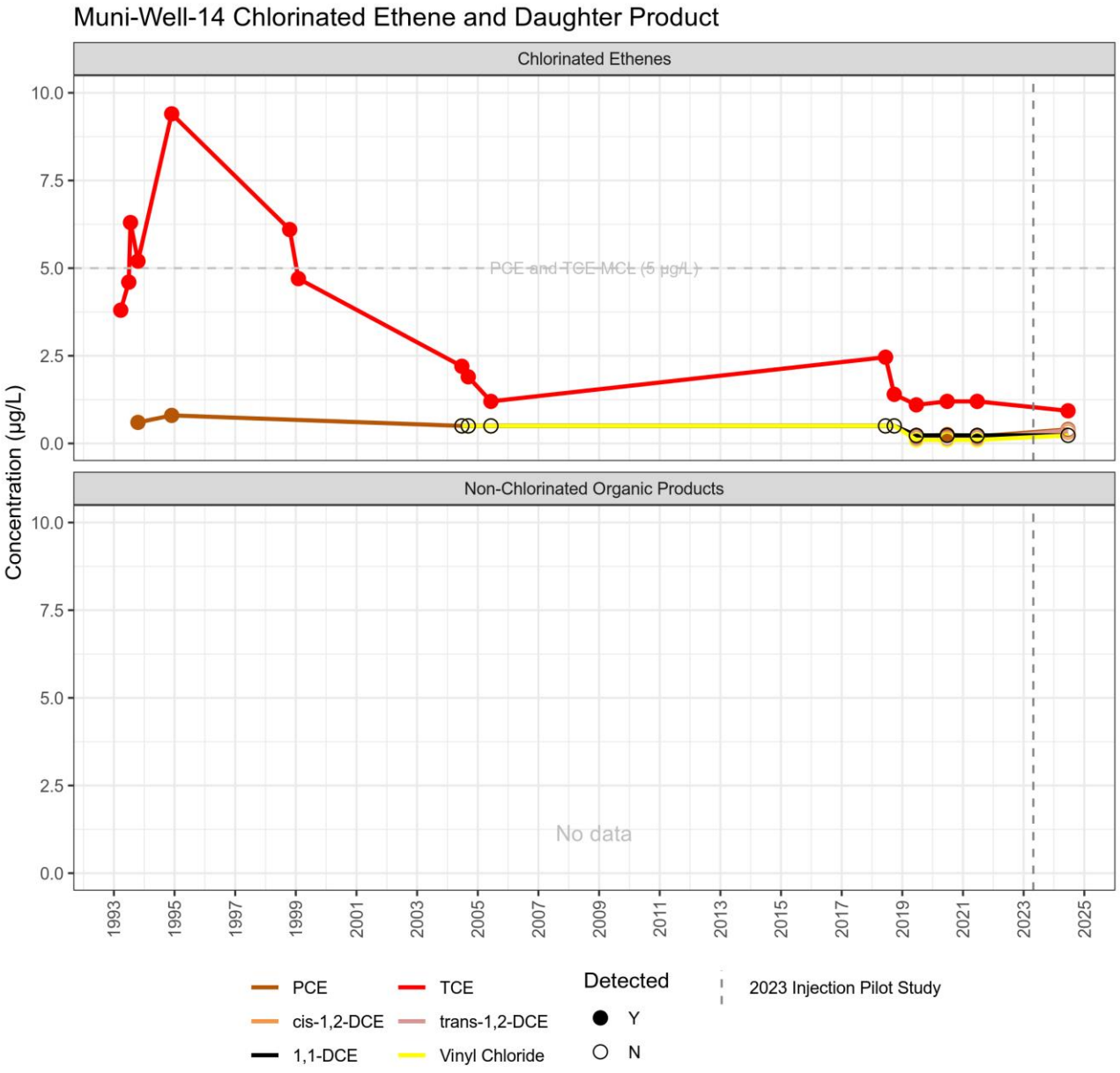
Water Quality



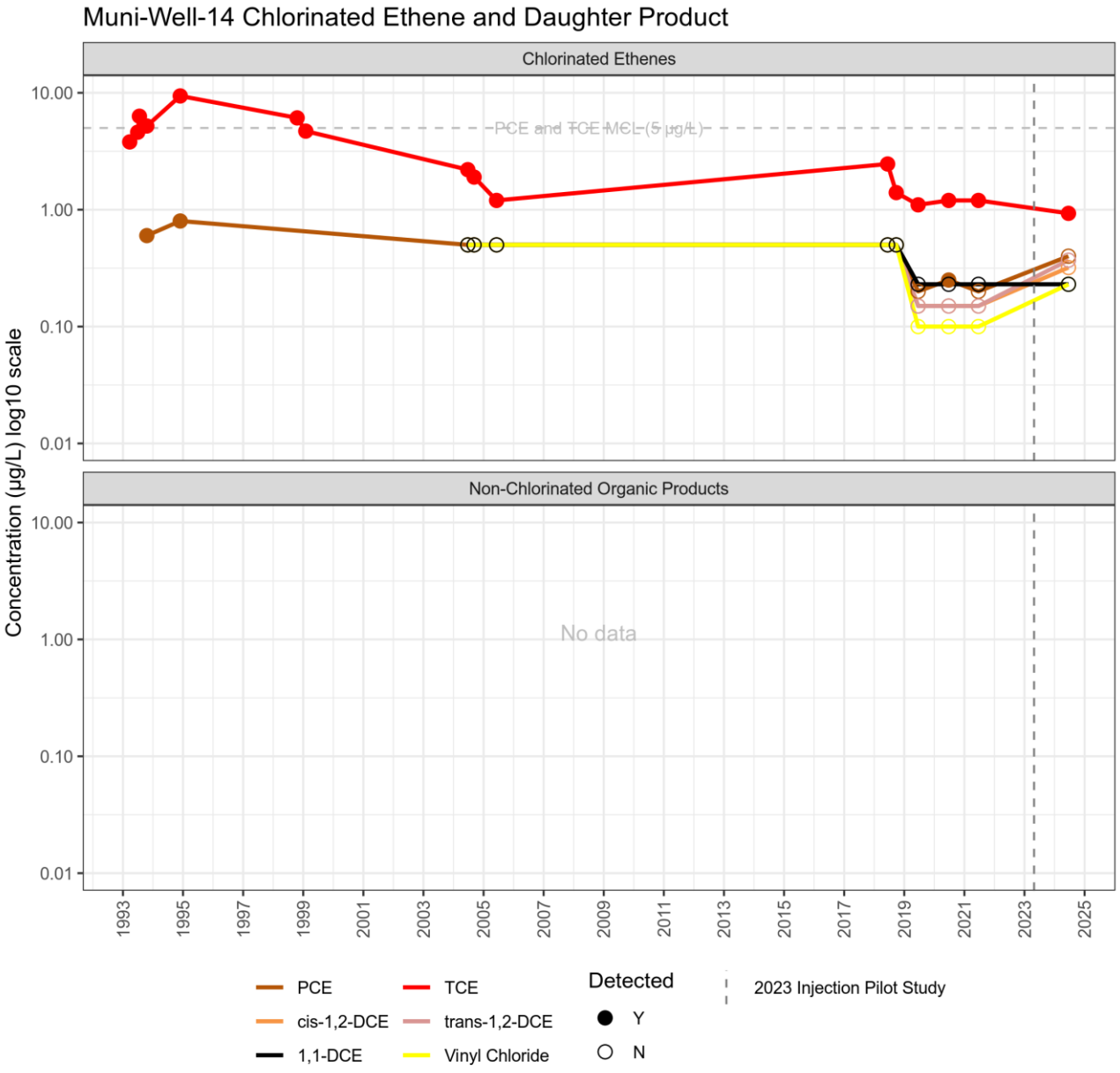
TOC and Redox Parameters



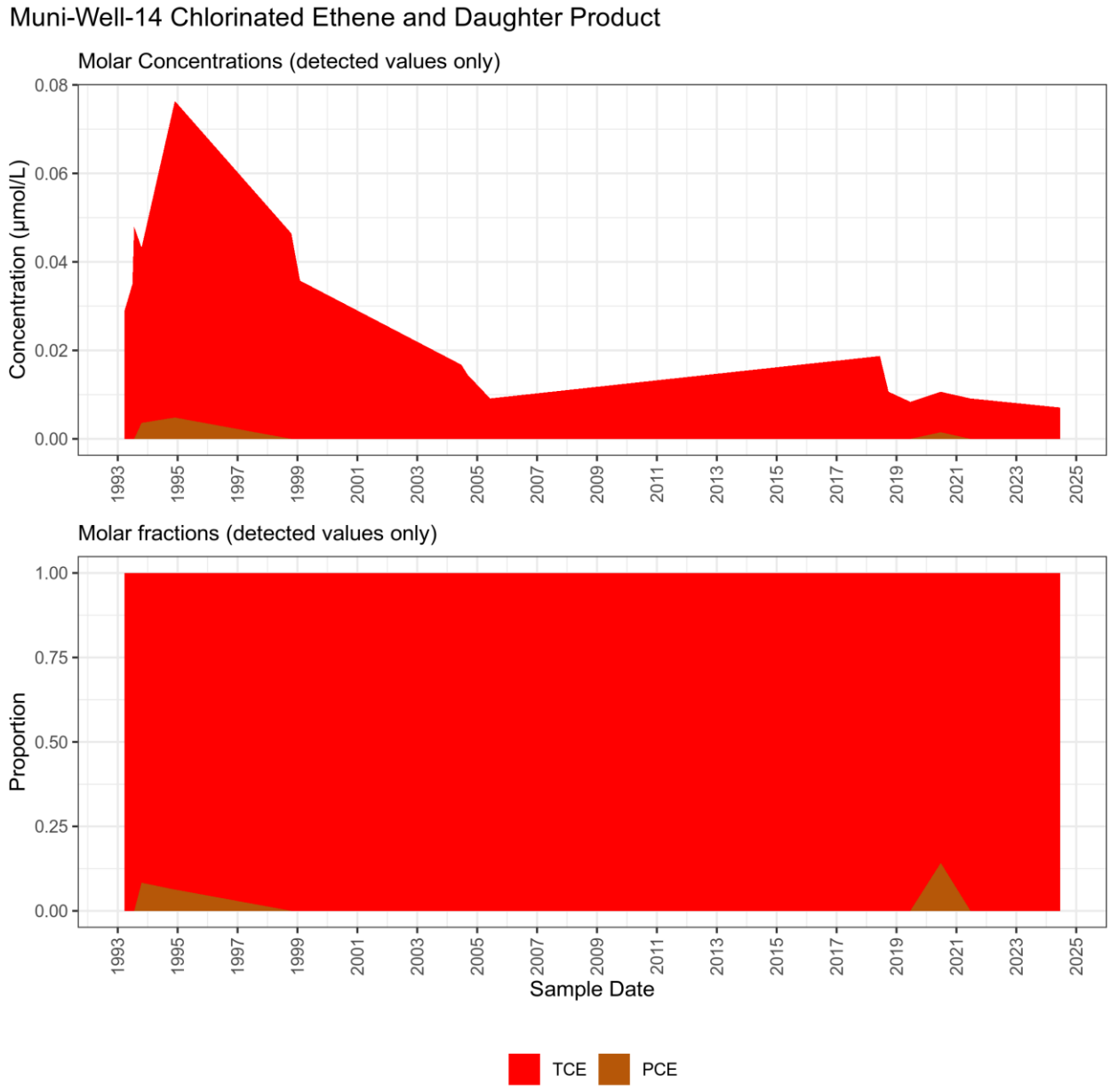
Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

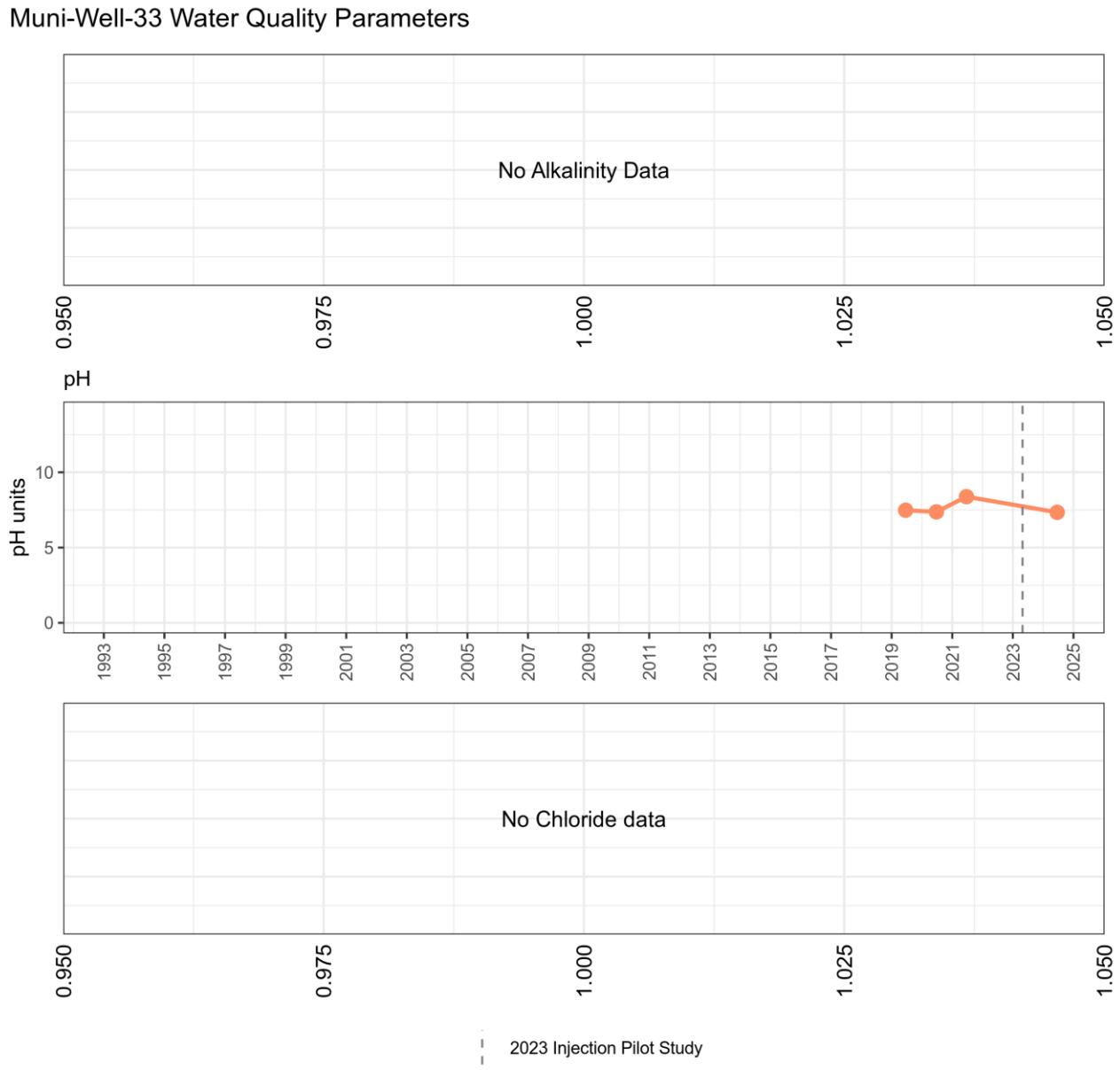


Chlorinated Ethene and Daughter Product Concentration

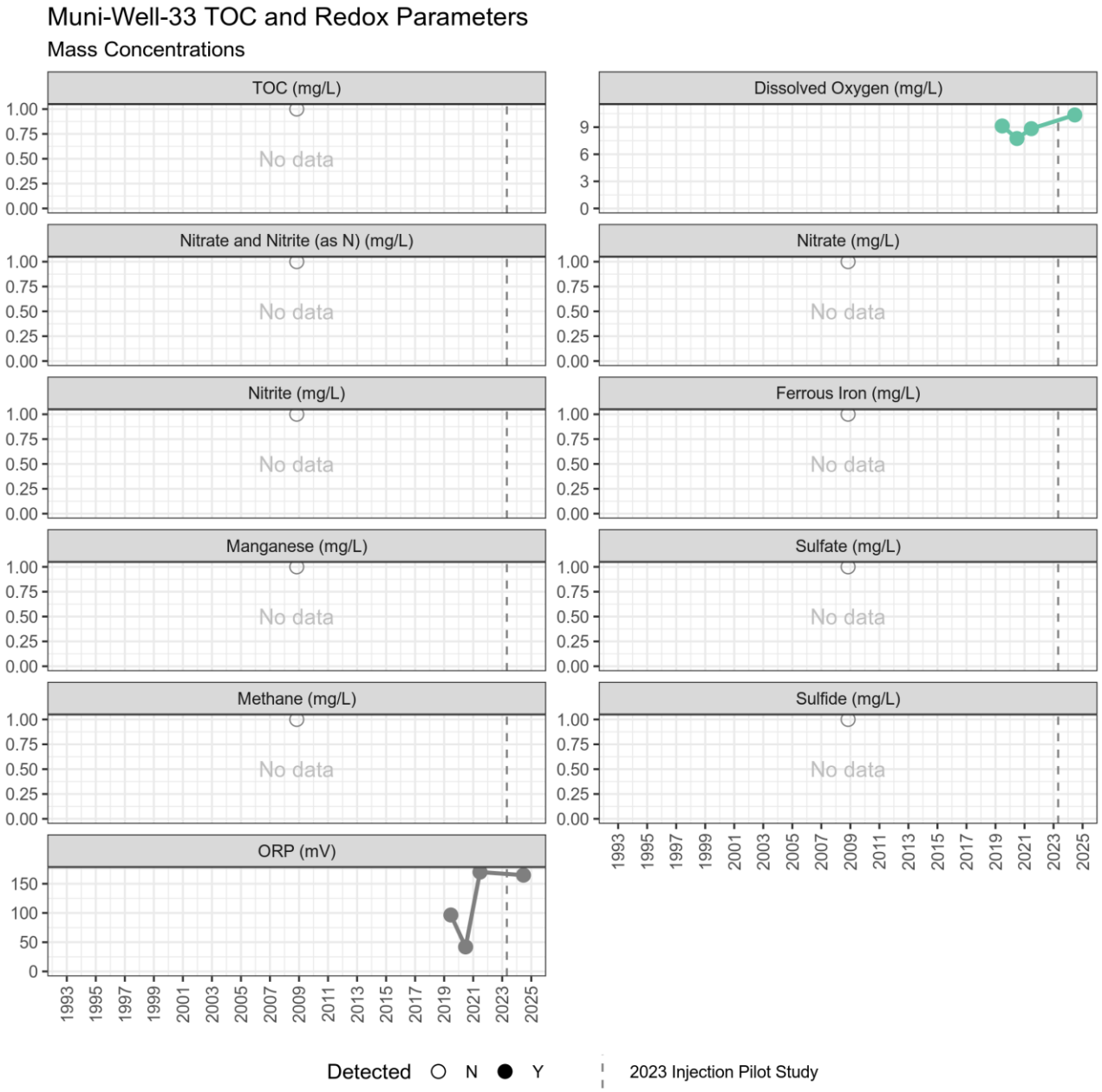


Muni-Well-33

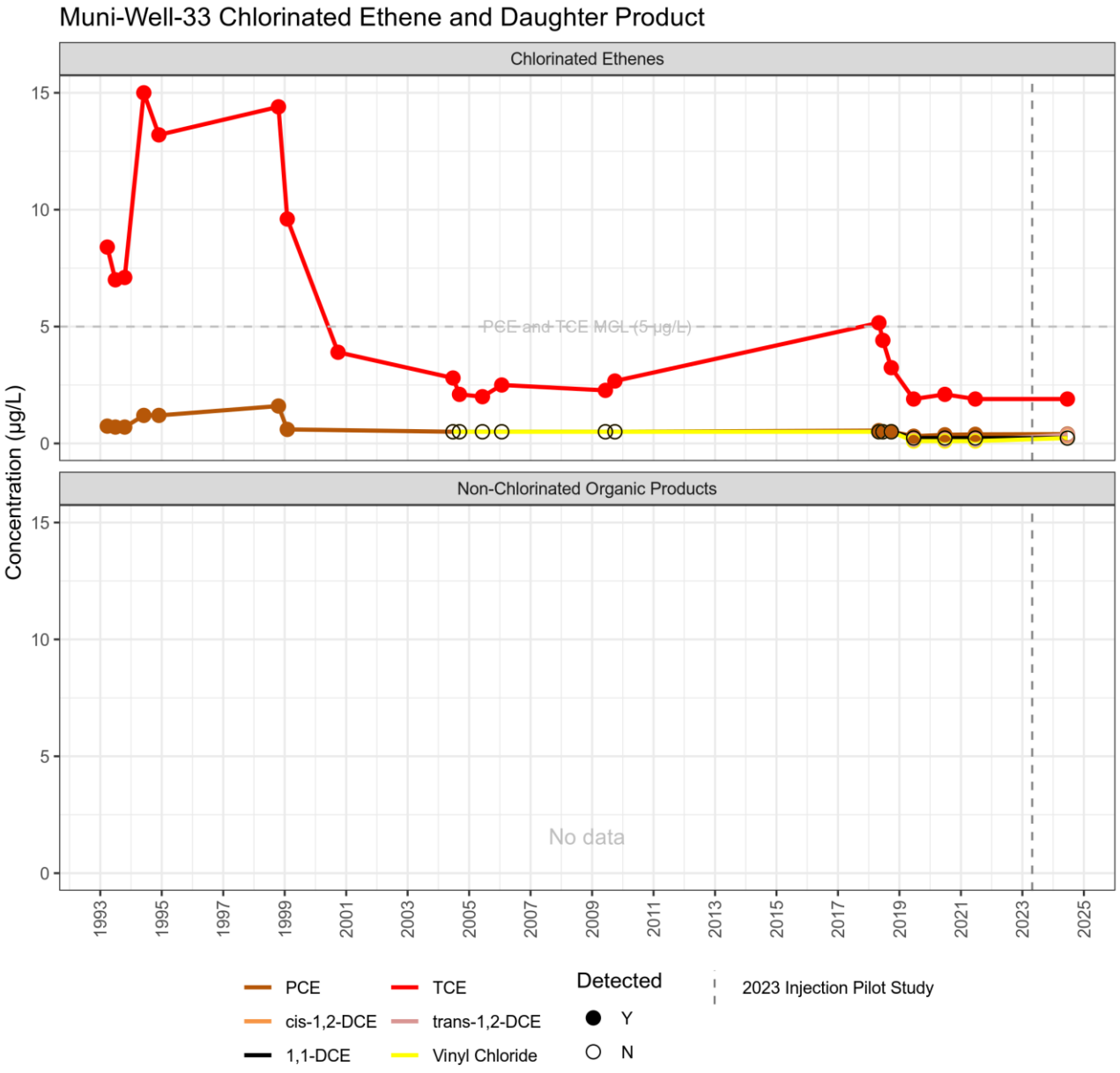
Water Quality



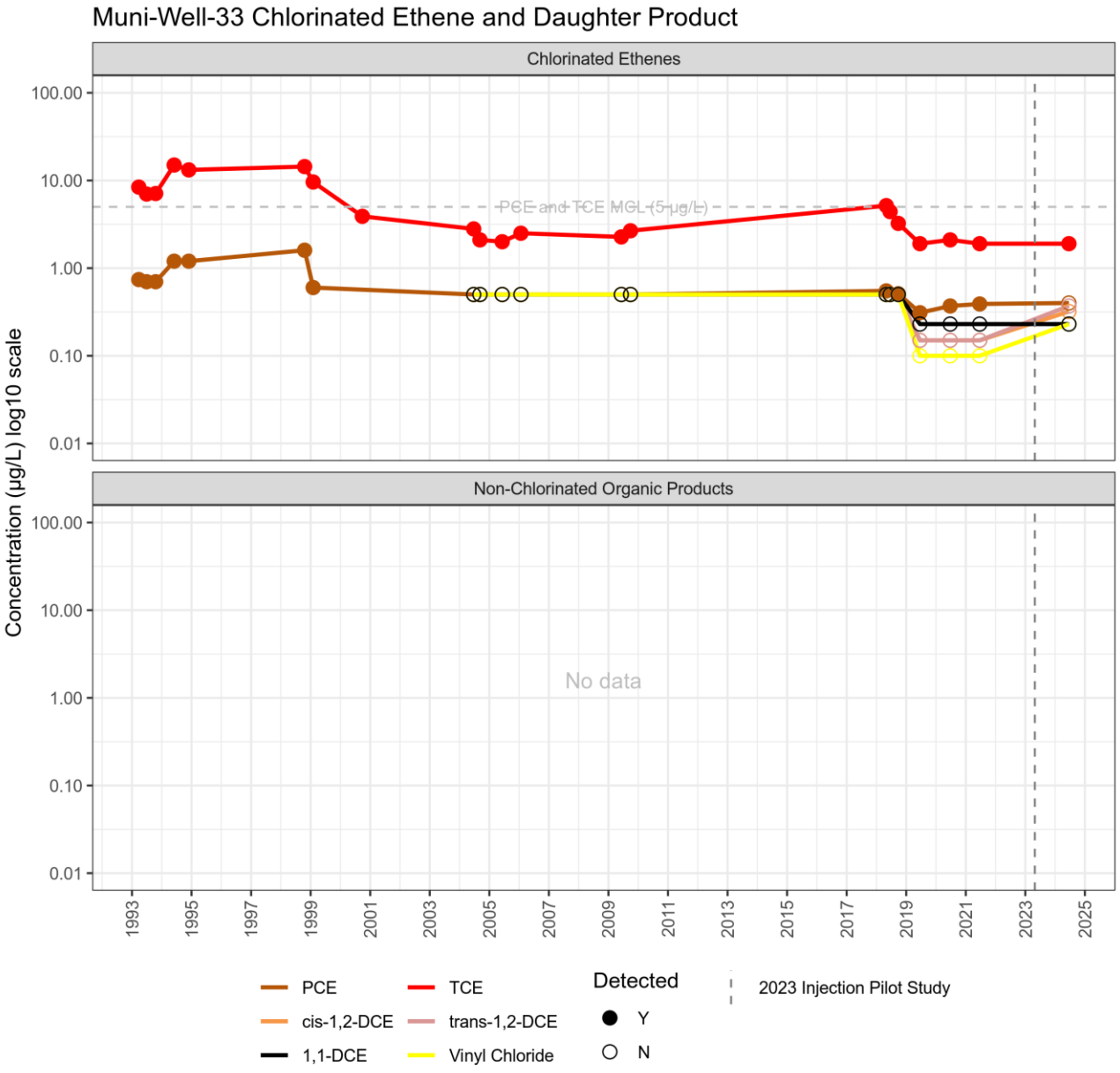
TOC and Redox Parameters



Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

