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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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LAB CHRONICLE

OrderID:	Q2543	**OrderDate:**	7/9/2025 12:26:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	**TP-41**	**SOIL**			**07/08/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-02	**TP-49**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-03	**TP-23**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	
Q2543-04	**TP-23-99**	**SOIL**			**07/09/25**			**07/09/25**
			VOC-TCLVOA-10	8260D			07/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2543

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-41**								
Q2543-01	TP-41	SOIL	Acetone		77.9		3.60	19.2	ug/Kg
Q2543-01	TP-41	SOIL	Carbon Disulfide		1.10	J	0.81	3.80	ug/Kg
Q2543-01	TP-41	SOIL	2-Butanone		22.2		5.00	19.2	ug/Kg
Q2543-01	TP-41	SOIL	Methylcyclohexane		4.40		0.70	3.80	ug/Kg
Q2543-01	TP-41	SOIL	m/p-Xylenes		4.20	J	0.95	7.70	ug/Kg
			Total Voc :		110				
Q2543-01	TP-41	SOIL	2-Ethyl-oxetane	*	4.30	J	0	0	ug/Kg
			Total Tics :		4.30				
			Total Concentration:		114				
Client ID:	**TP-49**								
Q2543-02	TP-49	SOIL	Acetone		14.8	J	4.10	21.5	ug/Kg
			Total Voc :		14.8				
			Total Concentration:		14.8				
Client ID:	**TP-23**								
Q2543-03	TP-23	SOIL	Acetone		6.90	J	4.30	22.5	ug/Kg
Q2543-03	TP-23	SOIL	Methylene Chloride		5.90	J	3.20	9.00	ug/Kg
			Total Voc :		12.8				
Q2543-03	TP-23	SOIL	n-Hexane	*	4.70	J	0	0	ug/Kg
			Total Tics :		4.70				
			Total Concentration:		17.5				
Client ID:	**TP-23-99**								
Q2543-04	TP-23-99	SOIL	Acetone		7.50	J	5.30	27.8	ug/Kg
			Total Voc :		7.50				
			Total Concentration:		7.50				

QC SUMMARY

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Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2543-01	TP-41	1,2-Dichloroethane-d4	50	56.7	113		63	155
		Dibromofluoromethane	50	47.2	94		70	134
		Toluene-d8	50	46.0	92		74	123
		4-Bromofluorobenzene	50	49.2	98		17	146
Q2543-02	TP-49	1,2-Dichloroethane-d4	50	58.9	118		63	155
		Dibromofluoromethane	50	50.1	100		70	134
		Toluene-d8	50	48.0	96		74	123
		4-Bromofluorobenzene	50	51.6	103		17	146
Q2543-03	TP-23	1,2-Dichloroethane-d4	50	58.5	117		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	47.9	96		74	123
		4-Bromofluorobenzene	50	52.0	104		17	146
Q2543-04	TP-23-99	1,2-Dichloroethane-d4	50	55.8	112		63	155
		Dibromofluoromethane	50	47.1	94		70	134
		Toluene-d8	50	45.4	91		74	123
		4-Bromofluorobenzene	50	49.4	99		17	146
VW0710SBL01	VW0710SBL01	1,2-Dichloroethane-d4	50	55.9	112		63	155
		Dibromofluoromethane	50	46.0	92		70	134
		Toluene-d8	50	45.5	91		74	123
		4-Bromofluorobenzene	50	45.6	91		17	146
VW0710SBS01	VW0710SBS01	1,2-Dichloroethane-d4	50	48.8	98		63	155
		Dibromofluoromethane	50	47.6	95		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	51.3	103		17	146
VW0710SBSD0	VW0710SBSD01	1,2-Dichloroethane-d4	50	51.5	103		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	51.9	104		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBS01	Dichlorodifluoromethane	20	18.5	ug/Kg	93			64	136	
	Chloromethane	20	19.3	ug/Kg	97			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	18.8	ug/Kg	94			58	141	
	Chloroethane	20	19.6	ug/Kg	98			69	130	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			69	134	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/Kg	97			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	100	ug/Kg	100			40	171	
	Carbon disulfide	20	18.7	ug/Kg	94			59	130	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			77	129	
	Methyl Acetate	20	17.7	ug/Kg	89			69	149	
	Methylene Chloride	20	24.3	ug/Kg	121			72	131	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	19.6	ug/Kg	98			76	129	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	21.2	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99			80	126	
	Methylcyclohexane	20	20.4	ug/Kg	102			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.9	ug/Kg	104			83	122	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.4	ug/Kg	97			79	125	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			80	125	
	Tetrachloroethene	20	19.5	ug/Kg	98			83	125	
	Chlorobenzene	20	21.4	ug/Kg	107			84	122	
	Ethyl Benzene	20	22.0	ug/Kg	110			82	124	
	m/p-Xylenes	40	42.3	ug/Kg	106			83	124	
	o-Xylene	20	21.8	ug/Kg	109			83	123	
	Styrene	20	21.4	ug/Kg	107			82	124	
	Bromoform	20	18.0	ug/Kg	90			75	127	
	Isopropylbenzene	20	20.4	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			77	127	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96			84	121	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			66	134	
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031794.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0710SBSD01	Dichlorodifluoromethane	20	19.6	ug/Kg	98	5		64	136	20
	Chloromethane	20	19.4	ug/Kg	97	0		52	151	20
	Vinyl chloride	20	20.7	ug/Kg	104	3		56	148	20
	Bromomethane	20	18.6	ug/Kg	93	1		58	141	20
	Chloroethane	20	19.4	ug/Kg	97	1		69	130	20
	Trichlorofluoromethane	20	16.6	ug/Kg	83	10		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103	6		81	123	20
	1,1-Dichloroethene	20	20.2	ug/Kg	101	0		79	121	20
	Acetone	100	110	ug/Kg	110	10		40	171	20
	Carbon disulfide	20	19.3	ug/Kg	97	3		59	130	20
	Methyl tert-butyl Ether	20	21.6	ug/Kg	108	2		77	129	20
	Methyl Acetate	20	19.0	ug/Kg	95	7		69	149	20
	Methylene Chloride	20	24.4	ug/Kg	122	1		72	131	20
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103	2		80	123	20
	1,1-Dichloroethane	20	21.2	ug/Kg	106	4		82	123	20
	Cyclohexane	20	21.2	ug/Kg	106	5		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	19.7	ug/Kg	99	1		76	129	20
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	3		82	123	20
	Bromochloromethane	20	21.5	ug/Kg	108	7		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100	1		80	126	20
	Methylcyclohexane	20	20.6	ug/Kg	103	1		77	123	20
	Benzene	20	21.2	ug/Kg	106	2		84	121	20
	1,2-Dichloroethane	20	21.3	ug/Kg	106	4		81	126	20
	Trichloroethene	20	19.5	ug/Kg	98	4		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	0		83	122	20
	Bromodichloromethane	20	20.8	ug/Kg	104	2		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	20.7	ug/Kg	104	0		83	122	20
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103	0		78	124	20
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106	2		81	122	20
	1,1,2-Trichloroethane	20	21.5	ug/Kg	108	5		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	5		79	125	20
	1,2-Dibromoethane	20	20.5	ug/Kg	103	0		80	125	20
	Tetrachloroethene	20	19.2	ug/Kg	96	2		83	125	20
	Chlorobenzene	20	21.2	ug/Kg	106	1		84	122	20
	Ethyl Benzene	20	21.3	ug/Kg	106	4		82	124	20
	m/p-Xylenes	40	41.8	ug/Kg	104	2		83	124	20
	o-Xylene	20	21.1	ug/Kg	106	3		83	123	20
	Styrene	20	21.4	ug/Kg	107	0		82	124	20
	Bromoform	20	19.5	ug/Kg	98	9		75	127	20
	Isopropylbenzene	20	21.1	ug/Kg	106	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106	7		77	127	20
	1,3-Dichlorobenzene	20	21.9	ug/Kg	110	10		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	7		84	121	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2543 **Analytical Method:** SW8260D

Client: CDM Smith **Datafile :** VW031794.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VW0710SBSD01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/Kg	100	9		66	134	20
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	2		78	127	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	5		70	137	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VW0710SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031792.D Lab Sample ID: VW0710SBL01

Date Analyzed: 07/10/2025 Time Analyzed: 10:15

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025
TP-41	Q2543-01	VW031809.D	07/10/2025
TP-49	Q2543-02	VW031810.D	07/10/2025
TP-23	Q2543-03	VW031811.D	07/10/2025
TP-23-99	Q2543-04	VW031812.D	07/10/2025

COMMENTS:

Raw Data: **VW031728.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2543
Lab File ID: VW031728.D
BFB Injection Date: 06/30/2025
Instrument ID: MSVOA_W
BFB Injection Time: 08:56
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	65.4
175	5.0 - 9.0% of mass 174	5.4 (8.2) 1
176	95.0 - 101.0% of mass 174	64.8 (99.2) 1
177	5.0 - 9.0% of mass 176	4.1 (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 ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VW031729.D	06/30/2025	09:54
VSTDICC010	VSTDICC010	VW031730.D	06/30/2025	10:15
VSTDICC020	VSTDICC020	VW031731.D	06/30/2025	10:58
VSTDICCC050	VSTDICCC050	VW031732.D	06/30/2025	11:21
VSTDICC100	VSTDICC100	VW031733.D	06/30/2025	12:34
VSTDICC150	VSTDICC150	VW031734.D	06/30/2025	12:55

Raw Data: **VW031790.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2543
Lab File ID: VW031790.D
BFB Injection Date: 07/10/2025
Instrument ID: MSVOA_W
BFB Injection Time: 08:16
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.3
175	5.0 - 9.0% of mass 174	4.9 (7.6) 1
176	95.0 - 101.0% of mass 174	63.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.9 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW031791.D	07/10/2025	08:47
VW0710SBL01	VW0710SBL01	VW031792.D	07/10/2025	10:15
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025	11:05
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025	11:33
TP-41	Q2543-01	VW031809.D	07/10/2025	17:26
TP-49	Q2543-02	VW031810.D	07/10/2025	17:48
TP-23	Q2543-03	VW031811.D	07/10/2025	18:10
TP-23-99	Q2543-04	VW031812.D	07/10/2025	18:32

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031791.D Date Analyzed: 07/10/2025

Instrument ID: MSVOA_W Time Analyzed: 08:47

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	245114	7.97	431816	8.85	372703	11.63
UPPER LIMIT	490228	8.465	863632	9.349	745406	12.129
LOWER LIMIT	122557	7.465	215908	8.349	186352	11.129
EPA SAMPLE NO.						
TP-41	171010	7.97	378208	8.86	348050	11.64
TP-49	160019	7.97	352818	8.85	344995	11.64
TP-23	167231	7.97	355443	8.86	345205	11.63
TP-23-99	171007	7.97	374934	8.85	354079	11.64
VW0710SBL01	178449	7.96	403423	8.85	368923	11.64
VW0710SBS01	227800	7.97	411611	8.86	356304	11.64
VW0710SBSD01	226314	7.97	415001	8.85	365558	11.63

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Lab File ID: VW031791.D Date Analyzed: 07/10/2025

Instrument ID: MSVOA_W Time Analyzed: 08:47

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	173821	13.556				
UPPER LIMIT	347642	14.056				
LOWER LIMIT	86910.5	13.056				
EPA SAMPLE NO.						
TP-41	159478	13.56				
TP-49	157809	13.56				
TP-23	165908	13.56				
TP-23-99	167590	13.56				
VW0710SBL01	171872	13.56				
VW0710SBS01	178658	13.56				
VW0710SBSD01	173637	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	0.88	3.80	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.80	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	3.80	ug/Kg
74-83-9	Bromomethane	0.82	U	0.82	3.80	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	3.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.93	U	0.93	3.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.81	U	0.81	3.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	3.80	ug/Kg
67-64-1	Acetone	77.9		3.60	19.2	ug/Kg
75-15-0	Carbon Disulfide	1.10	J	0.81	3.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	3.80	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.80	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	3.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	3.80	ug/Kg
110-82-7	Cyclohexane	0.61	U	0.61	3.80	ug/Kg
78-93-3	2-Butanone	22.2		5.00	19.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.74	U	0.74	3.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.80	ug/Kg
74-97-5	Bromochloromethane	0.88	U	0.88	3.80	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	3.80	ug/Kg
108-87-2	Methylcyclohexane	4.40		0.70	3.80	ug/Kg
71-43-2	Benzene	0.61	U	0.61	3.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	3.80	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	3.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.70	U	0.70	3.80	ug/Kg
75-27-4	Bromodichloromethane	0.60	U	0.60	3.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	19.2	ug/Kg
108-88-3	Toluene	0.60	U	0.60	3.80	ug/Kg

Raw Data: **VW031809.D**

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	3.80	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	19.2	ug/Kg
124-48-1	Dibromochloromethane	0.67	U	0.67	3.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	3.80	ug/Kg
127-18-4	Tetrachloroethene	0.81	U	0.81	3.80	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	3.80	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	3.80	ug/Kg
179601-23-1	m/p-Xylenes	4.20	J	0.95	7.70	ug/Kg
95-47-6	o-Xylene	0.63	U	0.63	3.80	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.80	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	3.80	ug/Kg
98-82-8	Isopropylbenzene	0.60	U	0.60	3.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.93	U	0.93	3.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		63 - 155	113%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	46.0		74 - 123	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.965			
540-36-3	1,4-Difluorobenzene	378000	8.855			
3114-55-4	Chlorobenzene-d5	348000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.555			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VW031809.D**

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	7.94 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031809.D	1	07/10/25 17:26	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	4.30	J		5.98	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Quant Time: Jul 11 02:24:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

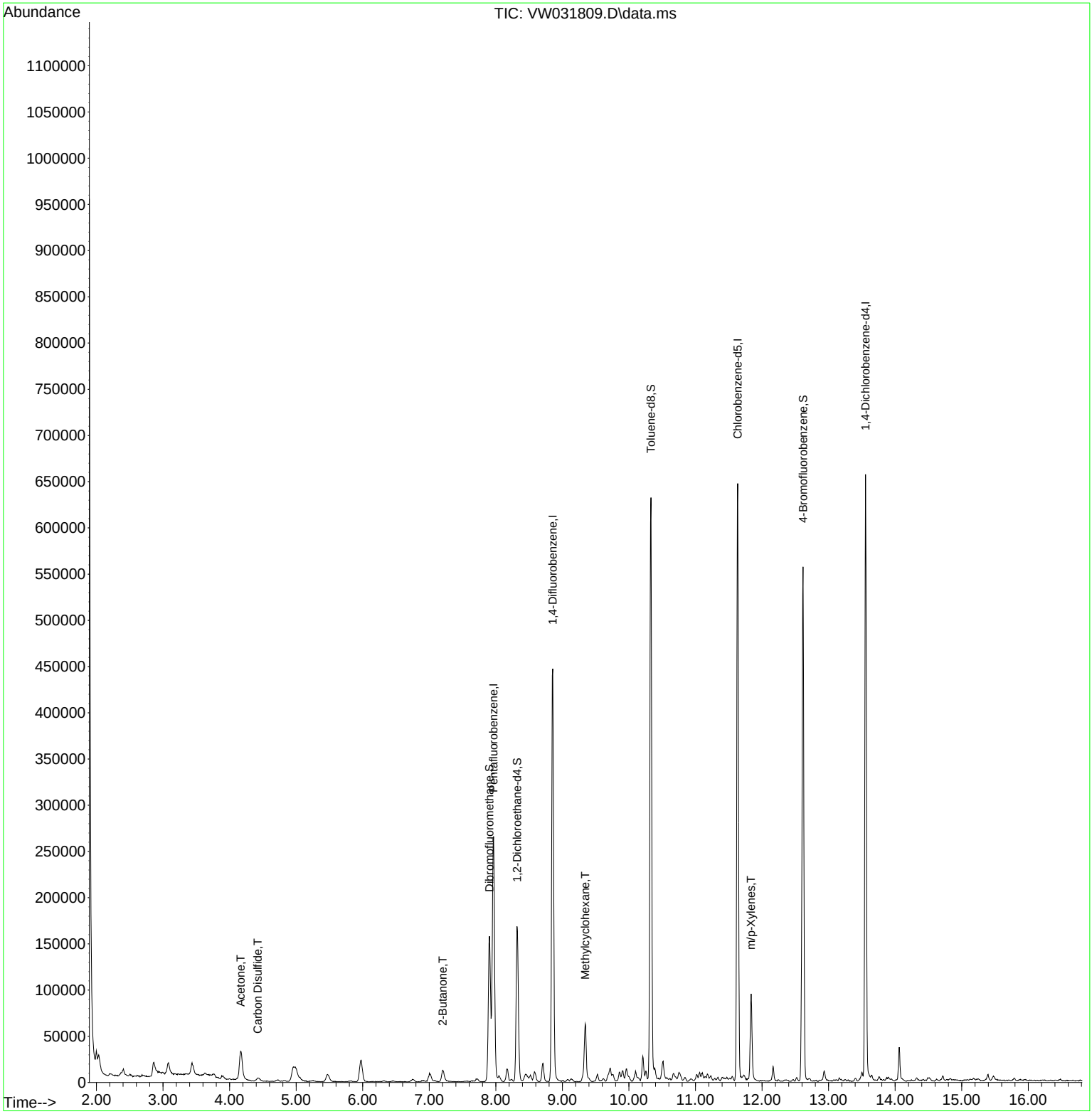
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	171010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	378208	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	348050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	159478	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	139239	56.735	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 113.480%			
35) Dibromofluoromethane	7.904	113	116383	47.157	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.320%			
50) Toluene-d8	10.330	98	422063	45.955	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 91.900%			
62) 4-Bromofluorobenzene	12.617	95	166288	49.200	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.400%			
Target Compounds						Qvalue
16) Acetone	4.167	43	61563	101.489	ug/l	96
17) Carbon Disulfide	4.423	76	8045	1.475	ug/l #	95
25) 2-Butanone	7.203	43	22800	28.891	ug/l	94
39) Methylcyclohexane	9.343	83	25351	5.705	ug/l	97
68) m/p-Xylenes	11.836	106	28107	5.491	ug/l	99

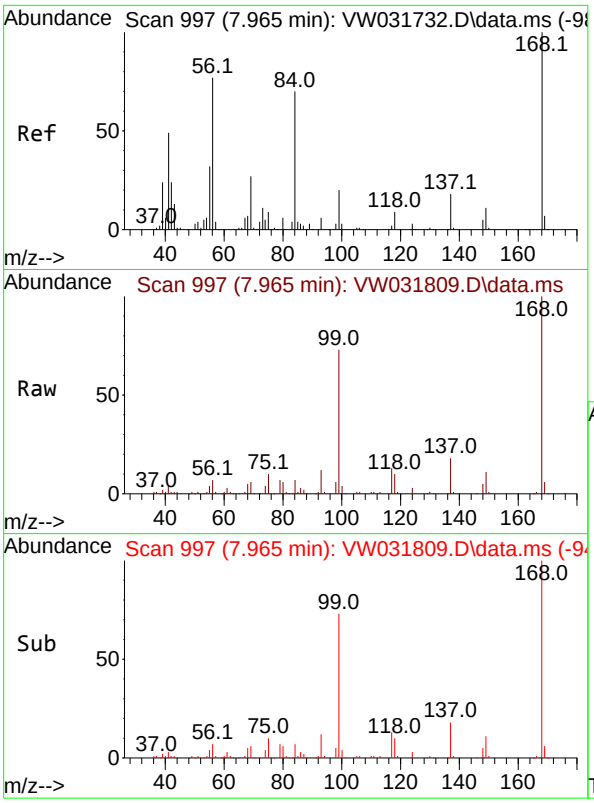
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Quant Time: Jul 11 02:24:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



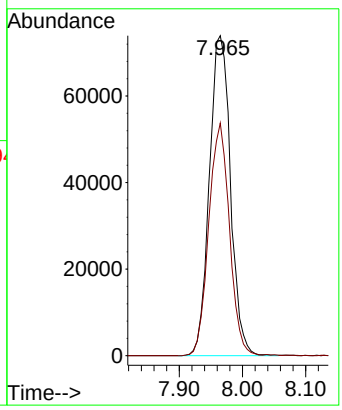


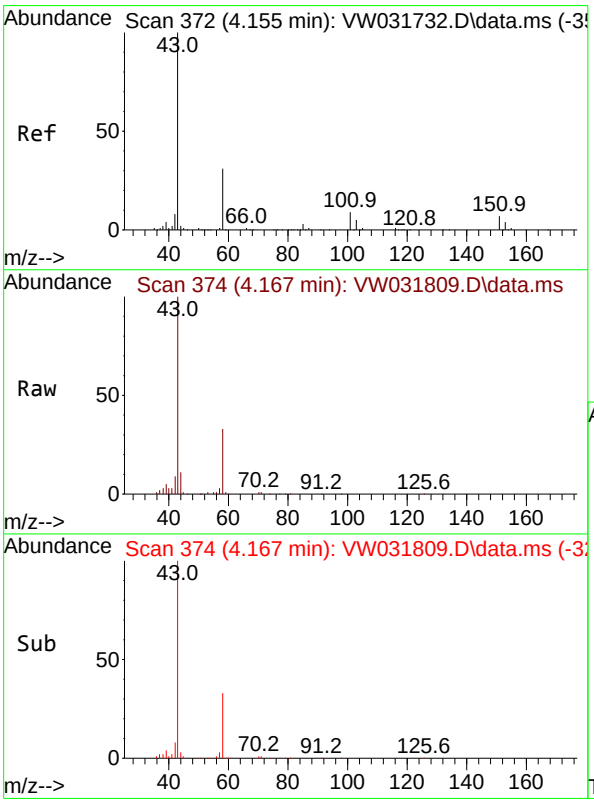
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion:168 Resp: 171010

Ion	Ratio	Lower	Upper
168	100		
99	72.7	49.4	74.2

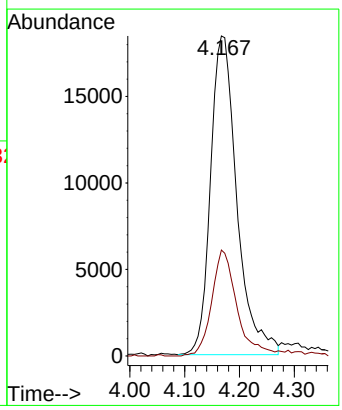


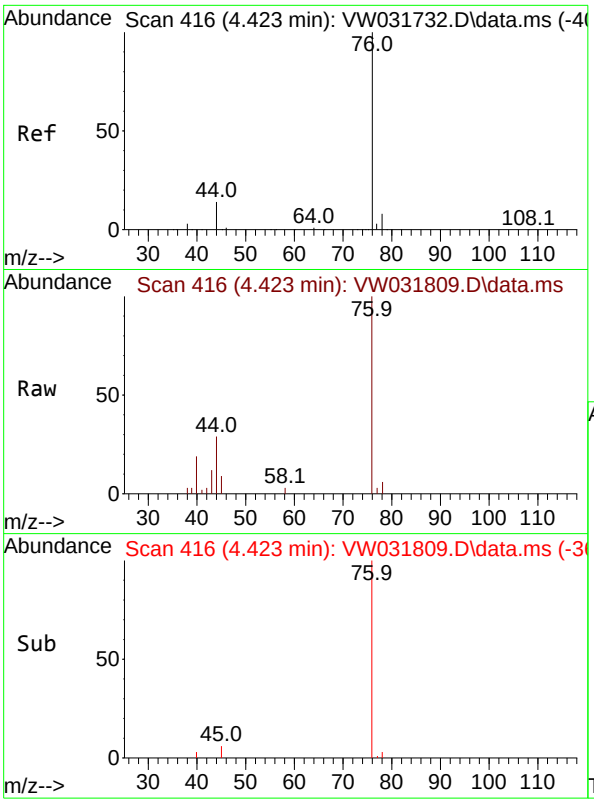


#16
Acetone
Concen: 101.489 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.012 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion: 43 Resp: 61563

Ion	Ratio	Lower	Upper
43	100		
58	33.2	24.8	37.2



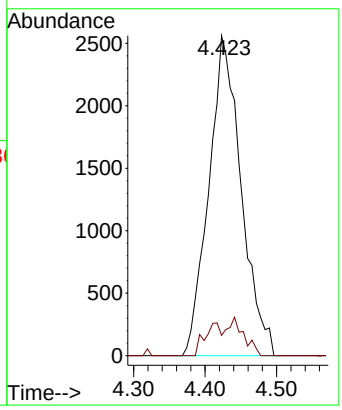


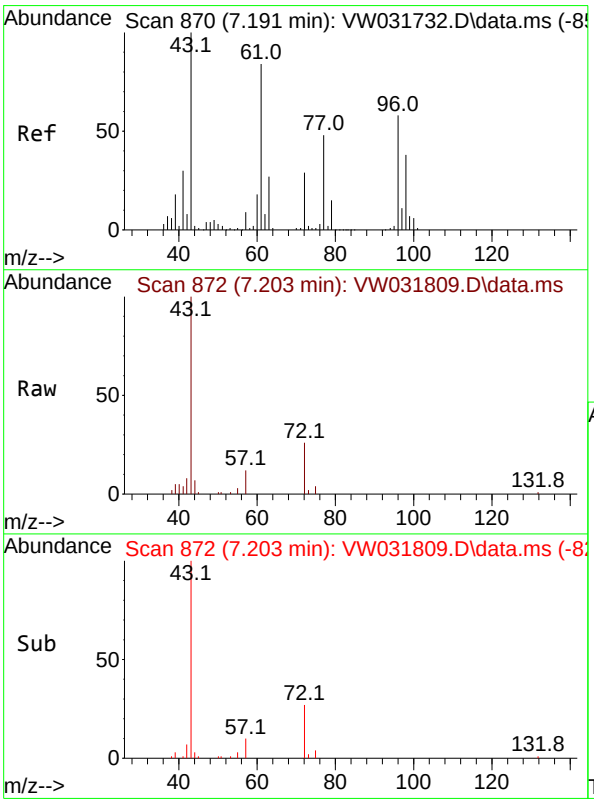
#17
Carbon Disulfide
Concen: 1.475 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion: 76 Resp: 8045

Ion	Ratio	Lower	Upper
76	100		
78	6.4	6.6	10.0#

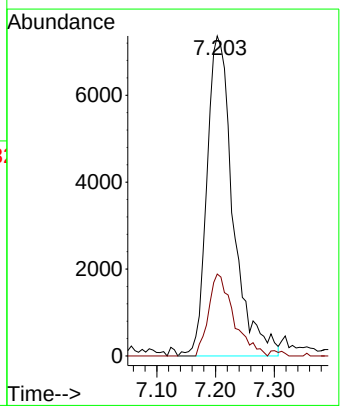


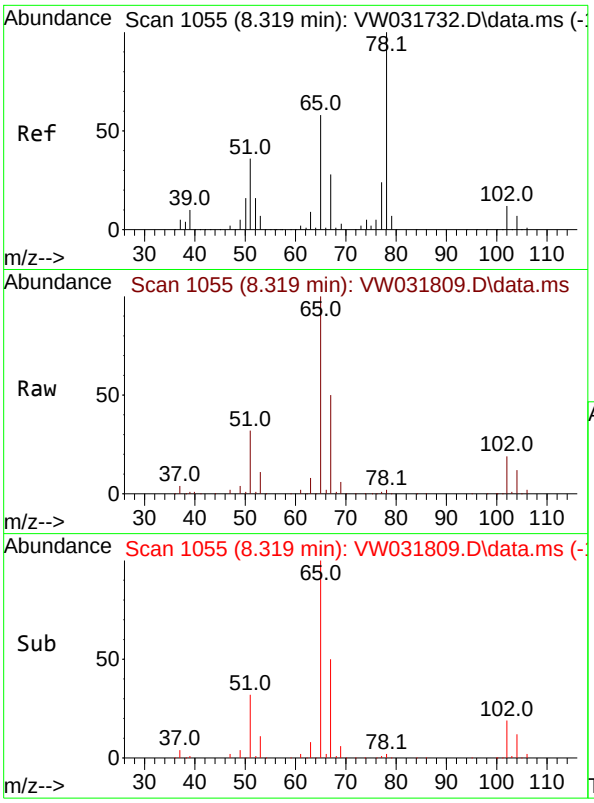


#25
2-Butanone
Concen: 28.891 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion: 43 Resp: 22800

Ion	Ratio	Lower	Upper
43	100		
72	25.6	23.0	34.6



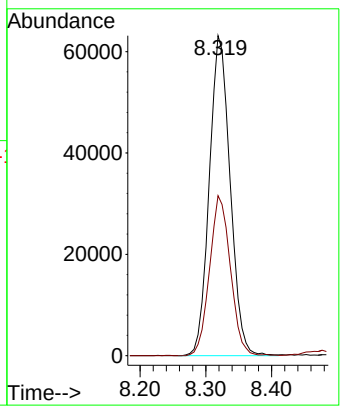


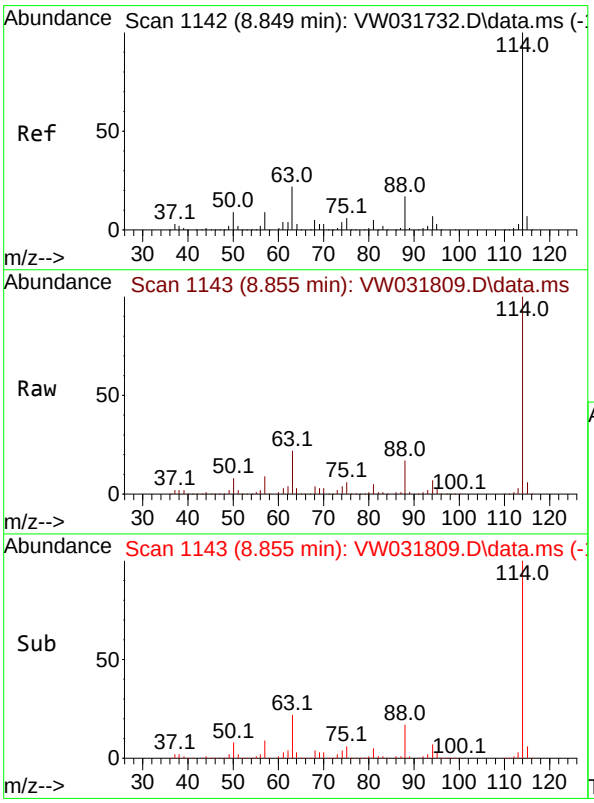
#33
1,2-Dichloroethane-d4
Concen: 56.735 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion: 65 Resp: 139239

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	99.4

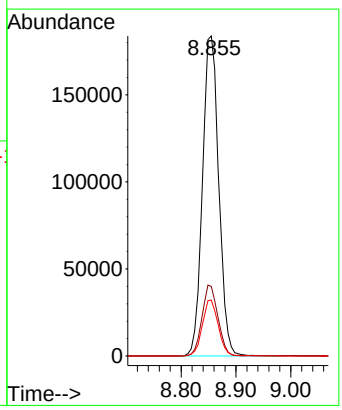


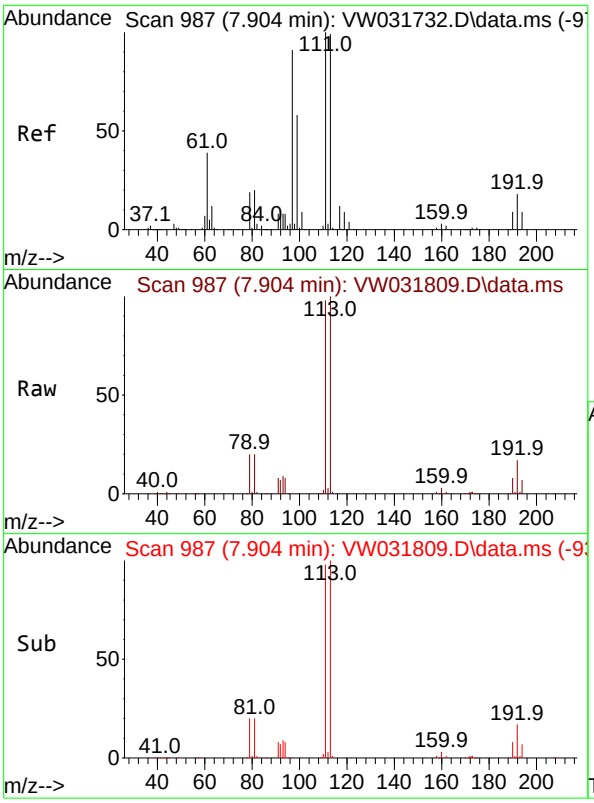


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion:114 Resp: 378208

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.6
88	17.5	0.0	34.2



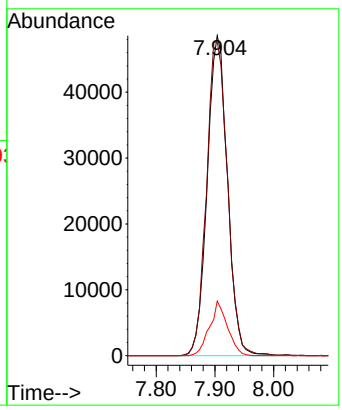


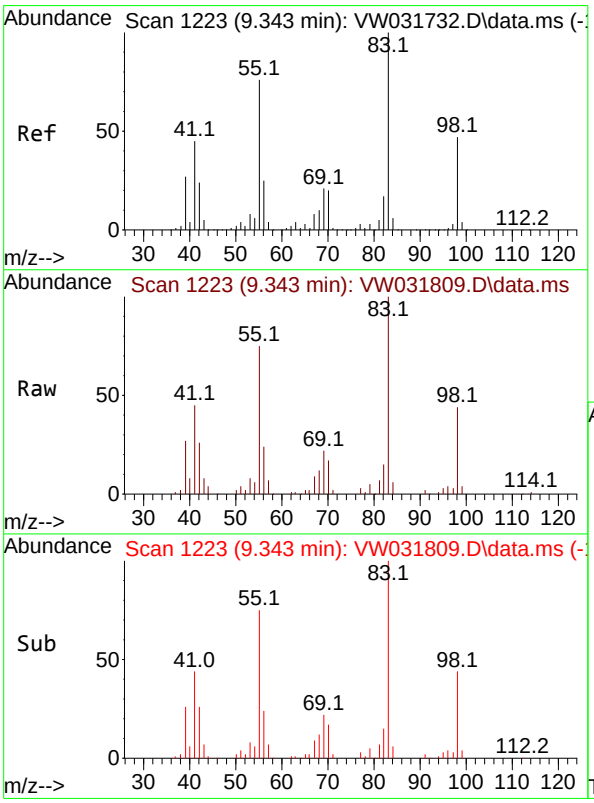
#35
Dibromofluoromethane
Concen: 47.157 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion:113 Resp: 116383

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.1	123.1
192	15.1	13.8	20.6

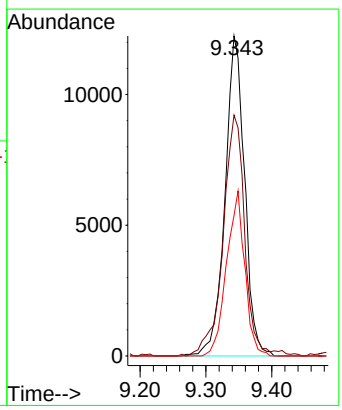


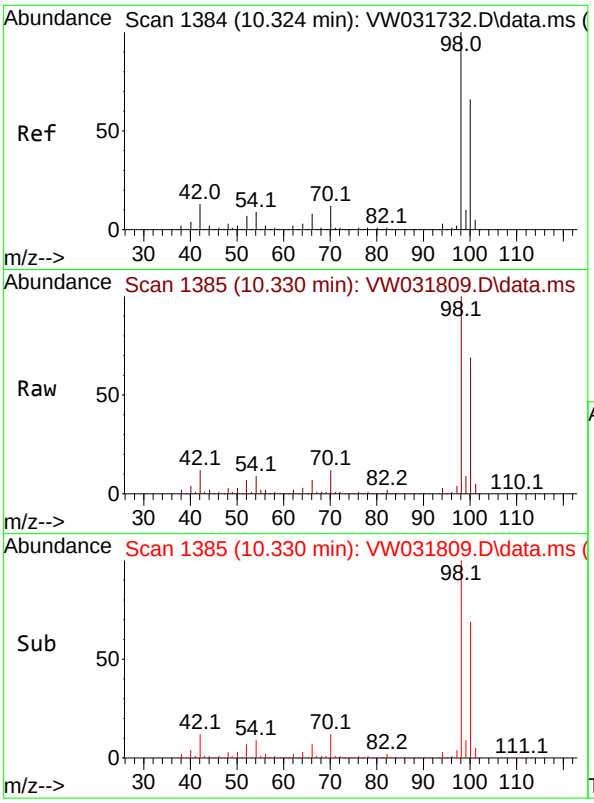


#39
Methylcyclohexane
Concen: 5.705 ug/l
RT: 9.343 min Scan# 1223
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion: 83 Resp: 25351

Ion	Ratio	Lower	Upper
83	100		
55	75.2	61.0	91.4
98	44.0	37.9	56.9



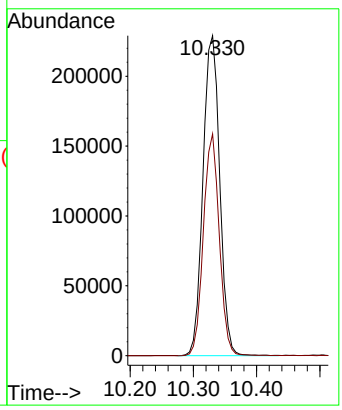


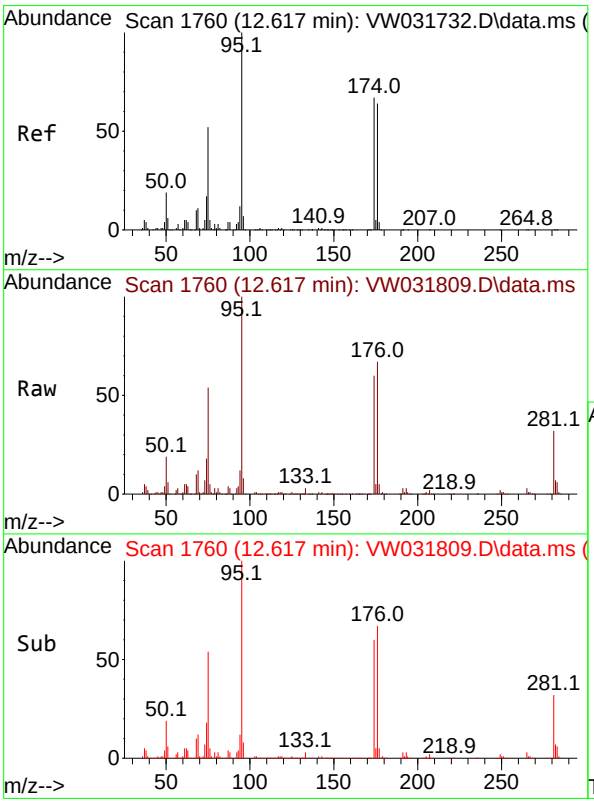
#50
Toluene-d8
Concen: 45.955 ug/l
RT: 10.330 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion: 98 Resp: 422063

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

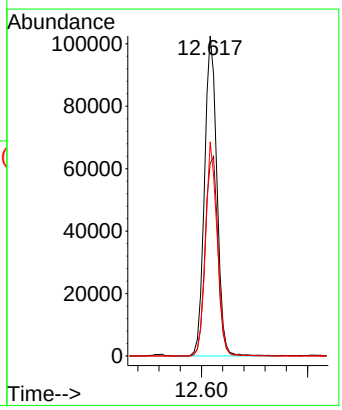


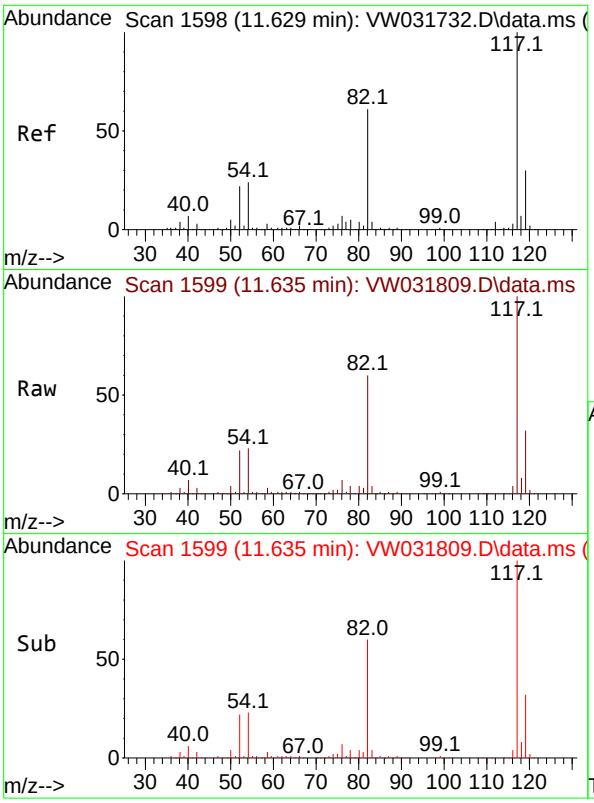


#62
4-Bromofluorobenzene
Concen: 49.200 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion: 95 Resp: 166288

Ion	Ratio	Lower	Upper
95	100		
174	63.6	0.0	133.8
176	63.2	0.0	126.0



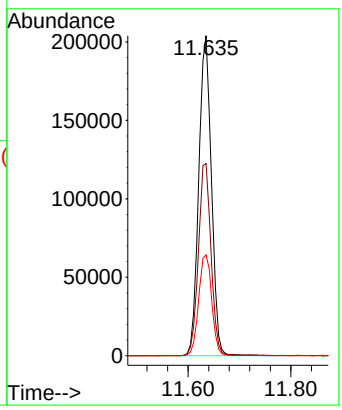


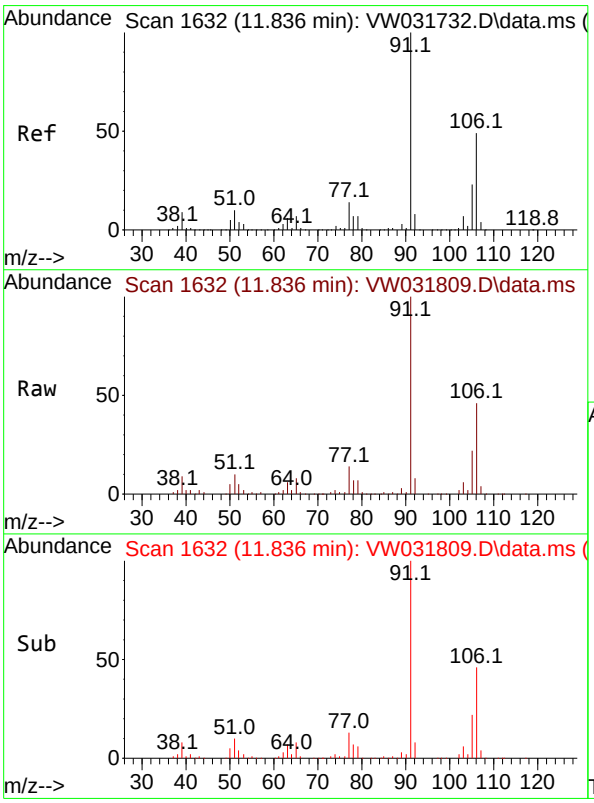
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion:117 Resp: 348050

Ion	Ratio	Lower	Upper
117	100		
82	60.0	48.6	72.8
119	31.5	23.9	35.9

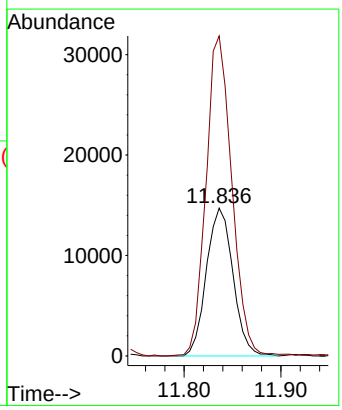


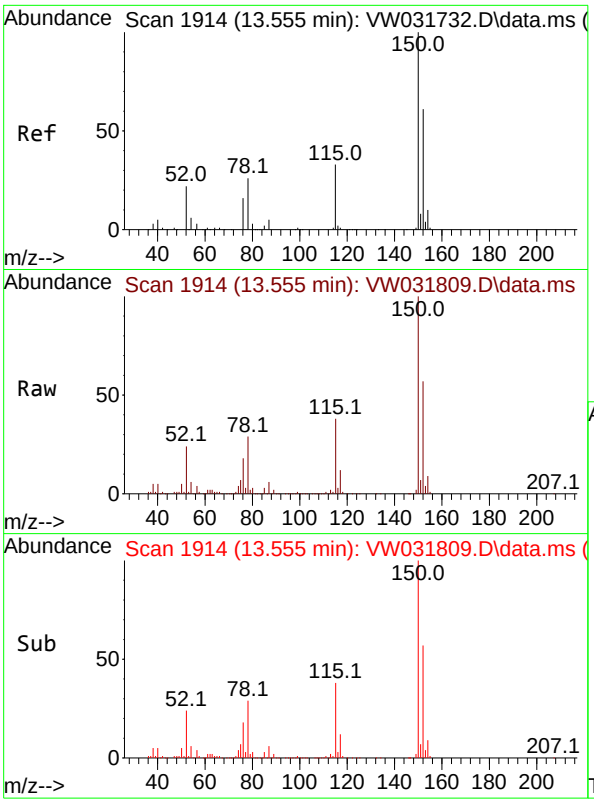


#68
m/p-Xylenes
Concen: 5.491 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Tgt Ion:106 Resp: 28107

Ion	Ratio	Lower	Upper
106	100		
91	210.3	166.4	249.6



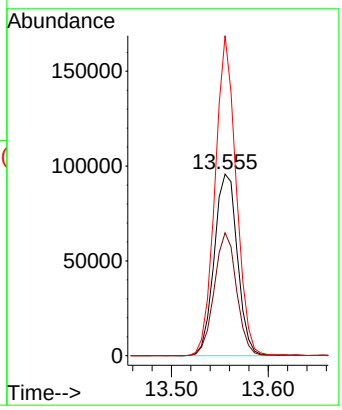


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW031809.D
Acq: 10 Jul 2025 17:26

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Tgt Ion:152 Resp: 159478

Ion	Ratio	Lower	Upper
152	100		
115	65.4	31.9	95.7
150	160.6	0.0	356.4



Sample Results: **VW031809.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

Signal : TIC: VW031809.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.405	81	85	97	rVB2	7588	16426	1.42%	0.204%
2	2.862	153	160	170	rBV	15121	50026	4.32%	0.621%
3	3.082	187	196	205	rBV4	12283	34384	2.97%	0.427%
4	3.435	248	254	265	rVB2	12807	34159	2.95%	0.424%
5	4.167	362	374	391	rVB	31229	103685	8.95%	1.287%
6	4.959	492	504	505	rBV2	15661	35759	3.09%	0.444%
7	5.471	575	588	602	rBV5	7744	28264	2.44%	0.351%
8	5.977	659	671	681	rBV3	23426	72300	6.24%	0.898%
9	7.002	833	839	850	rBV3	8671	24018	2.07%	0.298%
10	7.203	861	872	886	rBV	12611	40038	3.46%	0.497%
11	7.904	975	987	991	rBV	157353	373917	32.28%	4.642%
12	7.965	991	997	1007	rVV	264802	639157	55.18%	7.935%
13	8.166	1021	1030	1037	rBV3	13810	33642	2.90%	0.418%
14	8.319	1046	1055	1068	rBV	167321	386567	33.37%	4.799%
15	8.447	1068	1076	1084	rVV8	7326	25391	2.19%	0.315%
16	8.520	1084	1088	1093	rVV6	6242	12382	1.07%	0.154%
17	8.581	1093	1098	1107	rVB4	10520	25308	2.18%	0.314%
18	8.709	1110	1119	1128	rBV2	19883	43424	3.75%	0.539%
19	8.855	1132	1143	1156	rBV	446529	930343	80.32%	11.550%
20	9.343	1211	1223	1240	rVB2	62608	152370	13.15%	1.892%
21	9.526	1247	1253	1259	rBV3	7397	13594	1.17%	0.169%
22	9.721	1274	1285	1288	rBV4	14092	39773	3.43%	0.494%
23	9.855	1299	1307	1311	rBV2	9515	18960	1.64%	0.235%
24	9.904	1311	1315	1320	rVV5	9987	19427	1.68%	0.241%
25	9.965	1320	1325	1339	rVB3	13363	37455	3.23%	0.465%
26	10.099	1339	1347	1351	rBV2	11138	23831	2.06%	0.296%
27	10.208	1359	1365	1370	rBV3	26476	51073	4.41%	0.634%
28	10.330	1377	1385	1393	rBV	628786	1158361	100.00%	14.381%
29	10.513	1407	1415	1422	rBV6	19511	43874	3.79%	0.545%
30	10.672	1434	1441	1449	rBV8	7170	19341	1.67%	0.240%
31	10.751	1449	1454	1463	rVB6	8438	22361	1.93%	0.278%
32	11.019	1491	1498	1501	rBV5	6531	13059	1.13%	0.162%
33	11.635	1591	1599	1606	rBV	646006	1117211	96.45%	13.870%
34	11.836	1625	1632	1650	rVB	93930	183148	15.81%	2.274%
35	12.165	1676	1686	1693	rBV	15693	28920	2.50%	0.359%
36	12.617	1751	1760	1772	rBV3	555895	1049854	90.63%	13.034%

Sample Results: **VW031809.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

37	12.934	1804	1812	1820	rBV4	10021	19151	1.65%	0.238%
38	13.501	1894	1905	1908	rBV7	9523	21060	1.82%	0.261%
39	13.555	1908	1914	1926	rVB	652947	1043140	90.05%	12.950%
40	14.061	1991	1997	2003	rBV	35360	56677	4.89%	0.704%
41	15.397	2207	2216	2222	rBV6	6528	13027	1.12%	0.162%

Sum of corrected areas: 8054857

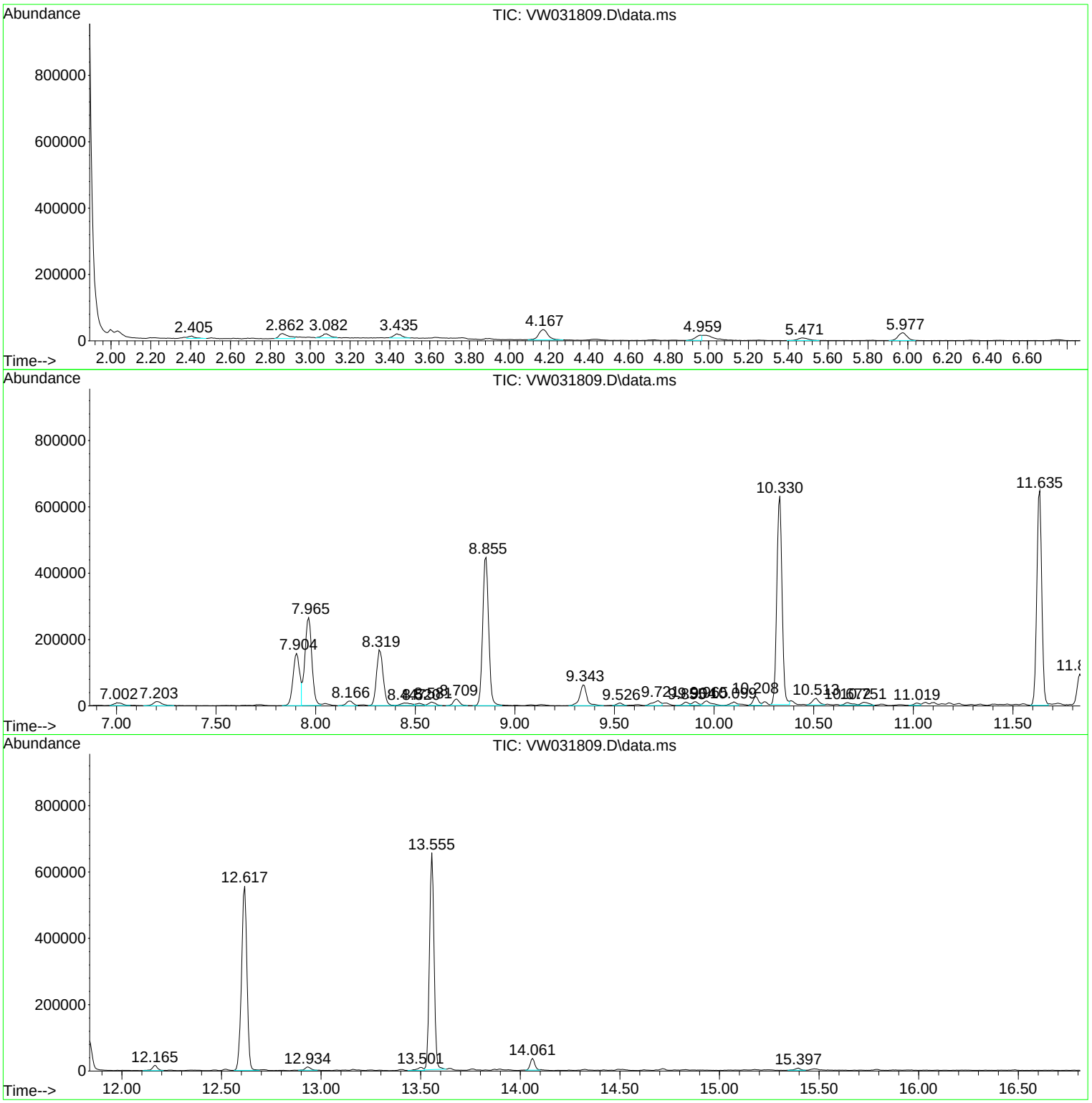
Sample Results: **VW031809.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

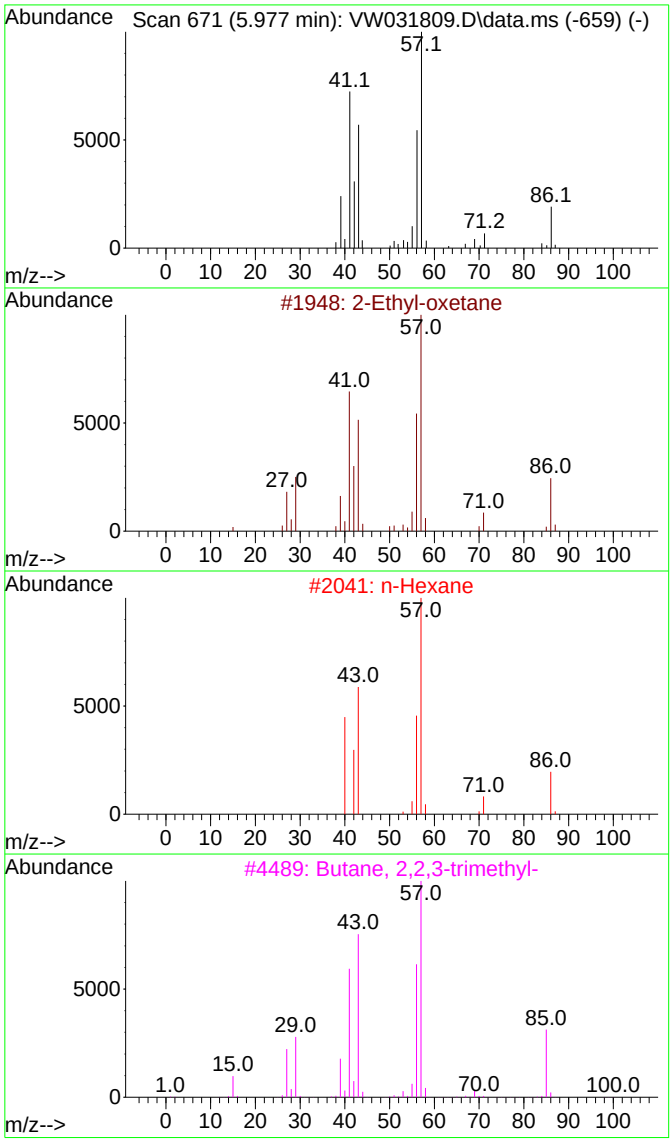
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

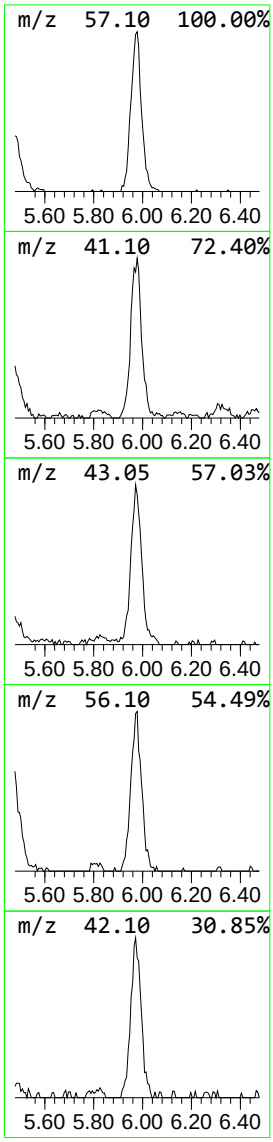
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Ethyl-oxetane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.977	5.66 ug/l	72300	Pentafluorobenzene	7.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethyl-oxetane	86	C5H10O	1010386-40-2	87
2	n-Hexane	86	C6H14	000110-54-3	72
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	47
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	43
5	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031809.D
Acq On : 10 Jul 2025 17:26
Operator : SY/MD
Sample : Q2543-01
Misc : 7.94g/5mL/MSVOA_W/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-41

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Ethyl-oxetane	5.977	5.7	ug/l	72300	1	7.965	639157	50.0

Raw Data: **VW031810.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	14.8	J	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.64	U	0.64	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.9		63 - 155	118%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.0		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.965			
540-36-3	1,4-Difluorobenzene	353000	8.849			
3114-55-4	Chlorobenzene-d5	345000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.556			

Raw Data: **VW031810.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	73.9
Sample Wt/Vol:	7.88 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031810.D	1	07/10/25 17:48	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Quant Time: Jul 11 02:24:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	160019	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	352818	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	344995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	157809	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	135339	58.934	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 117.860%			
35) Dibromofluoromethane	7.904	113	115320	50.089	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.180%			
50) Toluene-d8	10.331	98	410989	47.969	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 95.940%			
62) 4-Bromofluorobenzene	12.617	95	162553	51.556	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.120%			
Target Compounds						Qvalue
16) Acetone	4.161	43	9751	17.179	ug/l	92

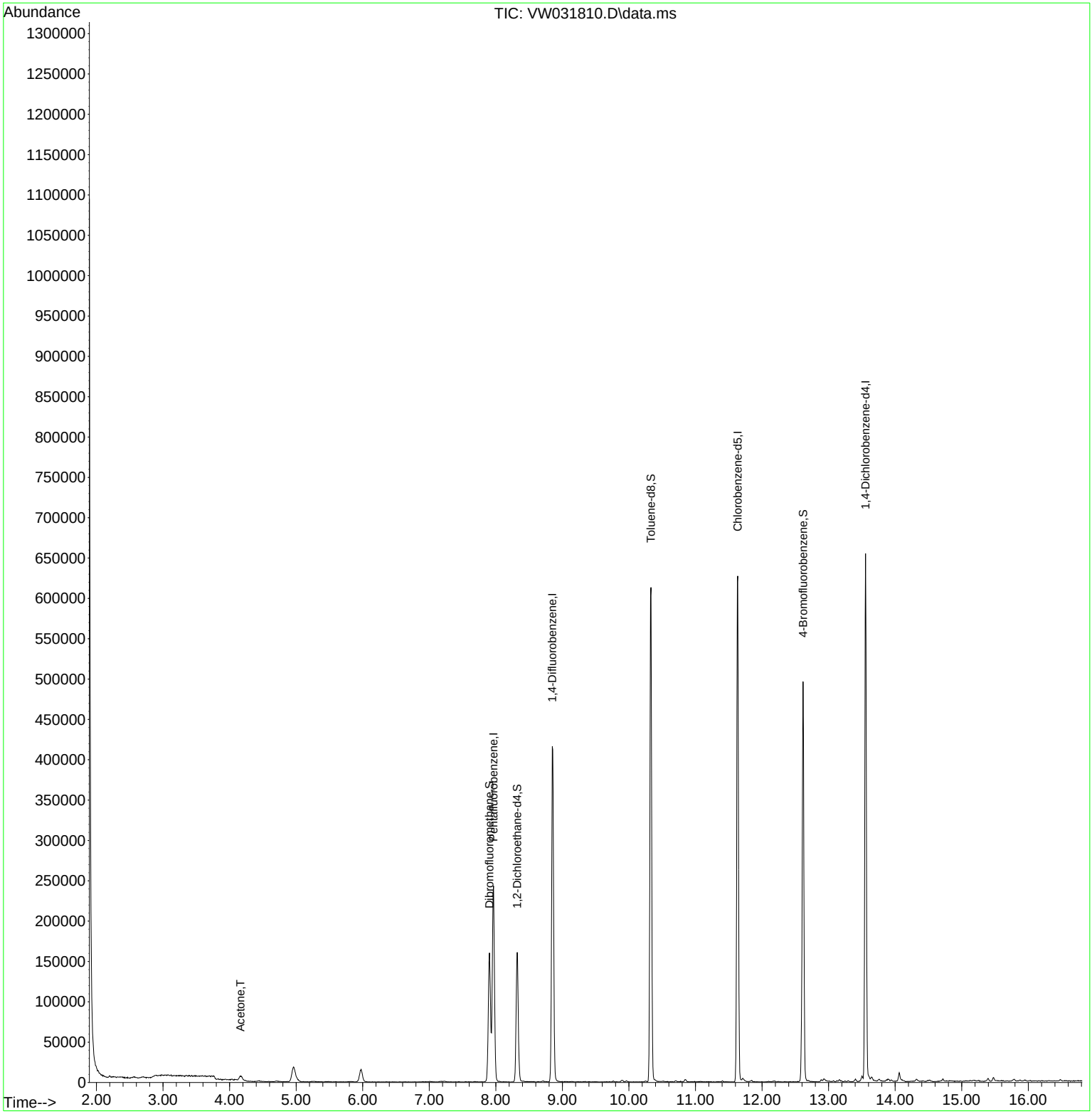
(#) = qualifier out of range (m) = manual integration (+) = signals summed

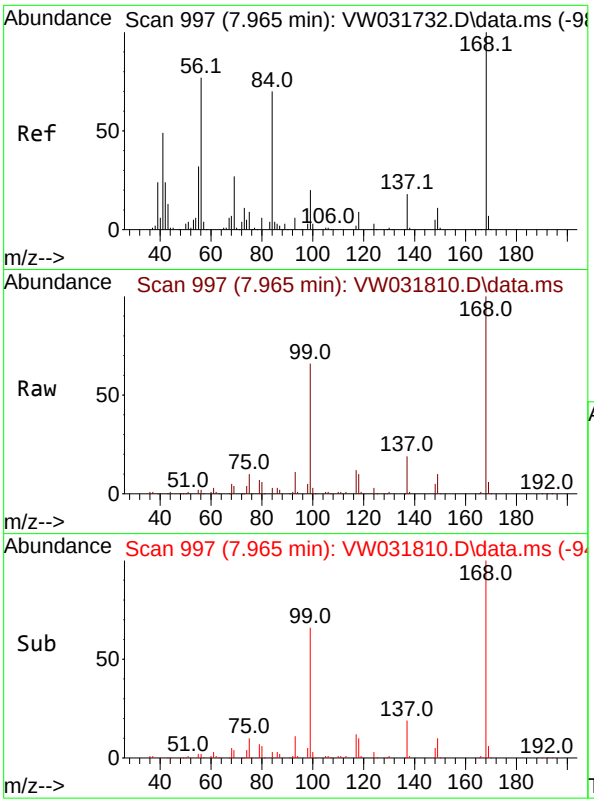
Sample Results: **VW031810.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Quant Time: Jul 11 02:24:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



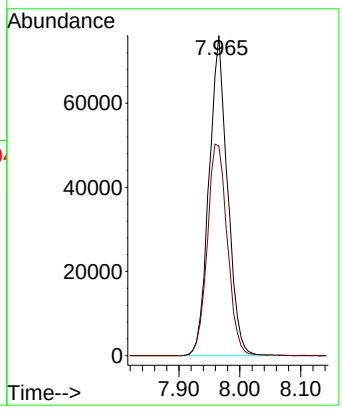


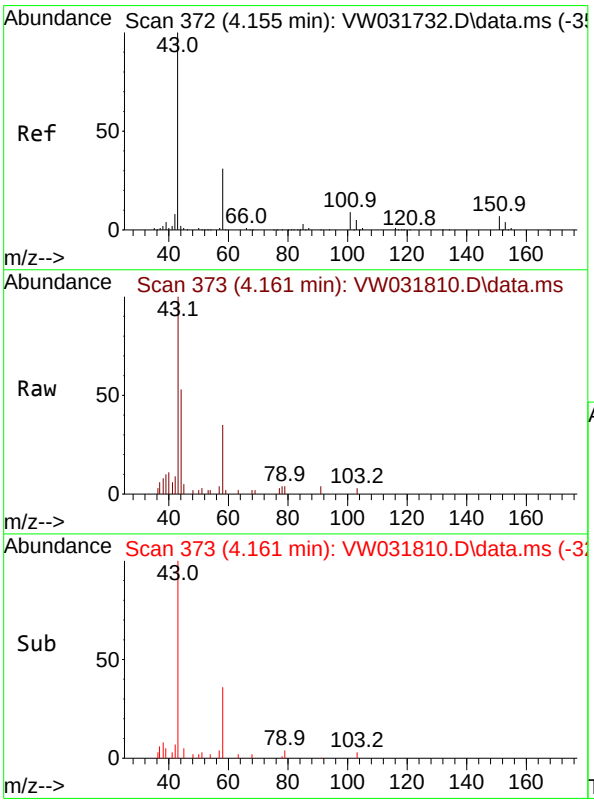
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Tgt Ion:168 Resp: 160019

Ion	Ratio	Lower	Upper
168	100		
99	65.6	49.4	74.2

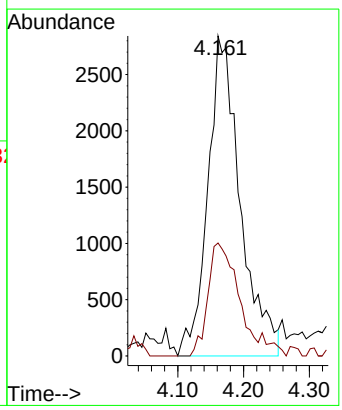


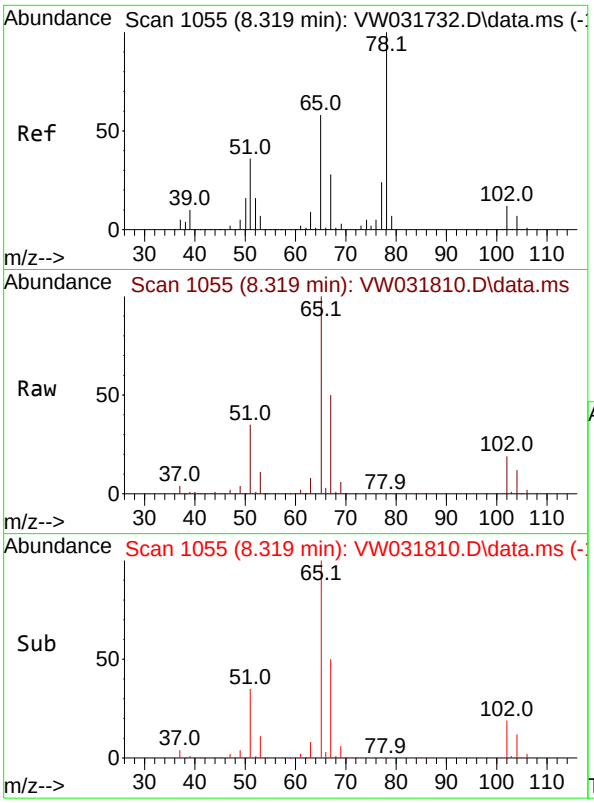


#16
Acetone
Concen: 17.179 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.006 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Tgt Ion: 43 Resp: 9751

Ion	Ratio	Lower	Upper
43	100		
58	35.3	24.8	37.2



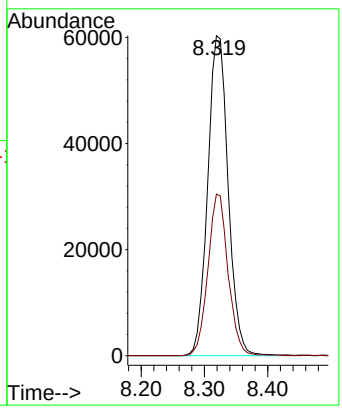


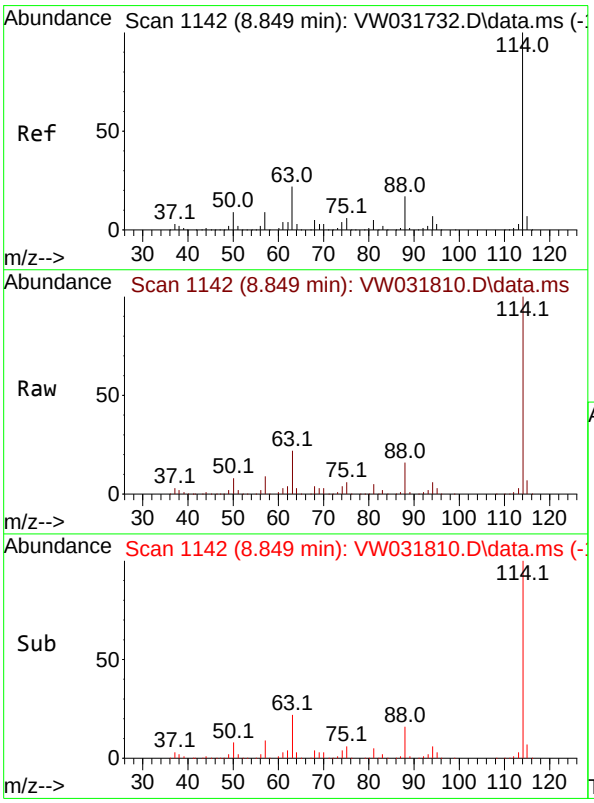
#33
1,2-Dichloroethane-d4
Concen: 58.934 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Tgt Ion: 65 Resp: 135339

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.4

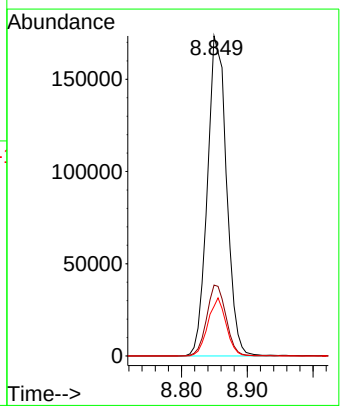


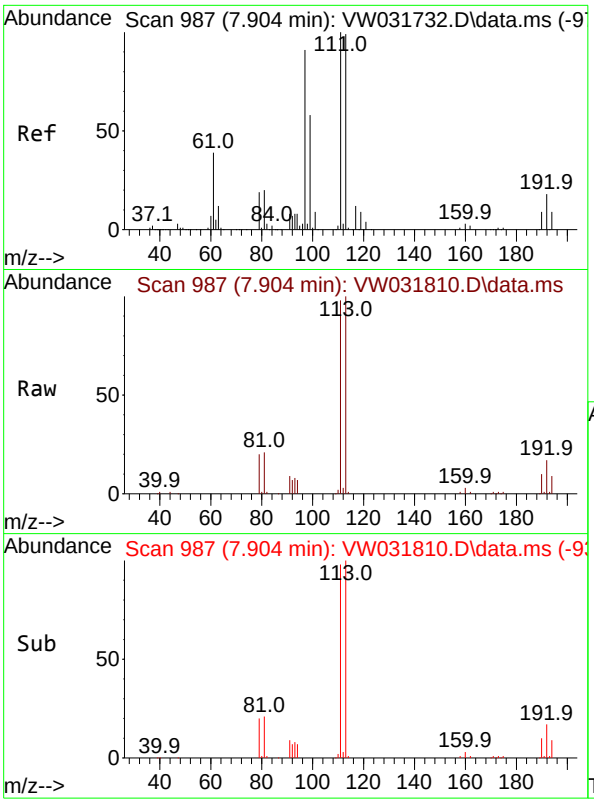


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Tgt Ion:114 Resp: 352818

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.6
88	15.5	0.0	34.2



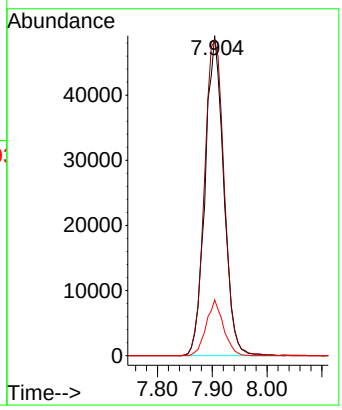


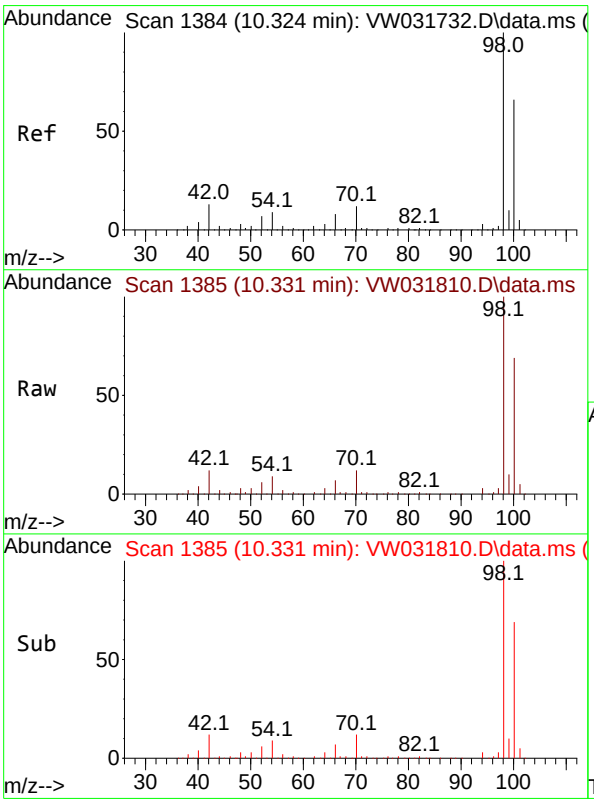
#35
Dibromofluoromethane
Concen: 50.089 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Tgt Ion:113 Resp: 115320

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.1	123.1
192	16.2	13.8	20.6

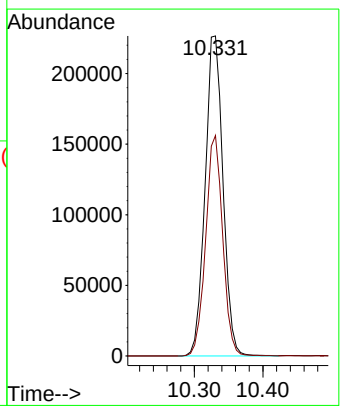


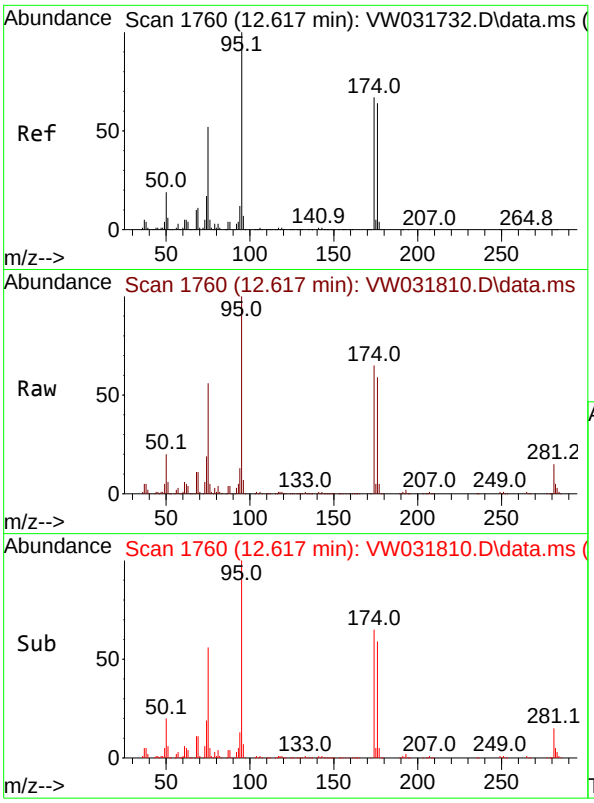


#50
Toluene-d8
Concen: 47.969 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Tgt Ion: 98 Resp: 410989

Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.0	79.4



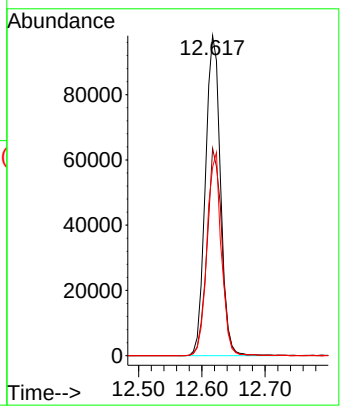


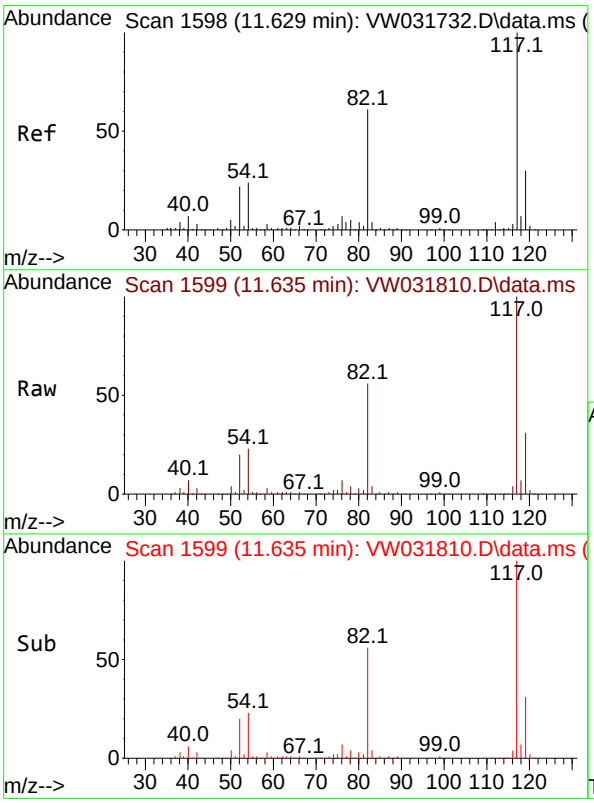
#62
4-Bromofluorobenzene
Concen: 51.556 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Tgt Ion: 95 Resp: 162553

Ion	Ratio	Lower	Upper
95	100		
174	63.5	0.0	133.8
176	60.5	0.0	126.0

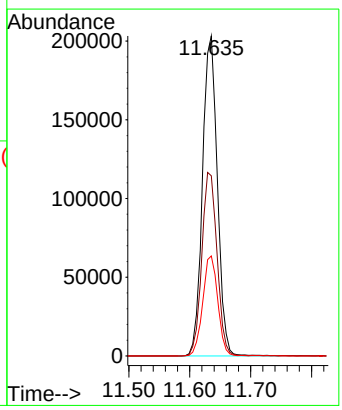


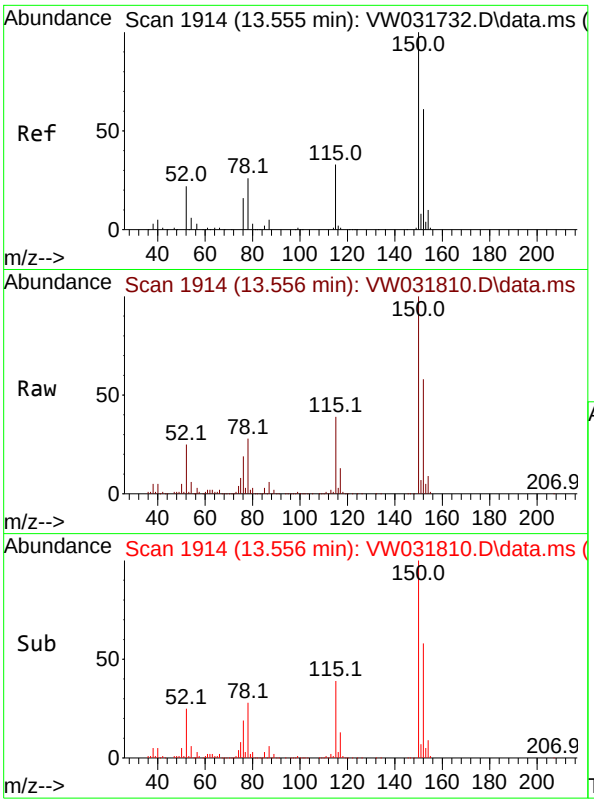


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Tgt Ion:117 Resp: 344995

Ion	Ratio	Lower	Upper
117	100		
82	56.3	48.6	72.8
119	31.3	23.9	35.9



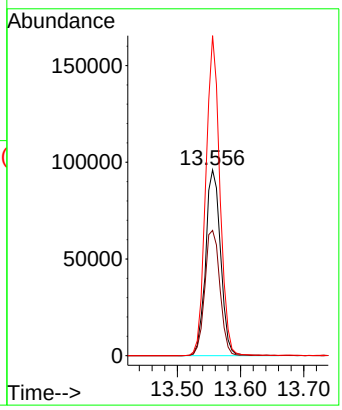


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031810.D
Acq: 10 Jul 2025 17:48

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Tgt Ion:152 Resp: 157809

Ion	Ratio	Lower	Upper
152	100		
115	68.4	31.9	95.7
150	161.7	0.0	356.4



Sample Results: **VW031810.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

Signal : TIC: VW031810.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	491	504	520	rBV	18379	74189	6.73%	1.157%
2	5.978	656	671	683	rBV3	15492	49532	4.49%	0.772%
3	7.904	972	987	992	rBV	160068	392853	35.63%	6.126%
4	7.965	992	997	1010	rVB	242422	527183	47.81%	8.220%
5	8.325	1045	1056	1068	rBV	160284	362828	32.90%	5.658%
6	8.849	1134	1142	1155	rBV	415207	857132	77.73%	13.365%
7	10.331	1377	1385	1394	rBV	612857	1102716	100.00%	17.195%
8	11.635	1591	1599	1608	rBV	626961	1091176	98.95%	17.015%
9	12.617	1748	1760	1769	rBV2	495913	878026	79.62%	13.691%
10	13.501	1897	1905	1908	rBV4	6863	12973	1.18%	0.202%
11	13.556	1908	1914	1925	rVB	652123	1045418	94.80%	16.301%
12	14.062	1991	1997	2003	rBV2	10491	19054	1.73%	0.297%

Sum of corrected areas: 6413080

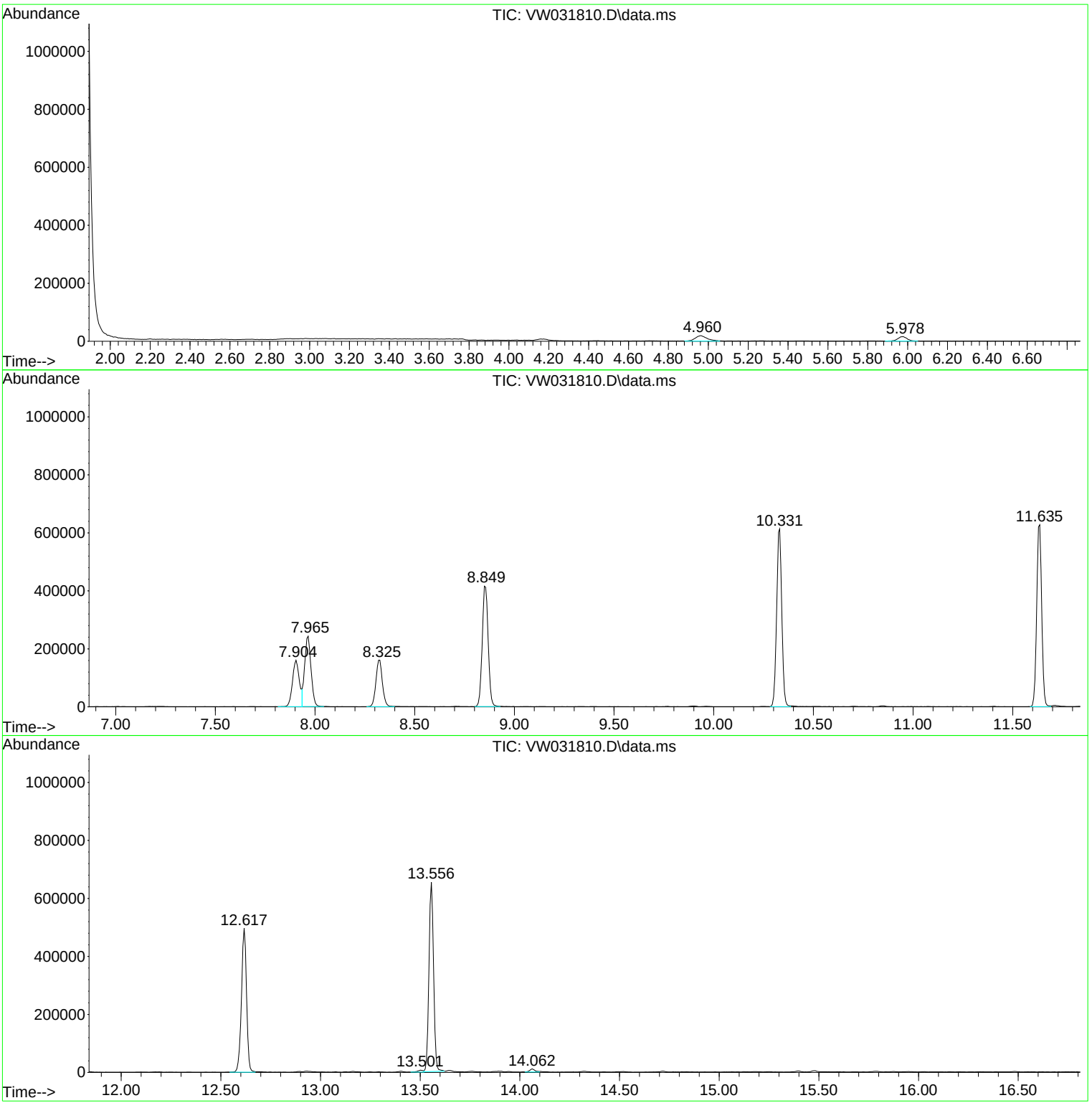
Sample Results: **VW031810.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Sample Results: **VW031810.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031810.D
Acq On : 10 Jul 2025 17:48
Operator : SY/MD
Sample : Q2543-02
Misc : 7.88g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-49

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Raw Data: **VW031811.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.50	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.50	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.50	ug/Kg
74-83-9	Bromomethane	0.96	U	0.96	4.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.95	U	0.95	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.90	U	0.90	4.50	ug/Kg
67-64-1	Acetone	6.90	J	4.30	22.5	ug/Kg
75-15-0	Carbon Disulfide	0.95	U	0.95	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	5.90	J	3.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	4.50	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	4.50	ug/Kg
78-93-3	2-Butanone	5.90	U	5.90	22.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.76	U	0.76	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.84	U	0.84	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.50	ug/Kg
71-43-2	Benzene	0.71	U	0.71	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	4.50	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.82	U	0.82	4.50	ug/Kg
75-27-4	Bromodichloromethane	0.70	U	0.70	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.5	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.5	ug/Kg
124-48-1	Dibromochloromethane	0.78	U	0.78	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	4.50	ug/Kg
127-18-4	Tetrachloroethene	0.94	U	0.94	4.50	ug/Kg
108-90-7	Chlorobenzene	0.82	U	0.82	4.50	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.00	ug/Kg
95-47-6	o-Xylene	0.74	U	0.74	4.50	ug/Kg
100-42-5	Styrene	0.64	U	0.64	4.50	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.50	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		63 - 155	117%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		17 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.965			
540-36-3	1,4-Difluorobenzene	355000	8.855			
3114-55-4	Chlorobenzene-d5	345000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.556			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VW031811.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	6.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031811.D	1	07/10/25 18:10	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000110-54-3	n-Hexane	4.70	J		5.97	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Quant Time: Jul 11 02:25:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

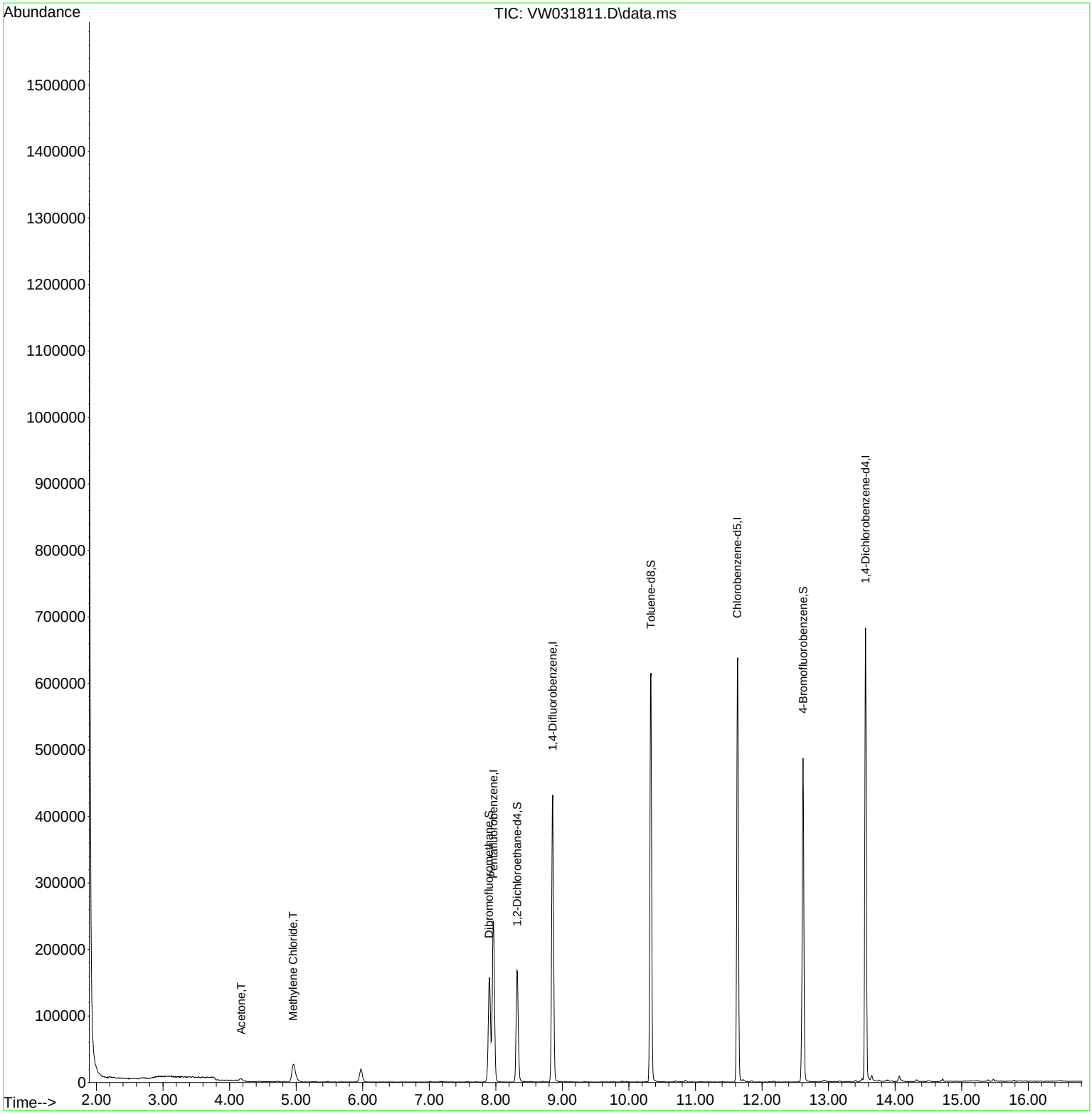
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	167231	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	355443	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	345205	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	165908	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	140332	58.473	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.940%			
35) Dibromofluoromethane	7.898	113	116915	50.407	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.820%			
50) Toluene-d8	10.331	98	413106	47.860	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 95.720%			
62) 4-Bromofluorobenzene	12.617	95	165113	51.981	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.960%			
Target Compounds						Qvalue
16) Acetone	4.173	43	4552	7.674	ug/l #	88
20) Methylene Chloride	4.954	84	24692	6.507	ug/l	99

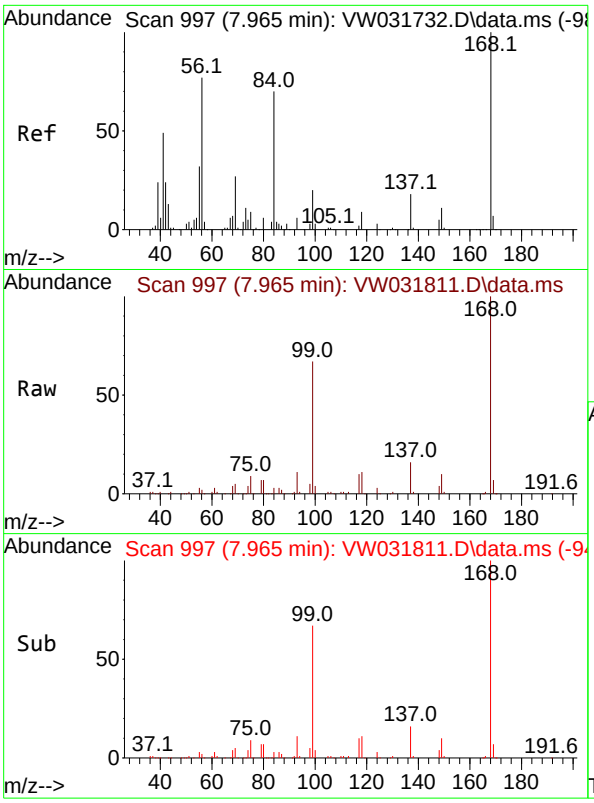
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Quant Time: Jul 11 02:25:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



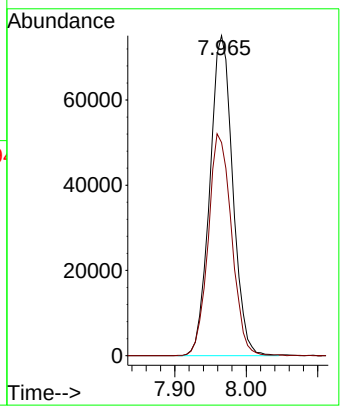


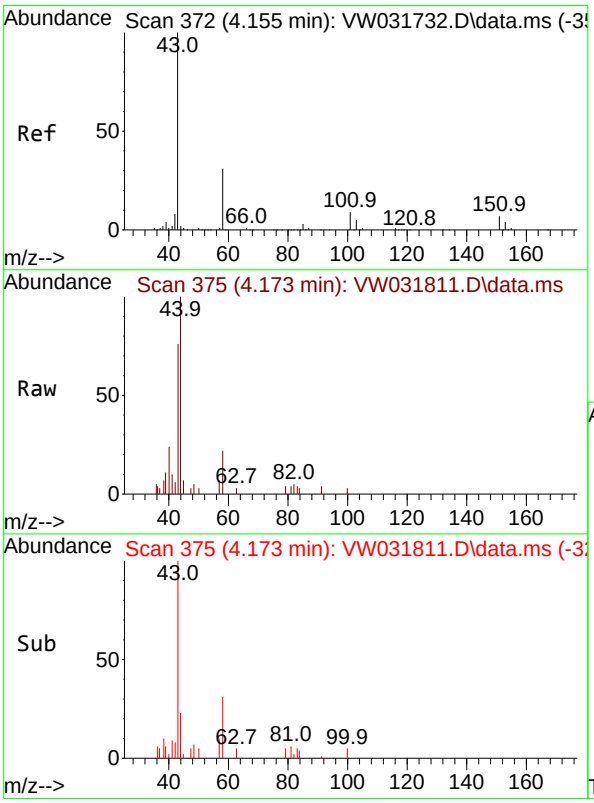
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Tgt Ion:168 Resp: 167231

Ion	Ratio	Lower	Upper
168	100		
99	66.5	49.4	74.2

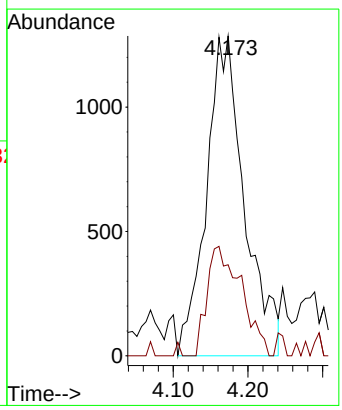


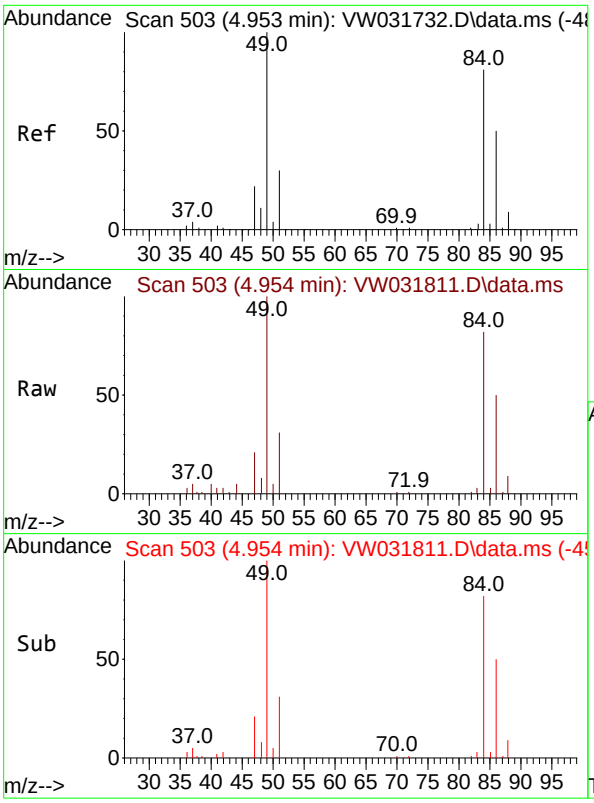


#16
Acetone
Concen: 7.674 ug/l
RT: 4.173 min Scan# 375
Delta R.T. 0.019 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Tgt Ion: 43 Resp: 4552

Ion	Ratio	Lower	Upper
43	100		
58	24.3	24.8	37.2#



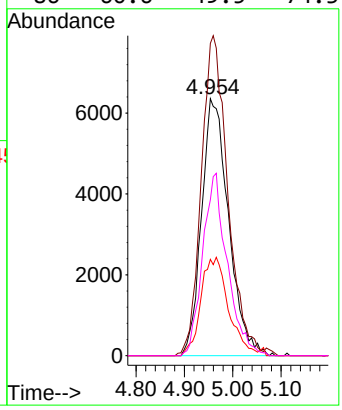


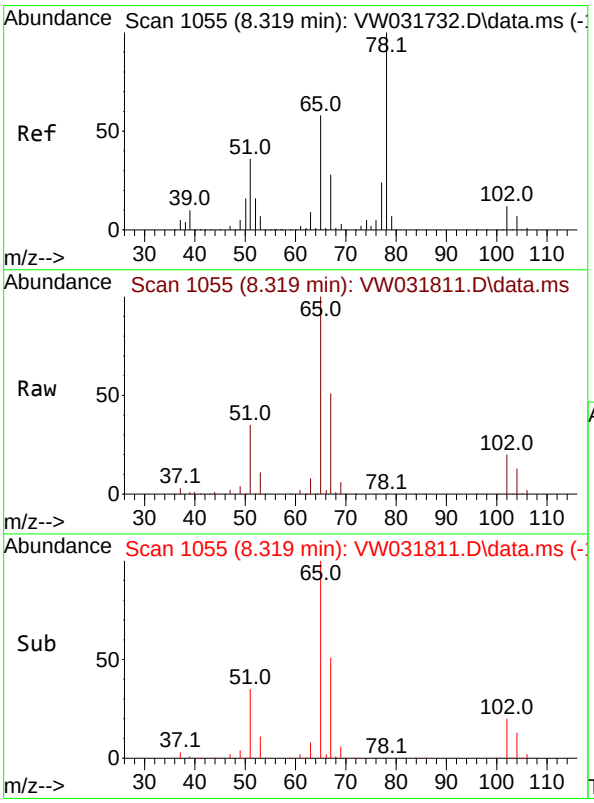
#20
Methylene Chloride
Concen: 6.507 ug/l
RT: 4.954 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Tgt Ion: 84 Resp: 24692

Ion	Ratio	Lower	Upper
84	100		
49	121.5	98.2	147.4
51	37.5	29.8	44.8
86	60.6	49.5	74.3

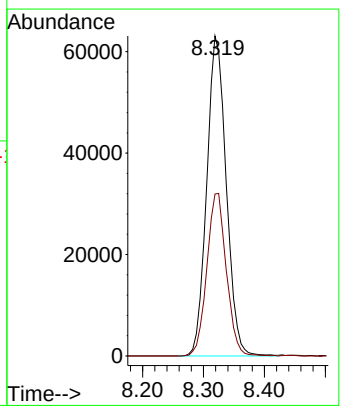


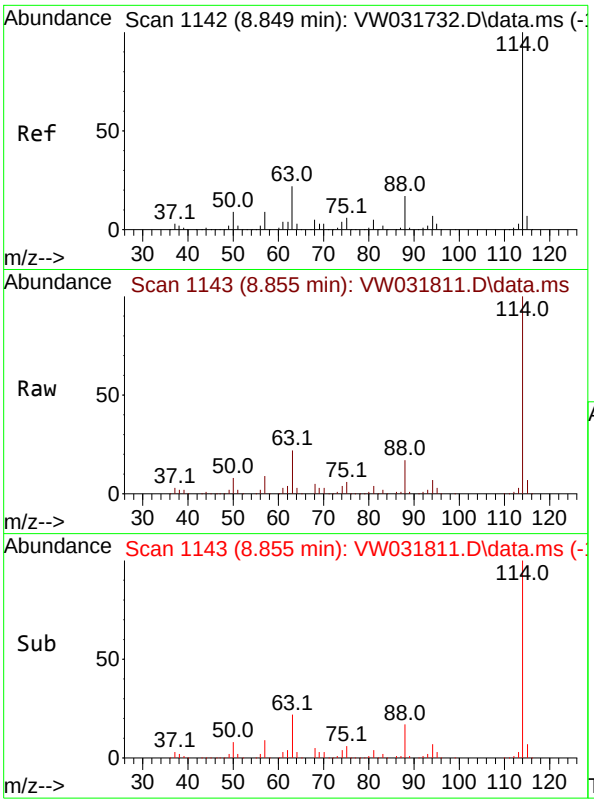


#33
1,2-Dichloroethane-d4
Concen: 58.473 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Tgt Ion: 65 Resp: 140332

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	99.4



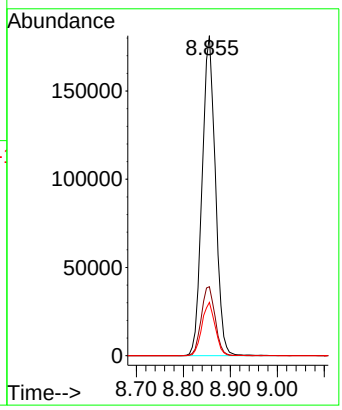


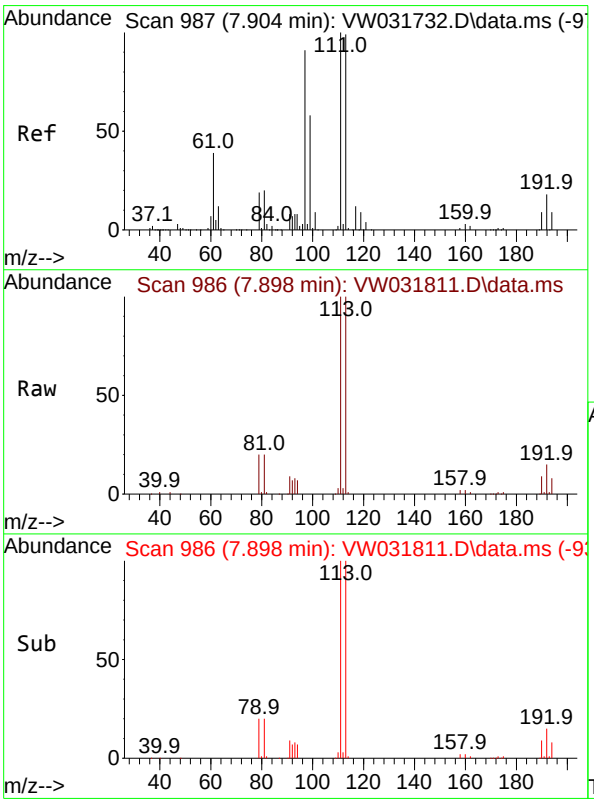
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Tgt Ion:114 Resp: 355443

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.6
88	16.6	0.0	34.2

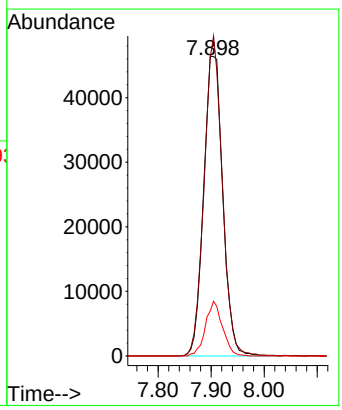


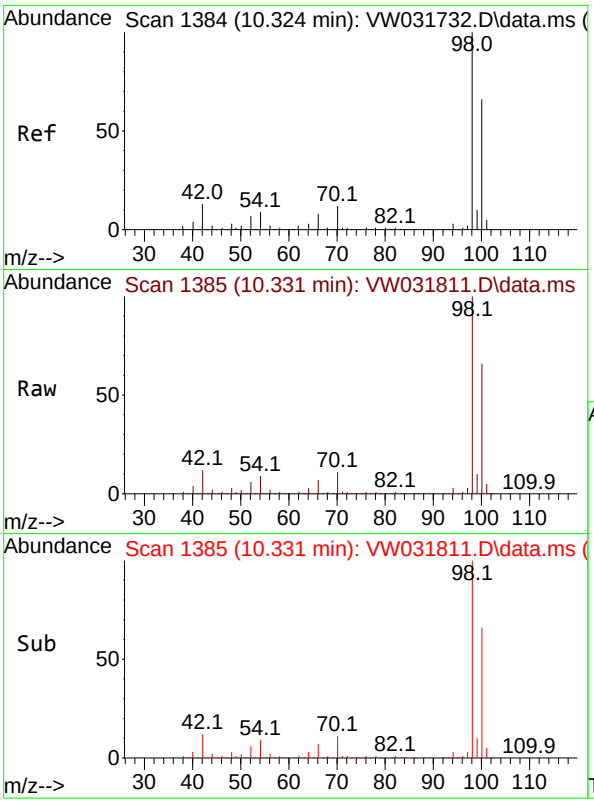


#35
Dibromofluoromethane
Concen: 50.407 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Tgt Ion:113 Resp: 116915

Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.1	123.1
192	16.1	13.8	20.6



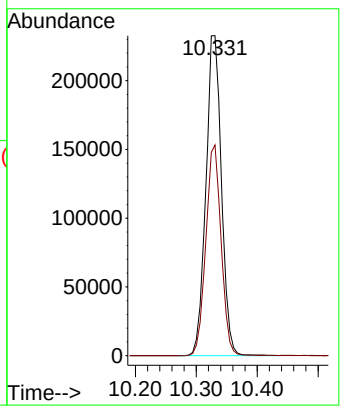


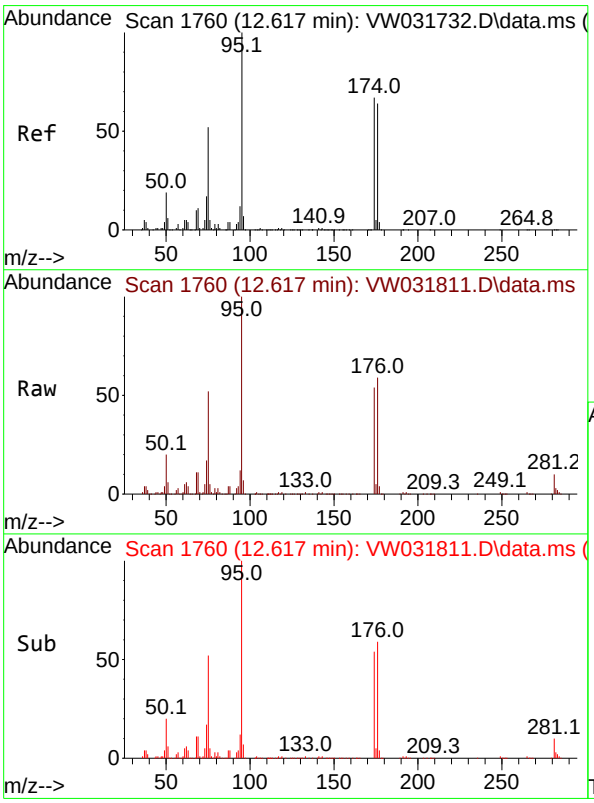
#50
Toluene-d8
Concen: 47.860 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Tgt Ion: 98 Resp: 413106

Ion	Ratio	Lower	Upper
98	100		
100	64.7	53.0	79.4

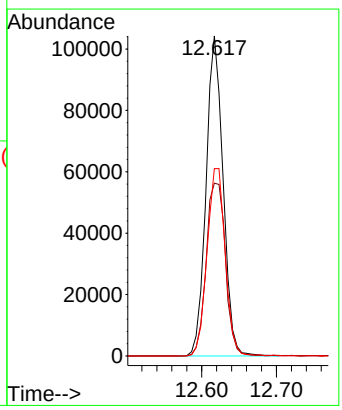


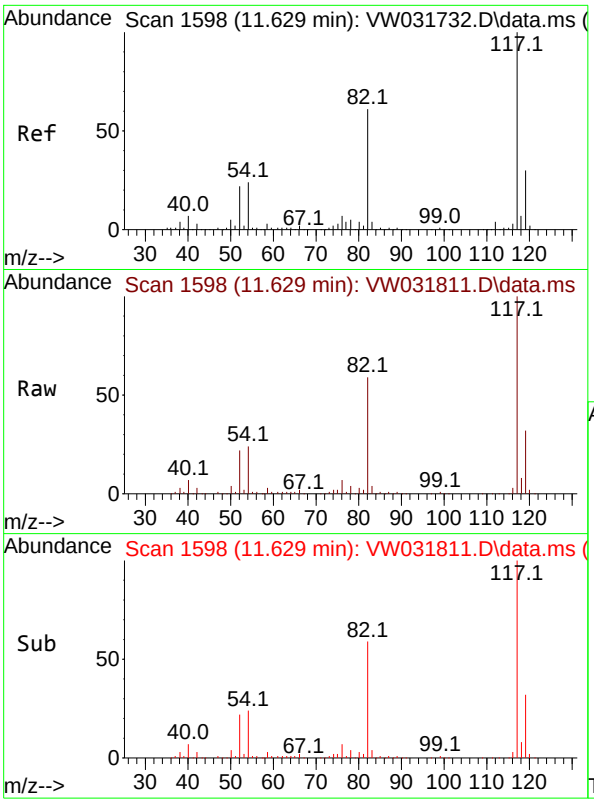


#62
4-Bromofluorobenzene
Concen: 51.981 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Tgt Ion: 95 Resp: 165113

Ion	Ratio	Lower	Upper
95	100		
174	61.1	0.0	133.8
176	62.6	0.0	126.0



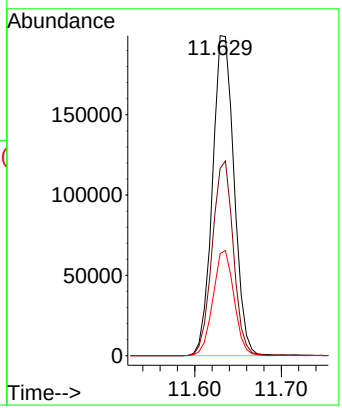


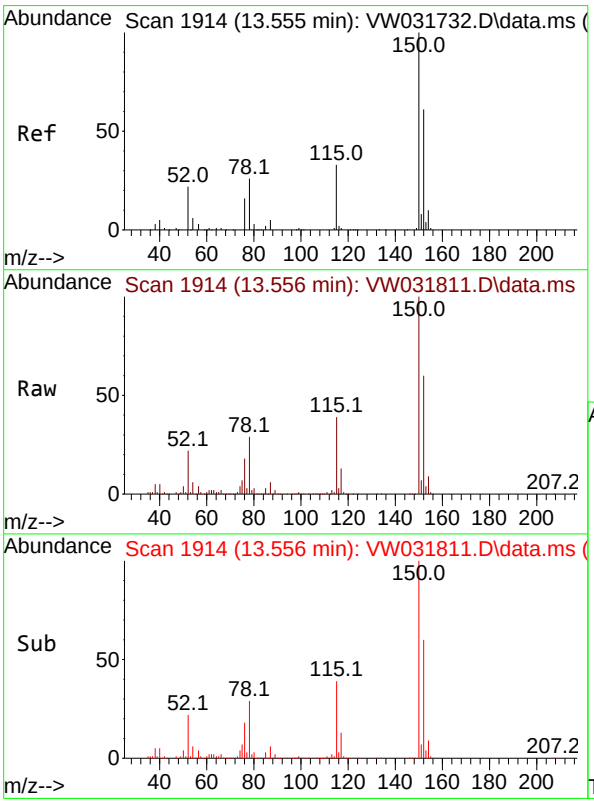
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Tgt Ion:117 Resp: 345205

Ion	Ratio	Lower	Upper
117	100		
82	58.5	48.6	72.8
119	31.9	23.9	35.9

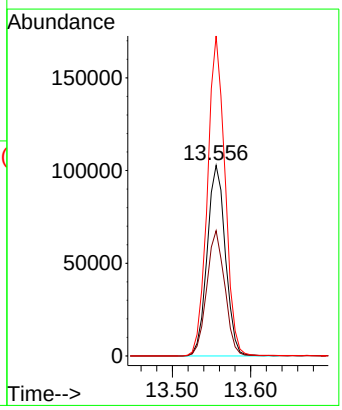




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW031811.D
Acq: 10 Jul 2025 18:10

Tgt Ion:152 Resp: 165908

Ion	Ratio	Lower	Upper
152	100		
115	65.1	31.9	95.7
150	162.0	0.0	356.4



Sample Results: **VW031811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

Signal : TIC: VW031811.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	369	373	386	rVB3	3991	13063	1.18%	0.199%
2	4.960	493	504	529	rVB2	26628	108296	9.77%	1.654%
3	5.972	659	670	681	rBV3	19384	58262	5.26%	0.890%
4	7.904	973	987	991	rBV	157193	370897	33.46%	5.663%
5	7.959	991	996	1009	rVB2	240924	563048	50.79%	8.597%
6	8.319	1045	1055	1067	rBV	167522	376974	34.01%	5.756%
7	8.855	1133	1143	1153	rBV	431236	868376	78.33%	13.259%
8	10.331	1377	1385	1403	rBV	614944	1104395	99.62%	16.862%
9	11.635	1589	1599	1608	rBV	638182	1108568	100.00%	16.926%
10	12.617	1750	1760	1771	rBV2	486490	863816	77.92%	13.189%
11	13.556	1907	1914	1924	rBV	679726	1082952	97.69%	16.535%
12	13.647	1924	1929	1937	rVB3	8152	15595	1.41%	0.238%
13	14.062	1991	1997	2001	rBV	8151	15229	1.37%	0.233%

Sum of corrected areas: 6549471

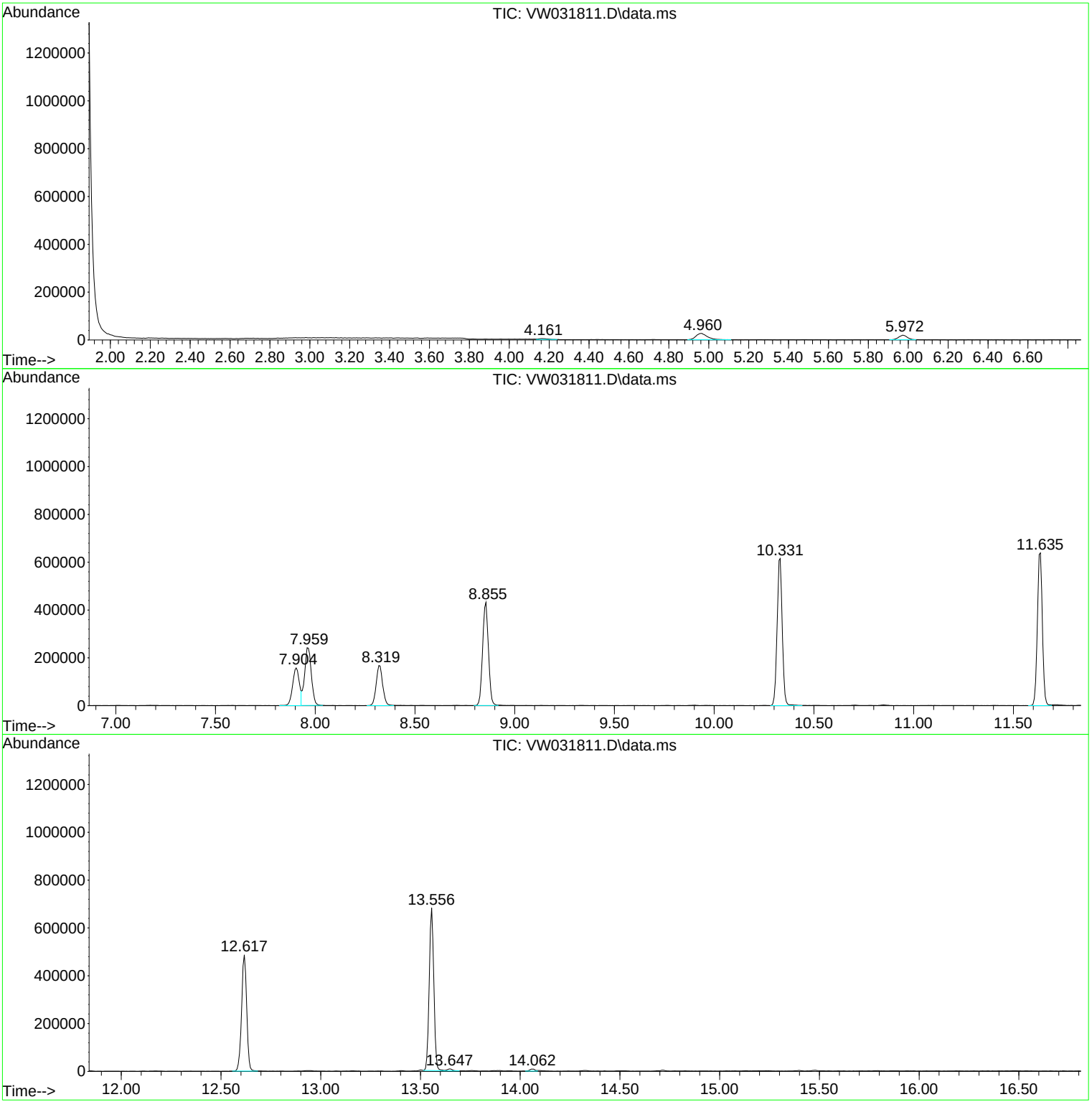
Sample Results: **VW031811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

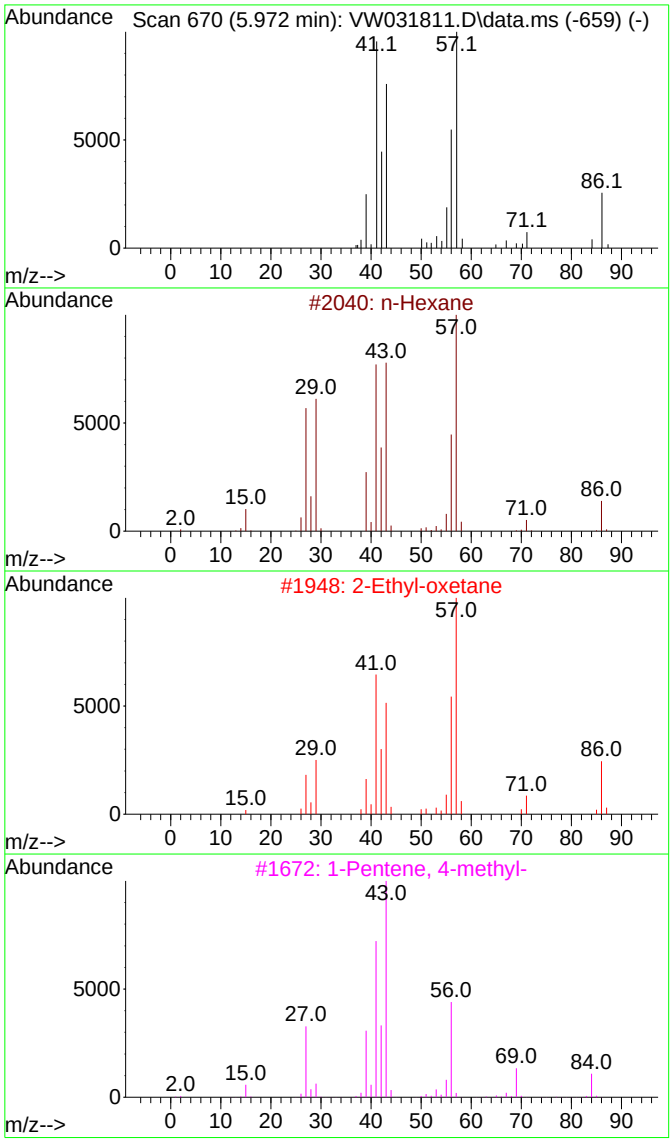
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

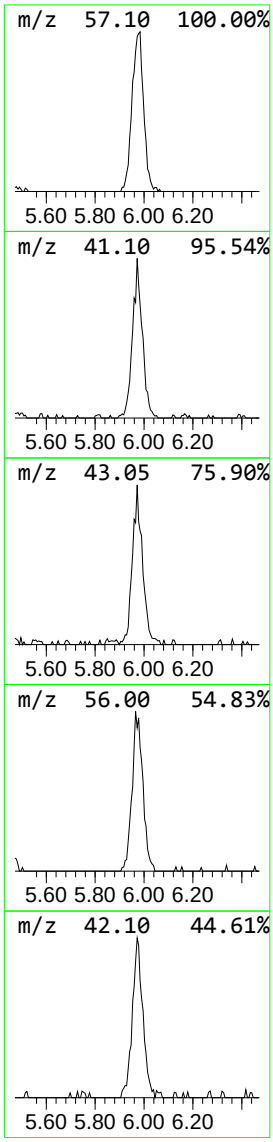
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 n-Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.972	5.17 ug/l	58262	Pentafluorobenzene	7.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	72
2	2-Ethyl-oxetane	86	C5H10O	1010386-40-2	56
3	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	38
4	1-Hexene	84	C6H12	000592-41-6	37
5	Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	32





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031811.D
Acq On : 10 Jul 2025 18:10
Operator : SY/MD
Sample : Q2543-03
Misc : 6.54g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexane	5.972	5.2	ug/l	58262	1	7.965	563048	50.0

Raw Data: **VW031812.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.60	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	0.88	U	0.88	5.60	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.60	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.60	ug/Kg
67-64-1	Acetone	7.50	J	5.30	27.8	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.81	U	0.81	5.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.60	ug/Kg
75-09-2	Methylene Chloride	3.90	U	3.90	11.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.96	U	0.96	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.89	U	0.89	5.60	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	5.60	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	27.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.83	5.60	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.60	ug/Kg
67-66-3	Chloroform	0.93	U	0.93	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.60	ug/Kg
71-43-2	Benzene	0.88	U	0.88	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.88	U	0.88	5.60	ug/Kg
79-01-6	Trichloroethene	0.90	U	0.90	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.60	ug/Kg
75-27-4	Bromodichloromethane	0.87	U	0.87	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	27.8	ug/Kg
108-88-3	Toluene	0.87	U	0.87	5.60	ug/Kg

Raw Data: **VW031812.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.69	U	0.69	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	27.8	ug/Kg
124-48-1	Dibromochloromethane	0.97	U	0.97	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.98	U	0.98	5.60	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.60	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	5.60	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.1	ug/Kg
95-47-6	o-Xylene	0.91	U	0.91	5.60	ug/Kg
100-42-5	Styrene	0.79	U	0.79	5.60	ug/Kg
75-25-2	Bromoform	0.96	U	0.96	5.60	ug/Kg
98-82-8	Isopropylbenzene	0.87	U	0.87	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	3.30	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	3.50	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	45.4		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.965			
540-36-3	1,4-Difluorobenzene	375000	8.849			
3114-55-4	Chlorobenzene-d5	354000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	168000	13.556			

Raw Data: **VW031812.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.4
Sample Wt/Vol:	5.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031812.D	1	07/10/25 18:32	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Quant Time: Jul 11 02:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

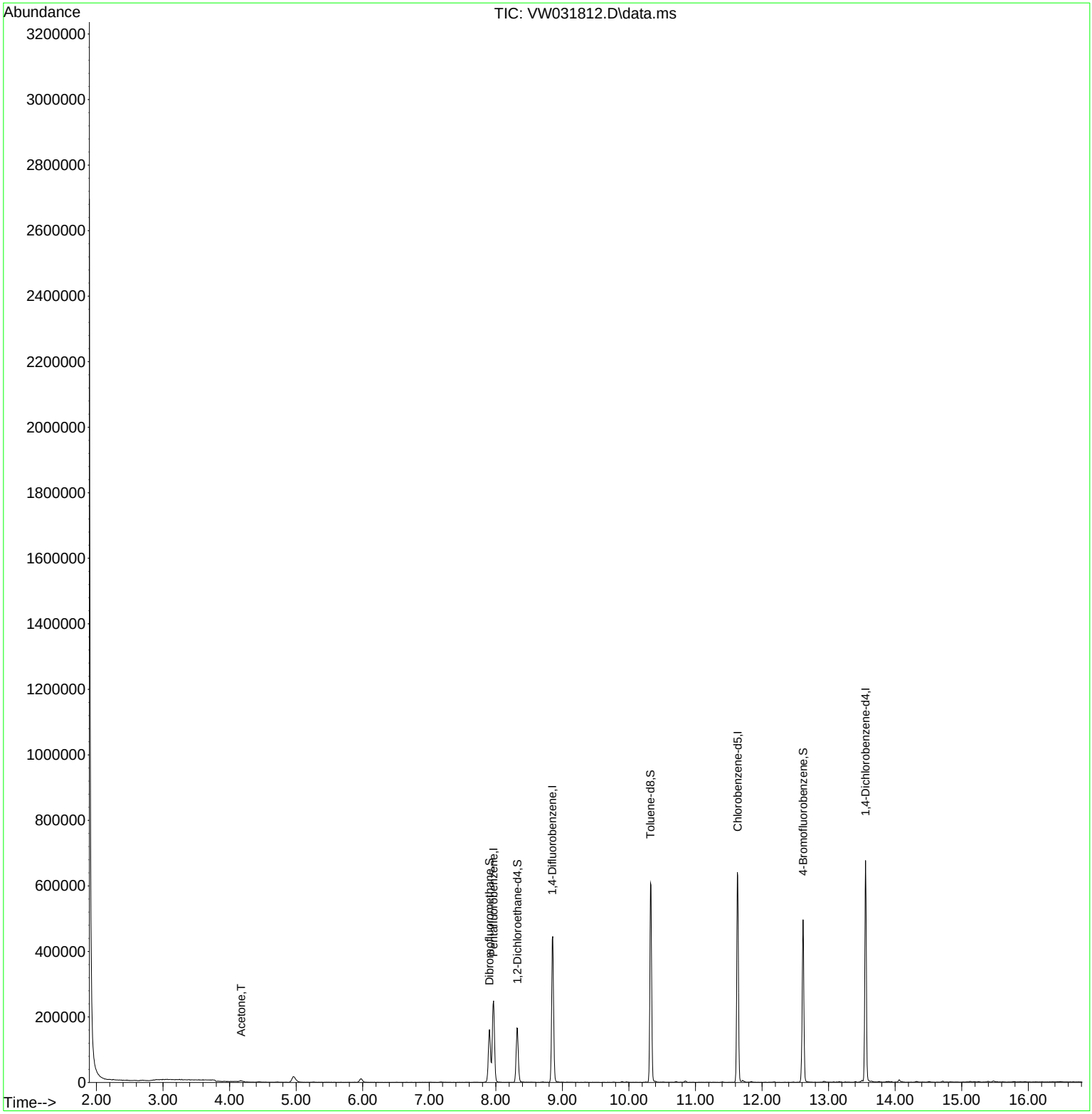
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	171007	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.849	114	374934	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	354079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	167590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	136923	55.793	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 111.580%			
35) Dibromofluoromethane	7.904	113	115271	47.115	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.220%			
50) Toluene-d8	10.325	98	413022	45.363	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 90.720%			
62) 4-Bromofluorobenzene	12.617	95	165451	49.380	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.760%			
Target Compounds						Qvalue
16) Acetone	4.173	43	4103	6.764	ug/l	95

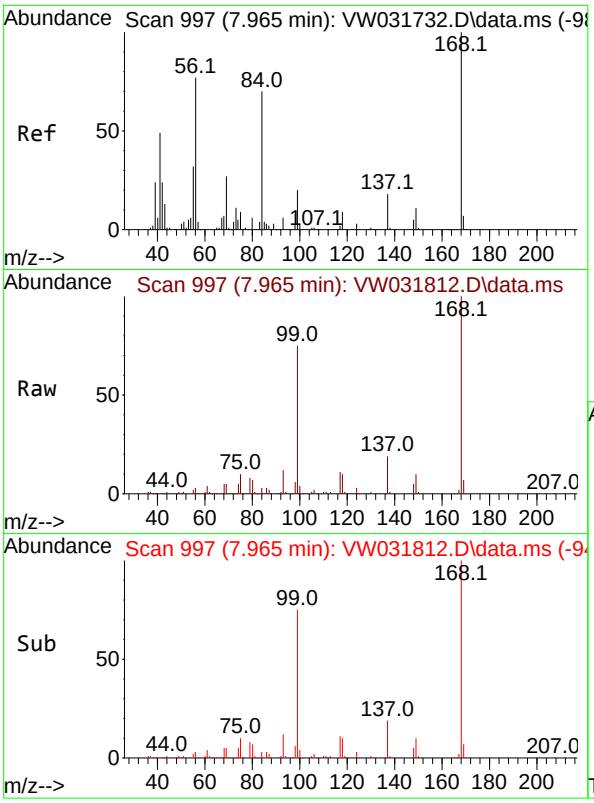
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Quant Time: Jul 11 02:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



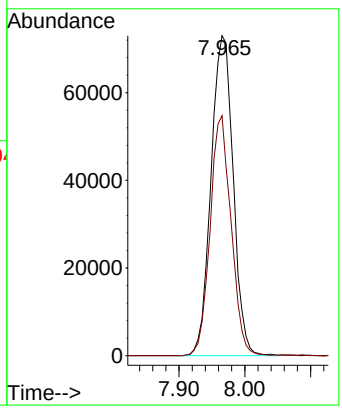


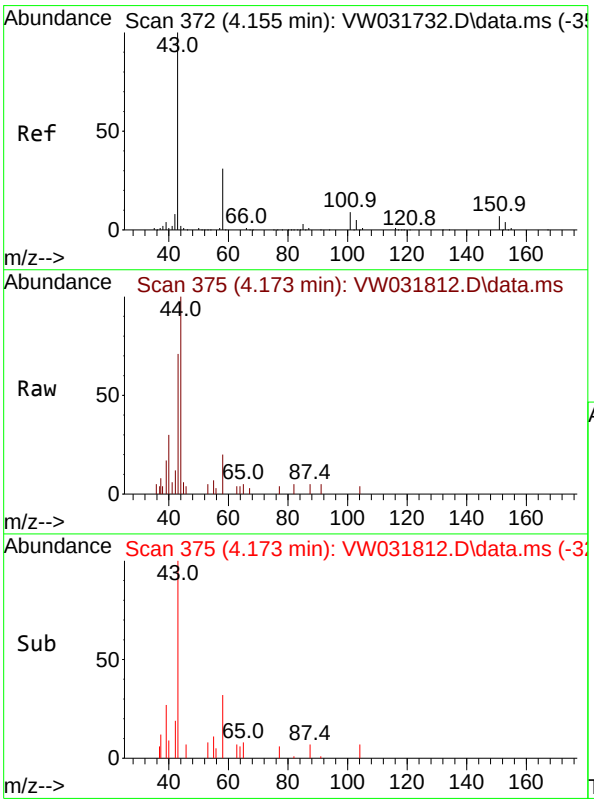
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Tgt Ion:168 Resp: 171007

Ion	Ratio	Lower	Upper
168	100		
99	75.0	49.4	74.2#

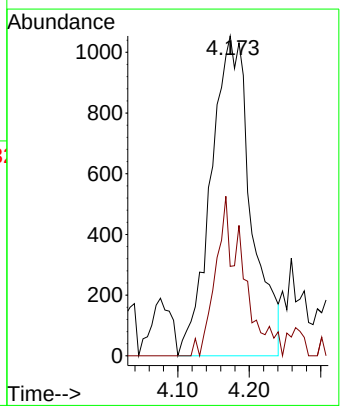


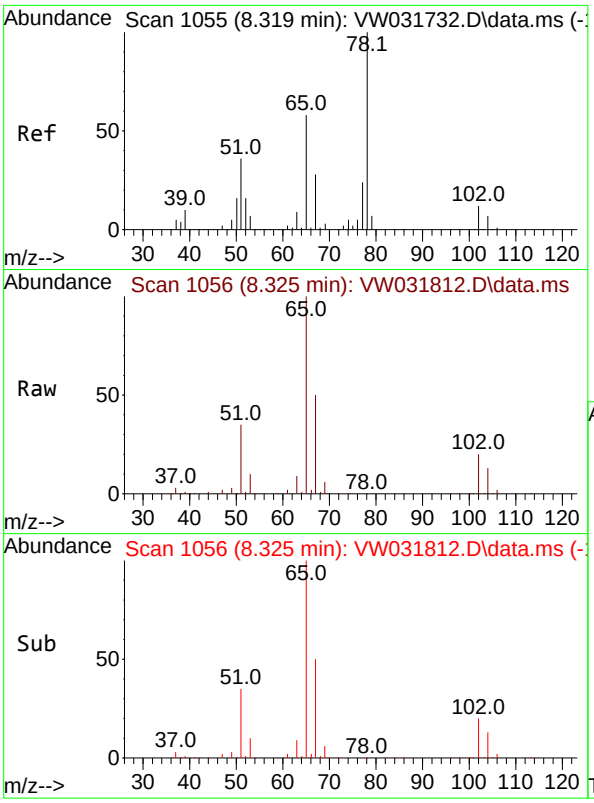


#16
Acetone
Concen: 6.764 ug/l
RT: 4.173 min Scan# 375
Delta R.T. 0.019 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Tgt Ion: 43 Resp: 4103

Ion	Ratio	Lower	Upper
43	100		
58	28.0	24.8	37.2



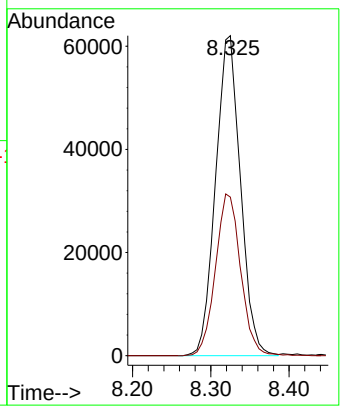


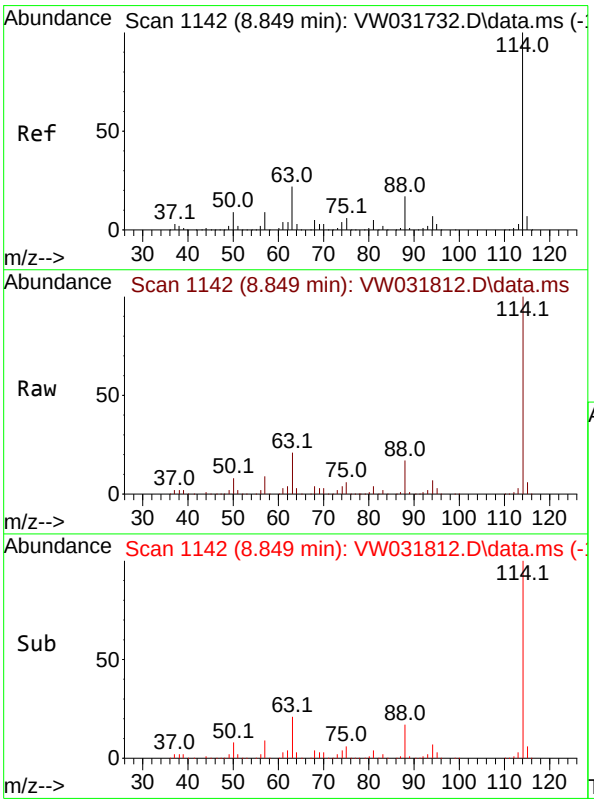
#33
1,2-Dichloroethane-d4
Concen: 55.793 ug/l
RT: 8.325 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Tgt Ion: 65 Resp: 136923

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	99.4

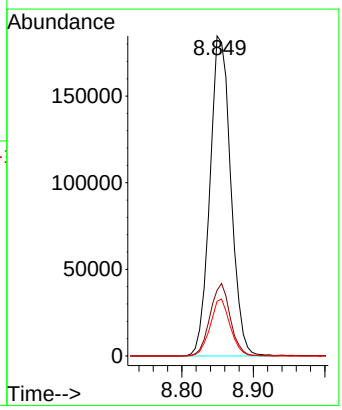


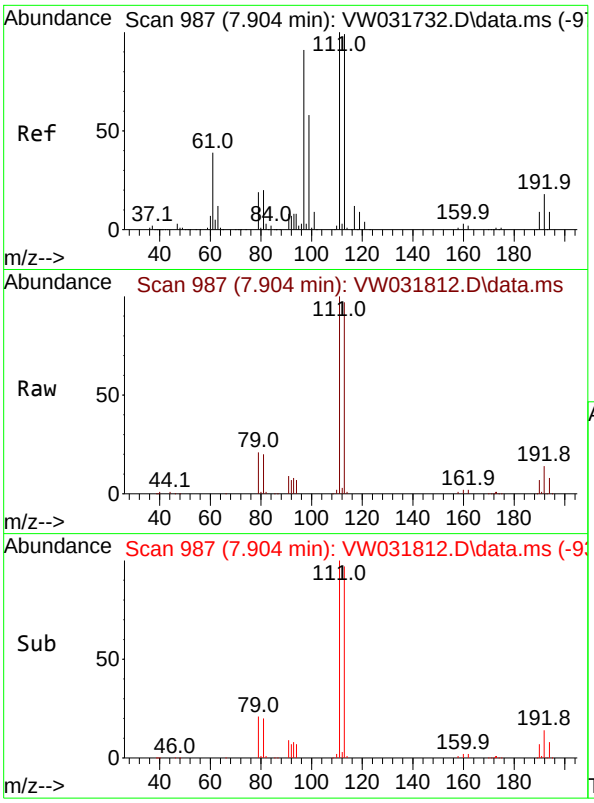


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Tgt Ion:114 Resp: 374934

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	43.6
88	17.1	0.0	34.2



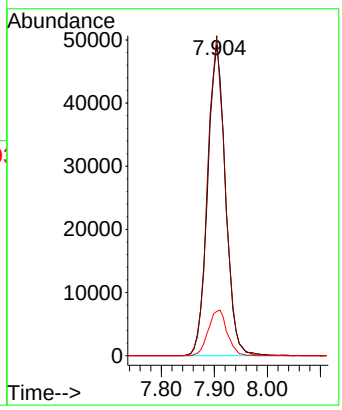


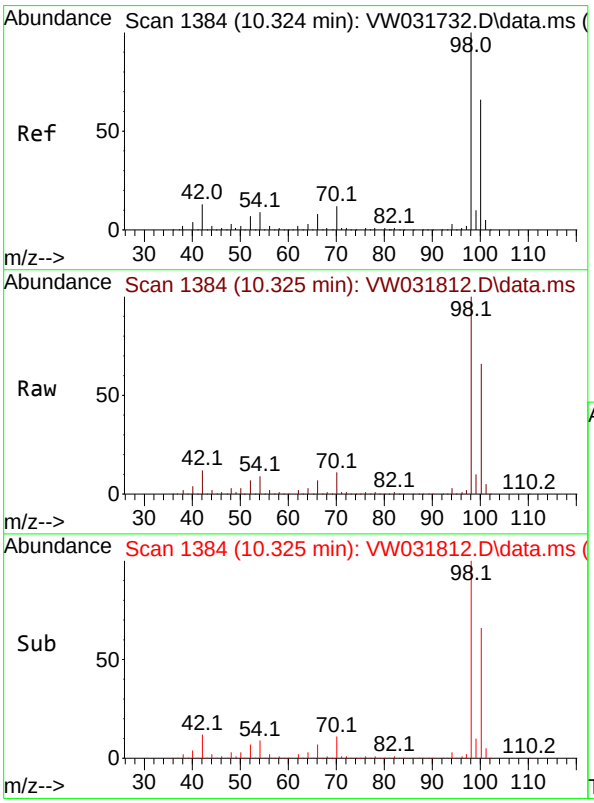
#35
Dibromofluoromethane
Concen: 47.115 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Tgt Ion:113 Resp: 115271

Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.1	123.1
192	15.4	13.8	20.6

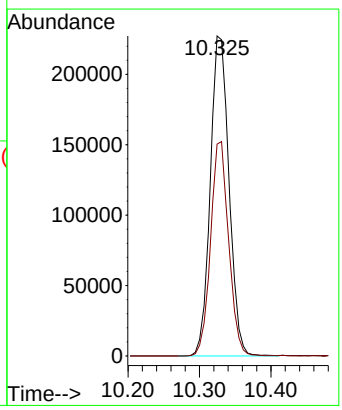


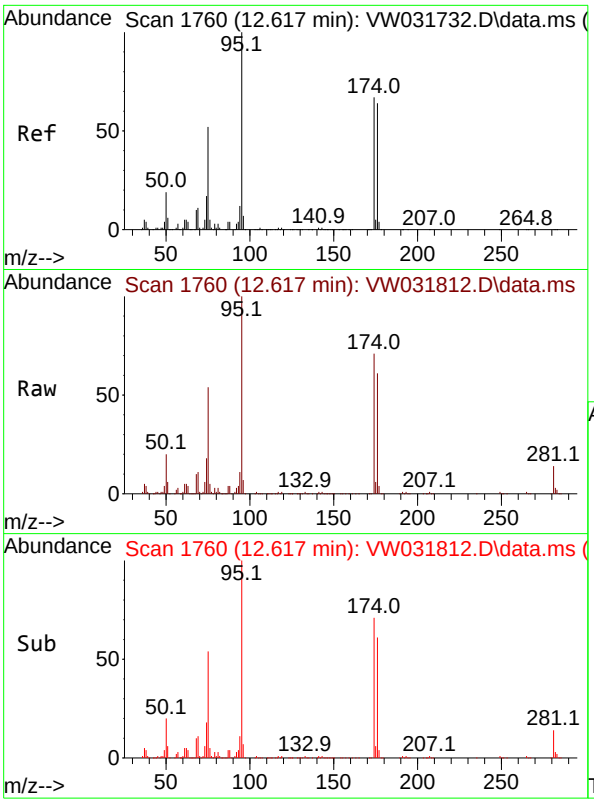


#50
Toluene-d8
Concen: 45.363 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Tgt Ion: 98 Resp: 413022

Ion	Ratio	Lower	Upper
98	100		
100	64.7	53.0	79.4



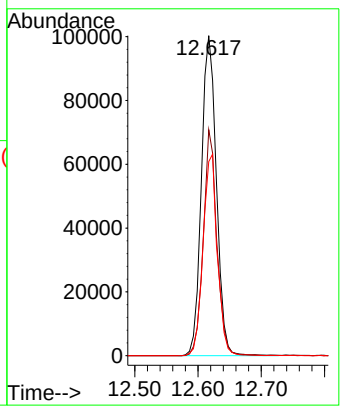


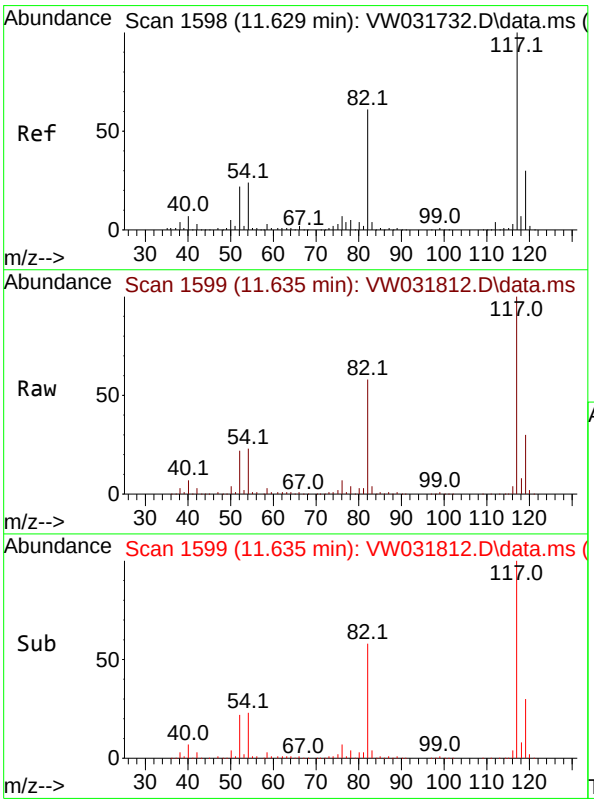
#62
4-Bromofluorobenzene
Concen: 49.380 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Tgt Ion: 95 Resp: 165451

Ion	Ratio	Lower	Upper
95	100		
174	63.9	0.0	133.8
176	60.2	0.0	126.0

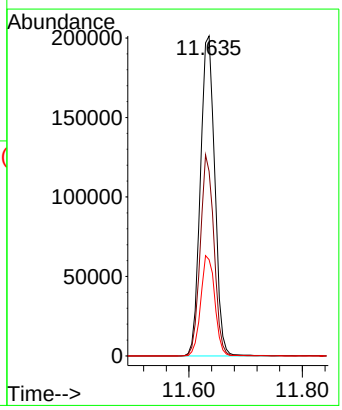


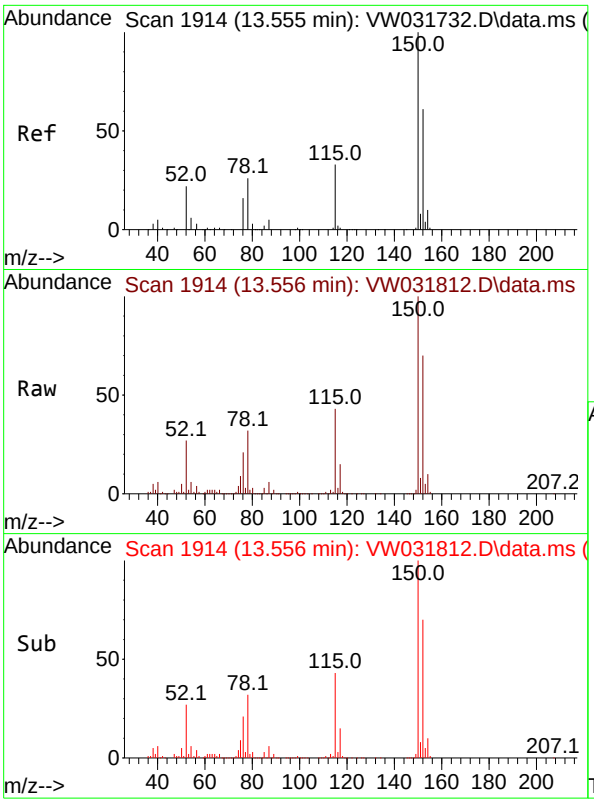


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Tgt Ion:117 Resp: 354079

Ion	Ratio	Lower	Upper
117	100		
82	57.7	48.6	72.8
119	30.1	23.9	35.9



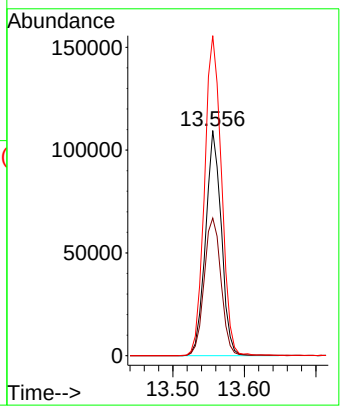


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031812.D
Acq: 10 Jul 2025 18:32

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Tgt Ion:152 Resp: 167590

Ion	Ratio	Lower	Upper
152	100		
115	65.2	31.9	95.7
150	152.8	0.0	356.4



Sample Results: **VW031812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

Signal : TIC: VW031812.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	491	504	522	rBV4	17520	75282	6.70%	1.158%
2	5.972	659	670	679	rBV3	10996	34018	3.03%	0.523%
3	7.904	970	987	992	rBV2	160767	388019	34.53%	5.970%
4	7.965	992	997	1009	rVB2	248318	554450	49.34%	8.531%
5	8.319	1045	1055	1068	rBV	165895	372902	33.18%	5.737%
6	8.855	1133	1143	1155	rBV	444787	904569	80.49%	13.917%
7	10.325	1377	1384	1394	rBV	608123	1099542	97.84%	16.917%
8	11.629	1588	1598	1607	rBV	640897	1123790	100.00%	17.290%
9	12.617	1748	1760	1777	rBV2	495971	868185	77.26%	13.358%
10	13.556	1907	1914	1926	rVB	674475	1078846	96.00%	16.599%

Sum of corrected areas: 6499603

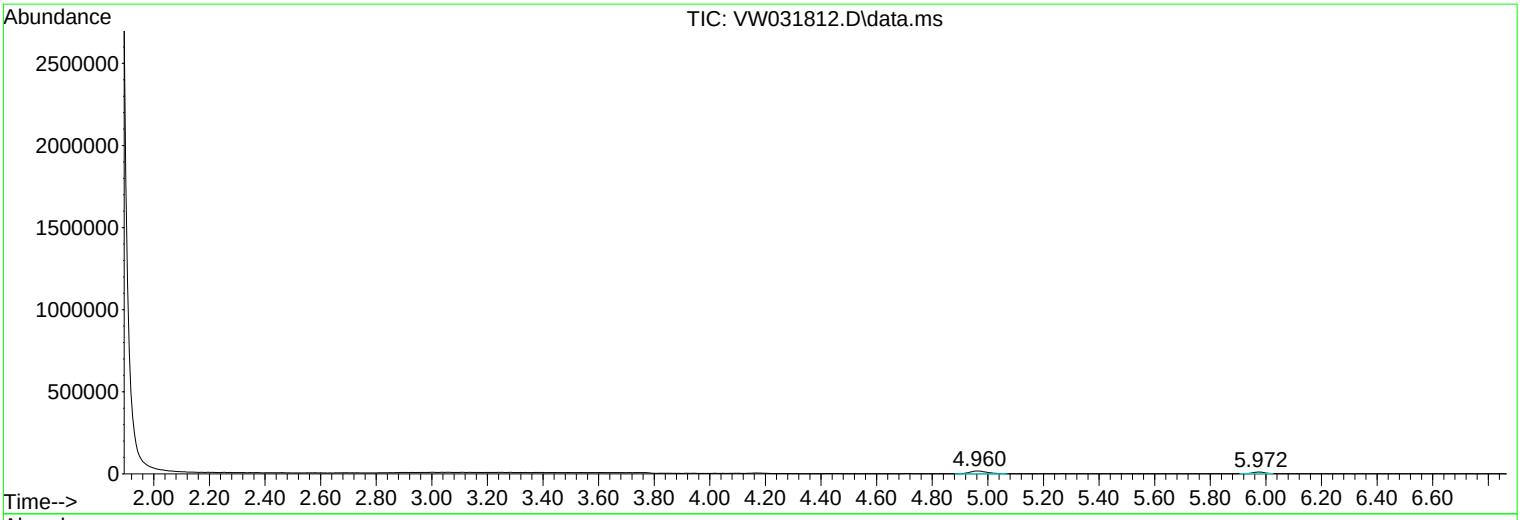
Sample Results: **VW031812.D**

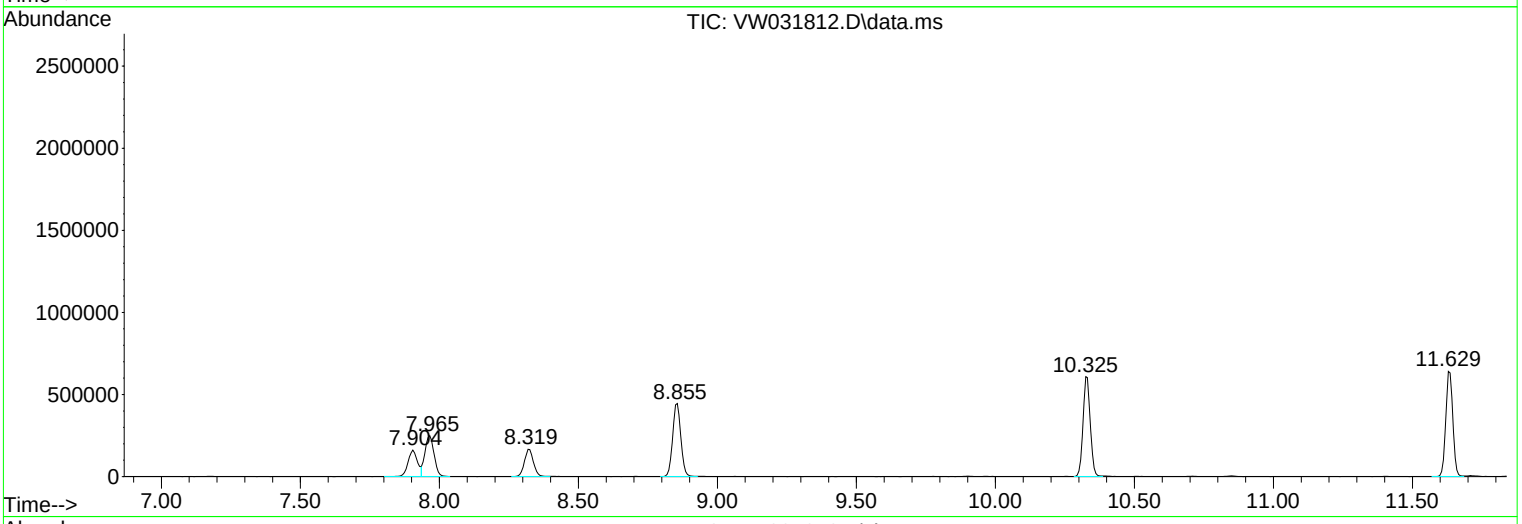
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

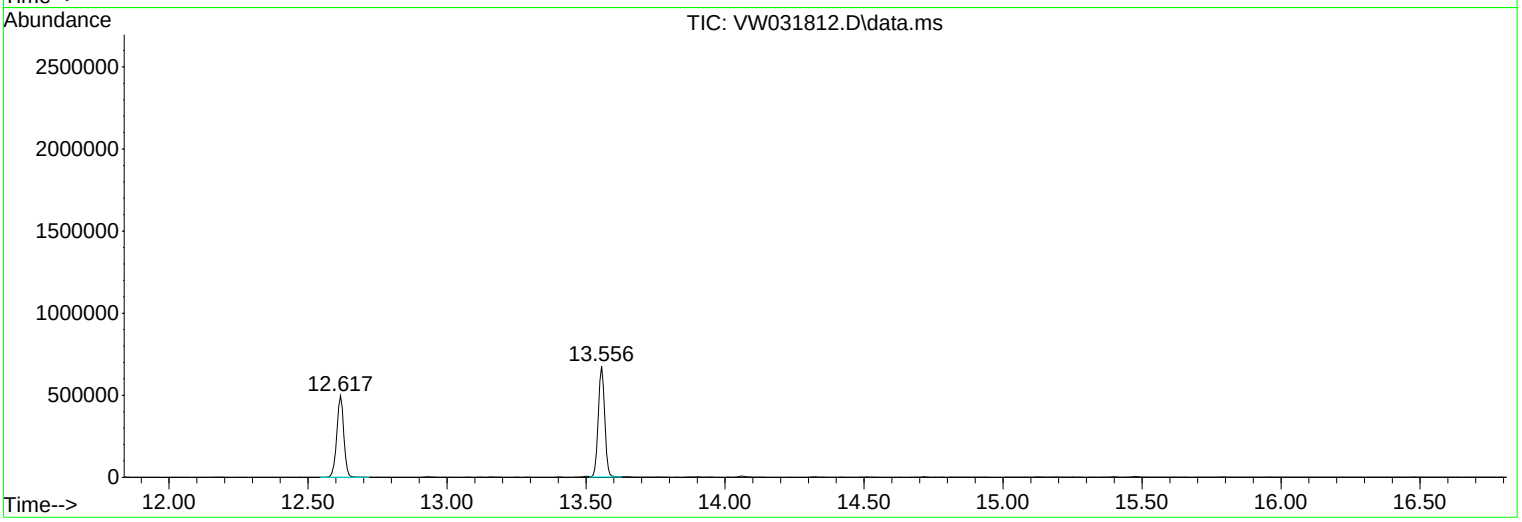
Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VW031812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Sample Results: **VW031812.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031812.D
Acq On : 10 Jul 2025 18:32
Operator : SY/MD
Sample : Q2543-04
Misc : 5.27g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-23-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: MSVOA_W Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.330	0.371	0.352	0.310	0.329	0.351	0.341	6.3
Chloromethane	0.409	0.410	0.428	0.375	0.405	0.436	0.411	5.1
Vinyl Chloride	0.523	0.534	0.576	0.514	0.545	0.546	0.540	4
Bromomethane	0.429	0.431	0.443	0.396	0.412	0.418	0.421	3.9
Chloroethane	0.370	0.372	0.379	0.347	0.360	0.372	0.367	3.1
Trichlorofluoromethane	0.509	0.508	0.442	0.469	0.466	0.546	0.490	7.7
1,1,2-Trichlorotrifluoroethane	0.577	0.563	0.569	0.508	0.517	0.530	0.544	5.4
1,1-Dichloroethene	0.602	0.625	0.622	0.556	0.581	0.588	0.596	4.4
Acetone	0.238	0.191	0.171	0.163	0.157	0.144	0.177	18.8
Carbon Disulfide	1.571	1.588	1.647	1.536	1.590	1.633	1.594	2.5
Methyl tert-butyl Ether	1.007	1.018	1.038	1.033	0.982	0.988	1.011	2.3
Methyl Acetate	0.540	0.523	0.498	0.528	0.467	0.485	0.507	5.6
Methylene Chloride	1.029	0.980	0.905	0.692	0.655	0.626	0.814	21.7
trans-1,2-Dichloroethene	0.635	0.623	0.667	0.613	0.631	0.629	0.633	2.9
1,1-Dichloroethane	1.154	1.163	1.219	1.116	1.131	1.153	1.156	3.1
Cyclohexane	1.175	1.065	1.033	0.937	0.940	0.981	1.022	8.9
2-Butanone	0.224	0.224	0.221	0.249	0.231	0.237	0.231	4.6
Carbon Tetrachloride	0.477	0.498	0.498	0.461	0.468	0.485	0.481	3.2
cis-1,2-Dichloroethene	0.711	0.709	0.754	0.716	0.736	0.740	0.728	2.5
Bromochloromethane	0.531	0.501	0.535	0.504	0.500	0.489	0.510	3.7
Chloroform	1.230	1.239	1.299	1.204	1.189	1.208	1.228	3.2
1,1,1-Trichloroethane	0.933	0.983	0.971	0.925	0.907	0.959	0.946	3.1
Methylcyclohexane	0.573	0.571	0.604	0.566	0.592	0.619	0.587	3.6
Benzene	1.410	1.394	1.483	1.375	1.349	1.371	1.397	3.4
1,2-Dichloroethane	0.490	0.490	0.493	0.464	0.449	0.445	0.472	4.7
Trichloroethene	0.344	0.346	0.367	0.344	0.337	0.354	0.349	3.1
1,2-Dichloropropane	0.348	0.344	0.353	0.331	0.324	0.325	0.338	3.7
Bromodichloromethane	0.509	0.512	0.524	0.511	0.502	0.510	0.511	1.4
4-Methyl-2-Pentanone	0.285	0.301	0.295	0.313	0.289	0.287	0.295	3.5
Toluene	0.882	0.898	0.938	0.876	0.874	0.899	0.894	2.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2543

Instrument ID: MSVOA_W Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.432	0.460	0.491	0.496	0.497	0.500	0.480	5.7
cis-1,3-Dichloropropene	0.514	0.521	0.571	0.549	0.547	0.560	0.544	4.1
1,1,2-Trichloroethane	0.299	0.282	0.299	0.285	0.275	0.273	0.286	4
2-Hexanone	0.185	0.201	0.195	0.219	0.201	0.199	0.200	5.6
Dibromochloromethane	0.329	0.332	0.353	0.352	0.336	0.345	0.341	3
1,2-Dibromoethane	0.288	0.285	0.296	0.290	0.274	0.281	0.286	2.7
Tetrachloroethene	0.331	0.321	0.324	0.314	0.329	0.344	0.327	3.2
Chlorobenzene	1.128	1.116	1.116	1.062	1.078	1.120	1.103	2.4
Ethyl Benzene	1.860	1.899	1.911	1.885	1.934	1.989	1.913	2.3
m/p-Xylenes	0.690	0.730	0.751	0.727	0.750	0.764	0.735	3.6
o-Xylene	0.636	0.654	0.685	0.682	0.705	0.723	0.681	4.7
Styrene	1.066	1.154	1.195	1.209	1.206	1.232	1.177	5.1
Bromoform	0.197	0.202	0.203	0.219	0.215	0.223	0.210	5.1
Isopropylbenzene	3.643	3.549	3.683	3.732	4.080	4.132	3.803	6.4
1,1,2,2-Tetrachloroethane	0.891	0.839	0.812	0.843	0.829	0.852	0.844	3.2
1,3-Dichlorobenzene	1.771	1.705	1.683	1.644	1.681	1.723	1.701	2.5
1,4-Dichlorobenzene	1.815	1.750	1.700	1.702	1.735	1.745	1.741	2.4
1,2-Dichlorobenzene	1.599	1.518	1.511	1.575	1.563	1.563	1.555	2.2
1,2-Dibromo-3-Chloropropane	0.169	0.159	0.153	0.166	0.167	0.174	0.165	4.6
1,2,4-Trichlorobenzene	0.965	0.899	0.929	0.933	1.000	1.028	0.959	5
1,2,3-Trichlorobenzene	0.863	0.865	0.827	0.862	0.944	0.926	0.881	5
1,2-Dichloroethane-d4	0.731	0.732	0.739	0.715	0.702	0.687	0.718	2.8
Dibromofluoromethane	0.322	0.324	0.348	0.324	0.327	0.312	0.326	3.6
Toluene-d8	1.121	1.245	1.290	1.208	1.229	1.193	1.214	4.7
4-Bromofluorobenzene	0.436	0.452	0.463	0.447	0.450	0.434	0.447	2.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W063025S.M
Title : SW846 8260
Last Update : Tue Jul 01 03:35:17 2025
Response Via : Initial Calibration

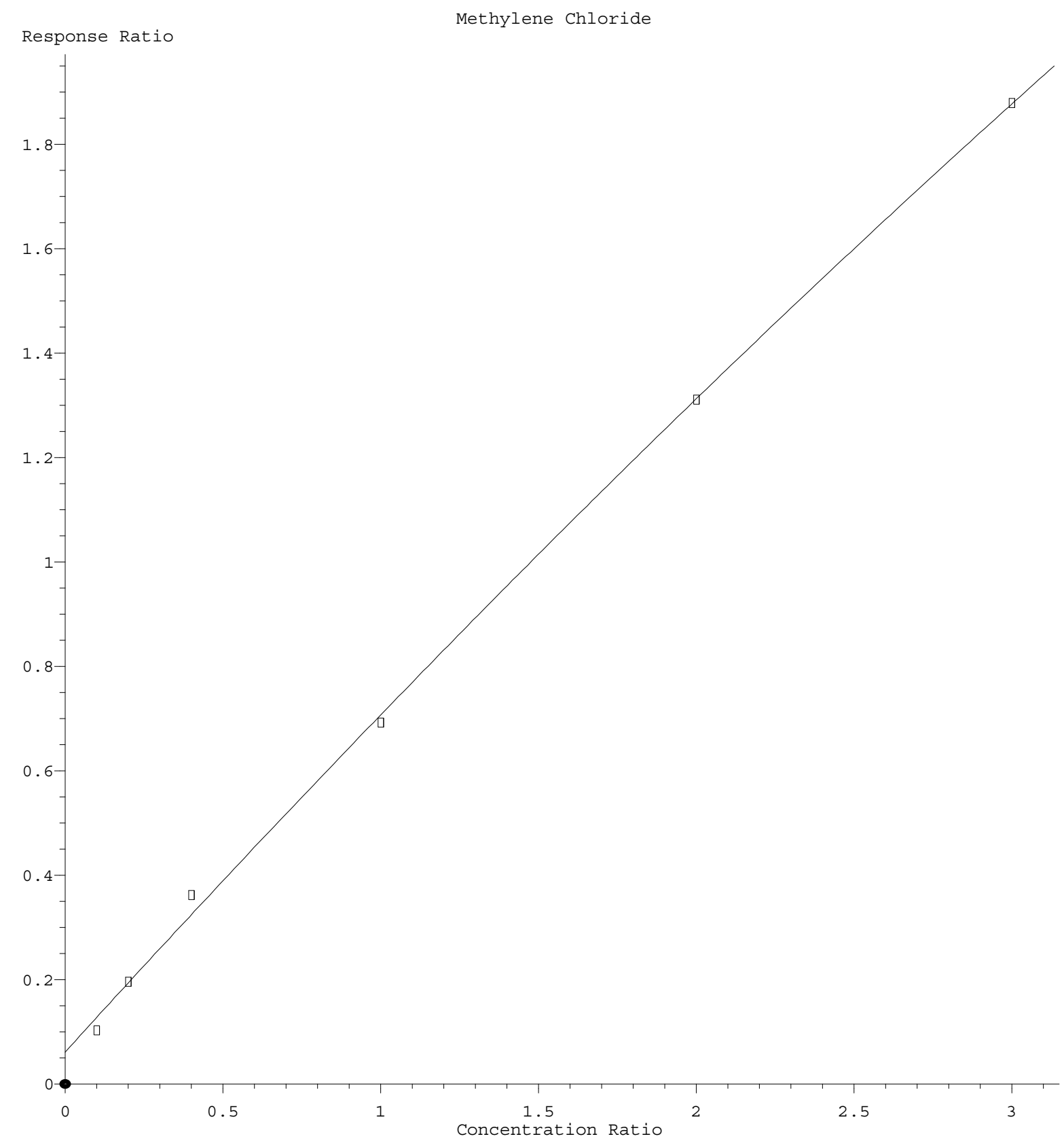
Calibration Files
5 =VW031729.D 10 =VW031730.D 20 =VW031731.D 50 =VW031732.D 100 =VW031733.D 150 =VW031734.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.330	0.371	0.352	0.310	0.329	0.351	0.341	6.35
3)	P	Chloromethane	0.409	0.410	0.428	0.375	0.405	0.436	0.411	5.13
4)	C	Vinyl Chloride	0.523	0.534	0.576	0.514	0.545	0.546	0.540	4.02#
5)	T	Bromomethane	0.429	0.431	0.443	0.396	0.412	0.418	0.421	3.94
6)	T	Chloroethane	0.370	0.372	0.379	0.347	0.360	0.372	0.367	3.11
7)	T	Trichlorofluor...	0.509	0.508	0.442	0.469	0.466	0.546	0.490	7.71
8)	T	Diethyl Ether	0.399	0.413	0.383	0.356	0.343	0.340	0.372	8.22
9)	T	1,1,2-Trichlor...	0.577	0.563	0.569	0.508	0.517	0.530	0.544	5.39
10)	T	Methyl Iodide	0.854	0.846	0.880	0.816	0.814	0.821	0.839	3.11
11)	T	Tert butyl alc...	0.043	0.046	0.042	0.047	0.043	0.045	0.044	4.04
12)	CM	1,1-Dichloroet...	0.602	0.625	0.622	0.556	0.581	0.588	0.596	4.43#
13)	T	Acrolein	0.072	0.086	0.082	0.083	0.078	0.078	0.080	6.20
14)	T	Allyl chloride	0.883	0.905	0.938	0.896	0.919	0.945	0.914	2.65
15)	T	Acrylonitrile	0.177	0.186	0.182	0.191	0.181	0.181	0.183	2.68
16)	T	Acetone	0.238	0.191	0.171	0.163	0.157	0.144	0.177	18.84
17)	T	Carbon Disulfide	1.571	1.588	1.647	1.536	1.590	1.633	1.594	2.54
18)	T	Methyl Acetate	0.540	0.523	0.498	0.528	0.467	0.485	0.507	5.57
19)	T	Methyl tert-bu...	1.007	1.018	1.038	1.033	0.982	0.988	1.011	2.27
20)	T	Methylene Chlo...	1.029	0.980	0.905	0.692	0.655	0.626	0.814	21.75
21)	T	trans-1,2-Dich...	0.635	0.623	0.667	0.613	0.631	0.629	0.633	2.92
22)	T	Diisopropyl ether	1.706	1.791	1.872	1.795	1.764	1.769	1.783	3.03
23)	T	Vinyl Acetate	1.111	1.178	1.240	1.256	1.246	1.276	1.218	5.09
24)	P	1,1-Dichloroet...	1.154	1.163	1.219	1.116	1.131	1.153	1.156	3.07
25)	T	2-Butanone	0.224	0.224	0.221	0.249	0.231	0.237	0.231	4.56
26)	T	2,2-Dichloropr...	0.693	0.683	0.698	0.657	0.643	0.672	0.674	3.18
27)	T	cis-1,2-Dichlo...	0.711	0.709	0.754	0.716	0.736	0.740	0.728	2.52
28)	T	Bromochloromet...	0.531	0.501	0.535	0.504	0.500	0.489	0.510	3.68
29)	T	Tetrahydrofuran	0.151	0.160	0.156	0.168	0.156	0.158	0.158	3.55
30)	C	Chloroform	1.230	1.239	1.299	1.204	1.189	1.208	1.228	3.17#
31)	T	Cyclohexane	1.175	1.065	1.033	0.937	0.940	0.981	1.022	8.87
32)	T	1,1,1-Trichlor...	0.933	0.983	0.971	0.925	0.907	0.959	0.946	3.09
33)	S	1,2-Dichloroet...	0.731	0.732	0.739	0.715	0.702	0.687	0.718	2.82
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.322	0.324	0.348	0.324	0.327	0.312	0.326	3.63
36)	T	1,1-Dichloropr...	0.477	0.473	0.497	0.456	0.463	0.467	0.472	3.03
37)	T	Ethyl Acetate	0.314	0.299	0.305	0.303	0.281	0.285	0.298	4.14
38)	T	Carbon Tetrach...	0.477	0.498	0.498	0.461	0.468	0.485	0.481	3.16
39)	T	Methylcyclohexane	0.573	0.571	0.604	0.566	0.592	0.619	0.587	3.59
40)	TM	Benzene	1.410	1.394	1.483	1.375	1.349	1.371	1.397	3.36
41)	T	Methacrylonitrile	0.151	0.151	0.153	0.174	0.161	0.167	0.160	6.03
42)	TM	1,2-Dichloroet...	0.490	0.490	0.493	0.464	0.449	0.445	0.472	4.69
43)	T	Isopropyl Acetate	0.480	0.509	0.516	0.535	0.514	0.527	0.513	3.71
44)	TM	Trichloroethene	0.344	0.346	0.367	0.344	0.337	0.354	0.349	3.07
45)	C	1,2-Dichloropr...	0.348	0.344	0.353	0.331	0.324	0.325	0.338	3.67#
46)	T	Dibromomethane	0.228	0.217	0.227	0.219	0.206	0.210	0.218	4.08
47)	T	Bromodichlorom...	0.509	0.512	0.524	0.511	0.502	0.510	0.511	1.39
48)	T	Methyl methacr...	0.230	0.266	0.246	0.261	0.255	0.256	0.252	5.06
49)	T	1,4-Dioxane	0.003	0.003	0.002	0.003	0.002	0.002	0.003	7.16
50)	S	Toluene-d8	1.121	1.245	1.290	1.208	1.229	1.193	1.214	4.67
51)	T	4-Methyl-2-Pen...	0.285	0.301	0.295	0.313	0.289	0.287	0.295	3.54
52)	CM	Toluene	0.882	0.898	0.938	0.876	0.874	0.899	0.894	2.67#
53)	T	t-1,3-Dichloro...	0.432	0.460	0.491	0.496	0.497	0.500	0.480	5.74
54)	T	cis-1,3-Dichlo...	0.514	0.521	0.571	0.549	0.547	0.560	0.544	4.09
55)	T	1,1,2-Trichlor...	0.299	0.282	0.299	0.285	0.275	0.273	0.286	4.04
56)	T	Ethyl methacry...	0.355	0.366	0.381	0.410	0.402	0.410	0.387	6.08

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W063025S.M

57)	T	1,3-Dichloropr...	0.522	0.524	0.518	0.491	0.477	0.476	0.501	4.47
58)	T	2-Chloroethyl ...	0.196	0.199	0.220	0.225	0.223	0.216	0.213	5.93
59)	T	2-Hexanone	0.185	0.201	0.195	0.219	0.201	0.199	0.200	5.63
60)	T	Dibromochlorom...	0.329	0.332	0.353	0.352	0.336	0.345	0.341	3.04
61)	T	1,2-Dibromoethane	0.288	0.285	0.296	0.290	0.274	0.281	0.286	2.66
62)	S	4-Bromofluorob...	0.436	0.452	0.463	0.447	0.450	0.434	0.447	2.38
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.331	0.321	0.324	0.314	0.329	0.344	0.327	3.15
65)	PM	Chlorobenzene	1.128	1.116	1.116	1.062	1.078	1.120	1.103	2.41
66)	T	1,1,1,2-Tetrac...	0.347	0.351	0.345	0.350	0.352	0.365	0.352	2.00
67)	C	Ethyl Benzene	1.860	1.899	1.911	1.885	1.934	1.989	1.913	2.33#
68)	T	m/p-Xylenes	0.690	0.730	0.751	0.727	0.750	0.764	0.735	3.58
69)	T	o-Xylene	0.636	0.654	0.685	0.682	0.705	0.723	0.681	4.72
70)	T	Styrene	1.066	1.154	1.195	1.209	1.206	1.232	1.177	5.10
71)	P	Bromoform	0.197	0.202	0.203	0.219	0.215	0.223	0.210	5.07
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.643	3.549	3.683	3.732	4.080	4.132	3.803	6.38
74)	T	N-amyl acetate	0.934	0.970	0.953	1.067	1.096	1.132	1.025	8.11
75)	P	1,1,2,2-Tetrac...	0.891	0.839	0.812	0.843	0.829	0.852	0.844	3.16
76)	T	1,2,3-Trichlor...	0.693	0.651	0.611	0.652	0.617	0.652	0.646	4.56
77)	T	Bromobenzene	0.883	0.821	0.816	0.781	0.886	0.902	0.848	5.72
78)	T	n-propylbenzene	4.370	4.433	4.418	4.463	4.733	4.909	4.554	4.74
79)	T	2-Chlorotoluene	2.717	2.648	2.721	2.684	2.800	2.885	2.743	3.14
80)	T	1,3,5-Trimethy...	2.947	2.987	3.121	3.155	3.314	3.365	3.148	5.35
81)	T	trans-1,4-Dich...	0.245	0.272	0.249	0.291	0.299	0.309	0.277	9.55
82)	T	4-Chlorotoluene	2.935	2.802	2.837	2.822	2.901	2.978	2.879	2.43
83)	T	tert-Butylbenzene	2.532	2.560	2.642	2.613	2.838	2.995	2.697	6.73
84)	T	1,2,4-Trimethy...	3.054	3.078	3.192	3.122	3.292	3.399	3.190	4.20
85)	T	sec-Butylbenzene	3.914	3.877	3.937	3.987	4.185	4.386	4.048	4.90
86)	T	p-Isopropyltol...	3.123	3.166	3.292	3.275	3.517	3.643	3.336	6.10
87)	T	1,3-Dichlorobe...	1.771	1.705	1.683	1.644	1.681	1.723	1.701	2.55
88)	T	1,4-Dichlorobe...	1.815	1.750	1.700	1.702	1.735	1.745	1.741	2.40
89)	T	n-Butylbenzene	3.126	3.110	3.134	3.176	3.389	3.511	3.241	5.17
90)	T	Hexachloroethane	0.573	0.567	0.566	0.592	0.638	0.675	0.602	7.45
91)	T	1,2-Dichlorobe...	1.599	1.518	1.511	1.575	1.563	1.563	1.555	2.20
92)	T	1,2-Dibromo-3-...	0.169	0.159	0.153	0.166	0.167	0.174	0.165	4.55
93)	T	1,2,4-Trichlor...	0.965	0.899	0.929	0.933	1.000	1.028	0.959	5.03
94)	T	Hexachlorobuta...	0.474	0.469	0.438	0.414	0.493	0.489	0.463	6.67
95)	T	Naphthalene	2.185	2.107	2.155	2.395	2.610	2.653	2.351	10.17
96)	T	1,2,3-Trichlor...	0.863	0.865	0.827	0.862	0.944	0.926	0.881	5.04

(#) = Out of Range



R = -2.021e-002 A*A + 6.660e-001 A + 6.133e-002
Coef of Det (r^2) = 0.999086 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W063025S.M
Calibration Table Last Updated: Tue Jul 01 03:35:17 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031729.D
Acq On : 30 Jun 2025 09:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.965	168	228987	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.849	114	410655	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.629	117	361730	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	171294	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.319	65	16728	5.090	ug/l		0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 10.180%#				
35) Dibromofluoromethane	7.904	113	13228	4.936	ug/l		0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 9.880%#				
50) Toluene-d8	10.331	98	46017	4.615	ug/l		0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 9.220%#				
62) 4-Bromofluorobenzene	12.617	95	17925	4.884	ug/l		0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 9.760%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.046	85	7562	4.849	ug/l		100
3) Chloromethane	2.247	50	9357	4.977	ug/l		98
4) Vinyl Chloride	2.405	62	11970	4.844	ug/l		98
5) Bromomethane	2.820	94	9829	5.092	ug/l	#	78
6) Chloroethane	2.966	64	8474	5.048	ug/l	#	83
7) Trichlorofluoromethane	3.302	101	11652	5.192	ug/l		95
8) Diethyl Ether	3.722	74	9130	5.354	ug/l		84
9) 1,1,2-Trichlorotrifluo...	4.094	101	13215	5.305	ug/l		98
10) Methyl Iodide	4.314	142	19559	5.093	ug/l		98
11) Tert butyl alcohol	5.222	59	4942m	24.274	ug/l		
12) 1,1-Dichloroethene	4.082	96	13793	5.055	ug/l		93
13) Acrolein	3.936	56	8223	22.472	ug/l	#	82
14) Allyl chloride	4.704	41	20213	4.828	ug/l		98
15) Acrylonitrile	5.405	53	20292	24.197	ug/l		97
16) Acetone	4.161	43	27204m	33.285	ug/l		
17) Carbon Disulfide	4.417	76	35984	4.928	ug/l	#	95
18) Methyl Acetate	4.710	43	12364	5.326	ug/l		99
19) Methyl tert-butyl Ether	5.466	73	23058	4.979	ug/l		94
20) Methylene Chloride	4.948	84	23553	3.124	ug/l		96
21) trans-1,2-Dichloroethene	5.466	96	14541	5.015	ug/l		98
22) Diisopropyl ether	6.344	45	39057	4.784	ug/l	#	90
23) Vinyl Acetate	6.283	43	127146	22.799	ug/l		100
24) 1,1-Dichloroethane	6.252	63	26423	4.992	ug/l		98
25) 2-Butanone	7.197	43	25644	24.268	ug/l		96
26) 2,2-Dichloropropane	7.191	77	15875	5.140	ug/l		97
27) cis-1,2-Dichloroethene	7.191	96	16273	4.883	ug/l		99
28) Bromochloromethane	7.526	49	12169	5.210	ug/l	#	12
29) Tetrahydrofuran	7.557	42	17271	23.866	ug/l		99
30) Chloroform	7.691	83	28162	5.007	ug/l		97
31) Cyclohexane	7.965	56	26905	5.750	ug/l	#	82
32) 1,1,1-Trichloroethane	7.886	97	21367	4.929	ug/l		96
36) 1,1-Dichloropropene	8.093	75	19574	5.048	ug/l		98
37) Ethyl Acetate	7.276	43	12878m	5.265	ug/l		
38) Carbon Tetrachloride	8.081	117	19576	4.954	ug/l		97
39) Methylcyclohexane	9.343	83	23529	4.877	ug/l		94
40) Benzene	8.337	78	57889	5.046	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031729.D
Acq On : 30 Jun 2025 09:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	6190	4.724	ug/l	#	90
42) 1,2-Dichloroethane	8.416	62	20133	5.194	ug/l		99
43) Isopropyl Acetate	8.441	43	19704	4.673	ug/l		97
44) Trichloroethene	9.105	130	14112	4.928	ug/l		98
45) 1,2-Dichloropropane	9.374	63	14286	5.152	ug/l		95
46) Dibromomethane	9.465	93	9383	5.242	ug/l		98
47) Bromodichloromethane	9.654	83	20888	4.976	ug/l		98
48) Methyl methacrylate	9.441	41	9461	4.563	ug/l		98
49) 1,4-Dioxane	9.471	88	2322m	121.843	ug/l		
51) 4-Methyl-2-Pentanone	10.215	43	58525	24.143	ug/l		100
52) Toluene	10.392	92	36200	4.928	ug/l		96
53) t-1,3-Dichloropropene	10.611	75	17756	4.508	ug/l		95
54) cis-1,3-Dichloropropene	10.075	75	21091	4.724	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	12285	5.239	ug/l		95
56) Ethyl methacrylate	10.648	69	14584	4.584	ug/l		97
57) 1,3-Dichloropropane	10.934	76	21432	5.206	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	40271	22.989	ug/l		99
59) 2-Hexanone	10.971	43	37987	23.125	ug/l		96
60) Dibromochloromethane	11.129	129	13506	4.817	ug/l		98
61) 1,2-Dibromoethane	11.239	107	11844	5.046	ug/l		99
64) Tetrachloroethene	10.867	164	11991	5.068	ug/l		95
65) Chlorobenzene	11.654	112	40816	5.114	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.733	131	12551	4.935	ug/l		96
67) Ethyl Benzene	11.733	91	67293	4.862	ug/l		99
68) m/p-Xylenes	11.837	106	49892	9.378	ug/l		97
69) o-Xylene	12.166	106	22994	4.668	ug/l		98
70) Styrene	12.178	104	38573	4.530	ug/l		96
71) Bromoform	12.349	173	7112	4.688	ug/l	#	96
73) Isopropylbenzene	12.465	105	62409	4.790	ug/l		98
74) N-amyl acetate	12.269	43	15998	4.555	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.715	83	15264	5.277	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	11866m	5.361	ug/l		
77) Bromobenzene	12.745	156	15131	5.207	ug/l		89
78) n-propylbenzene	12.800	91	74850	4.797	ug/l		99
79) 2-Chlorotoluene	12.891	91	46542	4.954	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	50477	4.680	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	4189	4.408	ug/l	#	81
82) 4-Chlorotoluene	12.989	91	50283	5.098	ug/l		100
83) tert-Butylbenzene	13.202	119	43370	4.694	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	52319	4.788	ug/l		97
85) sec-Butylbenzene	13.379	105	67046	4.835	ug/l		99
86) p-Isopropyltoluene	13.489	119	53492	4.681	ug/l		98
87) 1,3-Dichlorobenzene	13.501	146	30342	5.206	ug/l		100
88) 1,4-Dichlorobenzene	13.574	146	31083	5.211	ug/l		92
89) n-Butylbenzene	13.818	91	53555	4.823	ug/l		97
90) Hexachloroethane	14.086	117	9816	4.761	ug/l		95
91) 1,2-Dichlorobenzene	13.867	146	27395	5.143	ug/l		93
92) 1,2-Dibromo-3-Chloropr...	14.476	75	2902	5.138	ug/l		98
93) 1,2,4-Trichlorobenzene	15.129	180	16524	5.030	ug/l		97
94) Hexachlorobutadiene	15.226	225	8122	5.120	ug/l		88
95) Naphthalene	15.360	128	37422	4.647	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	14775	4.895	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031729.D
Acq On : 30 Jun 2025 09:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

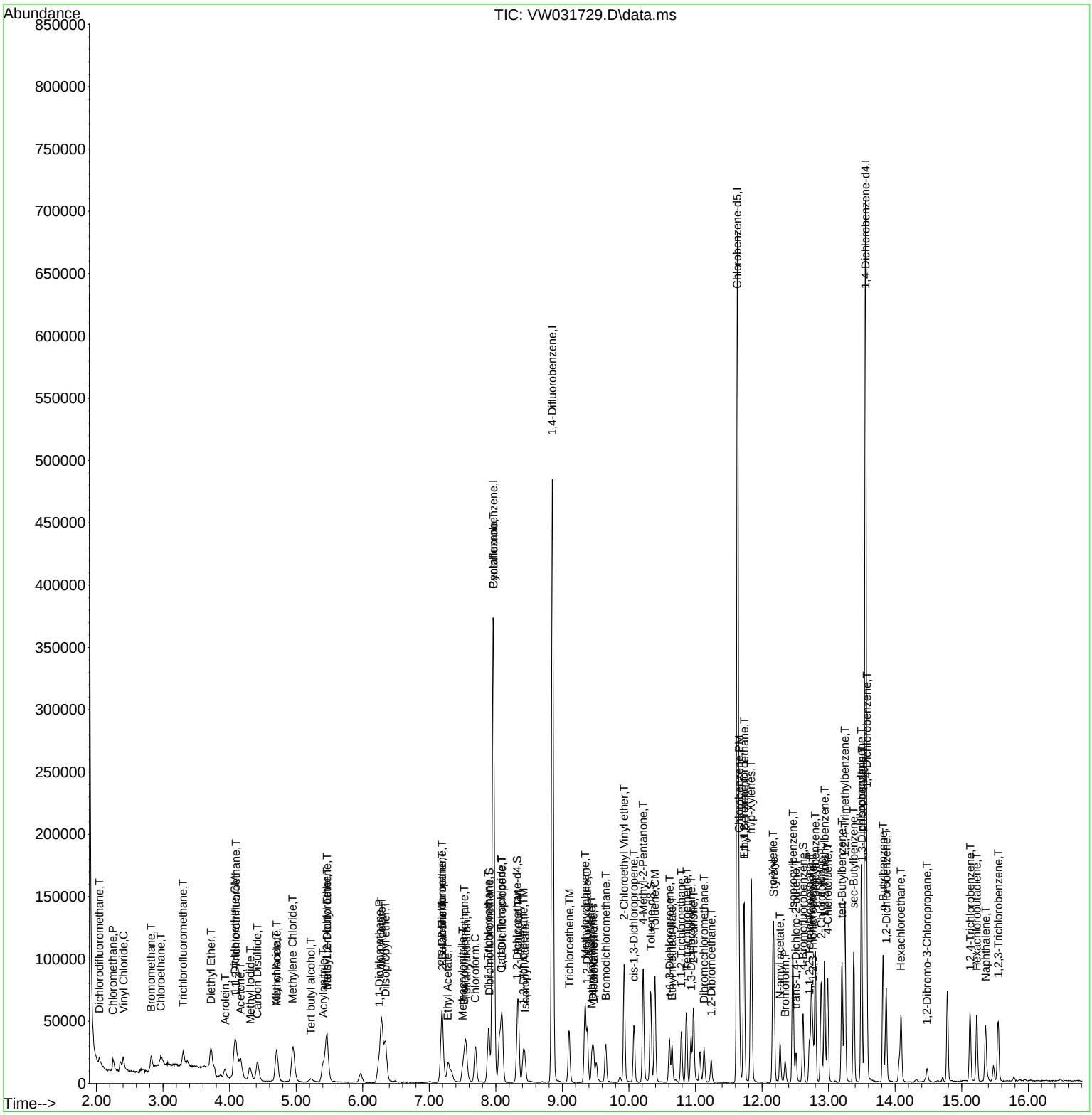
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031729.D
Acq On : 30 Jun 2025 09:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 02:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031730.D
Acq On : 30 Jun 2025 10:15
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:18:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	216272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	387016	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	345396	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	170268	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	31661	10.201	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	20.400%#		
35) Dibromofluoromethane	7.898	113	25109	9.942	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	19.880%#		
50) Toluene-d8	10.325	98	96344	10.251	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	20.500%#		
62) 4-Bromofluorobenzene	12.617	95	34948	10.105	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	20.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	16044	10.893	ug/l	94
3) Chloromethane	2.253	50	17744	9.993	ug/l	99
4) Vinyl Chloride	2.405	62	23112	9.902	ug/l	95
5) Bromomethane	2.820	94	18643	10.226	ug/l	94
6) Chloroethane	2.966	64	16074	10.139	ug/l	91
7) Trichlorofluoromethane	3.308	101	21990	10.374	ug/l	94
8) Diethyl Ether	3.722	74	17881	11.102	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.100	101	24340	10.346	ug/l	99
10) Methyl Iodide	4.313	142	36597	10.090	ug/l	99
11) Tert butyl alcohol	5.234	59	10031m	52.167	ug/l	
12) 1,1-Dichloroethene	4.076	96	27046	10.495	ug/l	95
13) Acrolein	3.929	56	18553	53.683	ug/l	100
14) Allyl chloride	4.704	41	39145	9.900	ug/l	100
15) Acrylonitrile	5.405	53	40289	50.867	ug/l	99
16) Acetone	4.161	43	41372	53.597	ug/l	97
17) Carbon Disulfide	4.417	76	68668	9.958	ug/l	98
18) Methyl Acetate	4.710	43	22628	10.321	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	44040	10.069	ug/l	95
20) Methylene Chloride	4.960	84	42368	10.166	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	26955	9.844	ug/l	87
22) Diisopropyl ether	6.344	45	77462	10.045	ug/l	95
23) Vinyl Acetate	6.283	43	254825	48.380	ug/l	98
24) 1,1-Dichloroethane	6.240	63	50299	10.061	ug/l	99
25) 2-Butanone	7.197	43	48340	48.435	ug/l	97
26) 2,2-Dichloropropane	7.185	77	29549	10.130	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	30687	9.749	ug/l	99
28) Bromochloromethane	7.532	49	21655	9.815	ug/l	98
29) Tetrahydrofuran	7.557	42	34596	50.617	ug/l	98
30) Chloroform	7.691	83	53600	10.090	ug/l	99
31) Cyclohexane	7.971	56	46081	10.427	ug/l #	89
32) 1,1,1-Trichloroethane	7.886	97	42532	10.389	ug/l	98
36) 1,1-Dichloropropene	8.099	75	36621	10.021	ug/l	99
37) Ethyl Acetate	7.282	43	23126	10.032	ug/l	99
38) Carbon Tetrachloride	8.081	117	38531	10.347	ug/l	99
39) Methylcyclohexane	9.343	83	44170	9.715	ug/l	97
40) Benzene	8.337	78	107869	9.977	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031730.D
Acq On : 30 Jun 2025 10:15
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:18:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	11713	9.485	ug/l		87
42) 1,2-Dichloroethane	8.416	62	37957	10.390	ug/l		99
43) Isopropyl Acetate	8.441	43	39393	9.913	ug/l		99
44) Trichloroethene	9.099	130	26788	9.927	ug/l		98
45) 1,2-Dichloropropane	9.380	63	26605	10.181	ug/l		97
46) Dibromomethane	9.471	93	16818	9.969	ug/l		96
47) Bromodichloromethane	9.654	83	39595	10.009	ug/l		98
48) Methyl methacrylate	9.447	41	20612	10.549	ug/l		96
49) 1,4-Dioxane	9.465	88	4204m	234.072	ug/l		
51) 4-Methyl-2-Pentanone	10.215	43	116628	51.050	ug/l		99
52) Toluene	10.392	92	69506	10.041	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	35578	9.585	ug/l		97
54) cis-1,3-Dichloropropene	10.081	75	40343	9.588	ug/l		94
55) 1,1,2-Trichloroethane	10.788	97	21816	9.872	ug/l	#	88
56) Ethyl methacrylate	10.648	69	28317	9.445	ug/l		99
57) 1,3-Dichloropropane	10.934	76	40528	10.446	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	76896	46.578	ug/l		98
59) 2-Hexanone	10.971	43	77810	50.260	ug/l		97
60) Dibromochloromethane	11.129	129	25734	9.738	ug/l		96
61) 1,2-Dibromoethane	11.233	107	22082	9.981	ug/l		100
64) Tetrachloroethene	10.861	164	22144	9.801	ug/l		90
65) Chlorobenzene	11.654	112	77068	10.113	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	24224	9.975	ug/l		98
67) Ethyl Benzene	11.733	91	131184	9.927	ug/l		98
68) m/p-Xylenes	11.836	106	100863	19.856	ug/l		98
69) o-Xylene	12.166	106	45204	9.611	ug/l		97
70) Styrene	12.184	104	79722	9.805	ug/l		98
71) Bromoform	12.355	173	13967	9.641	ug/l	#	99
73) Isopropylbenzene	12.464	105	120857	9.331	ug/l		100
74) N-amyl acetate	12.275	43	33049	9.467	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	28567	9.935	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	22177m	10.079	ug/l		
77) Bromobenzene	12.745	156	27969	9.682	ug/l		91
78) n-propylbenzene	12.800	91	150962	9.734	ug/l		98
79) 2-Chlorotoluene	12.885	91	90162	9.654	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	101724	9.489	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	9266	9.808	ug/l		92
82) 4-Chlorotoluene	12.989	91	95411	9.731	ug/l		99
83) tert-Butylbenzene	13.202	119	87194	9.495	ug/l		96
84) 1,2,4-Trimethylbenzene	13.245	105	104832	9.651	ug/l		100
85) sec-Butylbenzene	13.379	105	132016	9.578	ug/l		99
86) p-Isopropyltoluene	13.495	119	107805	9.490	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	58049	10.021	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	59597	10.051	ug/l		94
89) n-Butylbenzene	13.818	91	105923	9.597	ug/l		99
90) Hexachloroethane	14.086	117	19306	9.420	ug/l		93
91) 1,2-Dichlorobenzene	13.867	146	51680	9.761	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5409	9.634	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	30599	9.371	ug/l		98
94) Hexachlorobutadiene	15.226	225	15982	10.136	ug/l		91
95) Naphthalene	15.360	128	71758	8.964	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	29473	9.823	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031730.D
Acq On : 30 Jun 2025 10:15
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:18:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

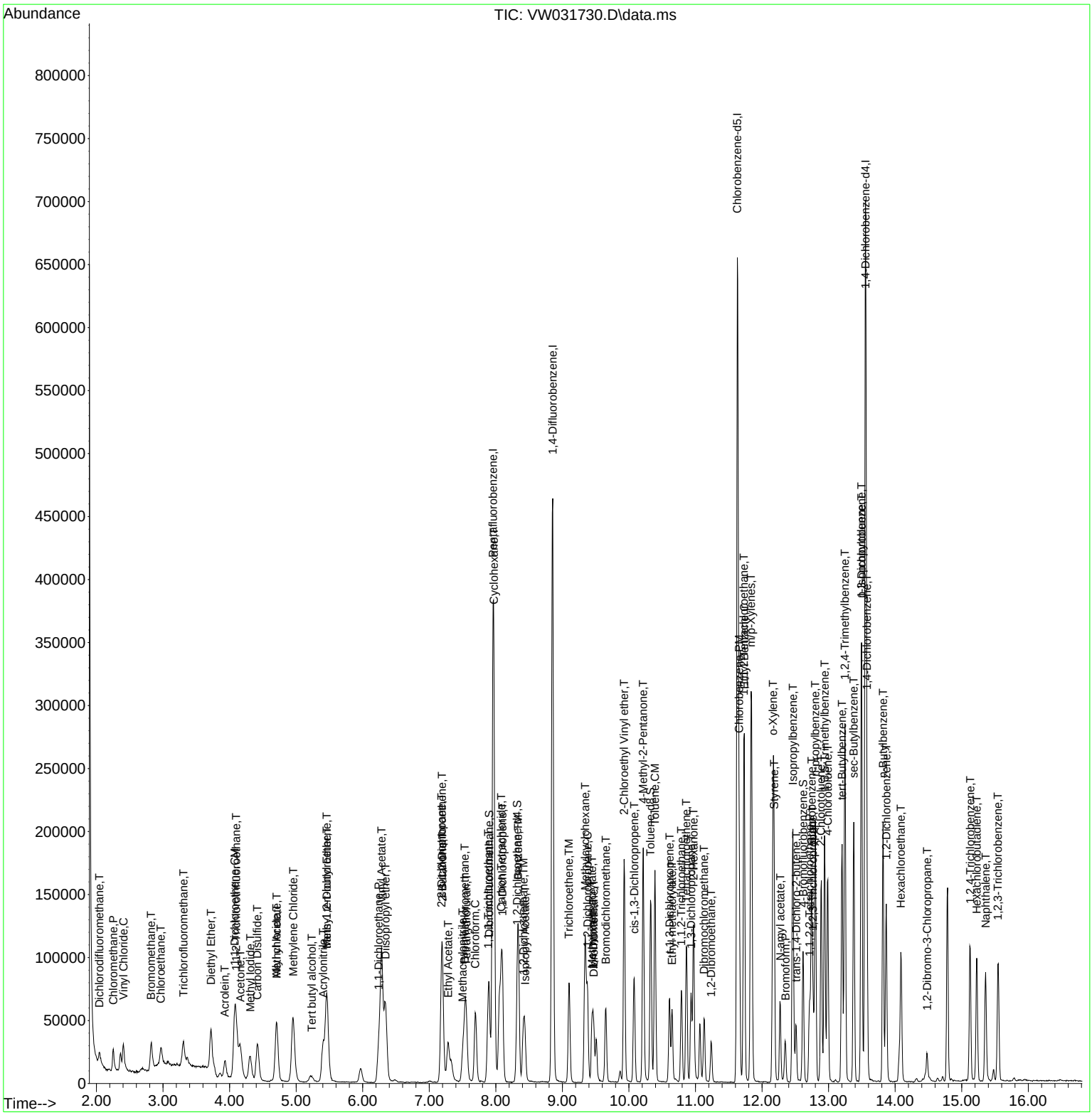
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031730.D
Acq On : 30 Jun 2025 10:15
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 02:18:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031731.D
Acq On : 30 Jun 2025 10:58
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:19:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	206362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	368808	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	347024	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	169543	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	61033	20.609	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	41.220%#		
35) Dibromofluoromethane	7.898	113	51372	21.346	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	42.700%#		
50) Toluene-d8	10.324	98	190235	21.241	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	42.480%#		
62) 4-Bromofluorobenzene	12.617	95	68269	20.714	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	41.420%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	29096	20.703	ug/l	99
3) Chloromethane	2.253	50	35297	20.832	ug/l	99
4) Vinyl Chloride	2.405	62	47534	21.344	ug/l	95
5) Bromomethane	2.820	94	36582	21.030	ug/l	98
6) Chloroethane	2.966	64	31253	20.660	ug/l	93
7) Trichlorofluoromethane	3.301	101	36478	18.036	ug/l	95
8) Diethyl Ether	3.716	74	31642	20.589	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.100	101	46970	20.923	ug/l	98
10) Methyl Iodide	4.301	142	72612	20.981	ug/l	98
11) Tert butyl alcohol	5.209	59	17455	95.135	ug/l #	88
12) 1,1-Dichloroethene	4.069	96	51343	20.880	ug/l	94
13) Acrolein	3.923	56	33931	102.894	ug/l	95
14) Allyl chloride	4.697	41	77423	20.522	ug/l	99
15) Acrylonitrile	5.398	53	75131	99.411	ug/l	99
16) Acetone	4.149	43	70616	95.875	ug/l	97
17) Carbon Disulfide	4.411	76	135917	20.656	ug/l	98
18) Methyl Acetate	4.703	43	41106	19.649	ug/l	99
19) Methyl tert-butyl Ether	5.459	73	85702	20.535	ug/l	97
20) Methylene Chloride	4.947	84	74694	22.889	ug/l	97
21) trans-1,2-Dichloroethene	5.453	96	55073	21.078	ug/l	95
22) Diisopropyl ether	6.337	45	154496	20.997	ug/l	97
23) Vinyl Acetate	6.276	43	511743	101.822	ug/l	99
24) 1,1-Dichloroethane	6.234	63	100608	21.090	ug/l	100
25) 2-Butanone	7.191	43	91095	95.657	ug/l	97
26) 2,2-Dichloropropane	7.179	77	57600	20.695	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	62244	20.725	ug/l	99
28) Bromochloromethane	7.526	49	44182	20.988	ug/l	100
29) Tetrahydrofuran	7.550	42	64497	98.896	ug/l	99
30) Chloroform	7.691	83	107197	21.148	ug/l	98
31) Cyclohexane	7.965	56	85236	20.213	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	80117	20.509	ug/l	98
36) 1,1-Dichloropropene	8.093	75	73346	21.061	ug/l	100
37) Ethyl Acetate	7.270	43	45062	20.512	ug/l	98
38) Carbon Tetrachloride	8.081	117	73482	20.706	ug/l	97
39) Methylcyclohexane	9.343	83	89081	20.560	ug/l	98
40) Benzene	8.331	78	218756	21.231	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031731.D
Acq On : 30 Jun 2025 10:58
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:19:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.489	41	22541	19.154	ug/l		91
42) 1,2-Dichloroethane	8.410	62	72797	20.910	ug/l		100
43) Isopropyl Acetate	8.434	43	76119	20.101	ug/l		100
44) Trichloroethene	9.099	130	54194	21.074	ug/l		100
45) 1,2-Dichloropropane	9.373	63	52141	20.939	ug/l		100
46) Dibromomethane	9.465	93	33467	20.817	ug/l		98
47) Bromodichloromethane	9.648	83	77246	20.490	ug/l		96
48) Methyl methacrylate	9.440	41	36279	19.484	ug/l		98
49) 1,4-Dioxane	9.465	88	7013m	409.751	ug/l		
51) 4-Methyl-2-Pentanone	10.209	43	217881	100.078	ug/l		99
52) Toluene	10.391	92	138387	20.978	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	72498	20.496	ug/l		99
54) cis-1,3-Dichloropropene	10.074	75	84285	21.019	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	44134	20.957	ug/l		98
56) Ethyl methacrylate	10.647	69	56229	19.681	ug/l		99
57) 1,3-Dichloropropane	10.928	76	76367	20.654	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	162561	103.330	ug/l		98
59) 2-Hexanone	10.964	43	143482	97.256	ug/l		99
60) Dibromochloromethane	11.129	129	52126	20.699	ug/l		98
61) 1,2-Dibromoethane	11.233	107	43701	20.729	ug/l		99
64) Tetrachloroethene	10.861	164	44967	19.810	ug/l		94
65) Chlorobenzene	11.653	112	154847	20.224	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.733	131	47923	19.641	ug/l		98
67) Ethyl Benzene	11.727	91	265199	19.975	ug/l		96
68) m/p-Xylenes	11.836	106	208380	40.829	ug/l		97
69) o-Xylene	12.165	106	95105	20.126	ug/l		99
70) Styrene	12.178	104	165896	20.307	ug/l		100
71) Bromoform	12.348	173	28135	19.330	ug/l	#	100
73) Isopropylbenzene	12.464	105	249772	19.368	ug/l		99
74) N-amyl acetate	12.269	43	64599	18.584	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	55059	19.230	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	41432m	18.910	ug/l		
77) Bromobenzene	12.745	156	55325	19.235	ug/l		92
78) n-propylbenzene	12.800	91	299620	19.402	ug/l		98
79) 2-Chlorotoluene	12.885	91	184544	19.845	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	211664	19.828	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	16911	17.978	ug/l		92
82) 4-Chlorotoluene	12.982	91	192402	19.707	ug/l		99
83) tert-Butylbenzene	13.202	119	179144	19.591	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	216491	20.016	ug/l		98
85) sec-Butylbenzene	13.379	105	266984	19.452	ug/l		100
86) p-Isopropyltoluene	13.495	119	223225	19.735	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	114120	19.784	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	115307	19.530	ug/l		95
89) n-Butylbenzene	13.818	91	212509	19.336	ug/l		98
90) Hexachloroethane	14.086	117	38406	18.820	ug/l		98
91) 1,2-Dichlorobenzene	13.866	146	102449	19.432	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10404	18.610	ug/l		95
93) 1,2,4-Trichlorobenzene	15.128	180	63033	19.386	ug/l		94
94) Hexachlorobutadiene	15.226	225	29695	18.913	ug/l		94
95) Naphthalene	15.354	128	146159	18.335	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	56085	18.772	ug/l		93

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031731.D
Acq On : 30 Jun 2025 10:58
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:19:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

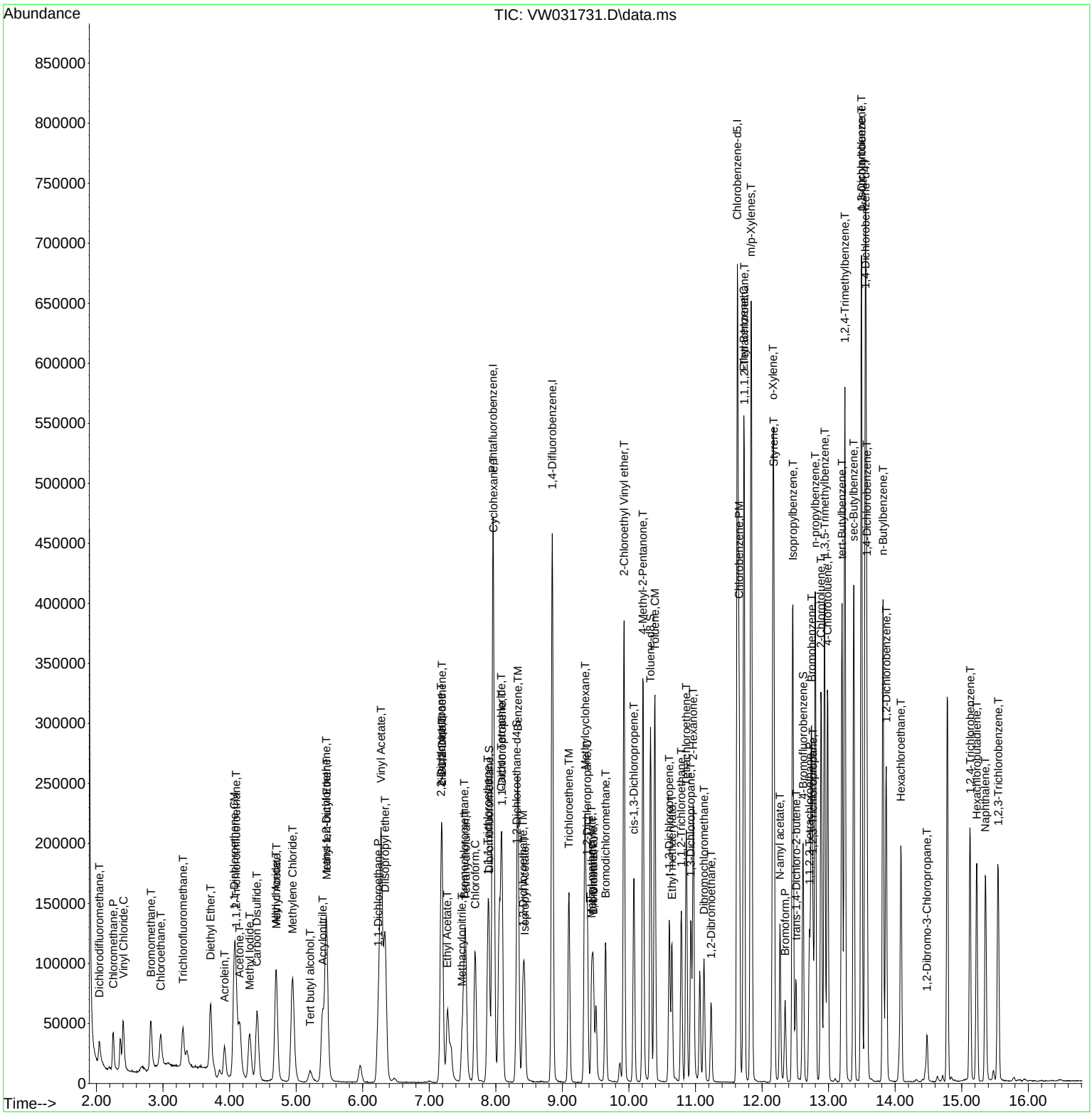
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031731.D
Acq On : 30 Jun 2025 10:58
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 02:19:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031732.D
Acq On : 30 Jun 2025 11:21
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	224452	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	404902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	363615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	174347	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	160456	49.813	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	99.620%		
35) Dibromofluoromethane	7.904	113	131109	49.622	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	99.240%		
50) Toluene-d8	10.324	98	489286	49.762	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	99.520%		
62) 4-Bromofluorobenzene	12.617	95	180870	49.986	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	99.980%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	69611	45.539	ug/l	100
3) Chloromethane	2.253	50	84254	45.719	ug/l	100
4) Vinyl Chloride	2.405	62	115341	47.617	ug/l	100
5) Bromomethane	2.826	94	88903	46.990	ug/l	100
6) Chloroethane	2.972	64	77830	47.303	ug/l	100
7) Trichlorofluoromethane	3.307	101	105244	47.842	ug/l	100
8) Diethyl Ether	3.722	74	79864	47.778	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	114080	46.722	ug/l	100
10) Methyl Iodide	4.313	142	183075	48.636	ug/l	100
11) Tert butyl alcohol	5.216	59	52409	262.624	ug/l	100
12) 1,1-Dichloroethene	4.075	96	124737	46.640	ug/l	100
13) Acrolein	3.929	56	93443	260.524	ug/l	100
14) Allyl chloride	4.703	41	201014	48.986	ug/l	100
15) Acrylonitrile	5.398	53	214572	261.033	ug/l	100
16) Acetone	4.155	43	182890	228.296	ug/l	100
17) Carbon Disulfide	4.423	76	344867	48.188	ug/l	100
18) Methyl Acetate	4.710	43	118590	52.118	ug/l	100
19) Methyl tert-butyl Ether	5.459	73	231884	51.082	ug/l	100
20) Methylene Chloride	4.953	84	155350	48.806	ug/l	100
21) trans-1,2-Dichloroethene	5.459	96	137493	48.382	ug/l	100
22) Diisopropyl ether	6.343	45	402830	50.335	ug/l	100
23) Vinyl Acetate	6.282	43	1409763	257.896	ug/l	100
24) 1,1-Dichloroethane	6.246	63	250386	48.257	ug/l	100
25) 2-Butanone	7.191	43	279081	269.438	ug/l	100
26) 2,2-Dichloropropane	7.191	77	147400	48.691	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	160684	49.190	ug/l	100
28) Bromochloromethane	7.532	49	113190	49.435	ug/l	100
29) Tetrahydrofuran	7.550	42	188178	265.287	ug/l	100
30) Chloroform	7.691	83	270281	49.023	ug/l	100
31) Cyclohexane	7.971	56	210337	45.861	ug/l	100
32) 1,1,1-Trichloroethane	7.892	97	207721	48.890	ug/l	100
36) 1,1-Dichloropropene	8.093	75	184651	48.296	ug/l	100
37) Ethyl Acetate	7.276	43	122534	50.805	ug/l	100
38) Carbon Tetrachloride	8.081	117	186814	47.949	ug/l	100
39) Methylcyclohexane	9.343	83	229164	48.175	ug/l	100
40) Benzene	8.337	78	556688	49.213	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031732.D
Acq On : 30 Jun 2025 11:21
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	70587	54.633	ug/l		100
42) 1,2-Dichloroethane	8.410	62	187709	49.111	ug/l		100
43) Isopropyl Acetate	8.434	43	216777	52.141	ug/l		100
44) Trichloroethene	9.099	130	139117	49.275	ug/l		100
45) 1,2-Dichloropropane	9.373	63	134070	49.040	ug/l		100
46) Dibromomethane	9.471	93	88721	50.266	ug/l		100
47) Bromodichloromethane	9.648	83	207001	50.013	ug/l		100
48) Methyl methacrylate	9.440	41	105740	51.725	ug/l		100
49) 1,4-Dioxane	9.465	88	20673	1100.195	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.215	43	633101	264.876	ug/l		100
52) Toluene	10.391	92	354627	48.965	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	201014	51.763	ug/l		100
54) cis-1,3-Dichloropropene	10.074	75	222288	50.493	ug/l		100
55) 1,1,2-Trichloroethane	10.788	97	115580	49.991	ug/l		100
56) Ethyl methacrylate	10.647	69	166152	52.971	ug/l		100
57) 1,3-Dichloropropane	10.934	76	198954	49.013	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	454721	263.272	ug/l		100
59) 2-Hexanone	10.971	43	444148	274.219	ug/l		100
60) Dibromochloromethane	11.129	129	142721	51.621	ug/l		100
61) 1,2-Dibromoethane	11.239	107	117287	50.674	ug/l		100
64) Tetrachloroethene	10.867	164	113995	47.928	ug/l		100
65) Chlorobenzene	11.659	112	386218	48.141	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.727	131	127147	49.734	ug/l		100
67) Ethyl Benzene	11.733	91	685367	49.266	ug/l		100
68) m/p-Xylenes	11.836	106	528971	98.914	ug/l		100
69) o-Xylene	12.165	106	247840	50.054	ug/l		100
70) Styrene	12.178	104	439641	51.360	ug/l		100
71) Bromoform	12.348	173	79452	52.095	ug/l		100
73) Isopropylbenzene	12.464	105	650607	49.059	ug/l		100
74) N-amyl acetate	12.269	43	185960	52.024	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.714	83	147025	49.936	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	113761m	50.492	ug/l		
77) Bromobenzene	12.745	156	136242	46.062	ug/l		100
78) n-propylbenzene	12.800	91	778125	48.998	ug/l		100
79) 2-Chlorotoluene	12.891	91	468001	48.939	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	549993	50.102	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	50770	52.485	ug/l		100
82) 4-Chlorotoluene	12.989	91	492034	49.008	ug/l		100
83) tert-Butylbenzene	13.202	119	455621	48.454	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	544366	48.943	ug/l		100
85) sec-Butylbenzene	13.379	105	695122	49.251	ug/l		100
86) p-Isopropyltoluene	13.495	119	570989	49.088	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	286670	48.328	ug/l		100
88) 1,4-Dichlorobenzene	13.574	146	296666	48.863	ug/l		100
89) n-Butylbenzene	13.818	91	553799	49.002	ug/l		100
90) Hexachloroethane	14.086	117	103194	49.175	ug/l		100
91) 1,2-Dichlorobenzene	13.866	146	274605	50.650	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.482	75	29018	50.476	ug/l		100
93) 1,2,4-Trichlorobenzene	15.128	180	162674	48.652	ug/l		100
94) Hexachlorobutadiene	15.226	225	72238	44.742	ug/l		100
95) Naphthalene	15.354	128	417556	50.938	ug/l		100
96) 1,2,3-Trichlorobenzene	15.549	180	150212	48.893	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031732.D
Acq On : 30 Jun 2025 11:21
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

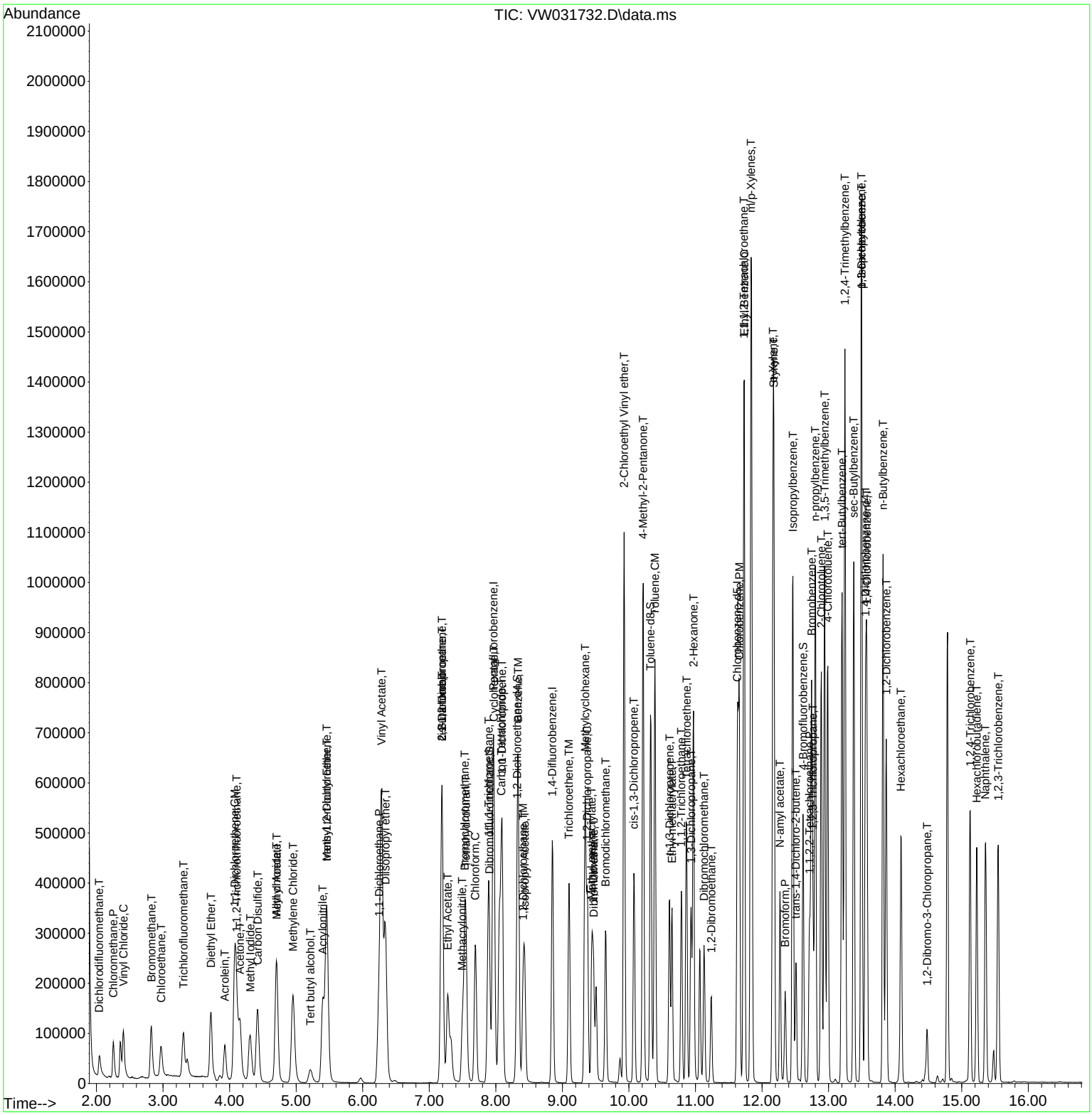
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031732.D
Acq On : 30 Jun 2025 11:21
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 02:20:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031733.D
Acq On : 30 Jun 2025 12:34
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	224702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	406265	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	358957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	166129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	315303	97.777	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 195.560%#			
35) Dibromofluoromethane	7.898	113	265418	100.118	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 200.240%#			
50) Toluene-d8	10.325	98	998288	101.188	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 202.380%#			
62) 4-Bromofluorobenzene	12.617	95	365527	100.680	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 201.360%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	147738	96.542	ug/l	98
3) Chloromethane	2.253	50	182080	98.692	ug/l	99
4) Vinyl Chloride	2.405	62	244761	100.935	ug/l	97
5) Bromomethane	2.814	94	184987	97.666	ug/l	99
6) Chloroethane	2.966	64	161756	98.201	ug/l	99
7) Trichlorofluoromethane	3.296	101	209568	95.160	ug/l	99
8) Diethyl Ether	3.716	74	154043	92.052	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	232215	94.998	ug/l	99
10) Methyl Iodide	4.301	142	365954	97.112	ug/l	100
11) Tert butyl alcohol	5.210	59	97696	489.014	ug/l	96
12) 1,1-Dichloroethene	4.070	96	261103	97.519	ug/l	97
13) Acrolein	3.923	56	175125	487.715	ug/l	97
14) Allyl chloride	4.698	41	412947	100.521	ug/l	99
15) Acrylonitrile	5.393	53	405986	493.345	ug/l	99
16) Acetone	4.155	43	352601	439.652	ug/l	100
17) Carbon Disulfide	4.411	76	714624	99.742	ug/l	99
18) Methyl Acetate	4.698	43	209762	92.083	ug/l	99
19) Methyl tert-butyl Ether	5.454	73	441477	97.146	ug/l	99
20) Methylene Chloride	4.942	84	294557	99.868	ug/l	97
21) trans-1,2-Dichloroethene	5.454	96	283611	99.689	ug/l	96
22) Diisopropyl ether	6.338	45	792929	98.968	ug/l	98
23) Vinyl Acetate	6.277	43	2799136	511.492	ug/l	100
24) 1,1-Dichloroethane	6.240	63	508118	97.821	ug/l	99
25) 2-Butanone	7.185	43	519074	500.581	ug/l	98
26) 2,2-Dichloropropane	7.179	77	288897	95.325	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	330910	101.187	ug/l	98
28) Bromochloromethane	7.526	49	224498	97.940	ug/l	98
29) Tetrahydrofuran	7.545	42	349502	492.168	ug/l	100
30) Chloroform	7.691	83	534507	96.841	ug/l	99
31) Cyclohexane	7.965	56	422261	91.965	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	407612	95.829	ug/l	99
36) 1,1-Dichloropropene	8.093	75	375878	97.982	ug/l	99
37) Ethyl Acetate	7.270	43	228624	94.474	ug/l	100
38) Carbon Tetrachloride	8.081	117	380387	97.306	ug/l	96
39) Methylcyclohexane	9.337	83	481270	100.834	ug/l	99
40) Benzene	8.331	78	1096371	96.598	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031733.D
Acq On : 30 Jun 2025 12:34
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	131200	101.206	ug/l		98
42) 1,2-Dichloroethane	8.404	62	364585	95.068	ug/l		99
43) Isopropyl Acetate	8.429	43	417317	100.040	ug/l		99
44) Trichloroethene	9.099	130	273865	96.676	ug/l		96
45) 1,2-Dichloropropane	9.374	63	263216	95.956	ug/l		99
46) Dibromomethane	9.465	93	167767	94.732	ug/l		98
47) Bromodichloromethane	9.648	83	407715	98.177	ug/l		99
48) Methyl methacrylate	9.441	41	207070	100.953	ug/l		98
49) 1,4-Dioxane	9.459	88	39485	2094.300	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.209	43	1174822	489.871	ug/l		99
52) Toluene	10.386	92	710254	97.739	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	404225	103.743	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	444410	100.610	ug/l		95
55) 1,1,2-Trichloroethane	10.788	97	223115	96.178	ug/l		97
56) Ethyl methacrylate	10.642	69	326655	103.792	ug/l		98
57) 1,3-Dichloropropane	10.928	76	387413	95.120	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.922	63	907630	523.732	ug/l		99
59) 2-Hexanone	10.965	43	817133	502.809	ug/l		99
60) Dibromochloromethane	11.129	129	273293	98.517	ug/l		97
61) 1,2-Dibromoethane	11.233	107	222768	95.925	ug/l		99
64) Tetrachloroethene	10.861	164	236432	100.695	ug/l		94
65) Chlorobenzene	11.654	112	773712	97.693	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.727	131	252455	100.030	ug/l		98
67) Ethyl Benzene	11.727	91	1388600	101.112	ug/l		100
68) m/p-Xylenes	11.837	106	1077324	204.066	ug/l		98
69) o-Xylene	12.160	106	506083	103.535	ug/l		97
70) Styrene	12.178	104	865542	102.427	ug/l		99
71) Bromoform	12.349	173	154434	102.574	ug/l	#	97
73) Isopropylbenzene	12.459	105	1355736	107.286	ug/l		100
74) N-amyl acetate	12.270	43	363996	106.869	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	275439	98.180	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	205119m	95.544	ug/l		
77) Bromobenzene	12.739	156	294310	104.424	ug/l		86
78) n-propylbenzene	12.800	91	1572731	103.933	ug/l		99
79) 2-Chlorotoluene	12.885	91	930210	102.084	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	1101203	105.277	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	99233	107.660	ug/l		98
82) 4-Chlorotoluene	12.983	91	963920	100.758	ug/l		100
83) tert-Butylbenzene	13.202	119	942890	105.234	ug/l		96
84) 1,2,4-Trimethylbenzene	13.245	105	1093757	103.202	ug/l		100
85) sec-Butylbenzene	13.379	105	1390528	103.396	ug/l		100
86) p-Isopropyltoluene	13.495	119	1168552	105.431	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	558538	98.818	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	576612	99.669	ug/l		97
89) n-Butylbenzene	13.818	91	1126053	104.566	ug/l		99
90) Hexachloroethane	14.092	117	211871	105.958	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	519347	100.530	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	55462	101.247	ug/l		97
93) 1,2,4-Trichlorobenzene	15.129	180	332108	104.240	ug/l		100
94) Hexachlorobutadiene	15.226	225	163909	106.542	ug/l		89
95) Naphthalene	15.360	128	867343	111.042	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	313738	107.170	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031733.D
Acq On : 30 Jun 2025 12:34
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:20:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

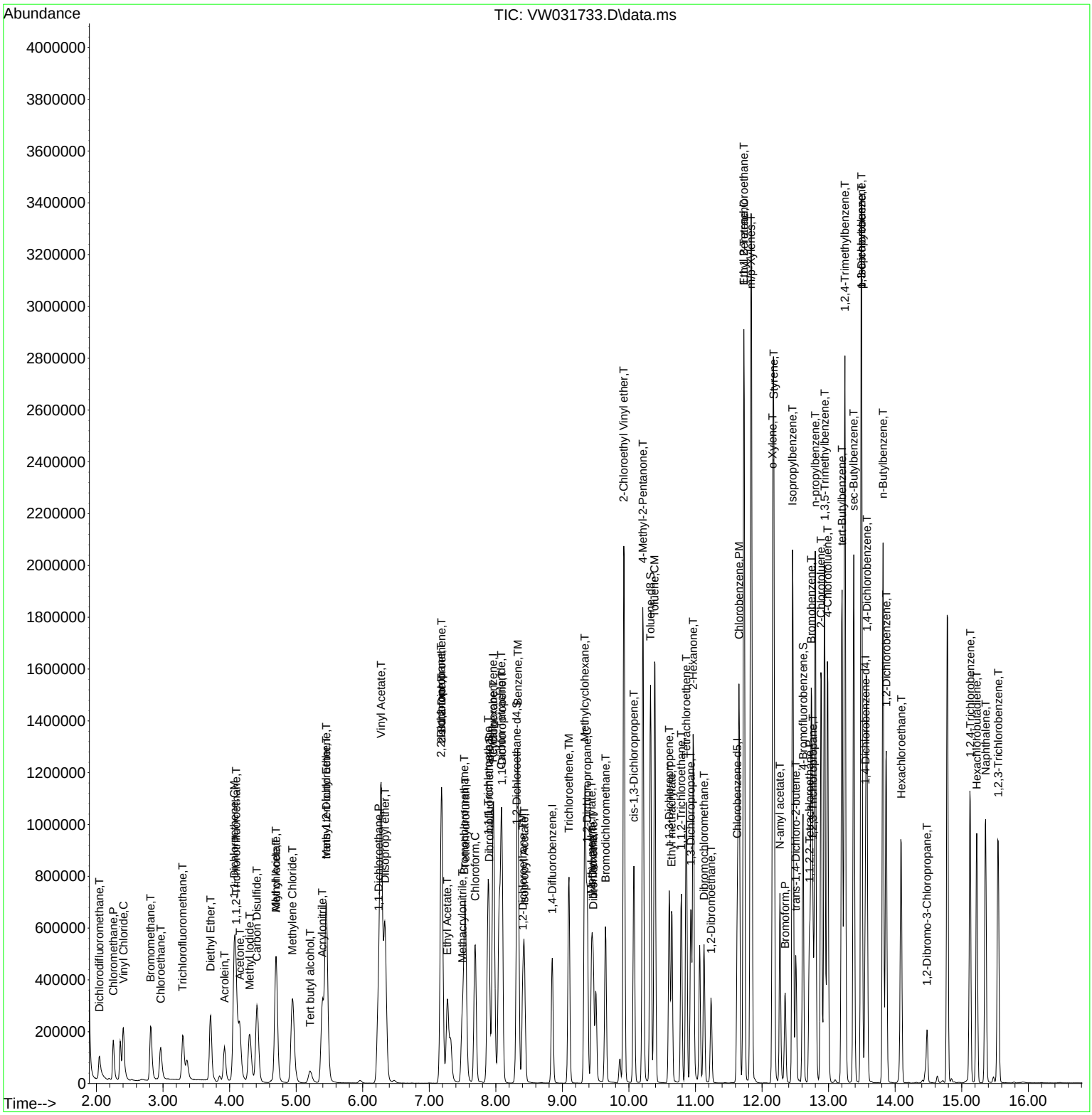
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031733.D
Acq On : 30 Jun 2025 12:34
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 02:20:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031734.D
Acq On : 30 Jun 2025 12:55
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	218767	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	399414	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	342661	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	157853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	450859	143.606	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 287.220%#			
35) Dibromofluoromethane	7.898	113	374365	143.636	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 287.280%#			
50) Toluene-d8	10.325	98	1429859	147.419	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 294.840%#			
62) 4-Bromofluorobenzene	12.617	95	519559	145.561	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 291.120%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	230089	154.434	ug/l	100
3) Chloromethane	2.259	50	286265	159.372	ug/l	100
4) Vinyl Chloride	2.405	62	358412	151.812	ug/l	97
5) Bromomethane	2.814	94	274101	148.641	ug/l	97
6) Chloroethane	2.966	64	244261	152.312	ug/l	99
7) Trichlorofluoromethane	3.301	101	358255	167.089	ug/l	96
8) Diethyl Ether	3.716	74	223268	137.038	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.106	101	347651	146.081	ug/l	98
10) Methyl Iodide	4.301	142	539018	146.918	ug/l	100
11) Tert butyl alcohol	5.222	59	146727	754.362	ug/l	97
12) 1,1-Dichloroethene	4.070	96	386108	148.119	ug/l	95
13) Acrolein	3.929	56	257205	735.736	ug/l	96
14) Allyl chloride	4.704	41	619915	154.996	ug/l	98
15) Acrylonitrile	5.399	53	594796	742.391	ug/l	99
16) Acetone	4.155	43	473412	606.303	ug/l	99
17) Carbon Disulfide	4.417	76	1071989	153.680	ug/l	98
18) Methyl Acetate	4.704	43	318399	143.565	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	648742	146.627	ug/l	98
20) Methylene Chloride	4.954	84	411070	150.156	ug/l	97
21) trans-1,2-Dichloroethene	5.453	96	412998	149.107	ug/l	97
22) Diisopropyl ether	6.337	45	1161324	148.881	ug/l	98
23) Vinyl Acetate	6.283	43	4186413	785.745	ug/l	100
24) 1,1-Dichloroethane	6.246	63	756841	149.658	ug/l	99
25) 2-Butanone	7.191	43	776184	768.838	ug/l	98
26) 2,2-Dichloropropane	7.191	77	441320	149.570	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	485495	152.485	ug/l	99
28) Bromochloromethane	7.532	49	321043	143.858	ug/l	97
29) Tetrahydrofuran	7.551	42	517793	748.936	ug/l	99
30) Chloroform	7.691	83	792676	147.511	ug/l	97
31) Cyclohexane	7.971	56	643550	143.962	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	629664	152.050	ug/l	99
36) 1,1-Dichloropropene	8.093	75	559803	148.429	ug/l	99
37) Ethyl Acetate	7.270	43	341691	143.618	ug/l	100
38) Carbon Tetrachloride	8.087	117	580610	151.072	ug/l	97
39) Methylcyclohexane	9.343	83	741380	157.996	ug/l	99
40) Benzene	8.337	78	1642494	147.198	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031734.D
Acq On : 30 Jun 2025 12:55
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	199650	156.650	ug/l		99
42) 1,2-Dichloroethane	8.410	62	533792	141.578	ug/l		99
43) Isopropyl Acetate	8.435	43	631057	153.874	ug/l		100
44) Trichloroethene	9.099	130	424322	152.358	ug/l		99
45) 1,2-Dichloropropane	9.373	63	390006	144.616	ug/l		98
46) Dibromomethane	9.465	93	251060	144.196	ug/l		99
47) Bromodichloromethane	9.648	83	610837	149.611	ug/l		99
48) Methyl methacrylate	9.441	41	306797	152.139	ug/l		99
49) 1,4-Dioxane	9.459	88	57850	3121.017	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.215	43	1721097	729.963	ug/l		99
52) Toluene	10.392	92	1076709	150.709	ug/l		95
53) t-1,3-Dichloropropene	10.605	75	598943	156.353	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	670647	154.433	ug/l		99
55) 1,1,2-Trichloroethane	10.788	97	326894	143.331	ug/l		97
56) Ethyl methacrylate	10.648	69	490690	158.587	ug/l		99
57) 1,3-Dichloropropane	10.934	76	570666	142.516	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	1297023	761.261	ug/l		100
59) 2-Hexanone	10.971	43	1192007	746.062	ug/l		99
60) Dibromochloromethane	11.129	129	413333	151.554	ug/l		98
61) 1,2-Dibromoethane	11.233	107	336847	147.535	ug/l		98
64) Tetrachloroethene	10.867	164	353130	157.549	ug/l		92
65) Chlorobenzene	11.660	112	1150958	152.237	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	375280	155.768	ug/l		99
67) Ethyl Benzene	11.733	91	2044338	155.940	ug/l		94
68) m/p-Xylenes	11.836	106	1571204	311.770	ug/l		98
69) o-Xylene	12.166	106	743731	159.389	ug/l		99
70) Styrene	12.178	104	1266593	157.015	ug/l		99
71) Bromoform	12.349	173	229439	159.639	ug/l	#	98
73) Isopropylbenzene	12.464	105	1956819	162.971	ug/l		99
74) N-amyl acetate	12.269	43	535843	165.571	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	403490	151.363	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	308804m	151.382	ug/l		
77) Bromobenzene	12.745	156	427085	159.479	ug/l		88
78) n-propylbenzene	12.800	91	2324539	161.670	ug/l		100
79) 2-Chlorotoluene	12.891	91	1366267	157.800	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	1593533	160.332	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	146143	166.866	ug/l		98
82) 4-Chlorotoluene	12.989	91	1410360	155.153	ug/l		98
83) tert-Butylbenzene	13.202	119	1418313	166.594	ug/l		96
84) 1,2,4-Trimethylbenzene	13.251	105	1609766	159.853	ug/l		99
85) sec-Butylbenzene	13.379	105	2077110	162.545	ug/l		99
86) p-Isopropyltoluene	13.495	119	1725089	163.804	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	815863	151.913	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	826448	150.344	ug/l		96
89) n-Butylbenzene	13.818	91	1662481	162.473	ug/l		99
90) Hexachloroethane	14.092	117	319664	168.248	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	740320	150.818	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	82484	158.471	ug/l		96
93) 1,2,4-Trichlorobenzene	15.129	180	486869	160.827	ug/l		97
94) Hexachlorobutadiene	15.226	225	231652	158.470	ug/l		93
95) Naphthalene	15.360	128	1256199	169.258	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	438342	157.584	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031734.D
Acq On : 30 Jun 2025 12:55
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 02:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

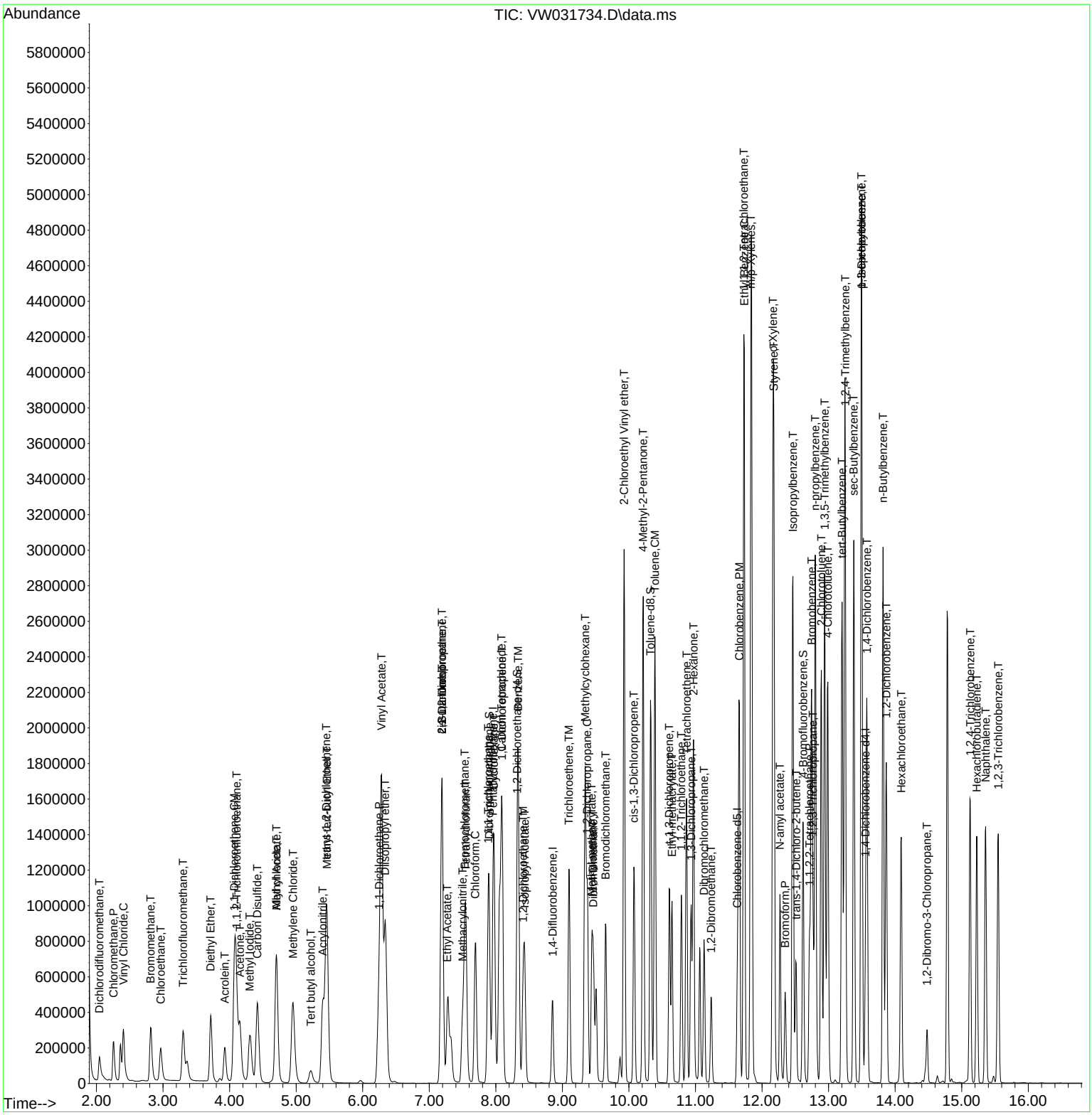
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031734.D
Acq On : 30 Jun 2025 12:55
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 02:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 02:17:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	228661	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	405093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	352363	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	172405	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	163826	49.923	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 99.840%			
35) Dibromofluoromethane	7.898	113	129810	49.107	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 98.220%			
50) Toluene-d8	10.324	98	497288	50.552	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.100%			
62) 4-Bromofluorobenzene	12.617	95	189206	52.265	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	79725	51.196	ug/l	99
3) Chloromethane	2.253	50	96206	51.243	ug/l	98
4) Vinyl Chloride	2.405	62	129034	52.290	ug/l	98
5) Bromomethane	2.820	94	94589	49.075	ug/l	100
6) Chloroethane	2.966	64	85126	50.785	ug/l	98
7) Trichlorofluoromethane	3.301	101	102813	45.877	ug/l	99
8) Diethyl Ether	3.716	74	85549	50.236	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.094	101	127184	51.130	ug/l	99
10) Methyl Iodide	4.307	142	196219	51.168	ug/l	99
11) Tert butyl alcohol	5.216	59	55596	273.466	ug/l	98
12) 1,1-Dichloroethene	4.069	96	139112	51.057	ug/l	95
13) Acrolein	3.923	56	87032	238.183	ug/l	97
14) Allyl chloride	4.697	41	223623	53.493	ug/l	99
15) Acrylonitrile	5.392	53	220336	263.111	ug/l	99
16) Acetone	4.155	43	207587	255.933	ug/l	99
17) Carbon Disulfide	4.417	76	372415	51.079	ug/l	99
18) Methyl Acetate	4.704	43	110627	47.723	ug/l	99
19) Methyl tert-butyl Ether	5.453	73	249430	53.936	ug/l	99
20) Methylene Chloride	4.947	84	165907	51.478	ug/l	99
21) trans-1,2-Dichloroethene	5.453	96	150128	51.856	ug/l	96
22) Diisopropyl ether	6.331	45	435531	53.419	ug/l	95
23) Vinyl Acetate	6.276	43	1558241	279.810	ug/l	98
24) 1,1-Dichloroethane	6.240	63	275659	52.150	ug/l	98
25) 2-Butanone	7.191	43	295677	280.206	ug/l	96
26) 2,2-Dichloropropane	7.179	77	158098	51.263	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	175371	52.697	ug/l	100
28) Bromochloromethane	7.526	49	118204	50.675	ug/l	99
29) Tetrahydrofuran	7.544	42	197209	272.901	ug/l	99
30) Chloroform	7.691	83	291107	51.829	ug/l	99
31) Cyclohexane	7.965	56	235145	50.326	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	226937	52.429	ug/l	99
36) 1,1-Dichloropropene	8.093	75	207537	54.256	ug/l	99
37) Ethyl Acetate	7.264	43	135668	56.224	ug/l	99
38) Carbon Tetrachloride	8.081	117	211131	54.165	ug/l	99
39) Methylcyclohexane	9.337	83	261262	54.897	ug/l	99
40) Benzene	8.331	78	600684	53.078	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	76710	59.345	ug/l		97
42) 1,2-Dichloroethane	8.410	62	201420	52.674	ug/l		99
43) Isopropyl Acetate	8.435	43	234518	56.382	ug/l		99
44) Trichloroethene	9.099	130	147985	52.391	ug/l		99
45) 1,2-Dichloropropane	9.373	63	142562	52.122	ug/l		95
46) Dibromomethane	9.465	93	92714	52.504	ug/l		98
47) Bromodichloromethane	9.648	83	222794	53.804	ug/l		99
48) Methyl methacrylate	9.440	41	119156	58.260	ug/l		94
49) 1,4-Dioxane	9.465	88	21984	1062.966	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.209	43	667473	279.124	ug/l		100
52) Toluene	10.392	92	394923	54.503	ug/l		96
53) t-1,3-Dichloropropene	10.605	75	217762	56.049	ug/l		96
54) cis-1,3-Dichloropropene	10.074	75	242935	55.157	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	124548	53.844	ug/l		98
56) Ethyl methacrylate	10.648	69	182604	58.189	ug/l		98
57) 1,3-Dichloropropane	10.934	76	211062	51.971	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.922	63	486398	281.479	ug/l		97
59) 2-Hexanone	10.971	43	458136	282.722	ug/l		100
60) Dibromochloromethane	11.129	129	149294	53.973	ug/l		98
61) 1,2-Dibromoethane	11.233	107	123748	53.440	ug/l		96
64) Tetrachloroethene	10.861	164	120824	52.421	ug/l		95
65) Chlorobenzene	11.653	112	423257	54.443	ug/l		92
66) 1,1,1,2-Tetrachloroethane	11.727	131	141650	57.176	ug/l		94
67) Ethyl Benzene	11.727	91	757105	56.161	ug/l		99
68) m/p-Xylenes	11.836	106	590281	113.903	ug/l		98
69) o-Xylene	12.166	106	274498	57.208	ug/l		98
70) Styrene	12.178	104	469288	56.574	ug/l		99
71) Bromoform	12.348	173	86209	58.331	ug/l		99
73) Isopropylbenzene	12.458	105	715943	54.594	ug/l		99
74) N-amyl acetate	12.269	43	207540	58.715	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	157354	54.047	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	118399m	53.142	ug/l		
77) Bromobenzene	12.745	156	164306	56.175	ug/l		85
78) n-propylbenzene	12.800	91	868816	55.325	ug/l		100
79) 2-Chlorotoluene	12.891	91	515508	54.514	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	610714	56.260	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.513	75	54787	57.276	ug/l		97
82) 4-Chlorotoluene	12.983	91	528072	53.189	ug/l		99
83) tert-Butylbenzene	13.202	119	502105	53.999	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	602889	54.815	ug/l		99
85) sec-Butylbenzene	13.379	105	773900	55.450	ug/l		100
86) p-Isopropyltoluene	13.495	119	639419	55.591	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	321218	54.762	ug/l		99
88) 1,4-Dichlorobenzene	13.574	146	316827	52.771	ug/l		97
89) n-Butylbenzene	13.818	91	630792	56.443	ug/l		100
90) Hexachloroethane	14.086	117	116309	56.049	ug/l		99
91) 1,2-Dichlorobenzene	13.866	146	290975	54.274	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	30797	54.174	ug/l		99
93) 1,2,4-Trichlorobenzene	15.122	180	190916	57.742	ug/l		97
94) Hexachlorobutadiene	15.226	225	92237	57.772	ug/l		91
95) Naphthalene	15.354	128	461350	56.915	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	174283	57.366	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

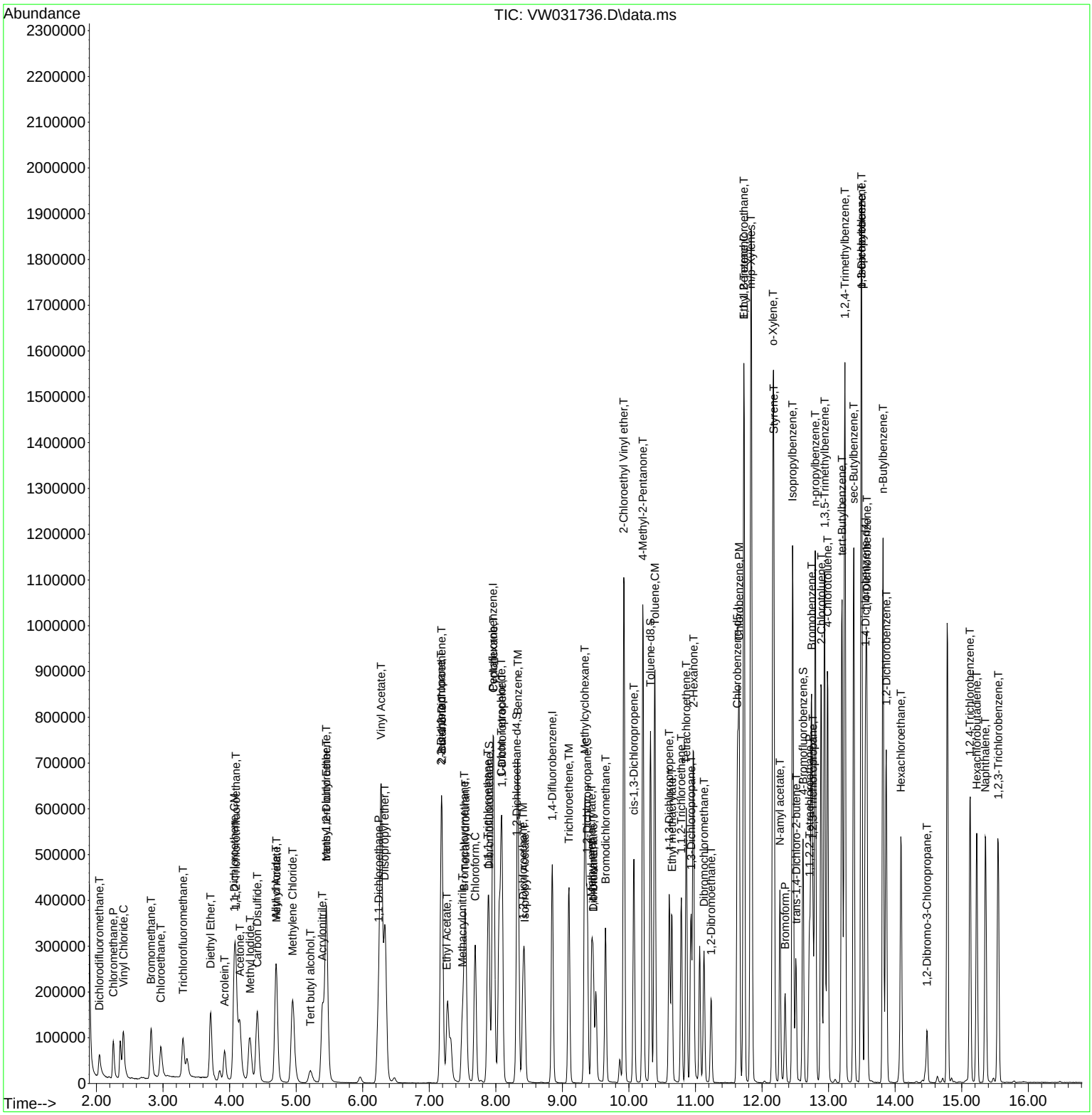
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/01/2025
Supervised By :Semsettin Yesilyurt 07/01/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	0.341	0.349	-2.3	115	0.00
3	P	Chloromethane	0.411	0.421	-2.4	114	0.00
4	C	Vinyl Chloride	0.540	0.564	-4.4#	112	0.00
5	T	Bromomethane	0.421	0.414	1.7	106	0.00
6	T	Chloroethane	0.367	0.372	-1.4	109	0.00
7	T	Trichlorofluoromethane	0.490	0.450	8.2	98	0.00
8	T	Diethyl Ether	0.372	0.374	-0.5	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.544	0.556	-2.2	111	-0.01
10	T	Methyl Iodide	0.839	0.858	-2.3	107	0.00
11	T	Tert butyl alcohol	0.044	0.049	-11.4	106	0.00
12	CM	1,1-Dichloroethene	0.596	0.608	-2.0#	112	0.00
13	T	Acrolein	0.080	0.076	5.0	93	0.00
14	T	Allyl chloride	0.914	0.978	-7.0	111	0.00
15	T	Acrylonitrile	0.183	0.193	-5.5	103	0.00
16	T	Acetone	0.177	0.182	-2.8	114	0.00
17	T	Carbon Disulfide	1.594	1.629	-2.2	108	0.00
18	T	Methyl Acetate	0.507	0.484	4.5	93	0.00
19	T	Methyl tert-butyl Ether	1.011	1.091	-7.9	108	0.00
20	T	Methylene Chloride	0.814	0.726	10.8	107	0.00
21	T	trans-1,2-Dichloroethene	0.633	0.657	-3.8	109	0.00
22	T	Diisopropyl ether	1.783	1.905	-6.8	108	-0.01
23	T	Vinyl Acetate	1.218	1.363	-11.9	111	0.00
24	P	1,1-Dichloroethane	1.156	1.206	-4.3	110	0.00
25	T	2-Butanone	0.231	0.259	-12.1	106	0.00
26	T	2,2-Dichloropropane	0.674	0.691	-2.5	107	-0.01
27	T	cis-1,2-Dichloroethene	0.728	0.767	-5.4	109	0.00
28	T	Bromochloromethane	0.510	0.517	-1.4	104	0.00
29	T	Tetrahydrofuran	0.158	0.172	-8.9	105	0.00
30	C	Chloroform	1.228	1.273	-3.7#	108	0.00
31	T	Cyclohexane	1.022	1.028	-0.6	112	0.00
32	T	1,1,1-Trichloroethane	0.946	0.992	-4.9	109	-0.01
33	S	1,2-Dichloroethane-d4	0.718	0.716	0.3	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.326	0.320	1.8	99	0.00
36	T	1,1-Dichloropropene	0.472	0.512	-8.5	112	0.00
37	T	Ethyl Acetate	0.298	0.335	-12.4	111	-0.01
38	T	Carbon Tetrachloride	0.481	0.521	-8.3	113	0.00
39	T	Methylcyclohexane	0.587	0.645	-9.9	114	0.00
40	TM	Benzene	1.397	1.483	-6.2	108	0.00
41	T	Methacrylonitrile	0.160	0.189	-18.1	109	0.00
42	TM	1,2-Dichloroethane	0.472	0.497	-5.3	107	0.00
43	T	Isopropyl Acetate	0.513	0.579	-12.9	108	0.00
44	TM	Trichloroethene	0.349	0.365	-4.6	106	0.00
45	C	1,2-Dichloropropane	0.338	0.352	-4.1#	106	0.00
46	T	Dibromomethane	0.218	0.229	-5.0	105	0.00
47	T	Bromodichloromethane	0.511	0.550	-7.6	108	0.00
48	T	Methyl methacrylate	0.252	0.294	-16.7	113	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	106	0.00
50	S	Toluene-d8	1.214	1.228	-1.2	102	0.00
51	T	4-Methyl-2-Pentanone	0.295	0.330	-11.9	105	0.00
52	CM	Toluene	0.894	0.975	-9.1#	111	0.00
53	T	t-1,3-Dichloropropene	0.480	0.538	-12.1	108	0.00
54	T	cis-1,3-Dichloropropene	0.544	0.600	-10.3	109	0.00
55	T	1,1,2-Trichloroethane	0.286	0.307	-7.3	108	0.00
56	T	Ethyl methacrylate	0.387	0.451	-16.5	110	0.00
57	T	1,3-Dichloropropane	0.501	0.521	-4.0	106	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.240	-12.7	107	0.00
59	T	2-Hexanone	0.200	0.226	-13.0	103	0.00
60	T	Dibromochloromethane	0.341	0.369	-8.2	105	0.00
61	T	1,2-Dibromoethane	0.286	0.305	-6.6	106	0.00
62	S	4-Bromofluorobenzene	0.447	0.467	-4.5	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.327	0.343	-4.9	106	0.00
65	PM	Chlorobenzene	1.103	1.201	-8.9	110	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.402	-14.2	111	0.00
67	C	Ethyl Benzene	1.913	2.149	-12.3#	110	0.00
68	T	m/p-Xylenes	0.735	0.838	-14.0	112	0.00
69	T	o-Xylene	0.681	0.779	-14.4	111	0.00
70	T	Styrene	1.177	1.332	-13.2	107	0.00
71	P	Bromoform	0.210	0.245	-16.7	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	3.803	4.153	-9.2	110	0.00
74	T	N-amyl acetate	1.025	1.204	-17.5	112	0.00
75	P	1,1,2,2-Tetrachloroethane	0.844	0.913	-8.2	107	0.00
76	T	1,2,3-Trichloropropane	0.646	0.687	-6.3	104	0.00
77	T	Bromobenzene	0.848	0.953	-12.4	121	0.00
78	T	n-propylbenzene	4.554	5.039	-10.6	112	0.00
79	T	2-Chlorotoluene	2.743	2.990	-9.0	110	0.00
80	T	1,3,5-Trimethylbenzene	3.148	3.542	-12.5	111	0.00
81	T	trans-1,4-Dichloro-2-butene	0.277	0.318	-14.8	108	0.00
82	T	4-Chlorotoluene	2.879	3.063	-6.4	107	0.00
83	T	tert-Butylbenzene	2.697	2.912	-8.0	110	0.00
84	T	1,2,4-Trimethylbenzene	3.190	3.497	-9.6	111	0.00
85	T	sec-Butylbenzene	4.048	4.489	-10.9	111	0.00
86	T	p-Isopropyltoluene	3.336	3.709	-11.2	112	0.00
87	T	1,3-Dichlorobenzene	1.701	1.863	-9.5	112	0.00
88	T	1,4-Dichlorobenzene	1.741	1.838	-5.6	107	0.00
89	T	n-Butylbenzene	3.241	3.659	-12.9	114	0.00
90	T	Hexachloroethane	0.602	0.675	-12.1	113	0.00
91	T	1,2-Dichlorobenzene	1.555	1.688	-8.6	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.165	0.179	-8.5	106	0.00
93	T	1,2,4-Trichlorobenzene	0.959	1.107	-15.4	117	0.00
94	T	Hexachlorobutadiene	0.463	0.535	-15.6	128	0.00
95	T	Naphthalene	2.351	2.676	-13.8	110	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.881	1.011	-14.8	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	50.000	51.196	-2.4	115	0.00
3	P	Chloromethane	50.000	51.243	-2.5	114	0.00
4	C	Vinyl Chloride	50.000	52.290	-4.6#	112	0.00
5	T	Bromomethane	50.000	49.075	1.8	106	0.00
6	T	Chloroethane	50.000	50.785	-1.6	109	0.00
7	T	Trichlorofluoromethane	50.000	45.877	8.2	98	0.00
8	T	Diethyl Ether	50.000	50.236	-0.5	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.130	-2.3	111	-0.01
10	T	Methyl Iodide	50.000	51.168	-2.3	107	0.00
11	T	Tert butyl alcohol	250.000	273.466	-9.4	106	0.00
12	CM	1,1-Dichloroethene	50.000	51.057	-2.1#	112	0.00
13	T	Acrolein	250.000	238.183	4.7	93	0.00
14	T	Allyl chloride	50.000	53.493	-7.0	111	0.00
15	T	Acrylonitrile	250.000	263.111	-5.2	103	0.00
16	T	Acetone	250.000	255.933	-2.4	114	0.00
17	T	Carbon Disulfide	50.000	51.079	-2.2	108	0.00
18	T	Methyl Acetate	50.000	47.723	4.6	93	0.00
19	T	Methyl tert-butyl Ether	50.000	53.936	-7.9	108	0.00
20	T	Methylene Chloride	50.000	51.478	-3.0	107	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.856	-3.7	109	0.00
22	T	Diisopropyl ether	50.000	53.419	-6.8	108	-0.01
23	T	Vinyl Acetate	250.000	279.810	-11.9	111	0.00
24	P	1,1-Dichloroethane	50.000	52.150	-4.3	110	0.00
25	T	2-Butanone	250.000	280.206	-12.1	106	0.00
26	T	2,2-Dichloropropane	50.000	51.263	-2.5	107	-0.01
27	T	cis-1,2-Dichloroethene	50.000	52.697	-5.4	109	0.00
28	T	Bromochloromethane	50.000	50.675	-1.3	104	0.00
29	T	Tetrahydrofuran	250.000	272.901	-9.2	105	0.00
30	C	Chloroform	50.000	51.829	-3.7#	108	0.00
31	T	Cyclohexane	50.000	50.326	-0.7	112	0.00
32	T	1,1,1-Trichloroethane	50.000	52.429	-4.9	109	-0.01
33	S	1,2-Dichloroethane-d4	50.000	49.923	0.2	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	49.107	1.8	99	0.00
36	T	1,1-Dichloropropene	50.000	54.256	-8.5	112	0.00
37	T	Ethyl Acetate	50.000	56.224	-12.4	111	-0.01
38	T	Carbon Tetrachloride	50.000	54.165	-8.3	113	0.00
39	T	Methylcyclohexane	50.000	54.897	-9.8	114	0.00
40	TM	Benzene	50.000	53.078	-6.2	108	0.00
41	T	Methacrylonitrile	50.000	59.345	-18.7	109	0.00
42	TM	1,2-Dichloroethane	50.000	52.674	-5.3	107	0.00
43	T	Isopropyl Acetate	50.000	56.382	-12.8	108	0.00
44	TM	Trichloroethene	50.000	52.391	-4.8	106	0.00
45	C	1,2-Dichloropropane	50.000	52.122	-4.2#	106	0.00
46	T	Dibromomethane	50.000	52.504	-5.0	105	0.00
47	T	Bromodichloromethane	50.000	53.804	-7.6	108	0.00
48	T	Methyl methacrylate	50.000	58.260	-16.5	113	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1062.966	-6.3	106	0.00
50	S	Toluene-d8	50.000	50.552	-1.1	102	0.00
51	T	4-Methyl-2-Pentanone	250.000	279.124	-11.6	105	0.00
52	CM	Toluene	50.000	54.503	-9.0#	111	0.00
53	T	t-1,3-Dichloropropene	50.000	56.049	-12.1	108	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.157	-10.3	109	0.00
55	T	1,1,2-Trichloroethane	50.000	53.844	-7.7	108	0.00
56	T	Ethyl methacrylate	50.000	58.189	-16.4	110	0.00
57	T	1,3-Dichloropropane	50.000	51.971	-3.9	106	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	281.479	-12.6	107	0.00
59	T	2-Hexanone	250.000	282.722	-13.1	103	0.00
60	T	Dibromochloromethane	50.000	53.973	-7.9	105	0.00
61	T	1,2-Dibromoethane	50.000	53.440	-6.9	106	0.00
62	S	4-Bromofluorobenzene	50.000	52.265	-4.5	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	52.421	-4.8	106	0.00
65	PM	Chlorobenzene	50.000	54.443	-8.9	110	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	57.176	-14.4	111	0.00
67	C	Ethyl Benzene	50.000	56.161	-12.3#	110	0.00
68	T	m/p-Xylenes	100.000	113.903	-13.9	112	0.00
69	T	o-Xylene	50.000	57.208	-14.4	111	0.00
70	T	Styrene	50.000	56.574	-13.1	107	0.00
71	P	Bromoform	50.000	58.331	-16.7	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	54.594	-9.2	110	0.00
74	T	N-amyl acetate	50.000	58.715	-17.4	112	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.047	-8.1	107	0.00
76	T	1,2,3-Trichloropropane	50.000	53.142	-6.3	104	0.00
77	T	Bromobenzene	50.000	56.175	-12.3	121	0.00
78	T	n-propylbenzene	50.000	55.325	-10.7	112	0.00
79	T	2-Chlorotoluene	50.000	54.514	-9.0	110	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.260	-12.5	111	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.276	-14.6	108	0.00
82	T	4-Chlorotoluene	50.000	53.189	-6.4	107	0.00
83	T	tert-Butylbenzene	50.000	53.999	-8.0	110	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.815	-9.6	111	0.00
85	T	sec-Butylbenzene	50.000	55.450	-10.9	111	0.00
86	T	p-Isopropyltoluene	50.000	55.591	-11.2	112	0.00
87	T	1,3-Dichlorobenzene	50.000	54.762	-9.5	112	0.00
88	T	1,4-Dichlorobenzene	50.000	52.771	-5.5	107	0.00
89	T	n-Butylbenzene	50.000	56.443	-12.9	114	0.00
90	T	Hexachloroethane	50.000	56.049	-12.1	113	0.00
91	T	1,2-Dichlorobenzene	50.000	54.274	-8.5	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.174	-8.3	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	57.742	-15.5	117	0.00
94	T	Hexachlorobutadiene	50.000	57.772	-15.5	128	0.00
95	T	Naphthalene	50.000	56.915	-13.8	110	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On : 30 Jun 2025 15:23
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW063025

Quant Time: Jul 01 03:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	57.366	-14.7	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2543

Instrument ID: MSVOA_W | Calibration Date/Time: 07/10/2025 08:47

Lab File ID: VW031791.D | Init. Calib. Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 09:54 12:55

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.341	0.332		-2.64	20
Chloromethane	0.411	0.420	0.1	2.19	20
Vinyl Chloride	0.540	0.564		4.44	20
Bromomethane	0.421	0.402		-4.51	20
Chloroethane	0.367	0.366		-0.27	20
Trichlorofluoromethane	0.490	0.492		0.41	20
1,1,2-Trichlorotrifluoroethane	0.544	0.551		1.29	20
1,1-Dichloroethene	0.596	0.602		1.01	20
Acetone	0.177	0.174		-1.7	20
Carbon Disulfide	1.594	1.572		-1.38	20
Methyl tert-butyl Ether	1.011	1.104		9.2	20
Methyl Acetate	0.507	0.519		2.37	20
Methylene Chloride	0.814	0.823		1.11	20
trans-1,2-Dichloroethene	0.633	0.640		1.11	20
1,1-Dichloroethane	1.156	1.209	0.1	4.59	20
Cyclohexane	1.022	1.029		0.69	20
2-Butanone	0.231	0.241		4.33	20
Carbon Tetrachloride	0.481	0.507		5.41	20
cis-1,2-Dichloroethene	0.728	0.766		5.22	20
Bromochloromethane	0.510	0.525		2.94	20
Chloroform	1.228	1.273		3.66	20
1,1,1-Trichloroethane	0.946	0.972		2.75	20
Methylcyclohexane	0.587	0.637		8.52	20
Benzene	1.397	1.483		6.16	20
1,2-Dichloroethane	0.472	0.498		5.51	20
Trichloroethene	0.349	0.349		0	20
1,2-Dichloropropane	0.338	0.363		7.4	20
Bromodichloromethane	0.511	0.559		9.39	20
4-Methyl-2-Pentanone	0.295	0.312		5.76	20
Toluene	0.894	0.967		8.17	20
t-1,3-Dichloropropene	0.480	0.540		12.5	20
cis-1,3-Dichloropropene	0.544	0.610		12.13	20
1,1,2-Trichloroethane	0.286	0.303		5.94	20
2-Hexanone	0.200	0.219		9.5	20
Dibromochloromethane	0.341	0.365		7.04	20
1,2-Dibromoethane	0.286	0.301		5.24	20
Tetrachloroethene	0.327	0.330		0.92	20
Chlorobenzene	1.103	1.194	0.3	8.25	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VW031791.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2543
Instrument ID: MSVOA_W
Calibration Date/Time: 07/10/2025 08:47
Lab File ID: VW031791.D
Init. Calib. Date(s): 06/30/2025 06/30/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 09:54 12:55
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.913	2.125		11.08	20
m/p-Xylenes	0.735	0.834		13.47	20
o-Xylene	0.681	0.781		14.68	20
Styrene	1.177	1.307		11.05	20
Bromoform	0.210	0.217	0.1	3.33	20
Isopropylbenzene	3.803	4.324		13.7	20
1,1,2,2-Tetrachloroethane	0.844	0.925	0.3	9.6	20
1,3-Dichlorobenzene	1.701	1.790		5.23	20
1,4-Dichlorobenzene	1.741	1.807		3.79	20
1,2-Dichlorobenzene	1.555	1.645		5.79	20
1,2-Dibromo-3-Chloropropane	0.165	0.173		4.85	20
1,2,4-Trichlorobenzene	0.959	1.053		9.8	20
1,2,3-Trichlorobenzene	0.881	0.966		9.65	20
1,2-Dichloroethane-d4	0.718	0.700		-2.51	20
Dibromofluoromethane	0.326	0.329		0.92	20
Toluene-d8	1.214	1.231		1.4	20
4-Bromofluorobenzene	0.447	0.459		2.68	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda
07/14/2025
Supervised By :Semsettin Yesilyurt
07/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	245114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	431816	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	372703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173821	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	171584	48.778	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 97.560%			
35) Dibromofluoromethane	7.898	113	142229	50.475	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.960%			
50) Toluene-d8	10.325	98	531723	50.707	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.420%			
62) 4-Bromofluorobenzene	12.617	95	197999	51.310	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.052	85	81335	48.724	ug/l	100
3) Chloromethane	2.259	50	103069	51.214	ug/l	99
4) Vinyl Chloride	2.411	62	138364	52.307	ug/l	97
5) Bromomethane	2.832	94	98437	47.643	ug/l	98
6) Chloroethane	2.972	64	89799	49.977	ug/l	97
7) Trichlorofluoromethane	3.308	101	120660	50.227	ug/l	99
8) Diethyl Ether	3.722	74	91609	50.184	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.112	101	135020	50.636	ug/l	99
10) Methyl Iodide	4.307	142	203278	49.451	ug/l	100
11) Tert butyl alcohol	5.216	59	51199	234.934	ug/l	95
12) 1,1-Dichloroethene	4.082	96	147549	50.519	ug/l	95
13) Acrolein	3.929	56	54976	140.356	ug/l	97
14) Allyl chloride	4.710	41	234241	52.272	ug/l	99
15) Acrylonitrile	5.399	53	219796	244.849	ug/l	100
16) Acetone	4.161	43	213330	245.359	ug/l	98
17) Carbon Disulfide	4.423	76	385360	49.307	ug/l	99
18) Methyl Acetate	4.710	43	127191	51.186	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	270710	54.609	ug/l	99
20) Methylene Chloride	4.954	84	201763	59.333	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	156753	50.510	ug/l	93
22) Diisopropyl ether	6.338	45	487890	55.824	ug/l	98
23) Vinyl Acetate	6.283	43	1595365	267.247	ug/l	100
24) 1,1-Dichloroethane	6.246	63	296292	52.291	ug/l	99
25) 2-Butanone	7.191	43	295099	260.886	ug/l	99
26) 2,2-Dichloropropane	7.185	77	168976	51.113	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	187769	52.636	ug/l	100
28) Bromochloromethane	7.532	49	128678	51.462	ug/l	99
29) Tetrahydrofuran	7.551	42	195918	252.916	ug/l	98
30) Chloroform	7.691	83	312149	51.845	ug/l	99
31) Cyclohexane	7.971	56	252208	50.354	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	238332	51.366	ug/l	99
36) 1,1-Dichloropropene	8.093	75	218825	53.667	ug/l	99
37) Ethyl Acetate	7.270	43	126413	49.147	ug/l	99
38) Carbon Tetrachloride	8.081	117	219039	52.716	ug/l	99
39) Methylcyclohexane	9.343	83	274893	54.187	ug/l	99
40) Benzene	8.337	78	640183	53.067	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda
07/14/2025
Supervised By :Semsettin Yesilyurt
07/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	74278	53.907	ug/l		96
42) 1,2-Dichloroethane	8.410	62	214834	52.705	ug/l		99
43) Isopropyl Acetate	8.435	43	235257	53.059	ug/l		99
44) Trichloroethene	9.099	130	150522	49.991	ug/l		96
45) 1,2-Dichloropropane	9.374	63	156663	53.733	ug/l		97
46) Dibromomethane	9.465	93	99819	53.029	ug/l		96
47) Bromodichloromethane	9.654	83	241552	54.724	ug/l		97
48) Methyl methacrylate	9.441	41	114242	52.401	ug/l		98
49) 1,4-Dioxane	9.465	88	23364	1059.780	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.209	43	674703	264.687	ug/l		100
52) Toluene	10.392	92	417758	54.087	ug/l		97
53) t-1,3-Dichloropropene	10.611	75	232972	56.253	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	263620	56.150	ug/l		99
55) 1,1,2-Trichloroethane	10.788	97	130782	53.040	ug/l		97
56) Ethyl methacrylate	10.648	69	191318	57.193	ug/l		98
57) 1,3-Dichloropropane	10.934	76	234750	54.227	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	424465	230.437	ug/l		97
59) 2-Hexanone	10.971	43	473151	273.918	ug/l		99
60) Dibromochloromethane	11.129	129	157563	53.437	ug/l		97
61) 1,2-Dibromoethane	11.239	107	129900	52.626	ug/l		99
64) Tetrachloroethene	10.861	164	123056	50.476	ug/l		92
65) Chlorobenzene	11.660	112	445036	54.120	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	143400	54.724	ug/l		100
67) Ethyl Benzene	11.727	91	791900	55.536	ug/l		99
68) m/p-Xylenes	11.837	106	621844	113.445	ug/l		97
69) o-Xylene	12.166	106	291178	57.372	ug/l		97
70) Styrene	12.178	104	487219	55.530	ug/l		99
71) Bromoform	12.349	173	80971	51.797	ug/l	#	99
73) Isopropylbenzene	12.458	105	751622	56.847	ug/l		100
74) N-amyl acetate	12.269	43	213716	59.970	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	160789	54.777	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	118719m	52.852	ug/l		
77) Bromobenzene	12.745	156	162590	55.136	ug/l		91
78) n-propylbenzene	12.800	91	919660	58.086	ug/l		98
79) 2-Chlorotoluene	12.891	91	543574	57.014	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	633002	57.838	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	54744	56.764	ug/l		98
82) 4-Chlorotoluene	12.989	91	560825	56.028	ug/l		98
83) tert-Butylbenzene	13.202	119	541064	57.715	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	635294	57.291	ug/l		99
85) sec-Butylbenzene	13.379	105	815956	57.987	ug/l		98
86) p-Isopropyltoluene	13.495	119	680929	58.717	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	311093	52.604	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	314021	51.878	ug/l		95
89) n-Butylbenzene	13.818	91	650184	57.705	ug/l		100
90) Hexachloroethane	14.092	117	114483	54.720	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	285982	52.908	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	14.482	75	30074	52.471	ug/l		94
93) 1,2,4-Trichlorobenzene	15.123	180	183110	54.930	ug/l		93
94) Hexachlorobutadiene	15.226	225	88681	55.092	ug/l		92
95) Naphthalene	15.360	128	458410	56.091	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	167959	54.834	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda
07/14/2025
Supervised By :Semsettin Yesilyurt
07/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

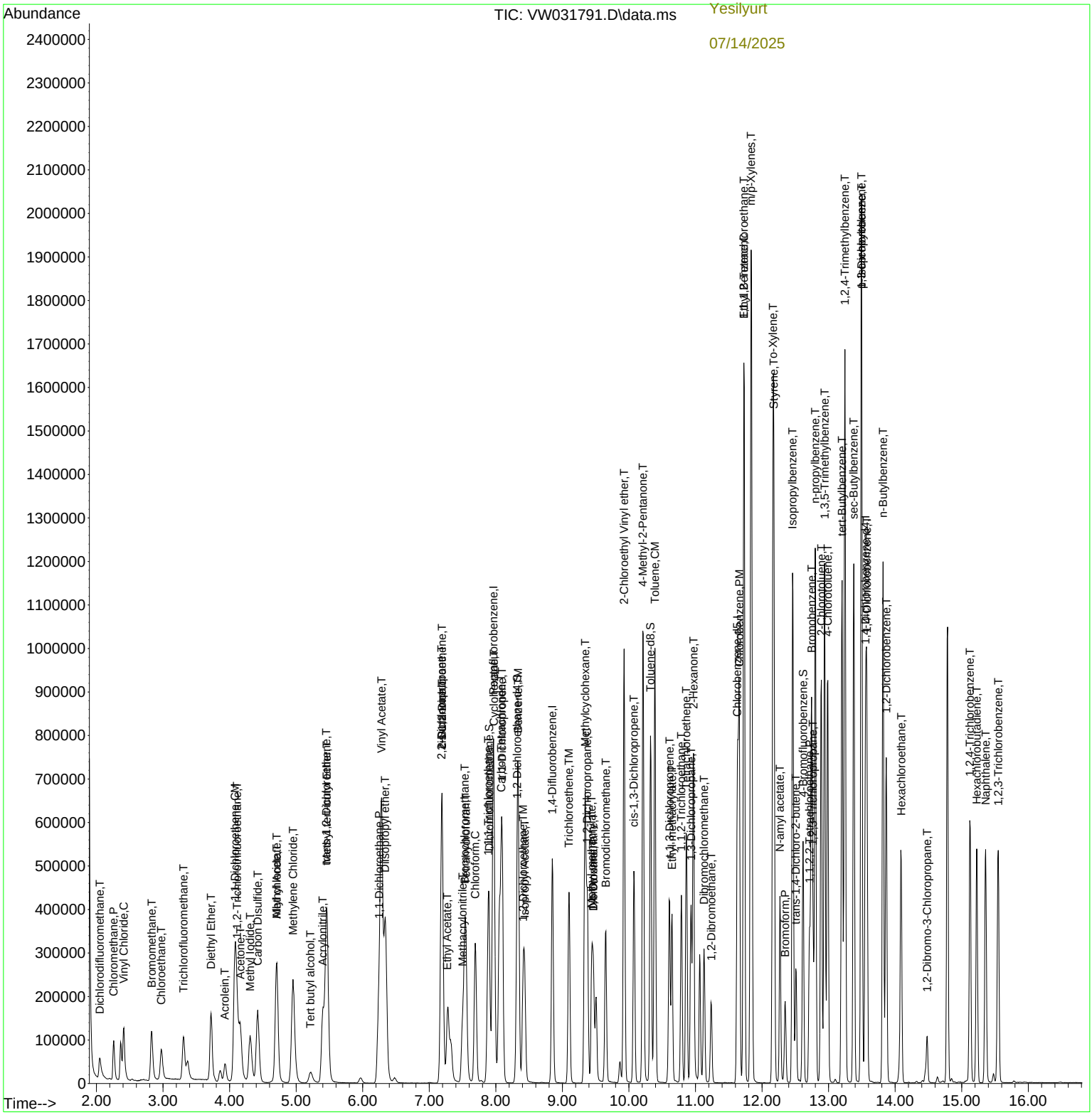
Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

07/14/2025

Supervised By :Semsettin Yesilyurt

07/14/2025



Evaluate Continuing Calibration Report

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.341	0.332	2.6	117	0.01
3	P	Chloromethane	0.411	0.420	-2.2	122	0.00
4	C	Vinyl Chloride	0.540	0.564	-4.4#	120	0.00
5	T	Bromomethane	0.421	0.402	4.5	111	0.00
6	T	Chloroethane	0.367	0.366	0.3	115	0.00
7	T	Trichlorofluoromethane	0.490	0.492	-0.4	115	0.00
8	T	Diethyl Ether	0.372	0.374	-0.5	115	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.544	0.551	-1.3	118	0.00
10	T	Methyl Iodide	0.839	0.829	1.2	111	0.00
11	T	Tert butyl alcohol	0.044	0.042	4.5	98	0.00
12	CM	1,1-Dichloroethene	0.596	0.602	-1.0#	118	0.00
13	T	Acrolein	0.080	0.045	43.8#	59	0.00
14	T	Allyl chloride	0.914	0.956	-4.6	117	0.00
15	T	Acrylonitrile	0.183	0.179	2.2	102	0.00
16	T	Acetone	0.177	0.174	1.7	117	0.00
17	T	Carbon Disulfide	1.594	1.572	1.4	112	0.00
18	T	Methyl Acetate	0.507	0.519	-2.4	107	0.00
19	T	Methyl tert-butyl Ether	1.011	1.104	-9.2	117	0.00
20	T	Methylene Chloride	0.814	0.823	-1.1	130	0.00
21	T	trans-1,2-Dichloroethene	0.633	0.640	-1.1	114	0.00
22	T	Diisopropyl ether	1.783	1.990	-11.6	121	0.00
23	T	Vinyl Acetate	1.218	1.302	-6.9	113	0.00
24	P	1,1-Dichloroethane	1.156	1.209	-4.6	118	0.00
25	T	2-Butanone	0.231	0.241	-4.3	106	0.00
26	T	2,2-Dichloropropane	0.674	0.689	-2.2	115	0.00
27	T	cis-1,2-Dichloroethene	0.728	0.766	-5.2	117	0.00
28	T	Bromochloromethane	0.510	0.525	-2.9	114	0.00
29	T	Tetrahydrofuran	0.158	0.160	-1.3	104	0.00
30	C	Chloroform	1.228	1.273	-3.7#	115	0.00
31	T	Cyclohexane	1.022	1.029	-0.7	120	0.00
32	T	1,1,1-Trichloroethane	0.946	0.972	-2.7	115	0.00
33	S	1,2-Dichloroethane-d4	0.718	0.700	2.5	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
35	S	Dibromofluoromethane	0.326	0.329	-0.9	108	0.00
36	T	1,1-Dichloropropene	0.472	0.507	-7.4	119	0.00
37	T	Ethyl Acetate	0.298	0.293	1.7	103	0.00
38	T	Carbon Tetrachloride	0.481	0.507	-5.4	117	0.00
39	T	Methylcyclohexane	0.587	0.637	-8.5	120	0.00
40	TM	Benzene	1.397	1.483	-6.2	115	0.00
41	T	Methacrylonitrile	0.160	0.172	-7.5	105	0.00
42	TM	1,2-Dichloroethane	0.472	0.498	-5.5	114	0.00
43	T	Isopropyl Acetate	0.513	0.545	-6.2	109	0.00
44	TM	Trichloroethene	0.349	0.349	0.0	108	0.00
45	C	1,2-Dichloropropane	0.338	0.363	-7.4#	117	0.00
46	T	Dibromomethane	0.218	0.231	-6.0	113	0.00
47	T	Bromodichloromethane	0.511	0.559	-9.4	117	0.00
48	T	Methyl methacrylate	0.252	0.265	-5.2	108	0.00

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	113	0.00
50	S	Toluene-d8	1.214	1.231	-1.4	109	0.00
51	T	4-Methyl-2-Pentanone	0.295	0.312	-5.8	107	0.00
52	CM	Toluene	0.894	0.967	-8.2#	118	0.00
53	T	t-1,3-Dichloropropene	0.480	0.540	-12.5	116	0.00
54	T	cis-1,3-Dichloropropene	0.544	0.610	-12.1	119	0.00
55	T	1,1,2-Trichloroethane	0.286	0.303	-5.9	113	0.00
56	T	Ethyl methacrylate	0.387	0.443	-14.5	115	0.00
57	T	1,3-Dichloropropane	0.501	0.544	-8.6	118	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.197	7.5	93	0.00
59	T	2-Hexanone	0.200	0.219	-9.5	107	0.00
60	T	Dibromochloromethane	0.341	0.365	-7.0	110	0.00
61	T	1,2-Dibromoethane	0.286	0.301	-5.2	111	0.00
62	S	4-Bromofluorobenzene	0.447	0.459	-2.7	109	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.327	0.330	-0.9	108	0.00
65	PM	Chlorobenzene	1.103	1.194	-8.3	115	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.385	-9.4	113	0.00
67	C	Ethyl Benzene	1.913	2.125	-11.1#	116	0.00
68	T	m/p-Xylenes	0.735	0.834	-13.5	118	0.00
69	T	o-Xylene	0.681	0.781	-14.7	117	0.00
70	T	Styrene	1.177	1.307	-11.0	111	0.00
71	P	Bromoform	0.210	0.217	-3.3	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.803	4.324	-13.7	116	0.00
74	T	N-amyl acetate	1.025	1.230	-20.0	115	0.00
75	P	1,1,2,2-Tetrachloroethane	0.844	0.925	-9.6	109	0.00
76	T	1,2,3-Trichloropropane	0.646	0.683	-5.7	104	0.00
77	T	Bromobenzene	0.848	0.935	-10.3	119	0.00
78	T	n-propylbenzene	4.554	5.291	-16.2	118	0.00
79	T	2-Chlorotoluene	2.743	3.127	-14.0	116	0.00
80	T	1,3,5-Trimethylbenzene	3.148	3.642	-15.7	115	0.00
81	T	trans-1,4-Dichloro-2-butene	0.277	0.315	-13.7	108	0.00
82	T	4-Chlorotoluene	2.879	3.226	-12.1	114	0.00
83	T	tert-Butylbenzene	2.697	3.113	-15.4	119	0.00
84	T	1,2,4-Trimethylbenzene	3.190	3.655	-14.6	117	0.00
85	T	sec-Butylbenzene	4.048	4.694	-16.0	117	0.00
86	T	p-Isopropyltoluene	3.336	3.917	-17.4	119	0.00
87	T	1,3-Dichlorobenzene	1.701	1.790	-5.2	109	0.00
88	T	1,4-Dichlorobenzene	1.741	1.807	-3.8	106	0.00
89	T	n-Butylbenzene	3.241	3.741	-15.4	117	0.00
90	T	Hexachloroethane	0.602	0.659	-9.5	111	0.00
91	T	1,2-Dichlorobenzene	1.555	1.645	-5.8	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.165	0.173	-4.8	104	0.00
93	T	1,2,4-Trichlorobenzene	0.959	1.053	-9.8	113	0.00
94	T	Hexachlorobutadiene	0.463	0.510	-10.2	123	0.00
95	T	Naphthalene	2.351	2.637	-12.2	110	0.00

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.881	0.966	-9.6	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	48.724	2.6	117	0.01
3	P	Chloromethane	50.000	51.214	-2.4	122	0.00
4	C	Vinyl Chloride	50.000	52.307	-4.6#	120	0.00
5	T	Bromomethane	50.000	47.643	4.7	111	0.00
6	T	Chloroethane	50.000	49.977	0.0	115	0.00
7	T	Trichlorofluoromethane	50.000	50.227	-0.5	115	0.00
8	T	Diethyl Ether	50.000	50.184	-0.4	115	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.636	-1.3	118	0.00
10	T	Methyl Iodide	50.000	49.451	1.1	111	0.00
11	T	Tert butyl alcohol	250.000	234.934	6.0	98	0.00
12	CM	1,1-Dichloroethene	50.000	50.519	-1.0#	118	0.00
13	T	Acrolein	250.000	140.356	43.9#	59	0.00
14	T	Allyl chloride	50.000	52.272	-4.5	117	0.00
15	T	Acrylonitrile	250.000	244.849	2.1	102	0.00
16	T	Acetone	250.000	245.359	1.9	117	0.00
17	T	Carbon Disulfide	50.000	49.307	1.4	112	0.00
18	T	Methyl Acetate	50.000	51.186	-2.4	107	0.00
19	T	Methyl tert-butyl Ether	50.000	54.609	-9.2	117	0.00
20	T	Methylene Chloride	50.000	59.333	-18.7	130	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.510	-1.0	114	0.00
22	T	Diisopropyl ether	50.000	55.824	-11.6	121	0.00
23	T	Vinyl Acetate	250.000	267.247	-6.9	113	0.00
24	P	1,1-Dichloroethane	50.000	52.291	-4.6	118	0.00
25	T	2-Butanone	250.000	260.886	-4.4	106	0.00
26	T	2,2-Dichloropropane	50.000	51.113	-2.2	115	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.636	-5.3	117	0.00
28	T	Bromochloromethane	50.000	51.462	-2.9	114	0.00
29	T	Tetrahydrofuran	250.000	252.916	-1.2	104	0.00
30	C	Chloroform	50.000	51.845	-3.7#	115	0.00
31	T	Cyclohexane	50.000	50.354	-0.7	120	0.00
32	T	1,1,1-Trichloroethane	50.000	51.366	-2.7	115	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.778	2.4	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	107	0.00
35	S	Dibromofluoromethane	50.000	50.475	-1.0	108	0.00
36	T	1,1-Dichloropropene	50.000	53.667	-7.3	119	0.00
37	T	Ethyl Acetate	50.000	49.147	1.7	103	0.00
38	T	Carbon Tetrachloride	50.000	52.716	-5.4	117	0.00
39	T	Methylcyclohexane	50.000	54.187	-8.4	120	0.00
40	TM	Benzene	50.000	53.067	-6.1	115	0.00
41	T	Methacrylonitrile	50.000	53.907	-7.8	105	0.00
42	TM	1,2-Dichloroethane	50.000	52.705	-5.4	114	0.00
43	T	Isopropyl Acetate	50.000	53.059	-6.1	109	0.00
44	TM	Trichloroethene	50.000	49.991	0.0	108	0.00
45	C	1,2-Dichloropropane	50.000	53.733	-7.5#	117	0.00
46	T	Dibromomethane	50.000	53.029	-6.1	113	0.00
47	T	Bromodichloromethane	50.000	54.724	-9.4	117	0.00
48	T	Methyl methacrylate	50.000	52.401	-4.8	108	0.00

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1059.780	-6.0	113	0.00
50	S	Toluene-d8	50.000	50.707	-1.4	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	264.687	-5.9	107	0.00
52	CM	Toluene	50.000	54.087	-8.2#	118	0.00
53	T	t-1,3-Dichloropropene	50.000	56.253	-12.5	116	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.150	-12.3	119	0.00
55	T	1,1,2-Trichloroethane	50.000	53.040	-6.1	113	0.00
56	T	Ethyl methacrylate	50.000	57.193	-14.4	115	0.00
57	T	1,3-Dichloropropane	50.000	54.227	-8.5	118	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	230.437	7.8	93	0.00
59	T	2-Hexanone	250.000	273.918	-9.6	107	0.00
60	T	Dibromochloromethane	50.000	53.437	-6.9	110	0.00
61	T	1,2-Dibromoethane	50.000	52.626	-5.3	111	0.00
62	S	4-Bromofluorobenzene	50.000	51.310	-2.6	109	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	50.476	-1.0	108	0.00
65	PM	Chlorobenzene	50.000	54.120	-8.2	115	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.724	-9.4	113	0.00
67	C	Ethyl Benzene	50.000	55.536	-11.1#	116	0.00
68	T	m/p-Xylenes	100.000	113.445	-13.4	118	0.00
69	T	o-Xylene	50.000	57.372	-14.7	117	0.00
70	T	Styrene	50.000	55.530	-11.1	111	0.00
71	P	Bromoform	50.000	51.797	-3.6	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	56.847	-13.7	116	0.00
74	T	N-amyl acetate	50.000	59.970	-19.9	115	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.777	-9.6	109	0.00
76	T	1,2,3-Trichloropropane	50.000	52.852	-5.7	104	0.00
77	T	Bromobenzene	50.000	55.136	-10.3	119	0.00
78	T	n-propylbenzene	50.000	58.086	-16.2	118	0.00
79	T	2-Chlorotoluene	50.000	57.014	-14.0	116	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.838	-15.7	115	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	56.764	-13.5	108	0.00
82	T	4-Chlorotoluene	50.000	56.028	-12.1	114	0.00
83	T	tert-Butylbenzene	50.000	57.715	-15.4	119	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.291	-14.6	117	0.00
85	T	sec-Butylbenzene	50.000	57.987	-16.0	117	0.00
86	T	p-Isopropyltoluene	50.000	58.717	-17.4	119	0.00
87	T	1,3-Dichlorobenzene	50.000	52.604	-5.2	109	0.00
88	T	1,4-Dichlorobenzene	50.000	51.878	-3.8	106	0.00
89	T	n-Butylbenzene	50.000	57.705	-15.4	117	0.00
90	T	Hexachloroethane	50.000	54.720	-9.4	111	0.00
91	T	1,2-Dichlorobenzene	50.000	52.908	-5.8	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.471	-4.9	104	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.930	-9.9	113	0.00
94	T	Hexachlorobutadiene	50.000	55.092	-10.2	123	0.00
95	T	Naphthalene	50.000	56.091	-12.2	110	0.00

Sample Results: **VW031791.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031791.D
Acq On : 10 Jul 2025 08:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.834	-9.7	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

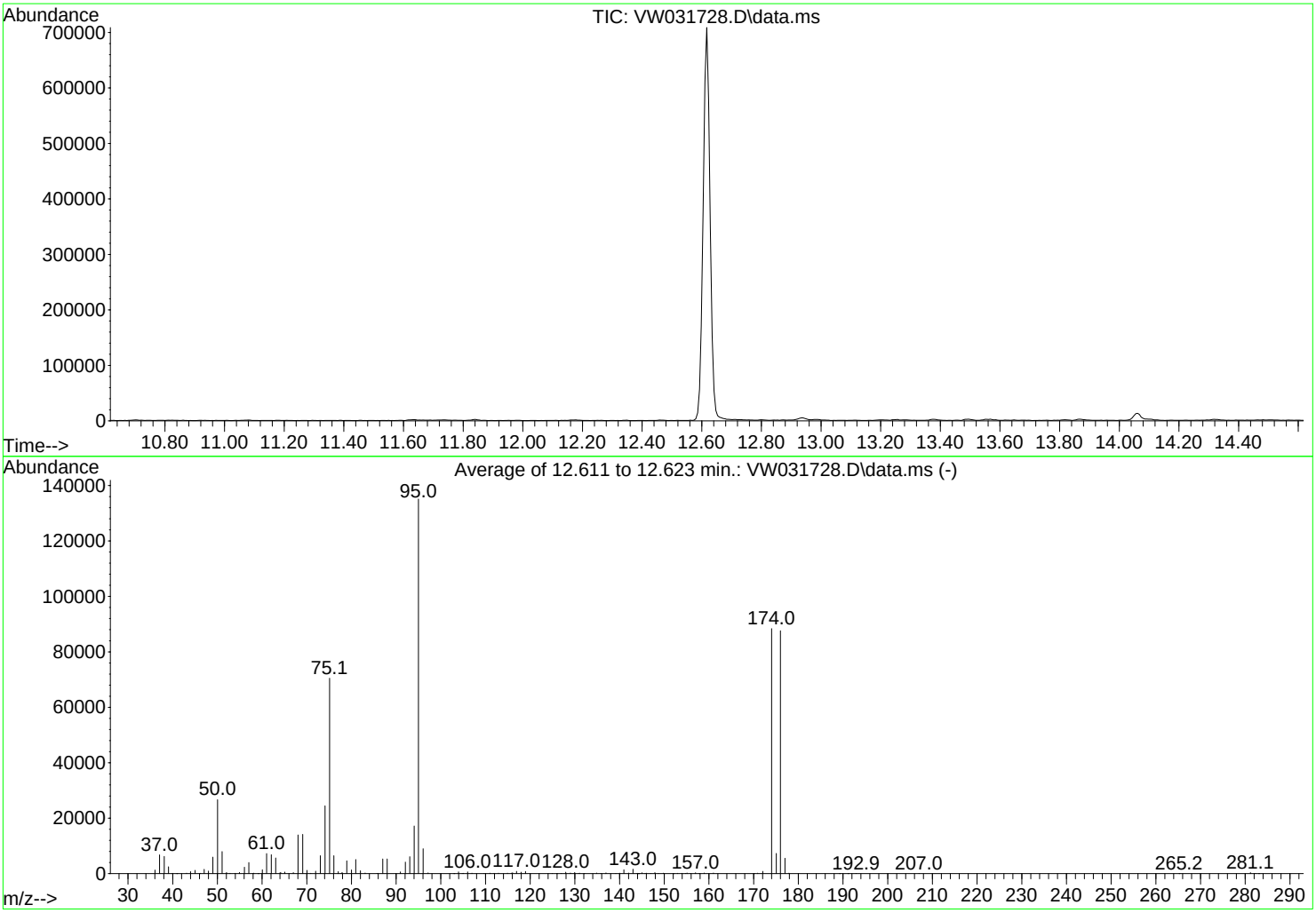
Sample Results: **VW031728.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031728.D
Acq On : 30 Jun 2025 08:56
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260
Last Update : Tue Jul 01 03:35:17 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	26685	PASS
75	95	30	60	52.1	70472	PASS
95	95	100	100	100.0	135149	PASS
96	95	5	9	6.7	8992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.4	88384	PASS
175	174	5	9	8.2	7275	PASS
176	174	95	101	99.2	87643	PASS
177	176	5	9	6.3	5529	PASS

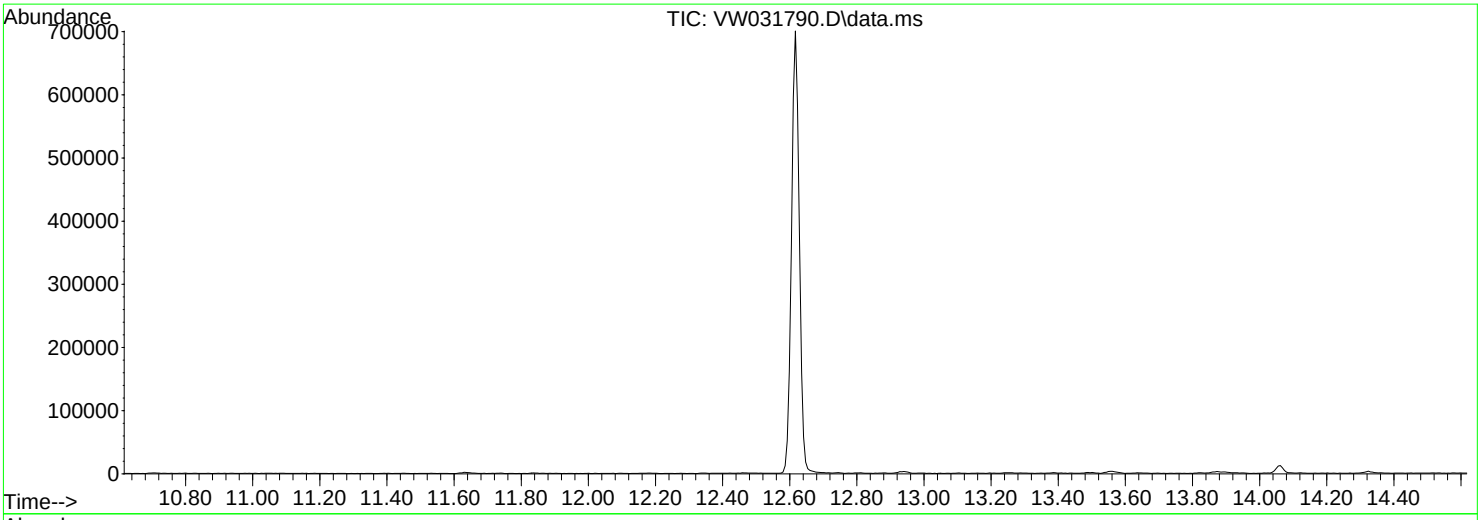
Sample Results: **VW031790.D**

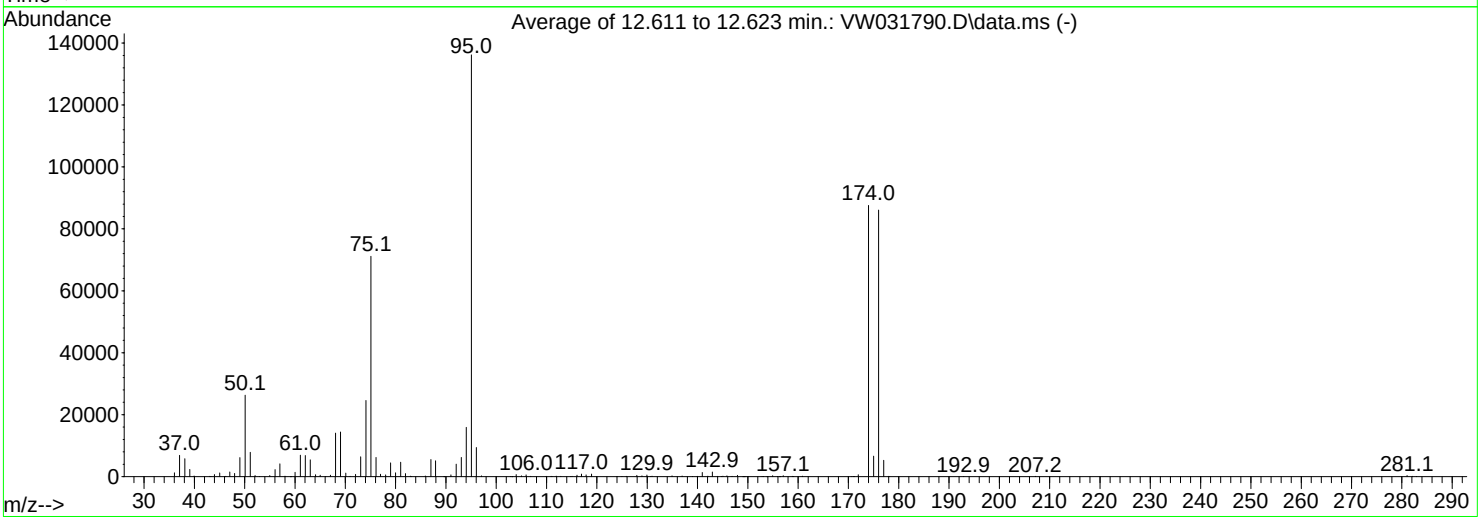
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031790.D
Acq On : 10 Jul 2025 08:16
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260
Last Update : Tue Jul 01 03:35:17 2025





AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	26320	PASS
75	95	30	60	52.2	71152	PASS
95	95	100	100	100.0	136197	PASS
96	95	5	9	6.9	9431	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.3	87584	PASS
175	174	5	9	7.6	6647	PASS
176	174	95	101	98.3	86056	PASS
177	176	5	9	6.1	5274	PASS

Raw Data: **VW031792.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	45.5		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		17 - 146	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.959			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	369000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	172000	13.556			

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031792.D	1	07/10/25 10:15	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Quant Time: Jul 11 02:15:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	178449	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	403423	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	368923	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	171872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	143086	55.872	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 111.740%			
35) Dibromofluoromethane	7.898	113	121172	46.029	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 92.060%			
50) Toluene-d8	10.325	98	445433	45.468	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 90.940%			
62) 4-Bromofluorobenzene	12.617	95	164288	45.570	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 91.140%			
Target Compounds						Qvalue

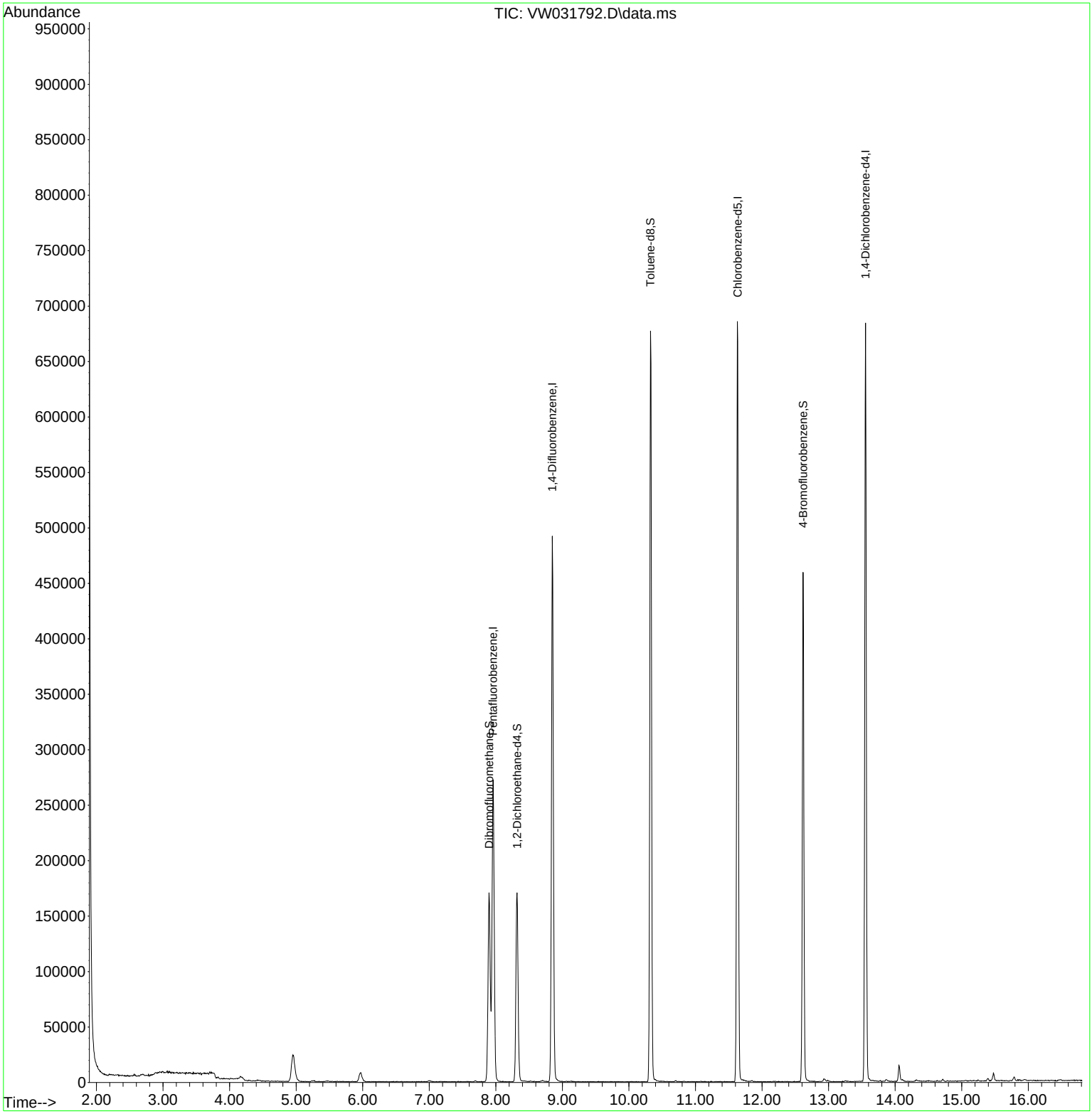
(#) = qualifier out of range (m) = manual integration (+) = signals summed

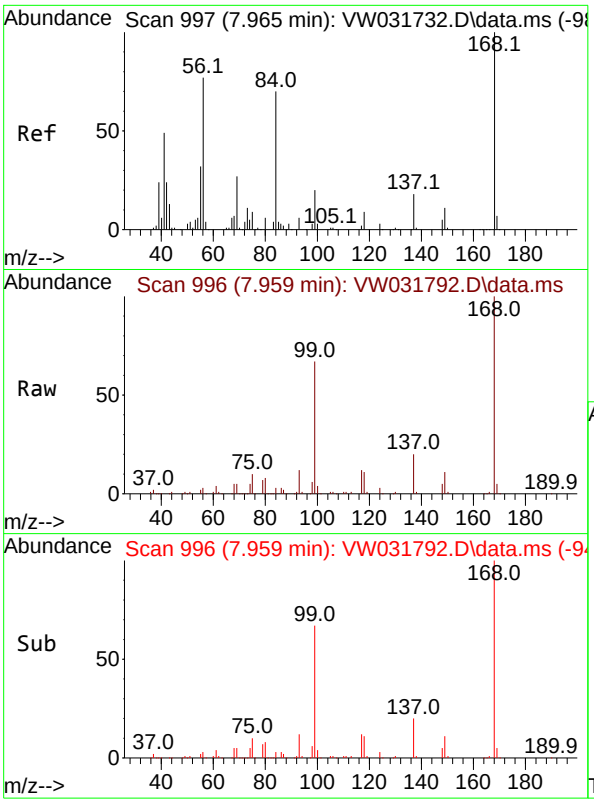
Sample Results: **VW031792.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Quant Time: Jul 11 02:15:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



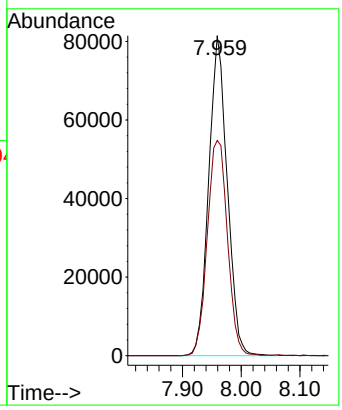


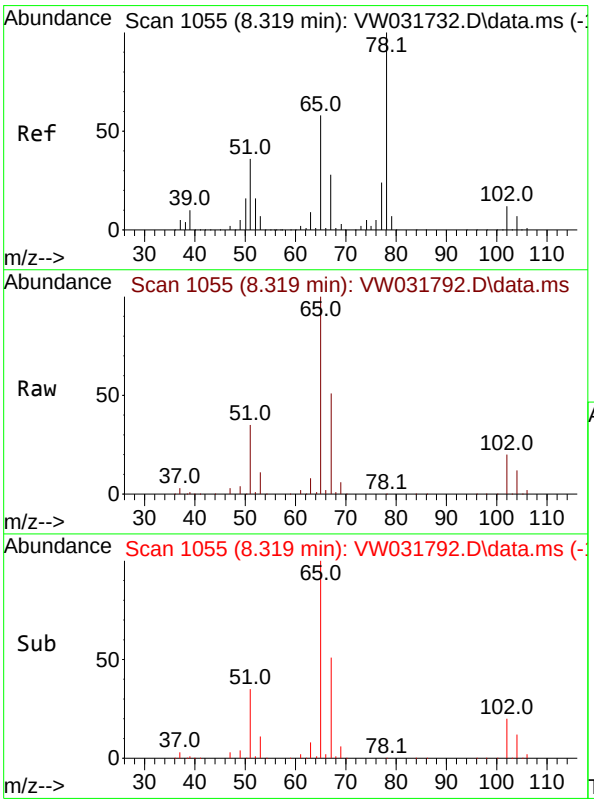
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Tgt Ion:168 Resp: 178449

Ion	Ratio	Lower	Upper
168	100		
99	67.2	49.4	74.2

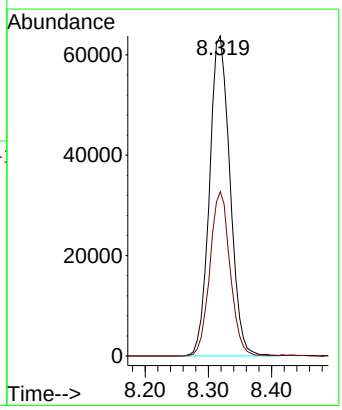


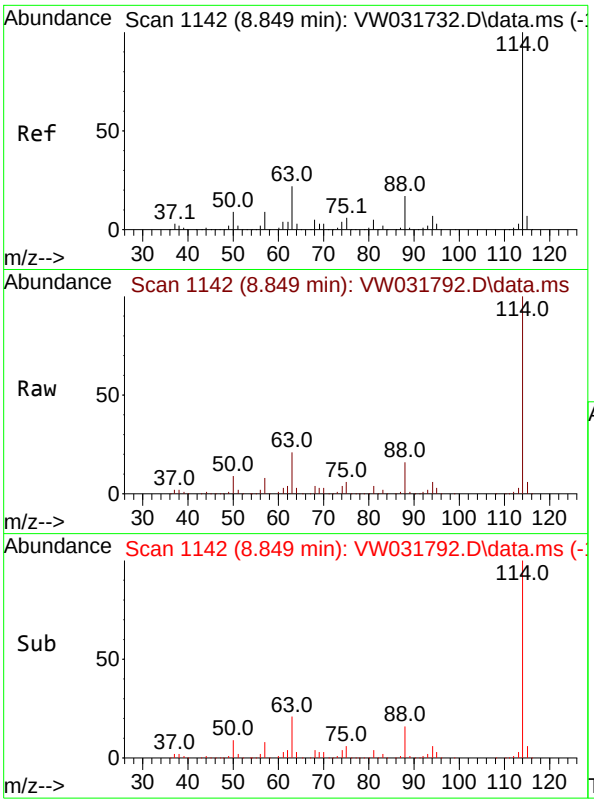


#33
1,2-Dichloroethane-d4
Concen: 55.872 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Tgt Ion: 65 Resp: 143086

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	99.4



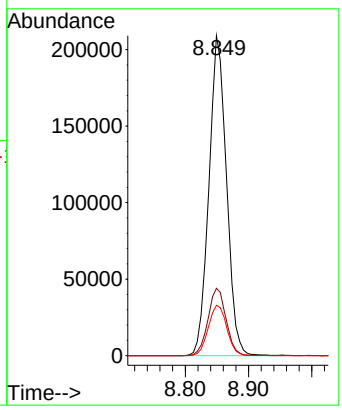


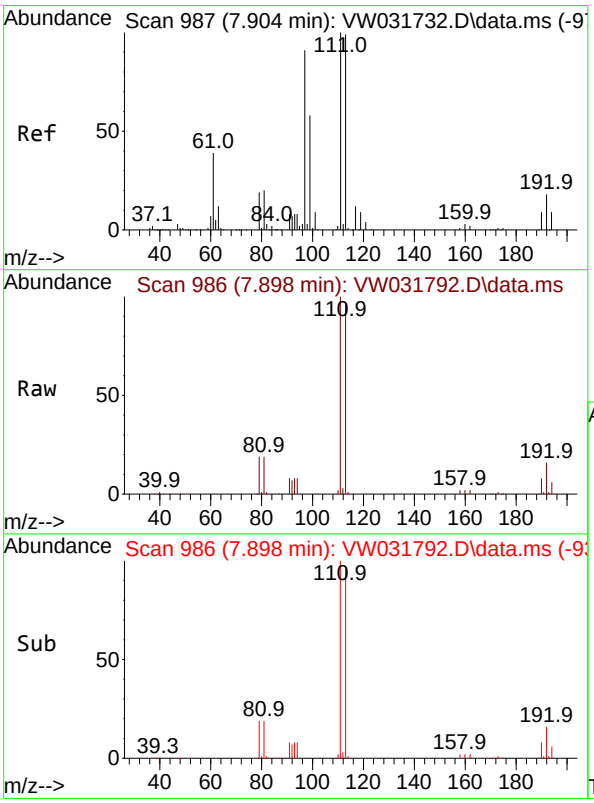
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Tgt Ion:114 Resp: 403423

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.6
88	15.7	0.0	34.2

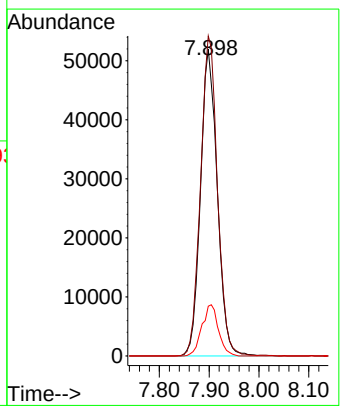


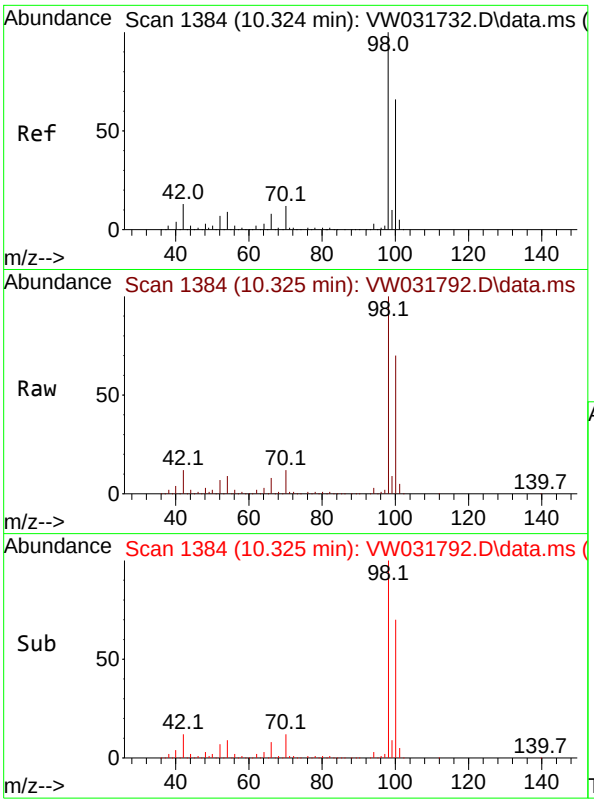


#35
Dibromofluoromethane
Concen: 46.029 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Tgt Ion:113 Resp: 121172

Ion	Ratio	Lower	Upper
113	100		
111	105.3	82.1	123.1
192	16.5	13.8	20.6



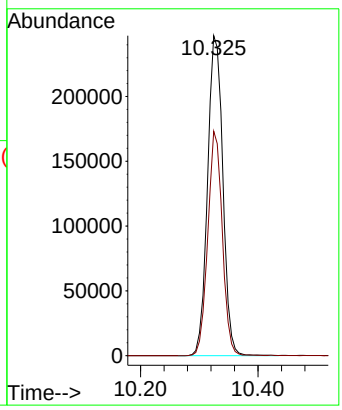


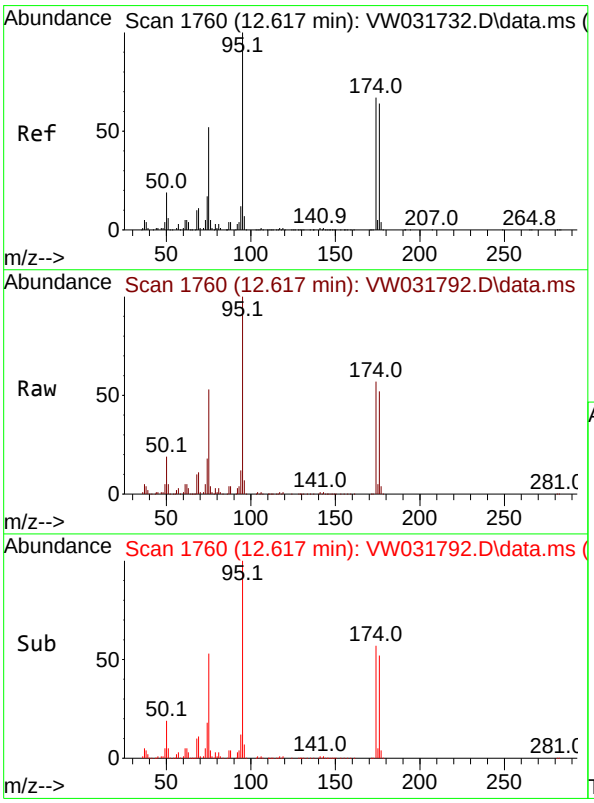
#50
Toluene-d8
Concen: 45.468 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Tgt Ion: 98 Resp: 445433

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

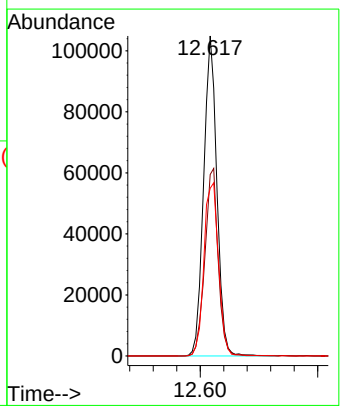


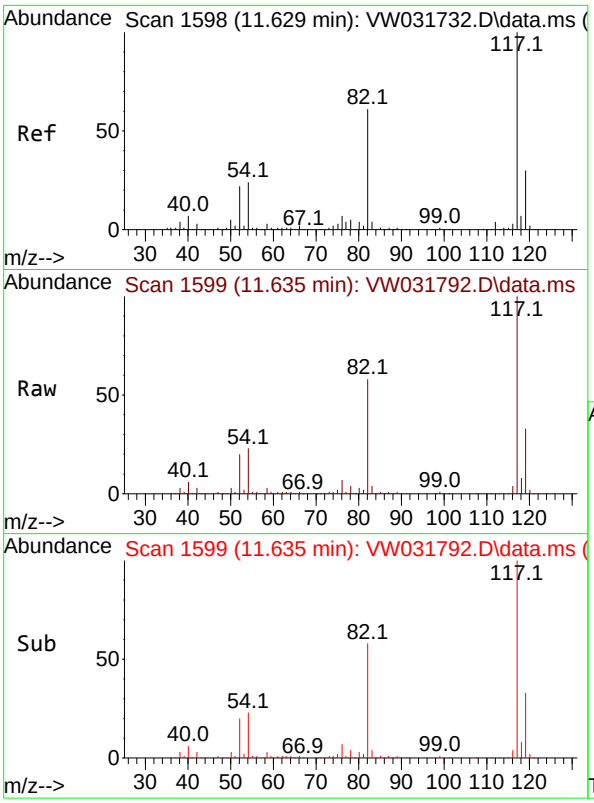


#62
4-Bromofluorobenzene
Concen: 45.570 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Tgt Ion: 95 Resp: 164288

Ion	Ratio	Lower	Upper
95	100		
174	59.0	0.0	133.8
176	59.7	0.0	126.0



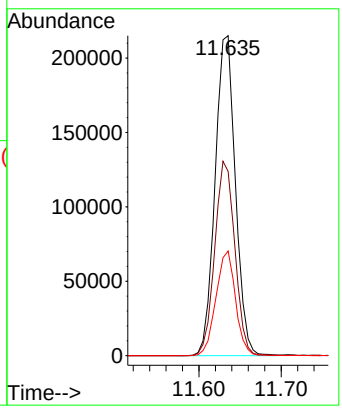


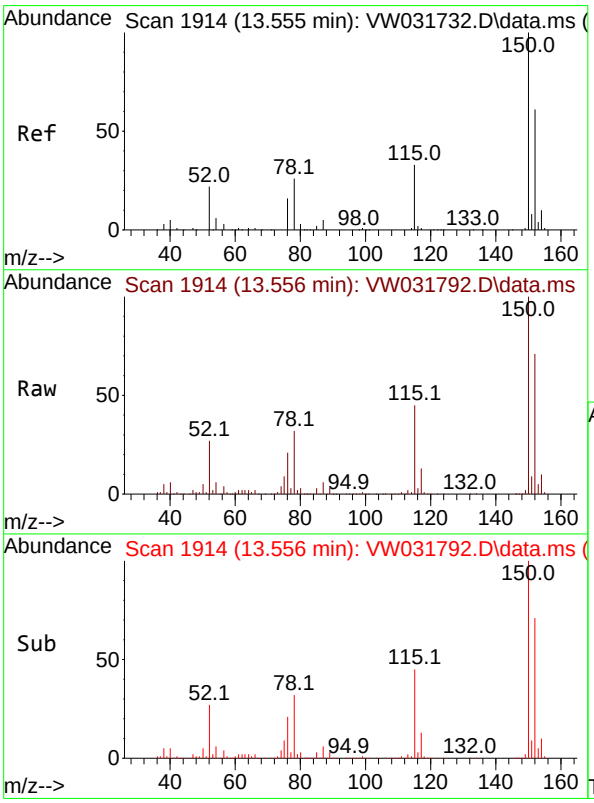
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Tgt Ion:117 Resp: 368923

Ion	Ratio	Lower	Upper
117	100		
82	57.6	48.6	72.8
119	32.7	23.9	35.9

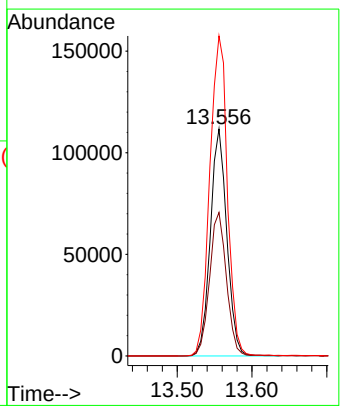




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

Tgt Ion:152 Resp: 171872

Ion	Ratio	Lower	Upper
152	100		
115	64.8	31.9	95.7
150	150.4	0.0	356.4



Sample Results: **VW031792.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Title : SW846 8260

Signal : TIC: VW031792.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.948	490	502	523	rBV3	23913	90435	7.51%	1.341%
2	5.972	660	670	677	rBV3	8013	24417	2.03%	0.362%
3	7.898	974	986	991	rBV2	170401	405437	33.68%	6.012%
4	7.959	991	996	1011	rVB	272086	601483	49.97%	8.919%
5	8.319	1044	1055	1070	rBV	170632	387344	32.18%	5.744%
6	8.849	1132	1142	1158	rBV	491862	974114	80.93%	14.444%
7	10.325	1376	1384	1395	rBV	676862	1203627	100.00%	17.847%
8	11.629	1591	1598	1609	rBV	685450	1181921	98.20%	17.526%
9	12.617	1752	1760	1771	rBV2	459123	740181	61.50%	10.975%
10	13.556	1907	1914	1922	rBV	683716	1096595	91.11%	16.260%
11	14.056	1990	1996	2004	rBV2	14525	26196	2.18%	0.388%
12	15.476	2222	2229	2234	rBV	6955	12247	1.02%	0.182%

Sum of corrected areas: 6743997

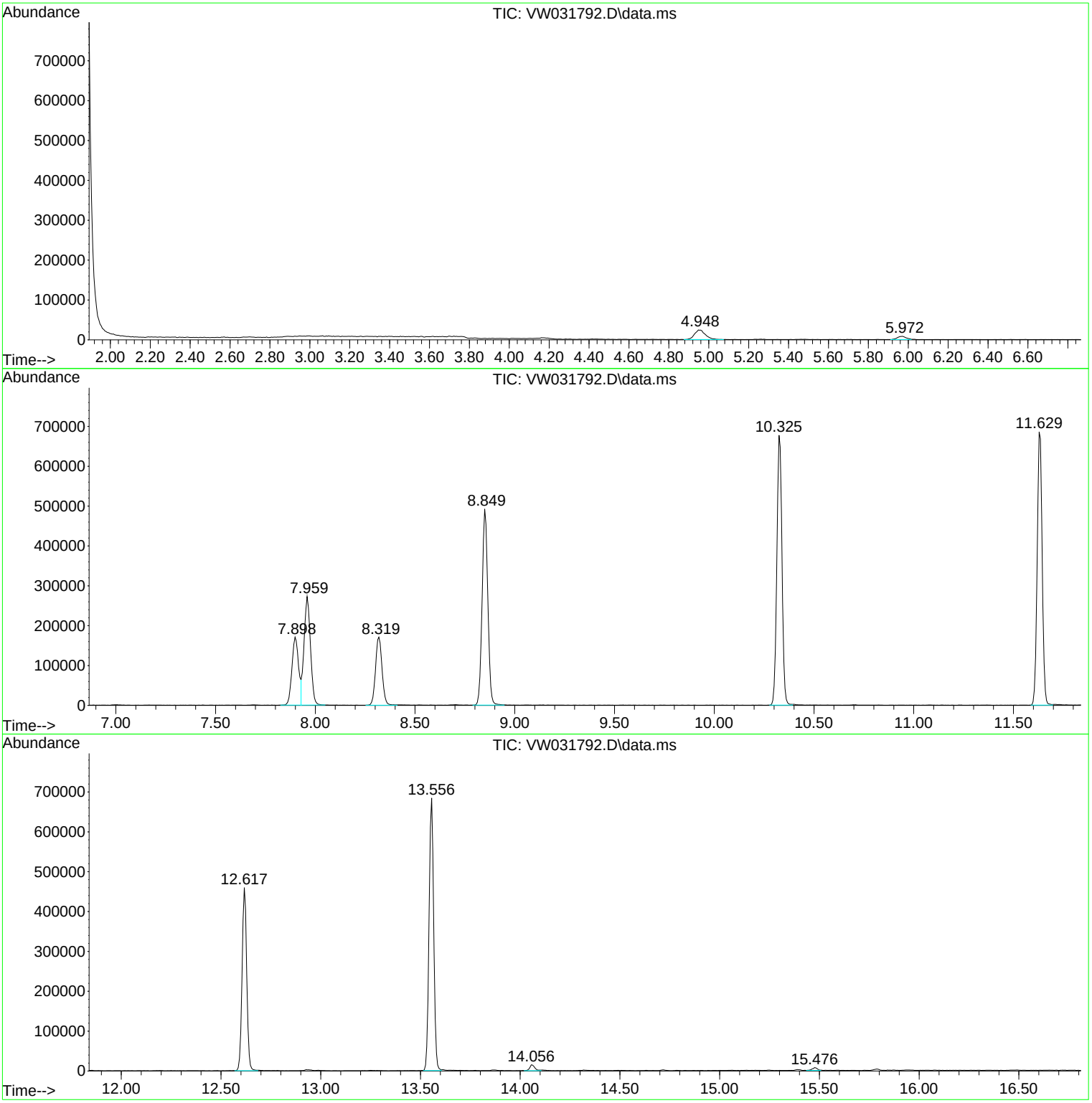
Sample Results: **VW031792.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VW031792.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Sample Results: **VW031792.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031792.D
Acq On : 10 Jul 2025 10:15
Operator : SY/MD
Sample : VW0710SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Raw Data: **VW031793.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.9		0.78	5.00	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.8		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 - 134	95%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.965			
540-36-3	1,4-Difluorobenzene	412000	8.855			
3114-55-4	Chlorobenzene-d5	356000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.556			

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031793.D
Acq On : 10 Jul 2025 11:05
Operator : SY/MD
Sample : VW0710SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 11 02:15:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	227800	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	411611	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	356304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	178658	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159491	48.786	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 97.580%			
35) Dibromofluoromethane	7.904	113	127793	47.578	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 95.160%			
50) Toluene-d8	10.331	98	492896	49.312	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.617	95	188760	51.317	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	28672	18.481	ug/l	97
3) Chloromethane	2.259	50	36132	19.318	ug/l	100
4) Vinyl Chloride	2.405	62	49314	20.060	ug/l	99
5) Bromomethane	2.826	94	36183	18.843	ug/l	99
6) Chloroethane	2.972	64	32708	19.587	ug/l	96
7) Trichlorofluoromethane	3.308	101	40846	18.295	ug/l	96
8) Diethyl Ether	3.728	74	32965	19.431	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.112	101	47864	19.315	ug/l	99
10) Methyl Iodide	4.313	142	73757	19.306	ug/l	100
11) Tert butyl alcohol	5.222	59	18221	89.964	ug/l	98
12) 1,1-Dichloroethene	4.082	96	54927	20.236	ug/l	95
13) Acrolein	3.935	56	27559	75.707	ug/l	97
14) Allyl chloride	4.710	41	84175	20.212	ug/l	98
15) Acrylonitrile	5.405	53	78337	93.899	ug/l	99
16) Acetone	4.167	43	82057	101.550	ug/l	98
17) Carbon Disulfide	4.423	76	135639	18.674	ug/l	97
18) Methyl Acetate	4.716	43	40980	17.745	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	97453	21.153	ug/l	97
20) Methylene Chloride	4.954	84	86741	24.344	ug/l	99
21) trans-1,2-Dichloroethene	5.466	96	57914	20.080	ug/l	96
22) Diisopropyl ether	6.344	45	178983	22.036	ug/l	95
23) Vinyl Acetate	6.289	43	573681	103.404	ug/l	99
24) 1,1-Dichloroethane	6.246	63	107072	20.333	ug/l	98
25) 2-Butanone	7.203	43	113760	108.215	ug/l	93
26) 2,2-Dichloropropane	7.191	77	61808	20.117	ug/l	98
27) cis-1,2-Dichloroethene	7.197	96	68850	20.767	ug/l	98
28) Bromochloromethane	7.532	49	46935	20.197	ug/l	99
29) Tetrahydrofuran	7.557	42	70344	97.711	ug/l	98
30) Chloroform	7.697	83	118527	21.182	ug/l	99
31) Cyclohexane	7.971	56	94163	20.229	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	85287	19.778	ug/l	99
36) 1,1-Dichloropropene	8.099	75	80231	20.643	ug/l	99
37) Ethyl Acetate	7.282	43	49109	20.030	ug/l	98
38) Carbon Tetrachloride	8.087	117	77589	19.590	ug/l	93
39) Methylcyclohexane	9.343	83	98634	20.397	ug/l	97
40) Benzene	8.337	78	239525	20.830	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031793.D
Acq On : 10 Jul 2025 11:05
Operator : SY/MD
Sample : VW0710SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 11 02:15:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.508	41	27114	20.644	ug/l		98
42) 1,2-Dichloroethane	8.416	62	79451	20.448	ug/l		98
43) Isopropyl Acetate	8.441	43	84356	19.959	ug/l		99
44) Trichloroethene	9.105	130	58660	20.438	ug/l		96
45) 1,2-Dichloropropane	9.380	63	58767	21.145	ug/l		98
46) Dibromomethane	9.465	93	36342	20.254	ug/l		98
47) Bromodichloromethane	9.648	83	85402	20.298	ug/l		95
48) Methyl methacrylate	9.447	41	40682	19.576	ug/l		98
49) 1,4-Dioxane	9.465	88	7968	379.166	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.215	43	243938	100.395	ug/l		99
52) Toluene	10.392	92	153770	20.886	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	81344	20.605	ug/l		98
54) cis-1,3-Dichloropropene	10.081	75	93385	20.867	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	48442	20.611	ug/l		98
56) Ethyl methacrylate	10.648	69	65863	20.656	ug/l		99
57) 1,3-Dichloropropane	10.934	76	85519	20.724	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	180719	102.926	ug/l		97
59) 2-Hexanone	10.971	43	184308	111.938	ug/l		98
60) Dibromochloromethane	11.129	129	54573	19.417	ug/l		95
61) 1,2-Dibromoethane	11.239	107	48122	20.452	ug/l		99
64) Tetrachloroethene	10.867	164	45363	19.464	ug/l		91
65) Chlorobenzene	11.660	112	168300	21.409	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.733	131	54158	21.619	ug/l		97
67) Ethyl Benzene	11.733	91	300506	22.045	ug/l		98
68) m/p-Xylenes	11.843	106	221549	42.278	ug/l		97
69) o-Xylene	12.166	106	105871	21.820	ug/l		99
70) Styrene	12.184	104	179672	21.421	ug/l		98
71) Bromoform	12.349	173	26927	18.018	ug/l	#	95
73) Isopropylbenzene	12.464	105	276577	20.352	ug/l		100
74) N-amyl acetate	12.269	43	74607	20.368	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	59677	19.780	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	47147m	20.421	ug/l		
77) Bromobenzene	12.745	156	62484	20.615	ug/l		89
78) n-propylbenzene	12.800	91	341885	21.009	ug/l		99
79) 2-Chlorotoluene	12.891	91	200599	20.471	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	239593	21.299	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	17858	18.016	ug/l		91
82) 4-Chlorotoluene	12.989	91	215000	20.898	ug/l		99
83) tert-Butylbenzene	13.202	119	193236	20.054	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	239532	21.016	ug/l		99
85) sec-Butylbenzene	13.379	105	297918	20.599	ug/l		99
86) p-Isopropyltoluene	13.495	119	243955	20.467	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	120827	19.878	ug/l		98
88) 1,4-Dichlorobenzene	13.580	146	118668	19.074	ug/l		92
89) n-Butylbenzene	13.818	91	243206	21.000	ug/l		98
90) Hexachloroethane	14.092	117	40832	18.988	ug/l		97
91) 1,2-Dichlorobenzene	13.867	146	111078	19.994	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	10704	18.170	ug/l		98
93) 1,2,4-Trichlorobenzene	15.129	180	66450	19.394	ug/l		98
94) Hexachlorobutadiene	15.226	225	31136	18.819	ug/l		92
95) Naphthalene	15.360	128	159288	18.963	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	58180	18.480	ug/l		92

Sample Results: **VW031793.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031793.D
Acq On : 10 Jul 2025 11:05
Operator : SY/MD
Sample : VW0710SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 11 02:15:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

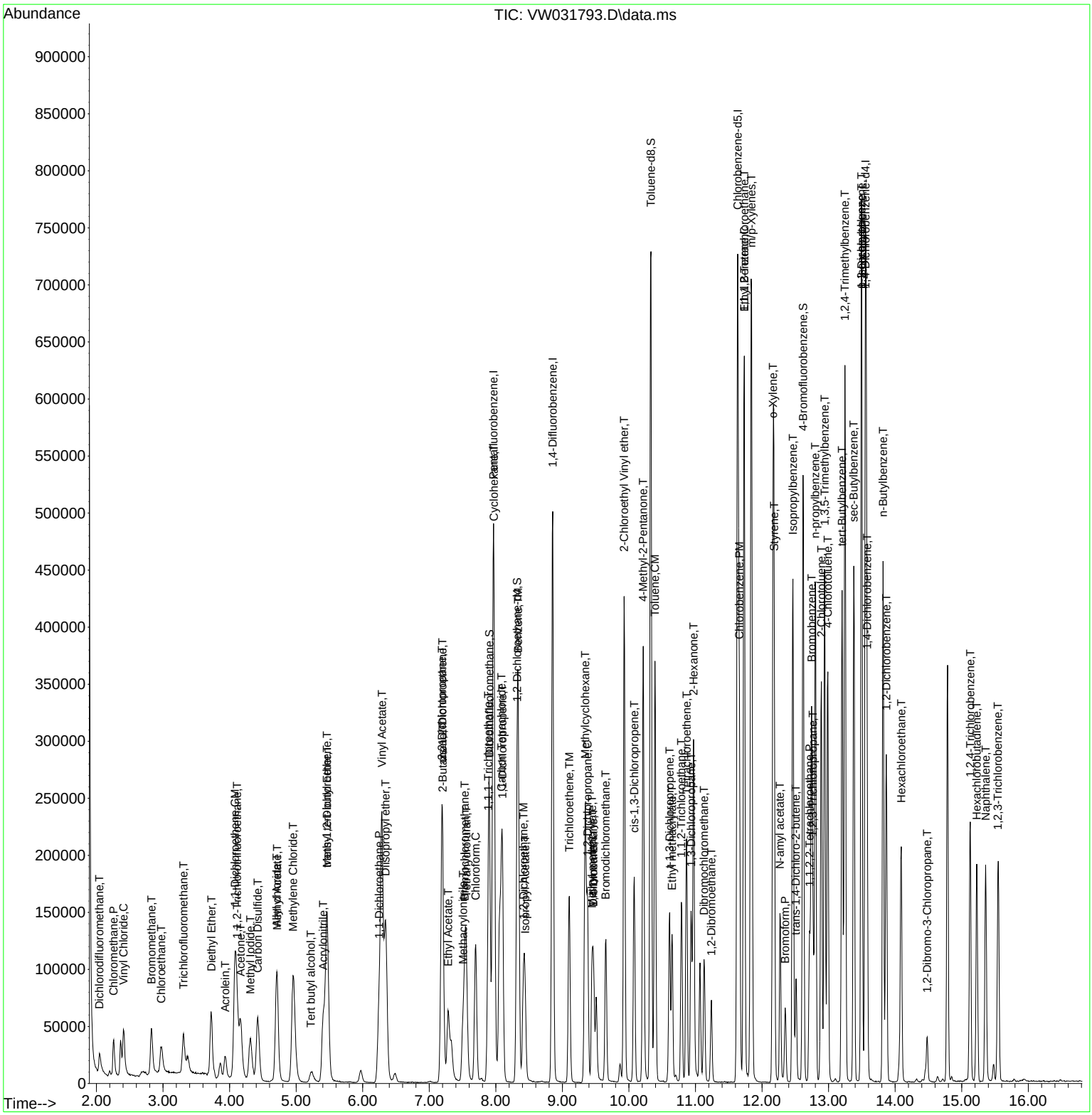
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031793.D
Acq On : 10 Jul 2025 11:05
Operator : SY/MD
Sample : VW0710SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 11 02:15:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025



Raw Data: **VW031794.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	16.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	21.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

Raw Data: **VW031794.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		17 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.965			
540-36-3	1,4-Difluorobenzene	415000	8.849			
3114-55-4	Chlorobenzene-d5	366000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556			

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2543
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031794.D
Acq On : 10 Jul 2025 11:33
Operator : SY/MD
Sample : VW0710SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 11 02:17:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	226314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	415001	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	365558	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	167289	51.507	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 103.020%			
35) Dibromofluoromethane	7.904	113	135149	49.906	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.820%			
50) Toluene-d8	10.325	98	501996	49.812	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.620%			
62) 4-Bromofluorobenzene	12.617	95	192442	51.890	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	30178	19.580	ug/l	96
3) Chloromethane	2.259	50	36073	19.413	ug/l	97
4) Vinyl Chloride	2.405	62	50581	20.710	ug/l	95
5) Bromomethane	2.826	94	35400	18.557	ug/l	98
6) Chloroethane	2.972	64	32192	19.404	ug/l	97
7) Trichlorofluoromethane	3.301	101	36813	16.597	ug/l	94
8) Diethyl Ether	3.722	74	35786	21.232	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.106	101	50449	20.491	ug/l	98
10) Methyl Iodide	4.314	142	73975	19.491	ug/l	99
11) Tert butyl alcohol	5.228	59	19156	95.202	ug/l	97
12) 1,1-Dichloroethene	4.076	96	54559	20.232	ug/l	91
13) Acrolein	3.929	56	28198	77.971	ug/l	99
14) Allyl chloride	4.704	41	86231	20.841	ug/l	97
15) Acrylonitrile	5.411	53	81557	98.400	ug/l	99
16) Acetone	4.167	43	87339	108.797	ug/l	100
17) Carbon Disulfide	4.417	76	139598	19.345	ug/l	98
18) Methyl Acetate	4.710	43	43494	18.957	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	99089	21.649	ug/l	97
20) Methylene Chloride	4.960	84	86229	24.362	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	59156	20.645	ug/l	96
22) Diisopropyl ether	6.338	45	180751	22.399	ug/l	95
23) Vinyl Acetate	6.283	43	597042	108.322	ug/l	98
24) 1,1-Dichloroethane	6.246	63	110704	21.161	ug/l	98
25) 2-Butanone	7.197	43	119126	114.064	ug/l	98
26) 2,2-Dichloropropane	7.185	77	59909	19.627	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	70581	21.429	ug/l	97
28) Bromochloromethane	7.532	49	49683	21.520	ug/l	97
29) Tetrahydrofuran	7.557	42	71773	100.351	ug/l	100
30) Chloroform	7.691	83	116682	20.990	ug/l	96
31) Cyclohexane	7.971	56	97811	21.151	ug/l	94
32) 1,1,1-Trichloroethane	7.886	97	85852	20.040	ug/l	99
36) 1,1-Dichloropropene	8.099	75	82416	21.031	ug/l	99
37) Ethyl Acetate	7.276	43	49846	20.164	ug/l	98
38) Carbon Tetrachloride	8.081	117	78551	19.671	ug/l	97
39) Methylcyclohexane	9.343	83	100339	20.580	ug/l	97
40) Benzene	8.337	78	245359	21.163	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031794.D
Acq On : 10 Jul 2025 11:33
Operator : SY/MD
Sample : VW0710SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 11 02:17:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	26501	20.012	ug/l		93
42) 1,2-Dichloroethane	8.410	62	83386	21.286	ug/l		99
43) Isopropyl Acetate	8.435	43	89552	21.016	ug/l		99
44) Trichloroethene	9.105	130	56412	19.495	ug/l		91
45) 1,2-Dichloropropane	9.374	63	59237	21.140	ug/l		95
46) Dibromomethane	9.465	93	37600	20.784	ug/l		97
47) Bromodichloromethane	9.648	83	88183	20.787	ug/l		95
48) Methyl methacrylate	9.441	41	41670	19.888	ug/l		97
49) 1,4-Dioxane	9.465	88	7065	333.450	ug/l	#	86
51) 4-Methyl-2-Pentanone	10.215	43	256230	104.592	ug/l		100
52) Toluene	10.392	92	153896	20.732	ug/l		99
53) t-1,3-Dichloropropene	10.605	75	82051	20.615	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	95884	21.250	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	50955	21.503	ug/l		98
56) Ethyl methacrylate	10.648	69	69105	21.495	ug/l		99
57) 1,3-Dichloropropane	10.934	76	89275	21.458	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	188338	106.389	ug/l		97
59) 2-Hexanone	10.971	43	184311	111.025	ug/l		99
60) Dibromochloromethane	11.129	129	57910	20.436	ug/l		99
61) 1,2-Dibromoethane	11.239	107	48539	20.461	ug/l		98
64) Tetrachloroethene	10.861	164	45851	19.175	ug/l		84
65) Chlorobenzene	11.654	112	170652	21.158	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.733	131	53380	20.769	ug/l		96
67) Ethyl Benzene	11.727	91	297893	21.300	ug/l		95
68) m/p-Xylenes	11.837	106	224986	41.847	ug/l		99
69) o-Xylene	12.166	106	104943	21.082	ug/l		98
70) Styrene	12.178	104	184086	21.391	ug/l		99
71) Bromoform	12.349	173	29851	19.469	ug/l	#	99
73) Isopropylbenzene	12.464	105	279027	21.126	ug/l		99
74) N-amyl acetate	12.269	43	79743	22.400	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	62348	21.263	ug/l		98
76) 1,2,3-Trichloropropane	12.769	75	46547m	20.744	ug/l		
77) Bromobenzene	12.745	156	60742	20.620	ug/l		94
78) n-propylbenzene	12.800	91	344945	21.810	ug/l		97
79) 2-Chlorotoluene	12.885	91	205314	21.558	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	235670	21.556	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.507	75	19026	19.749	ug/l		88
82) 4-Chlorotoluene	12.983	91	214521	21.454	ug/l		99
83) tert-Butylbenzene	13.202	119	198401	21.186	ug/l		100
84) 1,2,4-Trimethylbenzene	13.245	105	240630	21.723	ug/l		100
85) sec-Butylbenzene	13.379	105	301636	21.459	ug/l		100
86) p-Isopropyltoluene	13.495	119	250318	21.608	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	129646	21.946	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	124248	20.548	ug/l		95
89) n-Butylbenzene	13.818	91	238633	21.201	ug/l		99
90) Hexachloroethane	14.086	117	42207	20.195	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	112201	20.780	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	11405	19.920	ug/l		91
93) 1,2,4-Trichlorobenzene	15.129	180	66095	19.848	ug/l		97
94) Hexachlorobutadiene	15.226	225	29695	18.467	ug/l		96
95) Naphthalene	15.360	128	167135	20.472	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	59518	19.452	ug/l		93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031794.D
Acq On : 10 Jul 2025 11:33
Operator : SY/MD
Sample : VW0710SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025

Quant Time: Jul 11 02:17:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

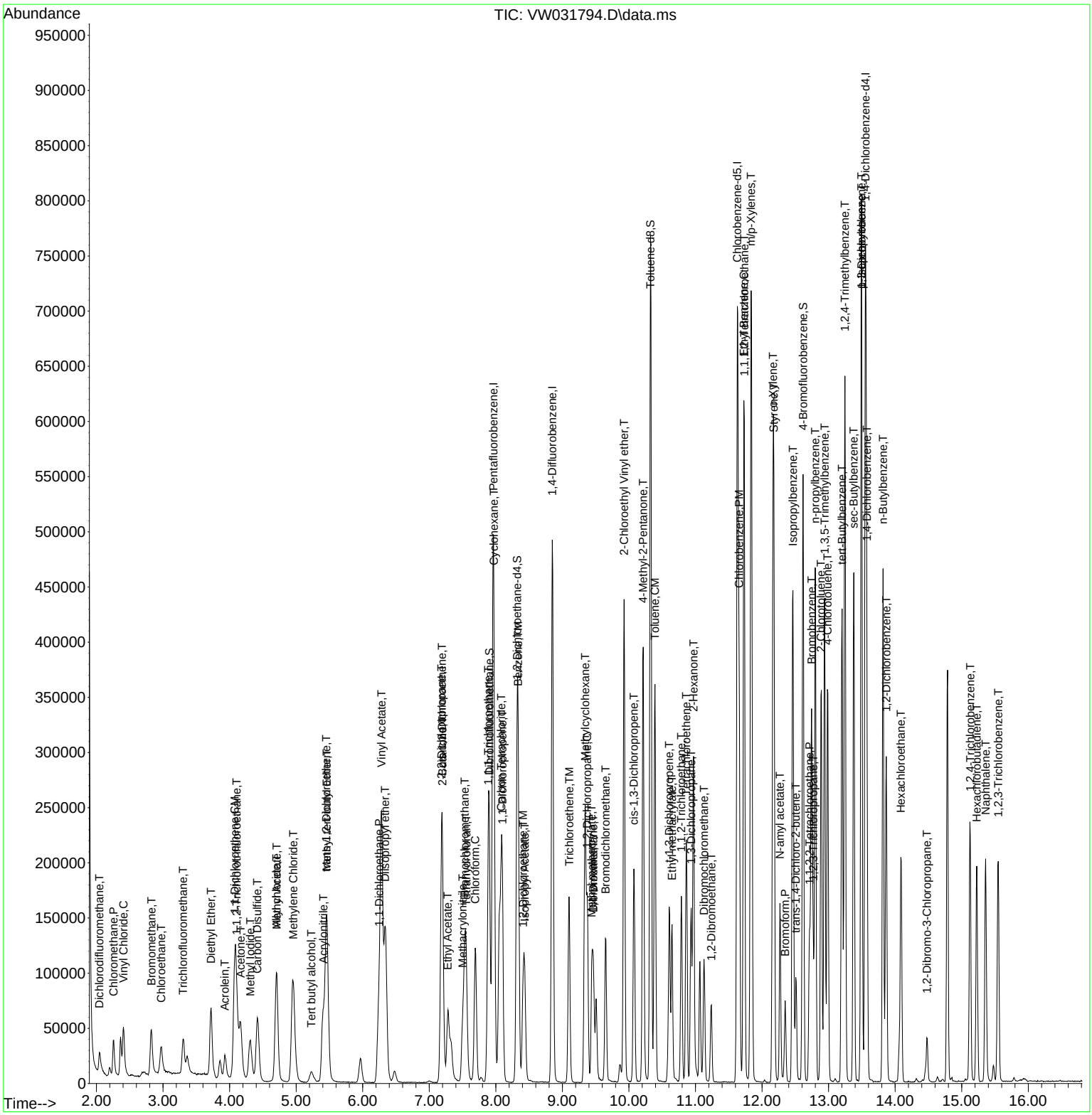
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031794.D
Acq On : 10 Jul 2025 11:33
Operator : SY/MD
Sample : VW0710SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 11 02:17:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VW063025	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW031729.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDICC005	VW031729.D	1,4-Dioxane	MMDadoda	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDICC005	VW031729.D	Acetone	MMDadoda	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDICC005	VW031729.D	Ethyl Acetate	MMDadoda	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDICC005	VW031729.D	Tert butyl alcohol	MMDadoda	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDICC010	VW031730.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDICC010	VW031730.D	1,4-Dioxane	MMDadoda	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDICC010	VW031730.D	Tert butyl alcohol	MMDadoda	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDICC020	VW031731.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:36 PM	SAM	7/1/2025 12:24:13 PM	Peak Integrated by Software
VSTDICC020	VW031731.D	1,4-Dioxane	MMDadoda	7/1/2025 12:21:36 PM	SAM	7/1/2025 12:24:13 PM	Peak Integrated by Software
VSTDICCC050	VW031732.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:38 PM	SAM	7/1/2025 12:24:15 PM	Peak Integrated by Software
VSTDICC100	VW031733.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:40 PM	SAM	7/1/2025 12:24:18 PM	Peak Integrated by Software
VSTDICC150	VW031734.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:41 PM	SAM	7/1/2025 12:24:20 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VW063025	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VW031736.D	1,2,3-Trichloropropane	MMDadoda	7/1/2025 12:21:42 PM	SAM	7/1/2025 12:24:21 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VW071025	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW031791.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:37:09 AM	Sam	7/14/2025 7:51:24 AM	Peak Integrated by Software
VW0710SBS01	VW031793.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:37:11 AM	Sam	7/14/2025 7:51:25 AM	Peak Integrated by Software
VW0710SBSD01	VW031794.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:37:15 AM	Sam	7/14/2025 7:51:35 AM	Peak Integrated by Software
VSTDCCC050	VW031815.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:37:20 AM	Sam	7/14/2025 7:51:40 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW063025

Review By	Mahesh Dadoda	Review On	7/1/2025 12:21:51 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/1/2025 12:24:32 PM				
SubDirectory	VW063025	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134578
Initial Calibration Stds	VP134581,VP134582,VP134583,VP134584,VP134585,VP134586
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW031728.D	30 Jun 2025 08:56	SY/MD	Ok
2	VSTDICC005	VW031729.D	30 Jun 2025 09:54	SY/MD	Ok,M
3	VSTDICC010	VW031730.D	30 Jun 2025 10:15	SY/MD	Ok,M
4	VSTDICC020	VW031731.D	30 Jun 2025 10:58	SY/MD	Ok,M
5	VSTDICCC050	VW031732.D	30 Jun 2025 11:21	SY/MD	Ok,M
6	VSTDICC100	VW031733.D	30 Jun 2025 12:34	SY/MD	Ok,M
7	VSTDICC150	VW031734.D	30 Jun 2025 12:55	SY/MD	Ok,M
8	VIBLK	VW031735.D	30 Jun 2025 14:11	SY/MD	Ok
9	VSTDICV050	VW031736.D	30 Jun 2025 15:23	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW071025

Review By	Mahesh Dadoda	Review On	7/14/2025 7:38:05 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:52:00 AM				
SubDirectory	VW071025	HP Acquire Method	MSVOA_W		HP Processing Method	82w063025s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP134704
Initial Calibration Stds	
CCC	VP134705,VP134706
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW031790.D	10 Jul 2025 08:16	SY/MD	Ok
2	VSTDCCC050	VW031791.D	10 Jul 2025 08:47	SY/MD	Ok,M
3	VW0710SBL01	VW031792.D	10 Jul 2025 10:15	SY/MD	Ok
4	VW0710SBS01	VW031793.D	10 Jul 2025 11:05	SY/MD	Ok,M
5	VW0710SBSD01	VW031794.D	10 Jul 2025 11:33	SY/MD	Ok,M
6	Q2480-03RE	VW031795.D	10 Jul 2025 12:19	SY/MD	Confirms
7	Q2480-04	VW031796.D	10 Jul 2025 12:41	SY/MD	Dilution
8	Q2480-06	VW031797.D	10 Jul 2025 13:03	SY/MD	Dilution
9	Q2529-05	VW031798.D	10 Jul 2025 13:25	SY/MD	Ok
10	Q2529-06	VW031799.D	10 Jul 2025 13:47	SY/MD	Ok
11	Q2529-07	VW031800.D	10 Jul 2025 14:09	SY/MD	Ok
12	Q2529-08	VW031801.D	10 Jul 2025 14:30	SY/MD	Ok
13	Q2529-09	VW031802.D	10 Jul 2025 14:52	SY/MD	Ok,M
14	Q2529-10	VW031803.D	10 Jul 2025 15:14	SY/MD	Ok
15	Q2555-01	VW031804.D	10 Jul 2025 15:36	SY/MD	Ok
16	Q2555-03	VW031805.D	10 Jul 2025 15:58	SY/MD	Ok
17	Q2539-01	VW031806.D	10 Jul 2025 16:20	SY/MD	Ok
18	Q2550-02	VW031807.D	10 Jul 2025 16:42	SY/MD	Ok
19	Q2551-02	VW031808.D	10 Jul 2025 17:04	SY/MD	Ok
20	Q2543-01	VW031809.D	10 Jul 2025 17:26	SY/MD	Ok
21	Q2543-02	VW031810.D	10 Jul 2025 17:48	SY/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW071025

Review By	Mahesh Dadoda	Review On	7/14/2025 7:38:05 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:52:00 AM				
SubDirectory	VW071025	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134704
Initial Calibration Stds	
CCC	VP134705,VP134706
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2543-03	VW031811.D	10 Jul 2025 18:10	SY/MD	Ok
23	Q2543-04	VW031812.D	10 Jul 2025 18:32	SY/MD	Ok
24	Q2558-01	VW031813.D	10 Jul 2025 18:53	SY/MD	Ok
25	Q2558-03	VW031814.D	10 Jul 2025 19:15	SY/MD	Ok
26	VSTDCCC050	VW031815.D	10 Jul 2025 19:59	SY/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW063025

Review By	Mahesh Dadoda	Review On	7/1/2025 12:21:51 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/1/2025 12:24:32 PM		
SubDirectory	VW063025	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134578
Initial Calibration Stds	VP134581,VP134582,VP134583,VP134584,VP134585,VP134586
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW031728.D	30 Jun 2025 08:56		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW031729.D	30 Jun 2025 09:54		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW031730.D	30 Jun 2025 10:15	8260-soil-method	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW031731.D	30 Jun 2025 10:58		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW031732.D	30 Jun 2025 11:21	Comp. #20 is on Quadratic Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW031733.D	30 Jun 2025 12:34		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW031734.D	30 Jun 2025 12:55		SY/MD	Ok,M
8	VIBLK	VIBLK	VW031735.D	30 Jun 2025 14:11		SY/MD	Ok
9	VSTDICV050	ICVVW063025	VW031736.D	30 Jun 2025 15:23		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW071025

Review By	Mahesh Dadoda	Review On	7/14/2025 7:38:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:52:00 AM		
SubDirectory	VW071025	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134704
Initial Calibration Stds	
CCC	VP134705,VP134706
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW031790.D	10 Jul 2025 08:16		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW031791.D	10 Jul 2025 08:47		SY/MD	Ok,M
3	VW0710SBL01	VW0710SBL01	VW031792.D	10 Jul 2025 10:15		SY/MD	Ok
4	VW0710SBS01	VW0710SBS01	VW031793.D	10 Jul 2025 11:05		SY/MD	Ok,M
5	VW0710SBSD01	VW0710SBSD01	VW031794.D	10 Jul 2025 11:33		SY/MD	Ok,M
6	Q2480-03RE	GPX3RE	VW031795.D	10 Jul 2025 12:19	vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms
7	Q2480-04	GPX4	VW031796.D	10 Jul 2025 12:41	vial-B Need MeOH	SY/MD	Dilution
8	Q2480-06	GPX6	VW031797.D	10 Jul 2025 13:03	vial-B Surrogate fail;Need MeOH	SY/MD	Dilution
9	Q2529-05	TP-98	VW031798.D	10 Jul 2025 13:25	vial-B	SY/MD	Ok
10	Q2529-06	TP-102	VW031799.D	10 Jul 2025 13:47	vial-B	SY/MD	Ok
11	Q2529-07	TP-101	VW031800.D	10 Jul 2025 14:09	vial-B	SY/MD	Ok
12	Q2529-08	TP-89	VW031801.D	10 Jul 2025 14:30	vial-B	SY/MD	Ok
13	Q2529-09	TP-33	VW031802.D	10 Jul 2025 14:52	vial-B	SY/MD	Ok,M
14	Q2529-10	TP-30	VW031803.D	10 Jul 2025 15:14	vial-B	SY/MD	Ok
15	Q2555-01	OU4-TS-29-070925	VW031804.D	10 Jul 2025 15:36	vial-A	SY/MD	Ok
16	Q2555-03	OU4-TS-30-070925	VW031805.D	10 Jul 2025 15:58	vial-A	SY/MD	Ok
17	Q2539-01	HACKENSACK	VW031806.D	10 Jul 2025 16:20	vial-A	SY/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW071025

Review By	Mahesh Dadoda	Review On	7/14/2025 7:38:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:52:00 AM		
SubDirectory	VW071025	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134704
Initial Calibration Stds	
CCC	VP134705,VP134706
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2550-02	VNJ-203	VW031807.D	10 Jul 2025 16:42	vial-A	SY/MD	Ok
19	Q2551-02	VNJ-204	VW031808.D	10 Jul 2025 17:04	vial-A	SY/MD	Ok
20	Q2543-01	TP-41	VW031809.D	10 Jul 2025 17:26	vial-A	SY/MD	Ok
21	Q2543-02	TP-49	VW031810.D	10 Jul 2025 17:48	vial-A	SY/MD	Ok
22	Q2543-03	TP-23	VW031811.D	10 Jul 2025 18:10	vial-A	SY/MD	Ok
23	Q2543-04	TP-23-99	VW031812.D	10 Jul 2025 18:32	vial-A	SY/MD	Ok
24	Q2558-01	OU4-TS-Denali-070925	VW031813.D	10 Jul 2025 18:53	vial-A	SY/MD	Ok
25	Q2558-03	OU4-TS-Grillo-OG-0709	VW031814.D	10 Jul 2025 19:15	vial-A	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VW031815.D	10 Jul 2025 19:59		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/10/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 07/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136409

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2534-01	VNJ-206#1	8	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-02	VNJ-206#2	9	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-03	VNJ-224#1	10	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-04	VNJ-224#2	11	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-05	VNJ-232#1	12	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-06	VNJ-232#2	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-07	VNJ-227#1	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2534-08	VNJ-227#2	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2535-03	70225-PIPE	1	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2535-04	70725-PIPE	2	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2537-01	TR-04-7.9-2025	42	1.18	10.34	11.52	10.54	90.5	
Q2537-02	TR-04-7.9-2025	43	1.15	10.83	11.98	10.83	89.4	
Q2538-01	70325-A	3	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2538-02	70325-B	4	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2538-03	70325-C	5	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2539-01	HACKENSACK	6	1.14	10.40	11.54	10.9	93.8	
Q2539-02	HACKENSACK-EPH 2	7	1.15	10.84	11.99	11.31	93.7	
Q2541-01	HED664T-1-1	16	1.00	1.00	2.00	2.00	100.0	PILC
Q2541-02	HED664T-1-2	17	1.00	1.00	2.00	2.00	100.0	PILC
Q2542-01	VNJ-245	18	1.15	10.18	11.33	10.88	95.6	
Q2542-02	VNJ-245-E2	19	1.18	10.32	11.5	10.84	93.6	
Q2543-01	TP-41	20	1.16	10.61	11.77	9.86	82.0	
Q2543-02	TP-49	21	1.19	10.08	11.27	8.64	73.9	
Q2543-03	TP-23	22	1.15	10.00	11.15	9.65	85.0	
Q2543-04	TP-23-99	23	1.13	10.32	11.45	9.94	85.4	
Q2544-01	Y 2307-0174-1-1	24	1.00	1.00	2.00	2.00	100.0	PILC
Q2544-02	Y 2307-0174-1-2	25	1.00	1.00	2.00	2.00	100.0	PILC
Q2544-03	BC 258874-1-1	26	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/10/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 07/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136409

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2544-04	BC 258874-1-2	27	1.00	1.00	2.00	2.00	100.0	PILC
Q2544-05	BC 274857-1-1	28	1.00	1.00	2.00	2.00	100.0	PILC
Q2544-06	BC 274857-1-2	29	1.00	1.00	2.00	2.00	100.0	PILC
Q2546-01	HD-02-7-9-2025	44	1.19	10.57	11.76	11.15	94.2	
Q2546-02	HD-02-7-9-2025	45	1.12	10.64	11.76	11.19	94.6	
Q2546-03	HD-02-7-9-2025	46	1.14	10.85	11.99	11.66	97.0	
Q2549-01	BC271242-1-1	30	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-02	BC271242-1-2	31	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-03	BC226734-1-1	32	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-04	BC226734-1-2	33	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-05	BC226734-2-1	34	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-06	BC226734-2-2	35	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-07	JEI484M-1-1	36	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-08	JEI484M-1-2	37	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-09	HZA852R-1-1	38	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-10	HZA852R-1-2	39	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-11	HZA852R-2-1	40	1.00	1.00	2.00	2.00	100.0	PILC
Q2549-12	HZA852R-2-2	41	1.00	1.00	2.00	2.00	100.0	PILC
Q2551-02	VNJ-204	47	1.11	10.49	11.6	10.8	92.4	
Q2551-03	VNJ-204-EPH	48	1.15	11.19	12.34	11.26	90.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB B6409

WorkList Name : %1-070925 **WorkList ID :** 190592 **Department :** Wet-Chemistry **Date :** 07-09-2025 07:49:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2534-01	VNJ-206#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-02	VNJ-206#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-03	VNJ-224#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-04	VNJ-224#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-05	VNJ-232#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-06	VNJ-232#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-07	VNJ-227#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2534-08	VNJ-227#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2535-03	70225-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	O31	07/09/2025	Chemtech -SO
Q2535-04	70725-PIPE	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/09/2025	Chemtech -SO
Q2537-01	TR-04-7.9-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/09/2025	Chemtech -SO
Q2537-02	TR-04-7.9-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	O33	07/09/2025	Chemtech -SO
Q2538-01	70325-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O33	07/09/2025	Chemtech -SO
Q2538-02	70325-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O41	07/09/2025	Chemtech -SO
Q2538-03	70325-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	O41	07/09/2025	Chemtech -SO
Q2539-01	HACKENSACK	Solid	Percent Solids	Cool 4 deg C	PSEG03	O41	07/09/2025	Chemtech -SO
Q2539-02	HACKENSACK-EPH 2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2541-01	HED664T-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2541-02	HED664T-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O41	07/09/2025	Chemtech -SO
Q2542-01	VNJ-245	Solid	Percent Solids	Cool 4 deg C	PSEG03	O41	07/09/2025	Chemtech -SO
Q2542-02	VNJ-245-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/09/2025	Chemtech -SO
						O32	07/09/2025	Chemtech -SO

Date/Time 07/09/25 15:00

Raw Sample Received by: JP WLC

Raw Sample Relinquished by: JDCSM

Date/Time 07/09/25 17:20

Raw Sample Received by: JDCSM

Raw Sample Relinquished by: JP WLC

WORKLIST(Hardcopy Internal Chain)

WB 136409

WorkList Name : %1-070925 **WorkList ID :** 190592 **Department :** Wet-Chemistry **Date :** 07-09-2025 07:49:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2543-01	TP-41	Solid	Percent Solids	Cool 4 deg C	CAMP02	O42	07/08/2025	Chemtech -SO
Q2543-02	TP-49	Solid	Percent Solids	Cool 4 deg C	CAMP02	O42	07/09/2025	Chemtech -SO
Q2543-03	TP-23	Solid	Percent Solids	Cool 4 deg C	CAMP02	O42	07/09/2025	Chemtech -SO
Q2543-04	TP-23-99	Solid	Percent Solids	Cool 4 deg C	CAMP02	O42	07/09/2025	Chemtech -SO
Q2544-01	Y 2307-0174-1-1	Solid	Percent Solids	Cool 4 deg C	CAMP02	O42	07/09/2025	Chemtech -SO
Q2544-02	Y 2307-0174-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2544-03	BC 258874-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2544-04	BC 258874-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2544-05	BC 274857-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2544-06	BC 274857-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2546-01	HD-02-7-9-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/09/2025	Chemtech -SO
Q2546-02	HD-02-7-9-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	O23	07/09/2025	Chemtech -SO
Q2546-03	HD-02-7-9-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	O23	07/09/2025	Chemtech -SO
Q2549-01	BC271242-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG05	O23	07/09/2025	Chemtech -SO
Q2549-02	BC271242-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-03	BC226734-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-04	BC226734-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-05	BC226734-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-06	BC226734-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-07	JEI484M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-08	JEI484M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO

Date/Time 07/09/25 15:00

Raw Sample Received by: [illegible] (WC)

Raw Sample Relinquished by: JD (SM)

Date/Time 07/09/25 17:20

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: [illegible] (WC)

WORKLIST(Hardcopy Internal Chain)

VB B6409

WorkList Name : %1-070925 **WorkList ID :** 190592 **Department :** Wet-Chemistry **Date :** 07-09-2025 07:49:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2549-09	HZA852R-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-10	HZA852R-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-11	HZA852R-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2549-12	HZA852R-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	--Sele	07/09/2025	Chemtech -SO
Q2551-02	VNJ-204	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/09/2025	Chemtech -SO
Q2551-03	VNJ-204-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/09/2025	Chemtech -SO

Date/Time 07/09/25 15:00

Raw Sample Received by: [illegible] WC

Raw Sample Relinquished by: JD (SM)

Date/Time 07/09/25 17:20

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: [illegible] WC

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2543
QUOTE NO.
COC Number 2047551

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY: EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: FELIPE CONTRERAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY: EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☑ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1. TCL VOC
2. TCL SVOC
3. PCB
4. METALS
5. PEST/HERBICIDES
6. DRO (GRO)
7. HERBICIDES
8.
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-41	S		X	7/8/25	1240	6	X	X	X	X	X	X	X			E
2.	TP-47	S		X	7/9/25	0755	6	X	X	X	X	X	X	X			E
3.	TP-23	S		X	7/9/25	0915	6	X	X	X	X	X	X	X			E
4.	TP-23-99	S		X	7/9/25	0920	6	X	X	X	X	X	X	X			E
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/9/25 1102	1. 1102 7-9-25
2.	DATE/TIME:	2.
3.	DATE/TIME: 1330 7-9-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.7 °C
Comments:

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2543 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/9/2025 12:26:00 PM
Project Name : South River WM Replacem
Receive DateTime : 7/9/2025 ~~2:00:00 PM~~ 13:30
Purchase Order :

Project Mgr :
Report Type : ~~Level 1~~ Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2543-01	TP-41	Solid	07/08/2025	12:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-02	TP-49	Solid	07/09/2025	07:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-03	TP-23	Solid	07/09/2025	09:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2543-04	TP-23-99	Solid	07/09/2025	09:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days

DP 07/11/2025

Relinguished By :
Date / Time : 7-9-25 1400

Received By :
Date / Time : 07/09/25 14:20

Storage Area : VOA Refridgerator Room

Rg Hb
522