

Cover Page

Order ID : Q2529

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2529-01
Q2529-02
Q2529-03
Q2529-04
Q2529-05
Q2529-06
Q2529-07
Q2529-08
Q2529-09
Q2529-10

Client Sample Number

TP-91
TP-80
TP-79
TP-95
TP-98
TP-102
TP-101
TP-89
TP-33
TP-30

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2529

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: KETAN PATEL

Date: 07/12/2025

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 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

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL	VOC-TCLVOA-10	8260D	07/03/25		07/09/25	07/08/25
Q2529-02	TP-80	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-03	TP-79	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-04	TP-95	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-05	TP-98	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-06	TP-102	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-07	TP-101	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-08	TP-89	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25
Q2529-09	TP-33	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25
Q2529-10	TP-30	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25

Hit Summary Sheet
SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-91							
Q2529-01	TP-91	SOIL	Naphthalene, 1,6-dimethyl-	* 31.8	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,3-dimethyl-	* 36.0	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,7-dimethyl-	* 15.3	J	0	0	ug/Kg
			Total Tics :	83.1				
			Total Concentration:	83.1				
Client ID:	TP-80							
Q2529-02	TP-80	SOIL	Acetone	9.30	J	4.80	25.2	ug/Kg
Q2529-02	TP-80	SOIL	Methylene Chloride	9.00	JQ	3.60	10.1	ug/Kg
			Total Voc :	18.3				
			Total Concentration:	18.3				
Client ID:	TP-79							
Q2529-03	TP-79	SOIL	Methylene Chloride	8.90	Q	3.10	8.90	ug/Kg
			Total Voc :	8.90				
			Total Concentration:	8.90				
Client ID:	TP-95							
Q2529-04	TP-95	SOIL	Methylene Chloride	8.10	JQ	3.20	8.90	ug/Kg
			Total Voc :	8.10				
			Total Concentration:	8.10				
Client ID:	TP-98							
Q2529-05	TP-98	SOIL	Hexadecane	* 20.3	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,5-dimethyl-	* 33.7	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,3-dimethyl-	* 13.6	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,6-dimethyl-	* 12.2	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2-(1-methylethyl)	* 8.00	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,6,7-trimethyl-	* 7.70	J	0	0	ug/Kg
			Total Tics :	95.5				
			Total Concentration:	95.5				
Client ID:	TP-89							
Q2529-08	TP-89	SOIL	Acetone	16.8	J	6.80	35.7	ug/Kg
Q2529-08	TP-89	SOIL	Methylene Chloride	9.30	J	5.00	14.3	ug/Kg
			Total Voc :	26.1				
Q2529-08	TP-89	SOIL	n-Hexane	* 7.20	J	0	0	ug/Kg
			Total Tics :	7.20				
			Total Concentration:	33.3				
Client ID:	TP-33							
Q2529-09	TP-33	SOIL	Acetone	7.40	J	4.20	22.1	ug/Kg
Q2529-09	TP-33	SOIL	Methylene Chloride	4.10	J	3.10	8.80	ug/Kg
			Total Voc :	11.5				
Q2529-09	TP-33	SOIL	2-Ethyl-oxetane	* 4.70	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				4.70				
Total Concentration:				16.2				



QC SUMMARY

Surrogate Summary

SDG No.: **Q2529**

Client: **CDM Smith**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2529-01	TP-91	1,2-Dichloroethane-d4	50	46.0	92		63	155
		Dibromofluoromethane	50	43.7	87		70	134
		Toluene-d8	50	45.1	90		74	123
		4-Bromofluorobenzene	50	44.7	89		17	146
Q2529-02	TP-80	1,2-Dichloroethane-d4	50	46.6	93		63	155
		Dibromofluoromethane	50	44.8	90		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	45.0	90		17	146
Q2529-03	TP-79	1,2-Dichloroethane-d4	50	51.9	104		63	155
		Dibromofluoromethane	50	44.0	88		70	134
		Toluene-d8	50	45.8	92		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146
Q2529-04	TP-95	1,2-Dichloroethane-d4	50	56.1	112		63	155
		Dibromofluoromethane	50	46.6	93		70	134
		Toluene-d8	50	47.5	95		74	123
		4-Bromofluorobenzene	50	50.5	101		17	146
Q2529-05	TP-98	1,2-Dichloroethane-d4	50	58.5	117		63	155
		Dibromofluoromethane	50	46.3	93		70	134
		Toluene-d8	50	48.9	98		74	123
		4-Bromofluorobenzene	50	52.4	105		17	146
Q2529-06	TP-102	1,2-Dichloroethane-d4	50	54.1	108		63	155
		Dibromofluoromethane	50	46.4	93		70	134
		Toluene-d8	50	45.7	91		74	123
		4-Bromofluorobenzene	50	49.6	99		17	146
Q2529-07	TP-101	1,2-Dichloroethane-d4	50	57.0	114		63	155
		Dibromofluoromethane	50	46.1	92		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	47.3	95		17	146
Q2529-08	TP-89	1,2-Dichloroethane-d4	50	55.1	110		63	155
		Dibromofluoromethane	50	45.5	91		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	48.8	97		17	146
Q2529-09	TP-33	1,2-Dichloroethane-d4	50	56.9	114		63	155
		Dibromofluoromethane	50	45.1	90		70	134
		Toluene-d8	50	46.2	92		74	123
		4-Bromofluorobenzene	50	49.1	98		17	146
Q2529-10	TP-30	1,2-Dichloroethane-d4	50	54.9	110		63	155
		Dibromofluoromethane	50	47.8	96		70	134
		Toluene-d8	50	47.5	95		74	123
		4-Bromofluorobenzene	50	49.8	100		17	146
VW0709SBL01	VW0709SBL01	1,2-Dichloroethane-d4	50	44.4	89		63	155
		Dibromofluoromethane	50	46.0	92		70	134
		Toluene-d8	50	45.6	91		74	123
		4-Bromofluorobenzene	50	41.8	84		17	146
VW0709SBS01	VW0709SBS01	1,2-Dichloroethane-d4	50	58.7	117		63	155
		Dibromofluoromethane	50	57.7	115		70	134
		Toluene-d8	50	58.6	117		74	123
		4-Bromofluorobenzene	50	59.5	119		17	146
VW0710SBL01	VW0710SBL01	1,2-Dichloroethane-d4	50	55.9	112		63	155
		Dibromofluoromethane	50	46.0	92		70	134

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VW0710SBL01	VW0710SBL01	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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031769.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0709SBS01	Dichlorodifluoromethane	20	23.9	ug/Kg	119			64	136	
	Chloromethane	20	23.4	ug/Kg	117			52	151	
	Vinyl chloride	20	24.1	ug/Kg	121			56	148	
	Bromomethane	20	23.2	ug/Kg	116			58	141	
	Chloroethane	20	23.2	ug/Kg	116			69	130	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	23.9	ug/Kg	119			81	123	
	1,1-Dichloroethene	20	23.8	ug/Kg	119			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	22.8	ug/Kg	114			59	130	
	Methyl tert-butyl Ether	20	24.4	ug/Kg	122			77	129	
	Methyl Acetate	20	23.1	ug/Kg	116			69	149	
	Methylene Chloride	20	35.2	ug/Kg	176		*	72	131	
	trans-1,2-Dichloroethene	20	24.2	ug/Kg	121			80	123	
	1,1-Dichloroethane	20	24.1	ug/Kg	121			82	123	
	Cyclohexane	20	23.8	ug/Kg	119			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	22.9	ug/Kg	115			76	129	
	cis-1,2-Dichloroethene	20	24.8	ug/Kg	124		*	82	123	
	Bromochloromethane	20	24.3	ug/Kg	121			80	127	
	Chloroform	20	24.3	ug/Kg	121			82	125	
	1,1,1-Trichloroethane	20	24.6	ug/Kg	123			80	126	
	Methylcyclohexane	20	22.9	ug/Kg	115			77	123	
	Benzene	20	23.9	ug/Kg	119			84	121	
	1,2-Dichloroethane	20	23.4	ug/Kg	117			81	126	
	Trichloroethene	20	22.7	ug/Kg	114			83	122	
	1,2-Dichloropropane	20	23.5	ug/Kg	117			83	122	
	Bromodichloromethane	20	23.3	ug/Kg	117			82	123	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			70	135	
	Toluene	20	24.1	ug/Kg	121			83	122	
	t-1,3-Dichloropropene	20	23.4	ug/Kg	117			78	124	
	cis-1,3-Dichloropropene	20	23.5	ug/Kg	117			81	122	
	1,1,2-Trichloroethane	20	23.7	ug/Kg	119			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	22.3	ug/Kg	112			79	125	
	1,2-Dibromoethane	20	23.8	ug/Kg	119			80	125	
	Tetrachloroethene	20	23.7	ug/Kg	119			83	125	
	Chlorobenzene	20	23.8	ug/Kg	119			84	122	
	Ethyl Benzene	20	23.1	ug/Kg	116			82	124	
	m/p-Xylenes	40	46.8	ug/Kg	117			83	124	
	o-Xylene	20	23.7	ug/Kg	119			83	123	
	Styrene	20	23.9	ug/Kg	119			82	124	
	Bromoform	20	23.7	ug/Kg	119			75	127	
	Isopropylbenzene	20	22.7	ug/Kg	114			82	124	
	1,1,2,2-Tetrachloroethane	20	23.3	ug/Kg	117			77	127	
	1,3-Dichlorobenzene	20	24.1	ug/Kg	121			83	122	
	1,4-Dichlorobenzene	20	23.4	ug/Kg	117			84	121	
	1,2-Dichlorobenzene	20	24.3	ug/Kg	121			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031769.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0709SBS01	1,2-Dibromo-3-Chloropropane	20	21.9	ug/Kg	110			66	134	
	1,2,4-Trichlorobenzene	20	24.2	ug/Kg	121			78	127	
	1,2,3-Trichlorobenzene	20	23.4	ug/Kg	117			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031793.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	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	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2529

Analytical Method: SW8260D

Client: CDM Smith

Datafile : VW031793.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
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	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	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

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0709SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031768.D

Lab Sample ID: VW0709SBL01

Date Analyzed: 07/09/2025

Time Analyzed: 10:58

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
VW0709SBS01	VW0709SBS01	VW031769.D	07/09/2025
TP-91	Q2529-01	VW031778.D	07/09/2025
TP-80	Q2529-02	VW031779.D	07/09/2025
TP-79	Q2529-03	VW031780.D	07/09/2025
TP-95	Q2529-04	VW031781.D	07/09/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0710SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

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-98	Q2529-05	VW031798.D	07/10/2025
TP-102	Q2529-06	VW031799.D	07/10/2025
TP-101	Q2529-07	VW031800.D	07/10/2025
TP-89	Q2529-08	VW031801.D	07/10/2025
TP-33	Q2529-09	VW031802.D	07/10/2025
TP-30	Q2529-10	VW031803.D	07/10/2025

COMMENTS: _____



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

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

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
VSTDIC005	VSTDIC005	VW031729.D	06/30/2025	09:54
VSTDIC010	VSTDIC010	VW031730.D	06/30/2025	10:15
VSTDIC020	VSTDIC020	VW031731.D	06/30/2025	10:58
VSTDIC050	VSTDIC050	VW031732.D	06/30/2025	11:21
VSTDIC100	VSTDIC100	VW031733.D	06/30/2025	12:34
VSTDIC150	VSTDIC150	VW031734.D	06/30/2025	12:55



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**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031766.D

BFB Injection Date: 07/09/2025

Instrument ID: MSVOA_W

BFB Injection Time: 08:51

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	18.9
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	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	65 (95.1) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW031767.D	07/09/2025	10:00
VW0709SBL01	VW0709SBL01	VW031768.D	07/09/2025	10:58
VW0709SBS01	VW0709SBS01	VW031769.D	07/09/2025	11:34
TP-91	Q2529-01	VW031778.D	07/09/2025	16:02
TP-80	Q2529-02	VW031779.D	07/09/2025	16:24
TP-79	Q2529-03	VW031780.D	07/09/2025	16:46
TP-95	Q2529-04	VW031781.D	07/09/2025	17:08



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**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

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-98	Q2529-05	VW031798.D	07/10/2025	13:25
TP-102	Q2529-06	VW031799.D	07/10/2025	13:47
TP-101	Q2529-07	VW031800.D	07/10/2025	14:09
TP-89	Q2529-08	VW031801.D	07/10/2025	14:30
TP-33	Q2529-09	VW031802.D	07/10/2025	14:52
TP-30	Q2529-10	VW031803.D	07/10/2025	15:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2529
 Lab File ID: VW031767.D Date Analyzed: 07/09/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:00
 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	247441	7.96	422710	8.85	377094	11.63
UPPER LIMIT	494882	8.459	845420	9.349	754188	12.129
LOWER LIMIT	123721	7.459	211355	8.349	188547	11.129
EPA SAMPLE NO.						
TP-91	218175	7.97	444599	8.86	410314	11.64
TP-80	214090	7.97	434266	8.86	389918	11.64
TP-79	191026	7.97	402933	8.85	367838	11.64
TP-95	184533	7.96	394765	8.86	367784	11.64
VW0709SBL01	208773	7.97	393637	8.85	349817	11.63
VW0709SBS01	187242	7.95	349121	8.85	314319	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2529
 Lab File ID: VW031767.D Date Analyzed: 07/09/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:00
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	179078	13.556				
UPPER LIMIT	358156	14.056				
LOWER LIMIT	89539	13.056				
EPA SAMPLE NO.						
TP-91	199718	13.56				
TP-80	191888	13.56				
TP-79	171439	13.56				
TP-95	184499	13.56				
VW0709SBL01	163801	13.56				
VW0709SBS01	151914	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2529
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-98	168081	7.97	382359	8.86	360038	11.63
TP-102	185474	7.97	405430	8.85	383839	11.64
TP-101	173749	7.96	404966	8.86	378578	11.64
TP-89	174642	7.97	393151	8.86	366298	11.64
TP-33	174896	7.97	394315	8.86	366550	11.64
TP-30	174243	7.97	376543	8.86	353548	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2529
 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-98	165092	13.56				
TP-102	173217	13.56				
TP-101	177324	13.56				
TP-89	174003	13.56				
TP-33	166714	13.56				
TP-30	161581	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13 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
VW031778.D	1	07/09/25 16:02	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	8.80	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.80	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	8.80	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	8.80	ug/Kg
75-00-3	Chloroethane	2.20	U	2.20	8.80	ug/Kg
75-69-4	Trichlorofluoromethane	2.10	U	2.10	8.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	1.90	8.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	8.80	ug/Kg
67-64-1	Acetone	8.30	U	8.30	43.9	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	8.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	8.80	ug/Kg
79-20-9	Methyl Acetate	2.70	U	2.70	8.80	ug/Kg
75-09-2	Methylene Chloride	6.20	UQ	6.20	17.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	8.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	8.80	ug/Kg
110-82-7	Cyclohexane	1.40	U	1.40	8.80	ug/Kg
78-93-3	2-Butanone	11.5	U	11.5	43.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	8.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	UQ	1.30	8.80	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	8.80	ug/Kg
67-66-3	Chloroform	1.50	U	1.50	8.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.80	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	8.80	ug/Kg
71-43-2	Benzene	1.40	U	1.40	8.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	8.80	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.60	U	1.60	8.80	ug/Kg
75-27-4	Bromodichloromethane	1.40	U	1.40	8.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.30	U	6.30	43.9	ug/Kg
108-88-3	Toluene	1.40	U	1.40	8.80	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031778.D	1	07/09/25 16:02	VW070925

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13 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
VW031778.D	1	07/09/25 16:02	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000575-43-9	Naphthalene, 1,6-dimethyl-	31.8	J		12.8	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	36.0	J		13.3	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	15.3	J		13.4	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\VW070925\
 Data File : VW031778.D
 Acq On : 09 Jul 2025 16:02
 Operator : SY/MD
 Sample : Q2529-01
 Misc : 3.13g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-91

Quant Time: Jul 10 01:28:30 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	218175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	444599	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	410314	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	199718	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	144047	46.006	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	92.020%
35) Dibromofluoromethane	7.904	113	126903	43.742	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	87.480%
50) Toluene-d8	10.331	98	486945	45.102	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	90.200%
62) 4-Bromofluorobenzene	12.617	95	177582	44.696	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	89.400%

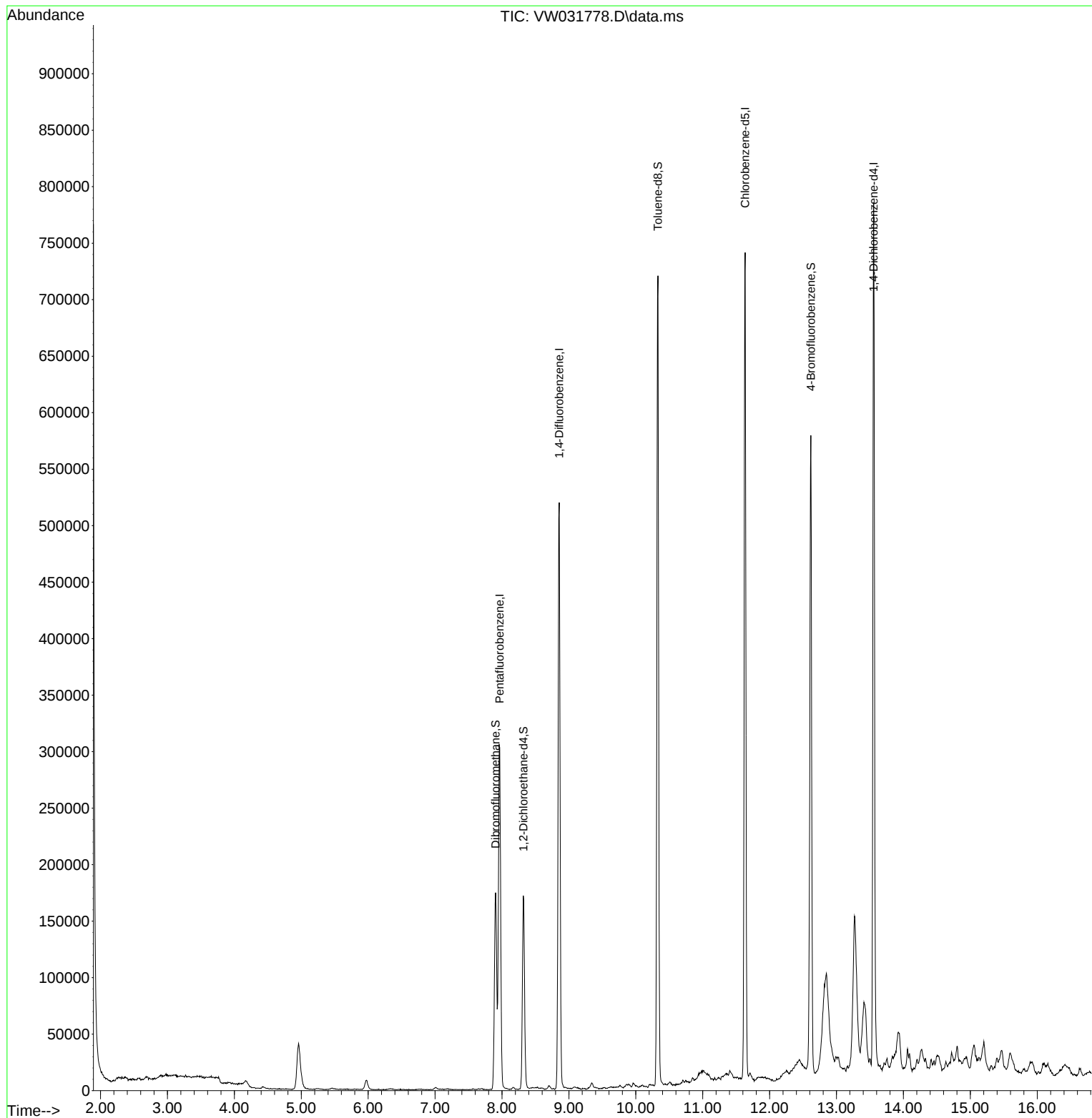
Target Compounds	Qvalue

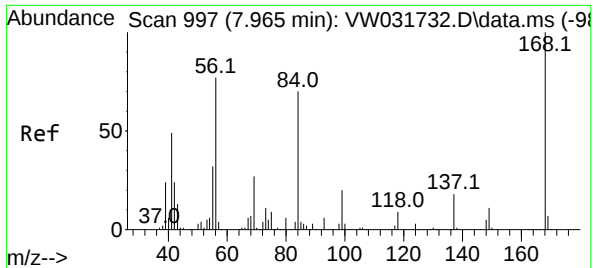
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

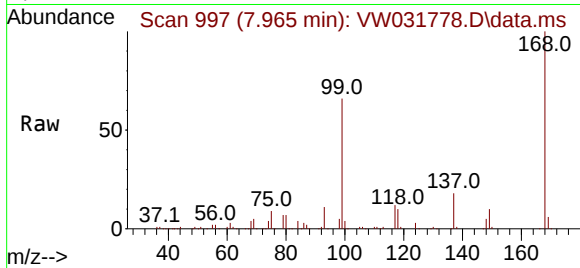
Quant Time: Jul 10 01:28:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



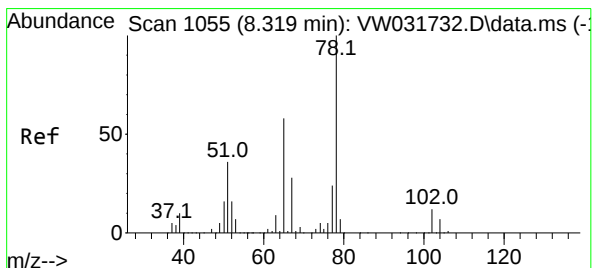
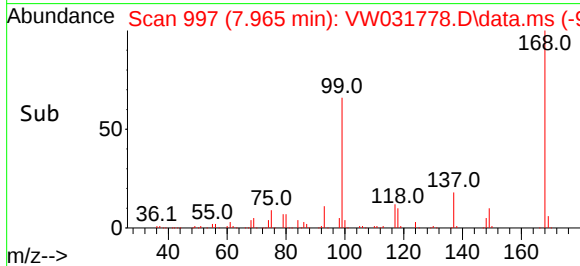
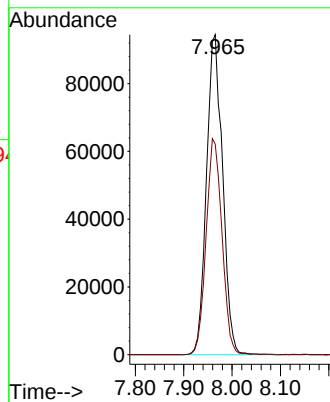


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

Instrument :
MSVOA_W
ClientSampleId :
TP-91

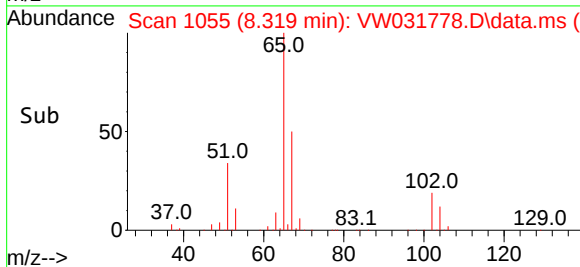
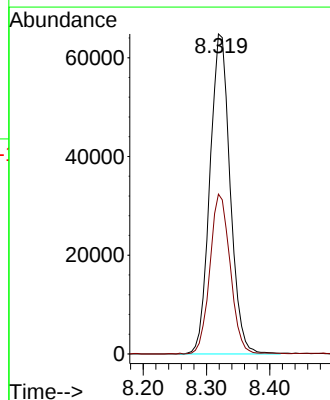
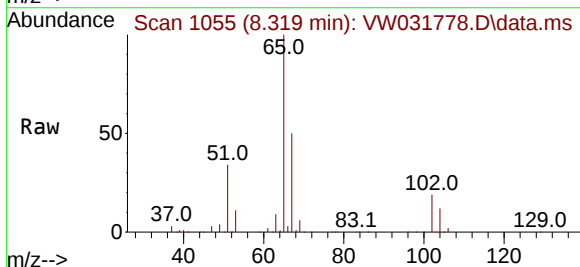


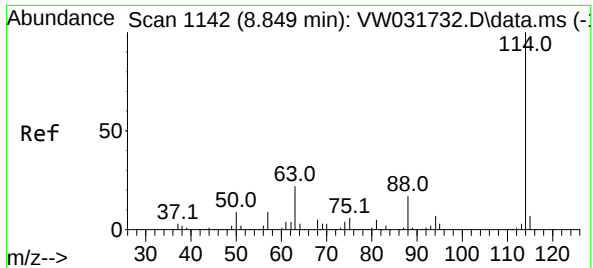
Tgt Ion:168 Resp: 218175
Ion Ratio Lower Upper
168 100
99 65.8 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 46.006 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

Tgt Ion: 65 Resp: 144047
Ion Ratio Lower Upper
65 100
67 49.9 0.0 99.4

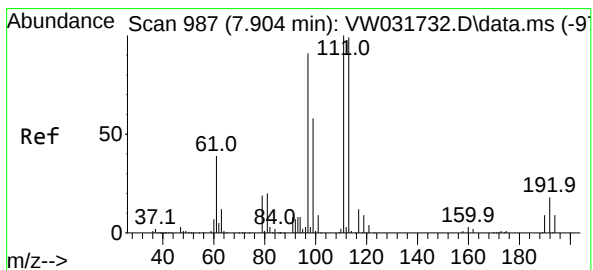
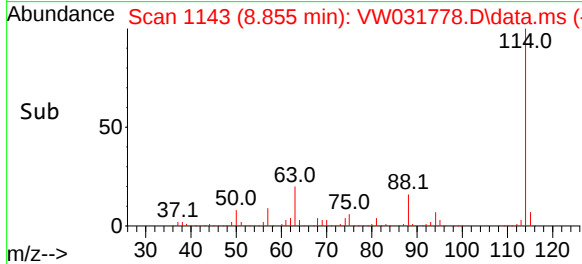
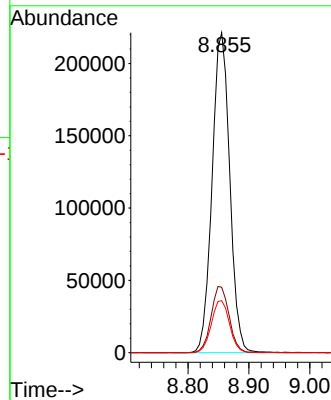
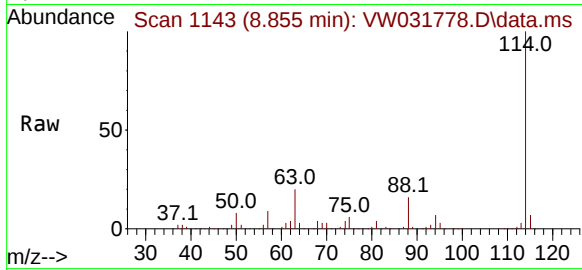




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

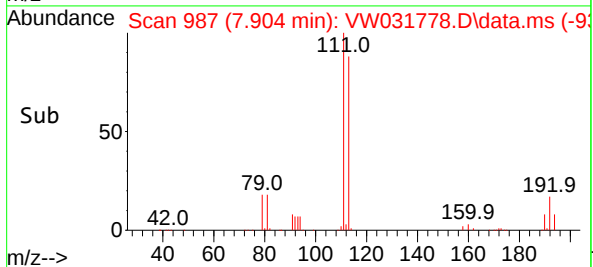
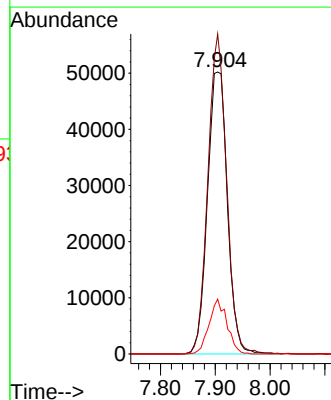
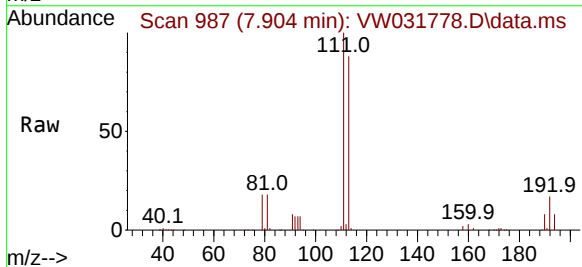
Instrument :
MSVOA_W
ClientSampleId :
TP-91

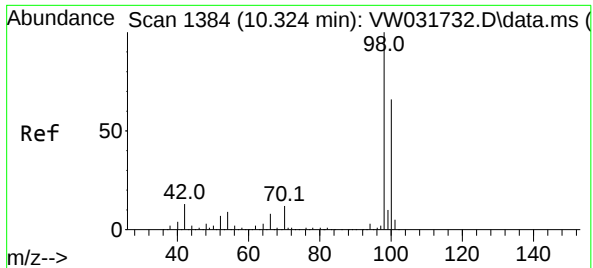
Tgt Ion:114 Resp: 444599
Ion Ratio Lower Upper
114 100
63 20.5 0.0 43.6
88 16.2 0.0 34.2



#35
Dibromofluoromethane
Concen: 43.742 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

Tgt Ion:113 Resp: 126903
Ion Ratio Lower Upper
113 100
111 106.0 82.1 123.1
192 17.5 13.8 20.6

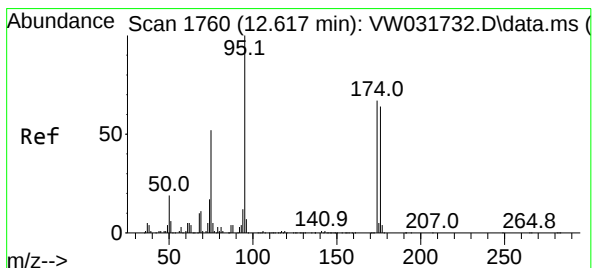
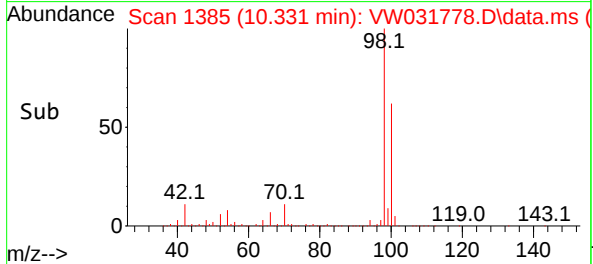
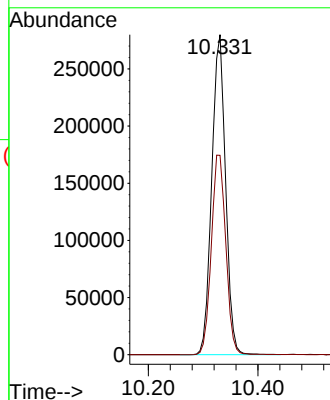
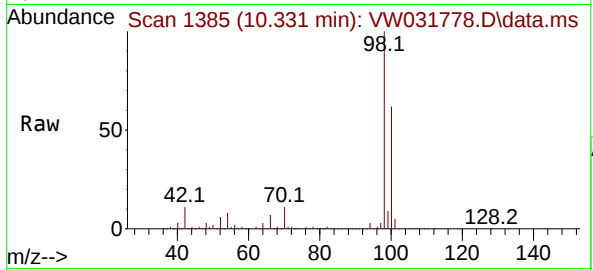




#50
Toluene-d8
Concen: 45.102 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

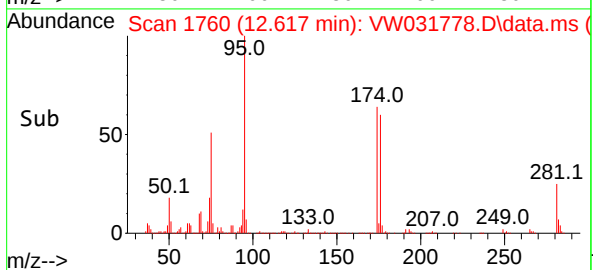
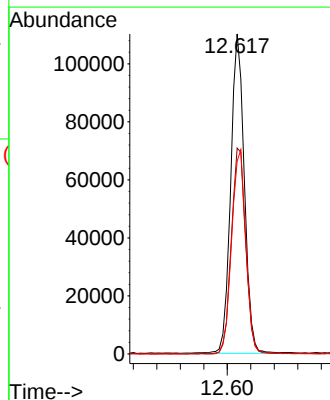
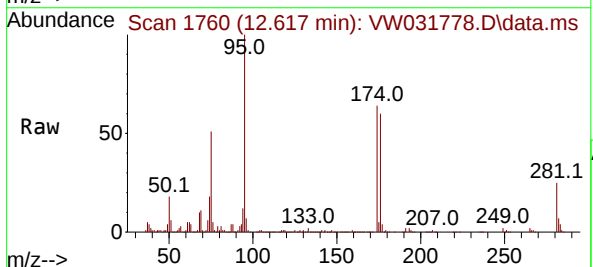
Instrument :
MSVOA_W
ClientSampleId :
TP-91

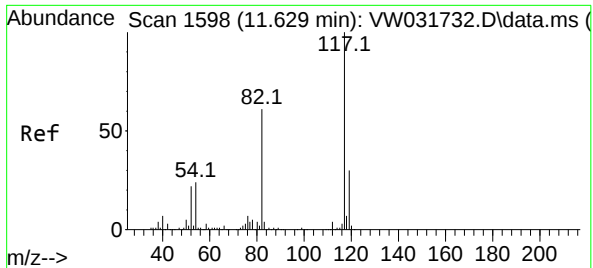
Tgt Ion: 98 Resp: 486945
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 44.696 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

Tgt Ion: 95 Resp: 177582
Ion Ratio Lower Upper
95 100
174 67.3 0.0 133.8
176 66.6 0.0 126.0

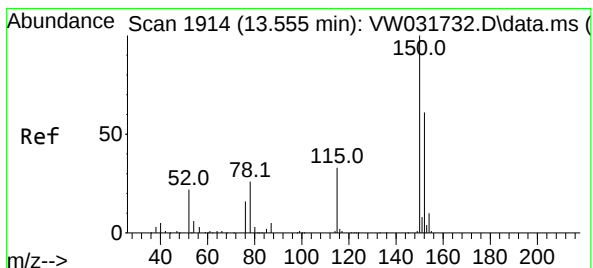
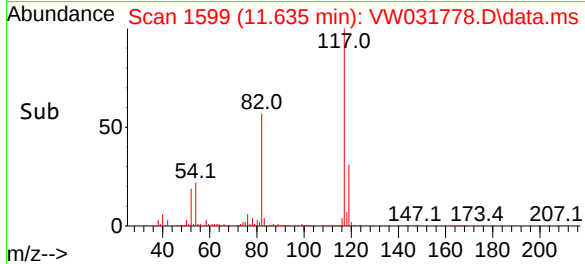
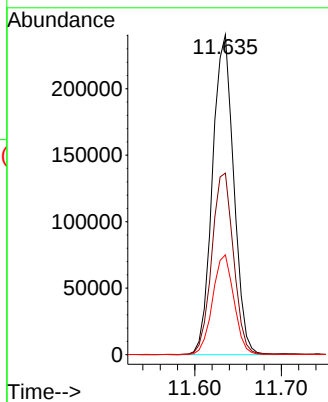
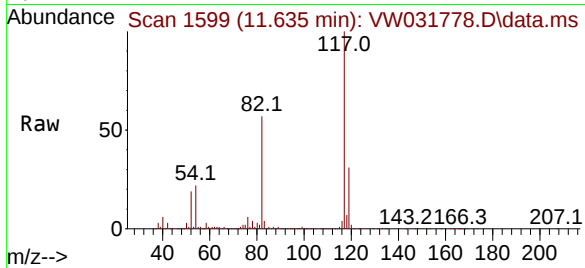




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW031778.D
Acq: 09 Jul 2025 16:02

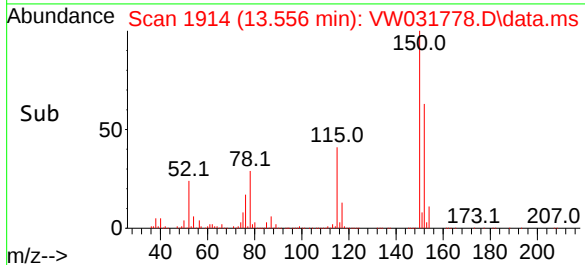
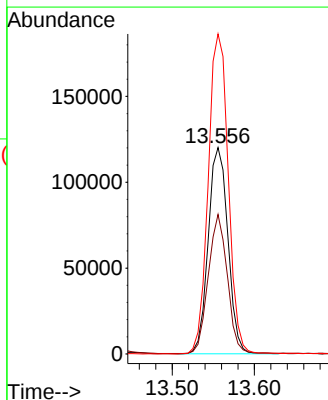
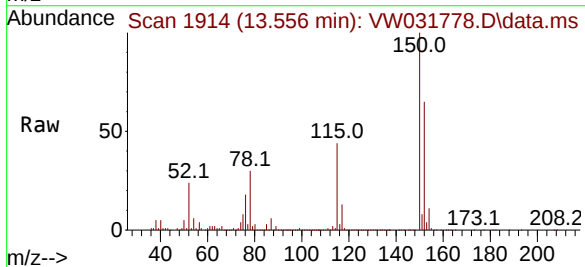
Instrument :
MSVOA_W
ClientSampleId :
TP-91

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	48.6	72.8
119	31.2	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: VW031778.D
Acq: 09 Jul 2025 16:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.1	31.9	95.7
150	158.0	0.0	356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031778.D
 Acq On : 09 Jul 2025 16:02
 Operator : SY/MD
 Sample : Q2529-01
 Misc : 3.13g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-91

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: VW031778.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	367	374	384	rVB5	5491	20868	1.60%	0.225%
2	4.960	491	504	520	rBV3	40301	153784	11.82%	1.660%
3	5.978	660	671	684	rVB3	8184	26374	2.03%	0.285%
4	7.904	977	987	991	rBV	174257	414432	31.86%	4.474%
5	7.959	991	996	1013	rVB	304003	710429	54.62%	7.669%
6	8.319	1046	1055	1071	rBV	171072	383751	29.50%	4.142%
7	8.855	1132	1143	1155	rBV	519314	1060493	81.53%	11.447%
8	10.331	1377	1385	1399	rBV	716548	1300793	100.00%	14.041%
9	11.404	1559	1561	1572	rVB	6643	16051	1.23%	0.173%
10	11.635	1591	1599	1607	rBV	730041	1272079	97.79%	13.731%
11	12.617	1752	1760	1770	rVB4	564476	1088531	83.68%	11.750%
12	12.849	1781	1798	1818	rVB3	78110	467896	35.97%	5.051%
13	13.269	1855	1867	1881	rBV2	132156	529355	40.69%	5.714%
14	13.409	1881	1890	1902	rVB5	53309	224528	17.26%	2.424%
15	13.556	1908	1914	1925	rVB	763724	1291799	99.31%	13.944%
16	13.922	1969	1974	1986	rVB4	32464	113822	8.75%	1.229%
17	14.062	1993	1997	2000	rBV2	14260	21490	1.65%	0.232%
18	14.720	2102	2105	2110	rBV7	9705	17011	1.31%	0.184%
19	15.055	2151	2160	2164	rBV4	19690	62270	4.79%	0.672%
20	15.397	2211	2216	2220	rBV8	8637	18591	1.43%	0.201%
21	15.592	2243	2248	2266	rVB9	16765	69799	5.37%	0.753%

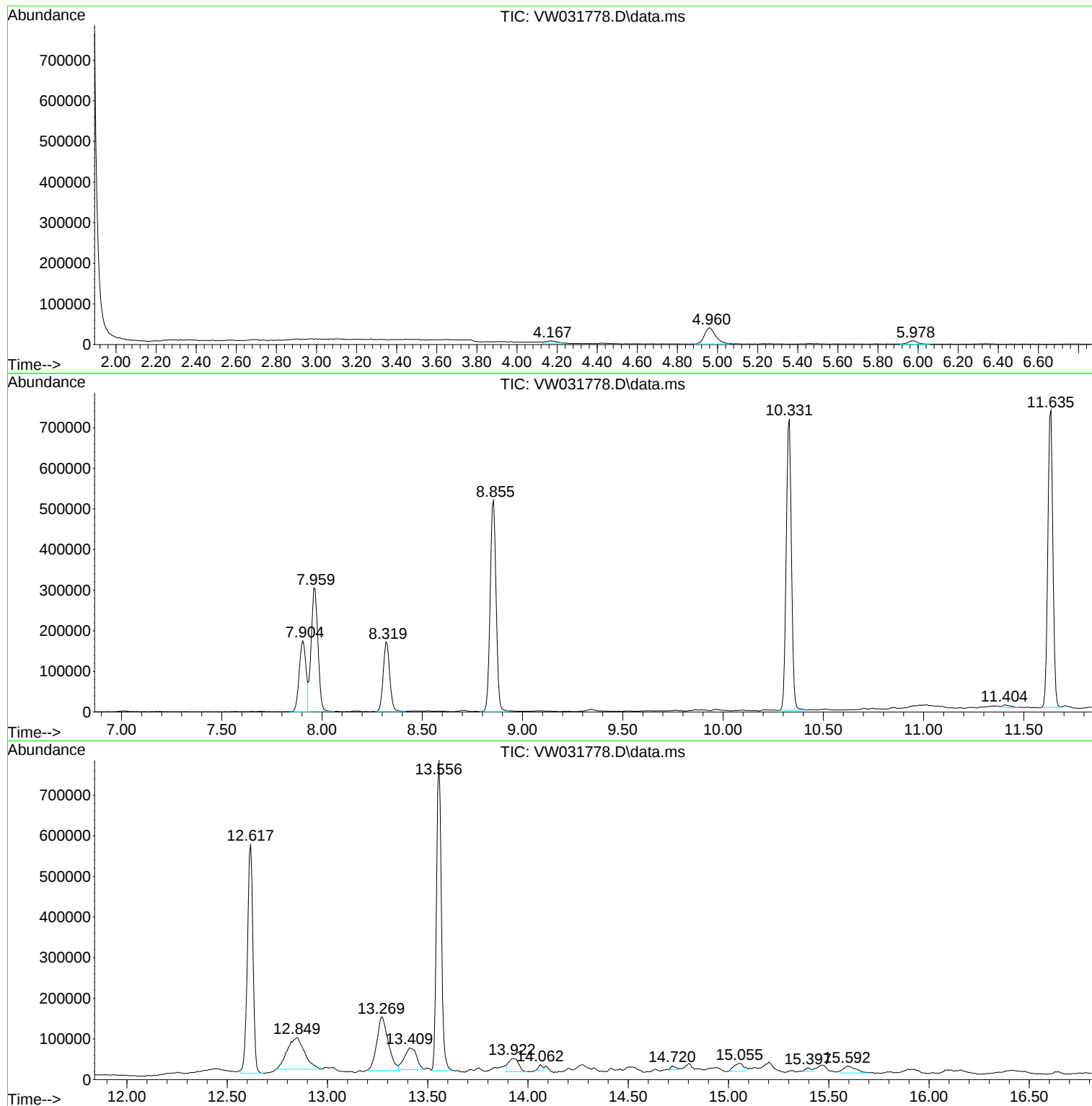
Sum of corrected areas: 9264146

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

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\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

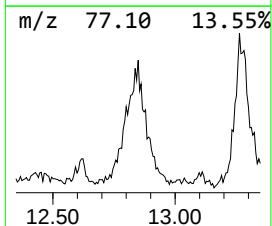
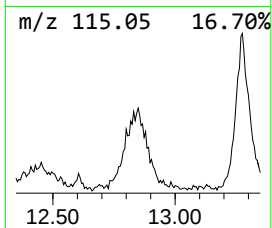
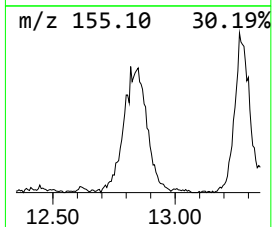
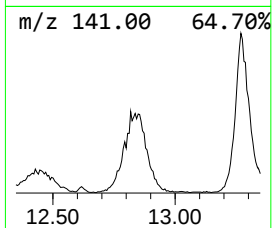
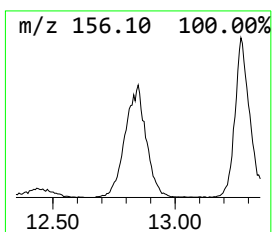
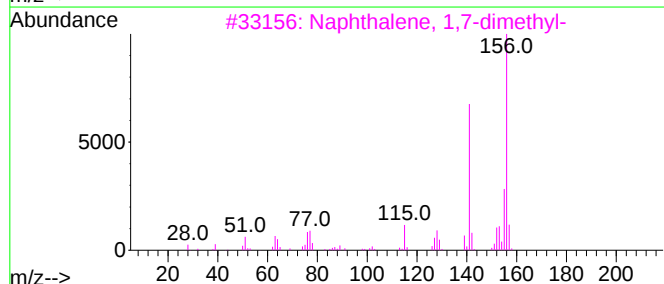
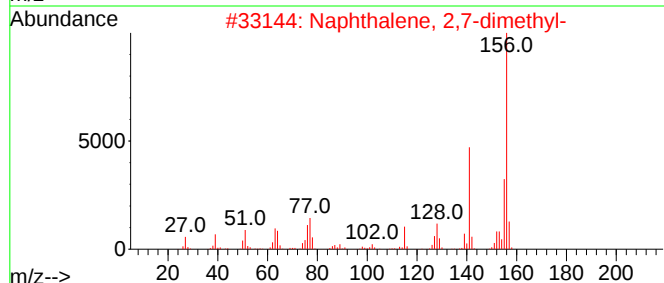
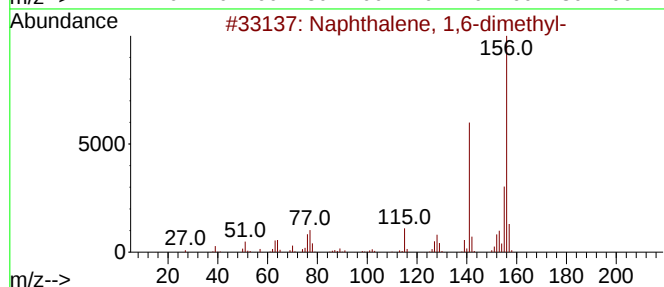
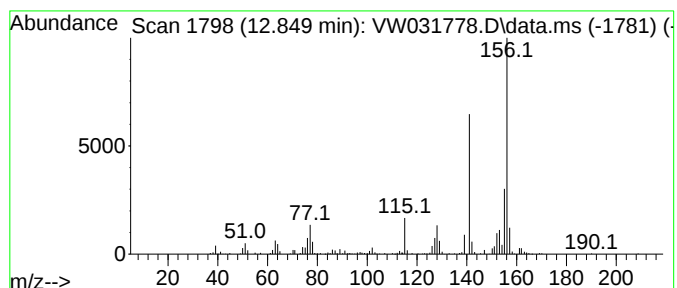
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.849	18.11 ug/l	467896	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2			Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4			Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
5			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

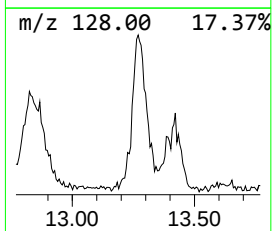
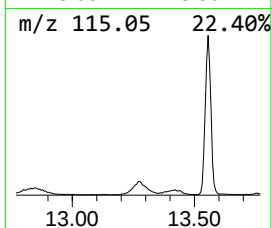
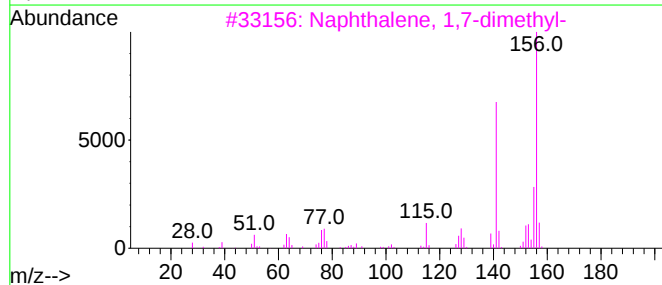
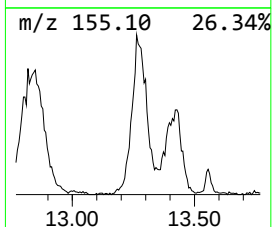
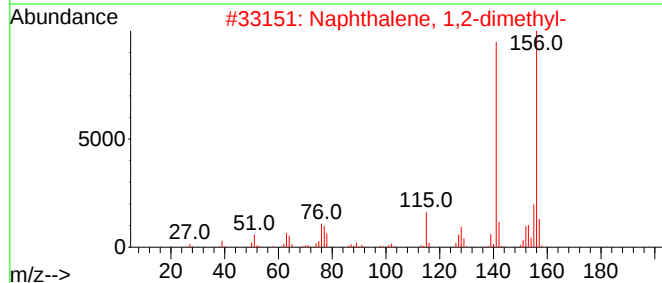
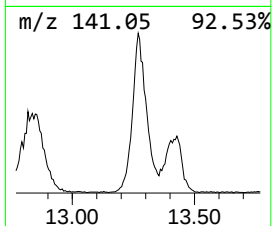
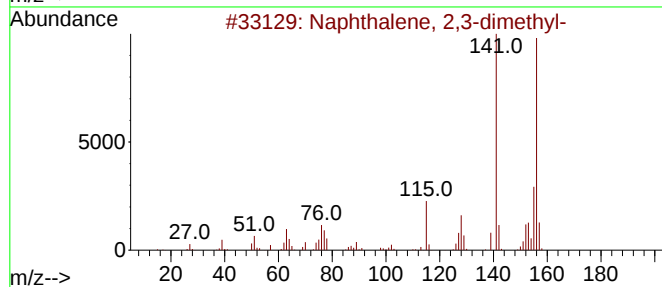
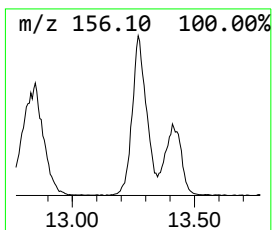
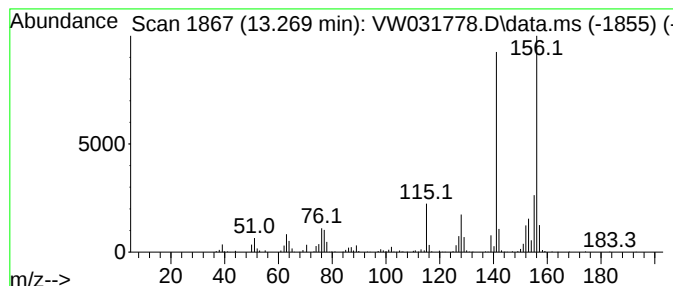
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

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

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.269	20.49 ug/l	529355	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2			Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

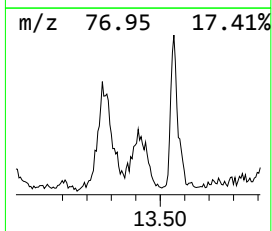
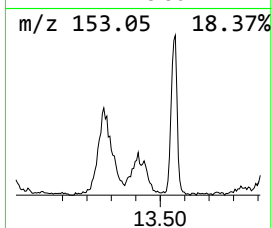
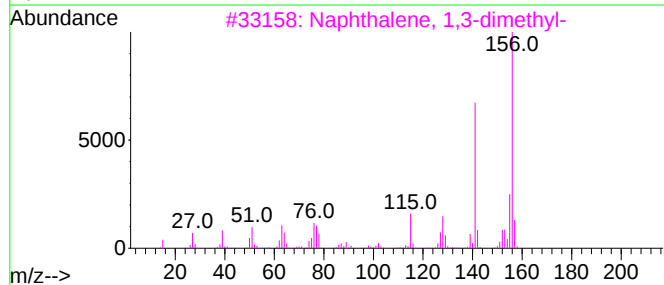
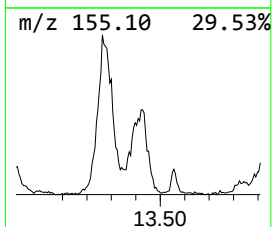
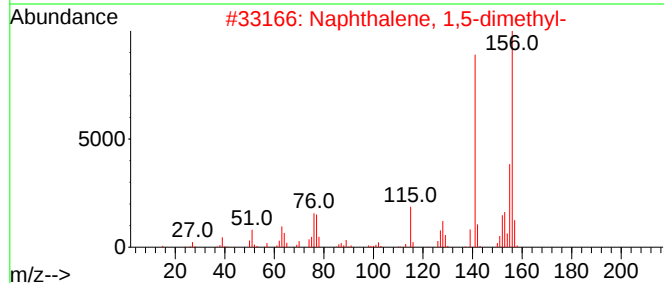
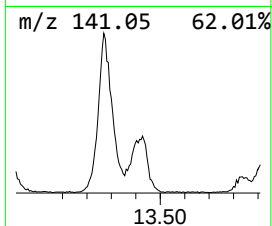
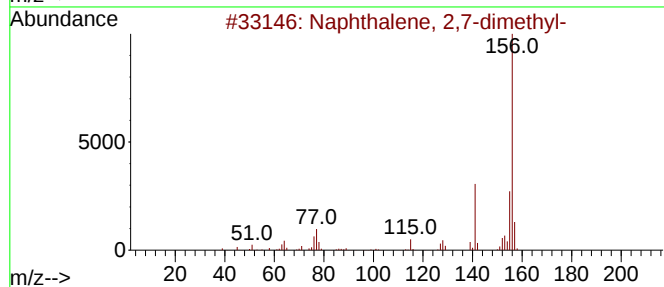
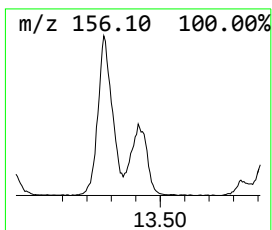
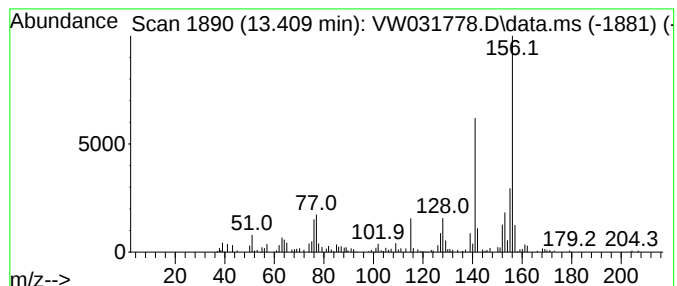
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

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

Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.409	8.69 ug/l	224528	1,4-Dichlorobenzene-d4	13.556

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2			Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
3			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031778.D
Acq On : 09 Jul 2025 16:02
Operator : SY/MD
Sample : Q2529-01
Misc : 3.13g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-91

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene, 1,...	12.849	18.1	ug/l	467896	4	13.556	1291800	50.0
Naphthalene, 2,...	13.269	20.5	ug/l	529355	4	13.556	1291800	50.0
Naphthalene, 2,...	13.409	8.7	ug/l	224528	4	13.556	1291800	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47 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
VW031779.D	1	07/09/25 16:24	VW070925

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	0.80	U	0.80	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	9.30	J	4.80	25.2	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.00	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	9.00	JQ	3.60	10.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.87	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.00	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.98	U	0.98	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.76	UQ	0.76	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.94	U	0.94	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.92	U	0.92	5.00	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.92	U	0.92	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.79	U	0.79	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.2	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47 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
VW031779.D	1	07/09/25 16:24	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	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	0.93	U	0.93	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.2	ug/Kg
124-48-1	Dibromochloromethane	0.88	U	0.88	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.89	U	0.89	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.92	U	0.92	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.1	ug/Kg
95-47-6	o-Xylene	0.83	U	0.83	5.00	ug/Kg
100-42-5	Styrene	0.72	U	0.72	5.00	ug/Kg
75-25-2	Bromoform	0.87	U	0.87	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	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	1.90	U	1.90	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	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		70 - 134	90%	SPK: 50
2037-26-5	Toluene-d8	44.9		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		17 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	214000	7.965			
540-36-3	1,4-Difluorobenzene	434000	8.855			
3114-55-4	Chlorobenzene-d5	390000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47 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
VW031779.D	1	07/09/25 16:24	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VW070925\
 Data File : VW031779.D
 Acq On : 09 Jul 2025 16:24
 Operator : SY/MD
 Sample : Q2529-02
 Misc : 5.47g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-80

Quant Time: Jul 10 01:28:54 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)

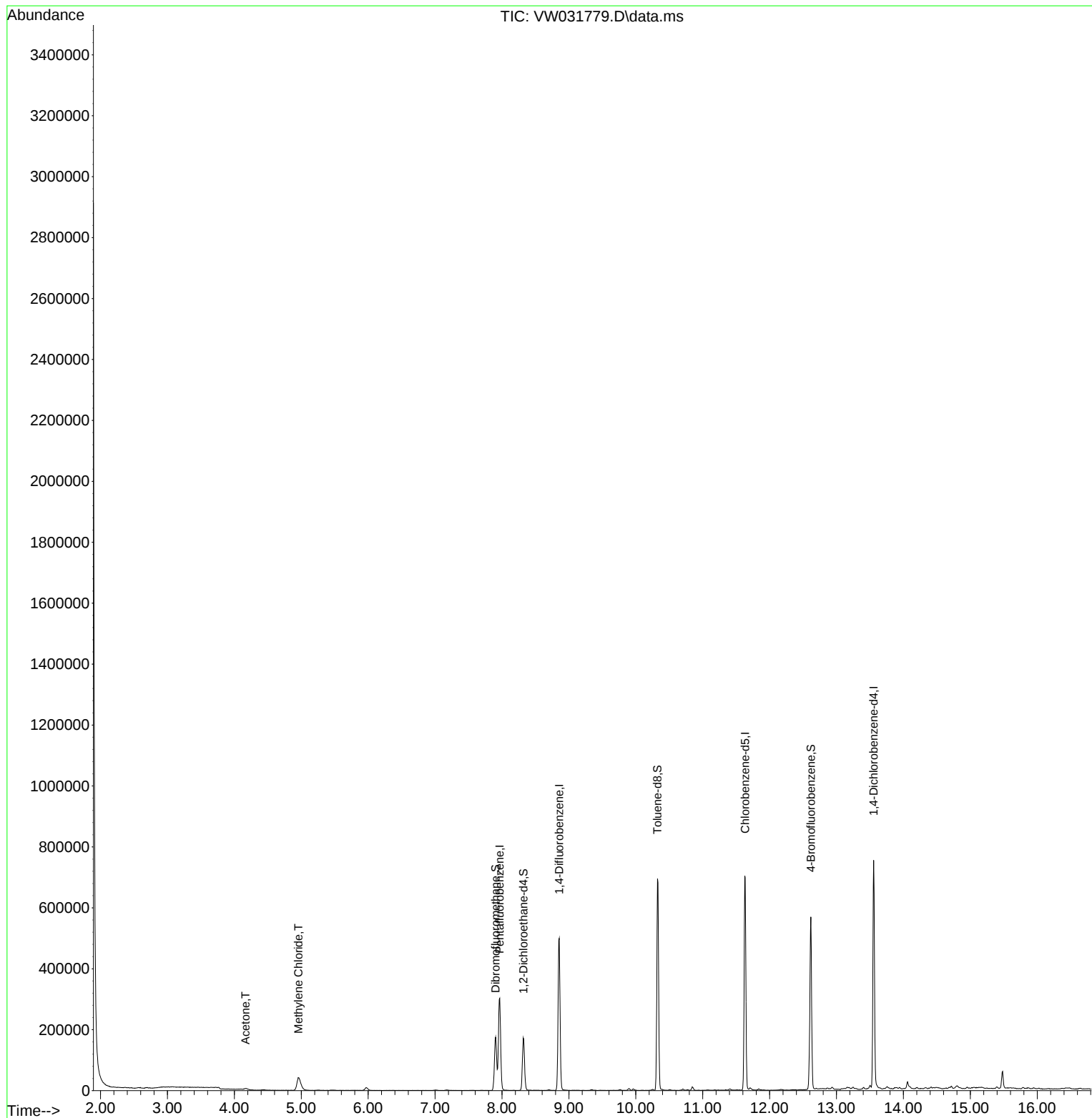
Internal Standards						
1) Pentafluorobenzene	7.965	168	214090	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	434266	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	389918	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191888	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	143261	46.628	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	93.260%
35) Dibromofluoromethane	7.904	113	127000	44.817	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	89.640%
50) Toluene-d8	10.325	98	473405	44.891	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	89.780%
62) 4-Bromofluorobenzene	12.617	95	174663	45.007	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	90.020%
Target Compounds						
16) Acetone	4.167	43	6978	9.189	ug/l	95
20) Methylene Chloride	4.960	84	38548	8.963	ug/l	94

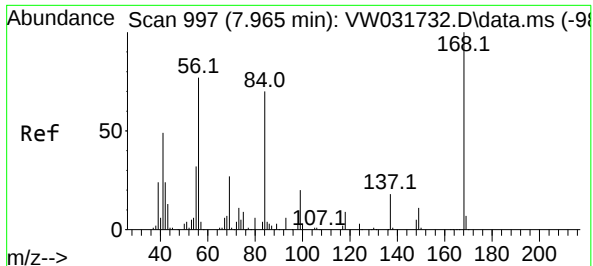
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031779.D
Acq On : 09 Jul 2025 16:24
Operator : SY/MD
Sample : Q2529-02
Misc : 5.47g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-80

Quant Time: Jul 10 01:28:54 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

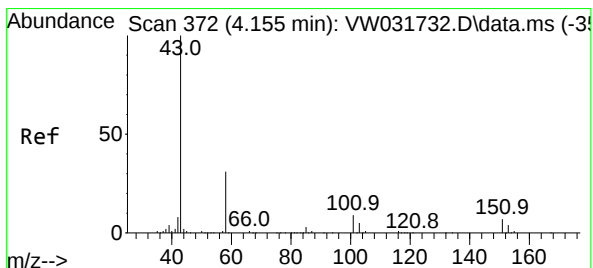
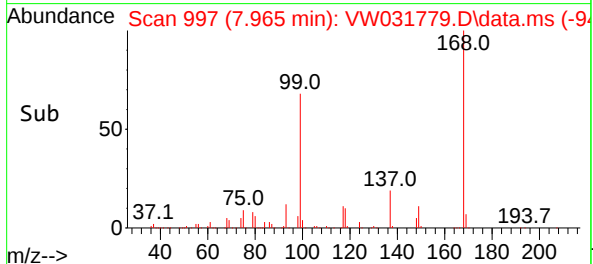
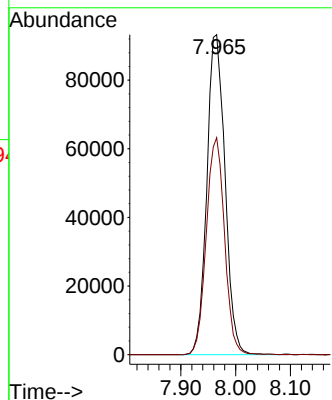
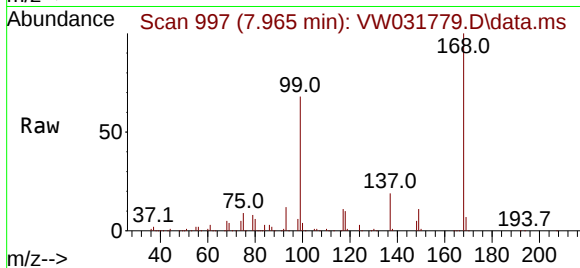




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031779.D
Acq: 09 Jul 2025 16:24

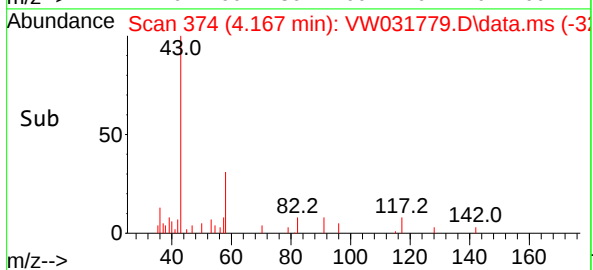
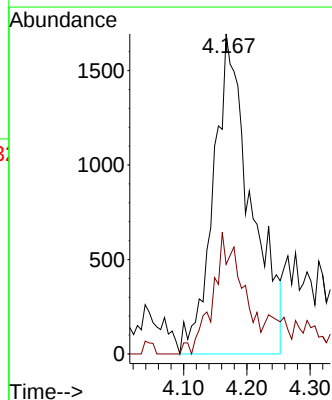
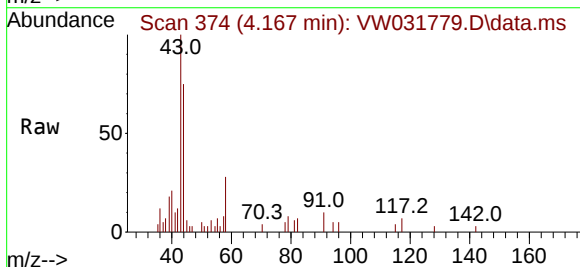
Instrument :
MSVOA_W
ClientSampleId :
TP-80

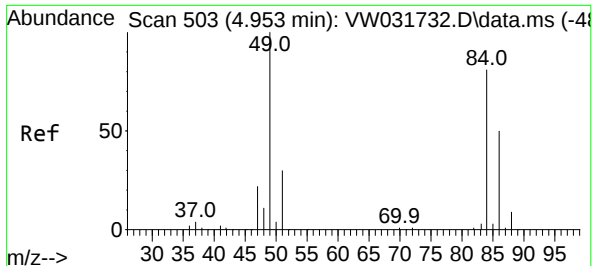
Tgt Ion:168 Resp: 214090
Ion Ratio Lower Upper
168 100
99 67.8 49.4 74.2



#16
Acetone
Concen: 9.189 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.012 min
Lab File: VW031779.D
Acq: 09 Jul 2025 16:24

Tgt Ion: 43 Resp: 6978
Ion Ratio Lower Upper
43 100
58 28.0 24.8 37.2





#20

Methylene Chloride

Concen: 8.963 ug/l

RT: 4.960 min Scan# 503

Delta R.T. 0.006 min

Lab File: VW031779.D

Acq: 09 Jul 2025 16:24

Instrument :

MSVOA_W

ClientSampleId :

TP-80

Tgt Ion: 84 Resp: 38548

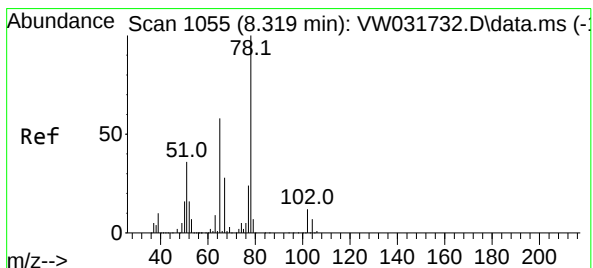
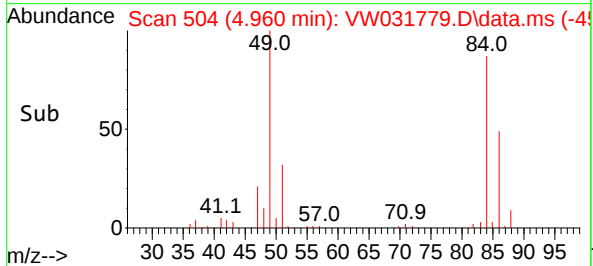
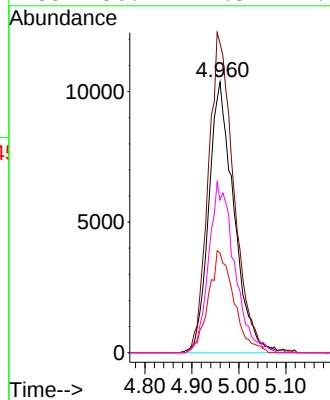
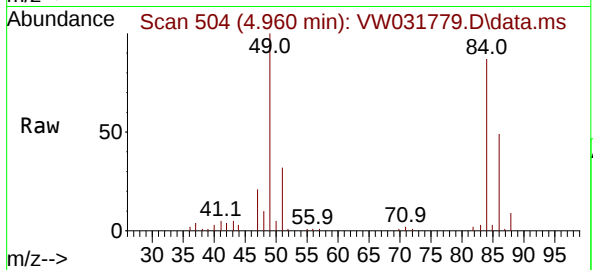
Ion Ratio Lower Upper

84 100

49 114.4 98.2 147.4

51 36.9 29.8 44.8

86 56.4 49.5 74.3



#33

1,2-Dichloroethane-d4

Concen: 46.628 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW031779.D

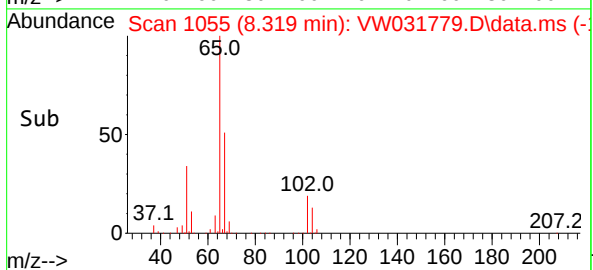
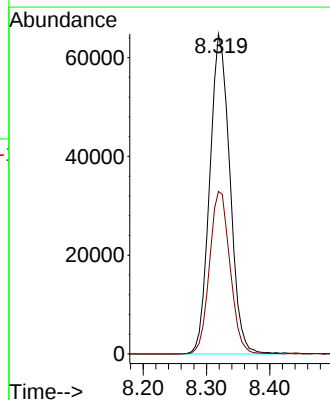
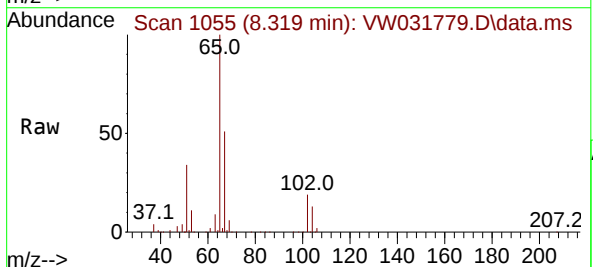
Acq: 09 Jul 2025 16:24

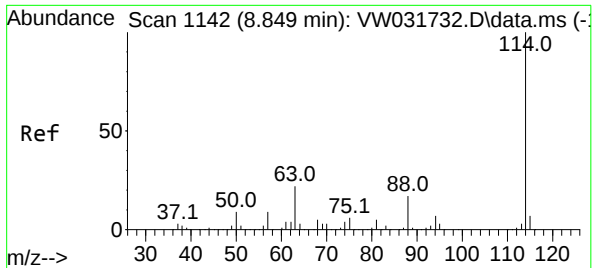
Tgt Ion: 65 Resp: 143261

Ion Ratio Lower Upper

65 100

67 51.7 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VW031779.D

Acq: 09 Jul 2025 16:24

Instrument :

MSVOA_W

ClientSampleId :

TP-80

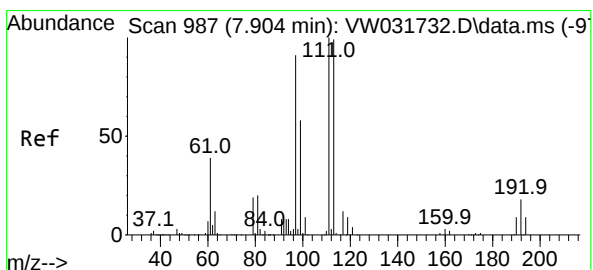
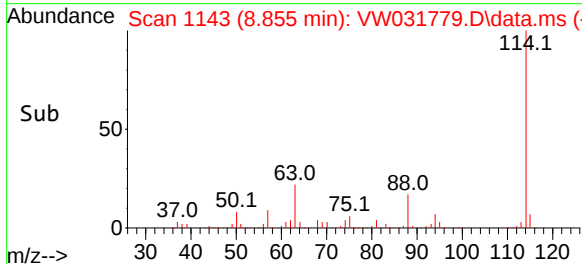
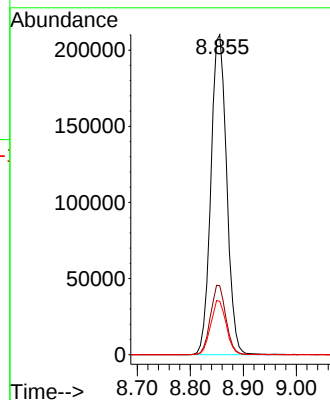
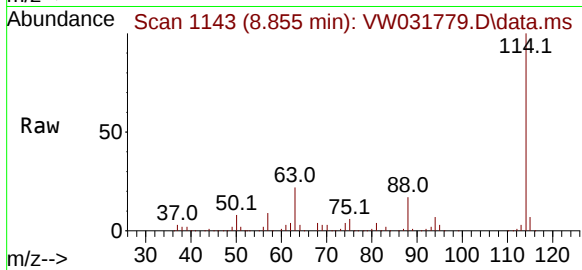
Tgt Ion:114 Resp: 434266

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.6

88 16.7 0.0 34.2



#35

Dibromofluoromethane

Concen: 44.817 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031779.D

Acq: 09 Jul 2025 16:24

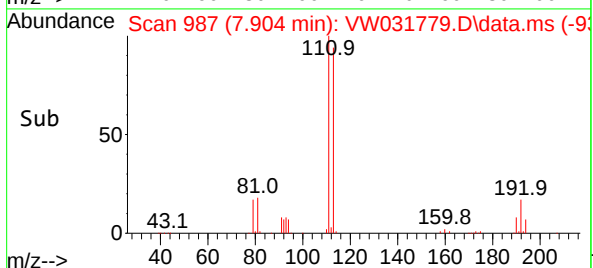
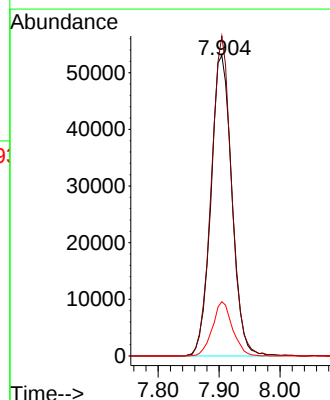
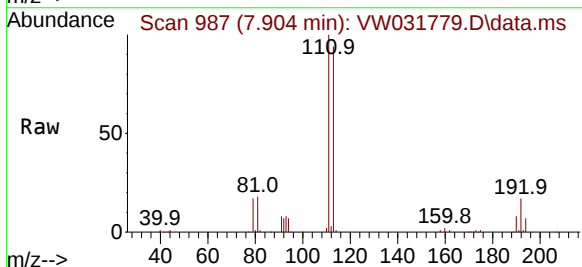
Tgt Ion:113 Resp: 127000

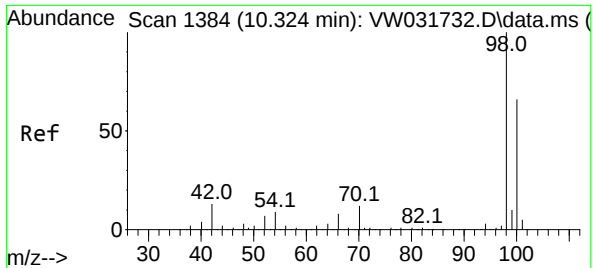
Ion Ratio Lower Upper

113 100

111 102.7 82.1 123.1

192 17.2 13.8 20.6

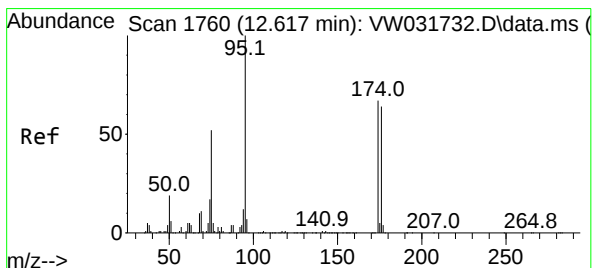
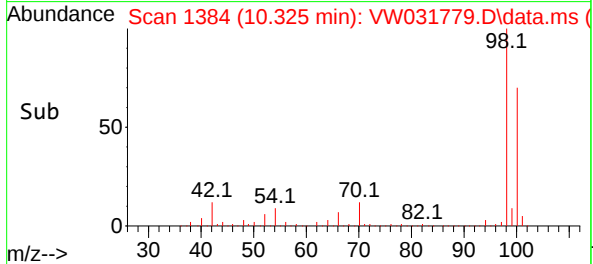
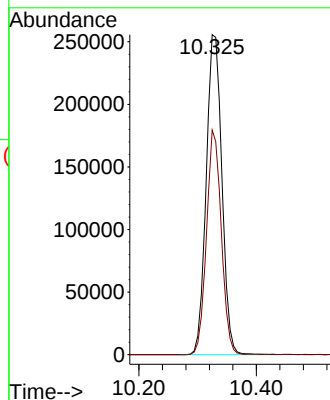
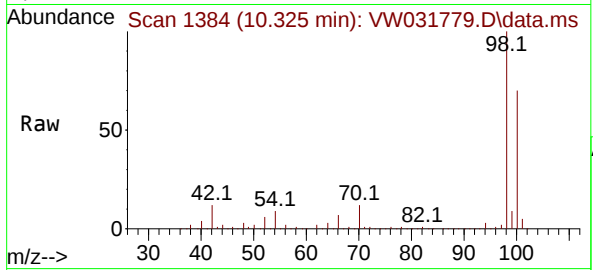




#50
Toluene-d8
Concen: 44.891 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031779.D
Acq: 09 Jul 2025 16:24

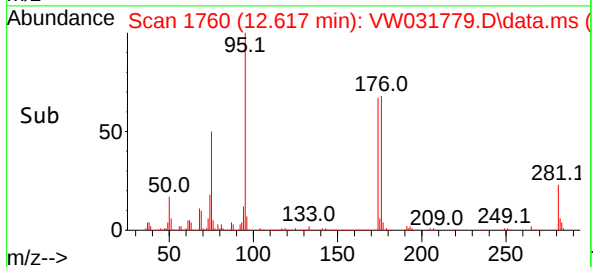
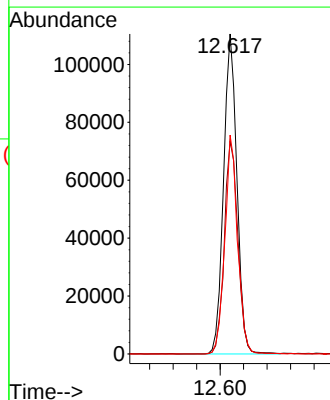
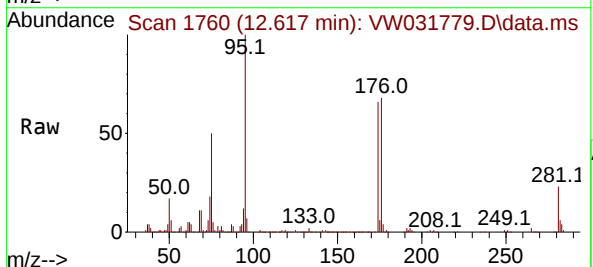
Instrument :
MSVOA_W
ClientSampleId :
TP-80

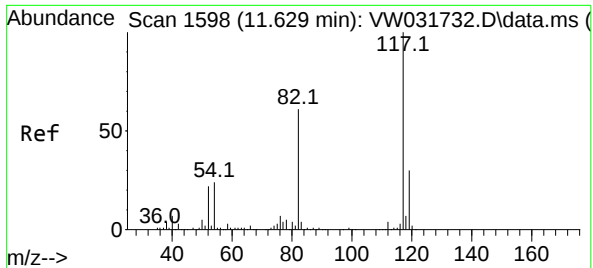
Tgt Ion: 98 Resp: 473405
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 45.007 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031779.D
Acq: 09 Jul 2025 16:24

Tgt Ion: 95 Resp: 174663
Ion Ratio Lower Upper
95 100
174 67.5 0.0 133.8
176 65.6 0.0 126.0

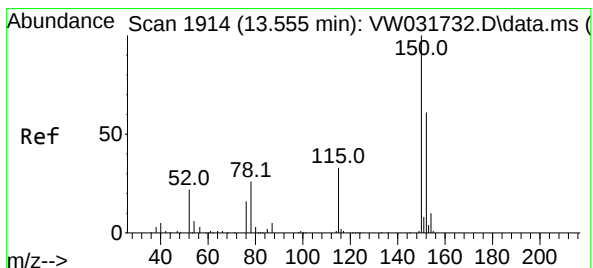
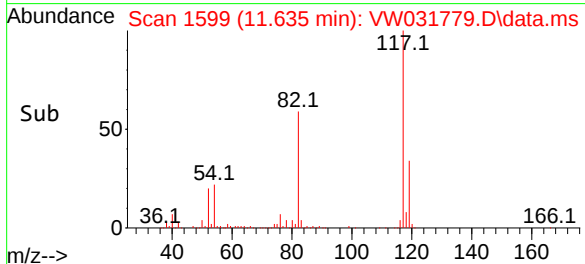
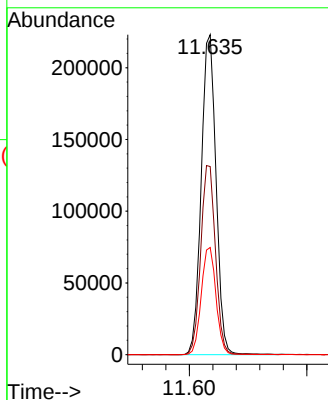
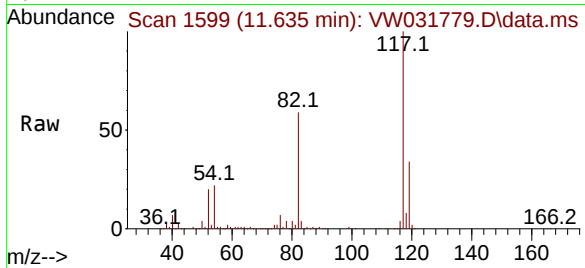




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW031779.D
Acq: 09 Jul 2025 16:24

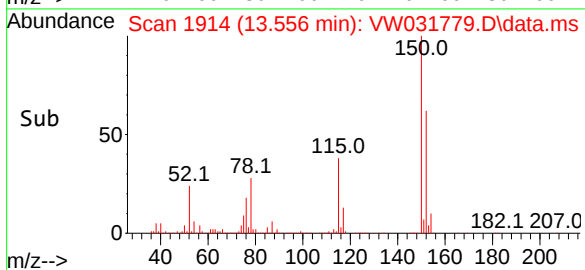
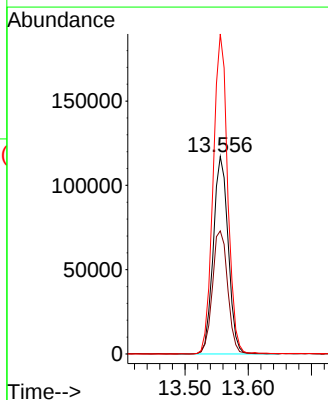
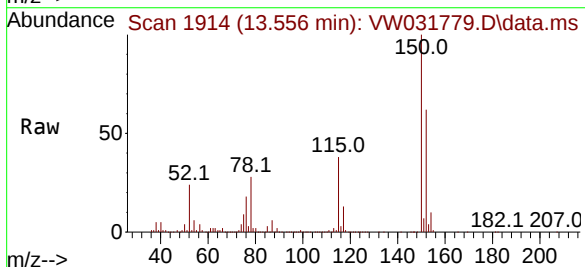
Instrument :
MSVOA_W
ClientSampleId :
TP-80

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.8	48.6	72.8
119	33.5	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: VW031779.D
Acq: 09 Jul 2025 16:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.6	31.9	95.7
150	157.7	0.0	356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031779.D
 Acq On : 09 Jul 2025 16:24
 Operator : SY/MD
 Sample : Q2529-02
 Misc : 5.47g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-80

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: VW031779.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	491	503	522	rBV	41705	175108	13.91%	2.293%
2	5.966	660	669	683	rBV2	9066	28686	2.28%	0.376%
3	7.904	974	987	991	rBV	174825	405358	32.21%	5.307%
4	7.965	991	997	1009	rVB	301802	699525	55.59%	9.159%
5	8.319	1046	1055	1067	rBV	172239	385403	30.63%	5.046%
6	8.855	1133	1143	1157	rBV	499005	1031966	82.00%	13.512%
7	10.325	1377	1384	1393	rBV	694532	1258439	100.00%	16.477%
8	11.629	1590	1598	1608	rBV	703504	1241584	98.66%	16.256%
9	12.617	1749	1760	1770	rBV2	566936	1037051	82.41%	13.578%
10	13.556	1908	1914	1927	rVB	747191	1227435	97.54%	16.071%
11	14.062	1990	1997	2012	rVB2	22536	52218	4.15%	0.684%
12	15.482	2224	2230	2237	rBV	54541	94774	7.53%	1.241%

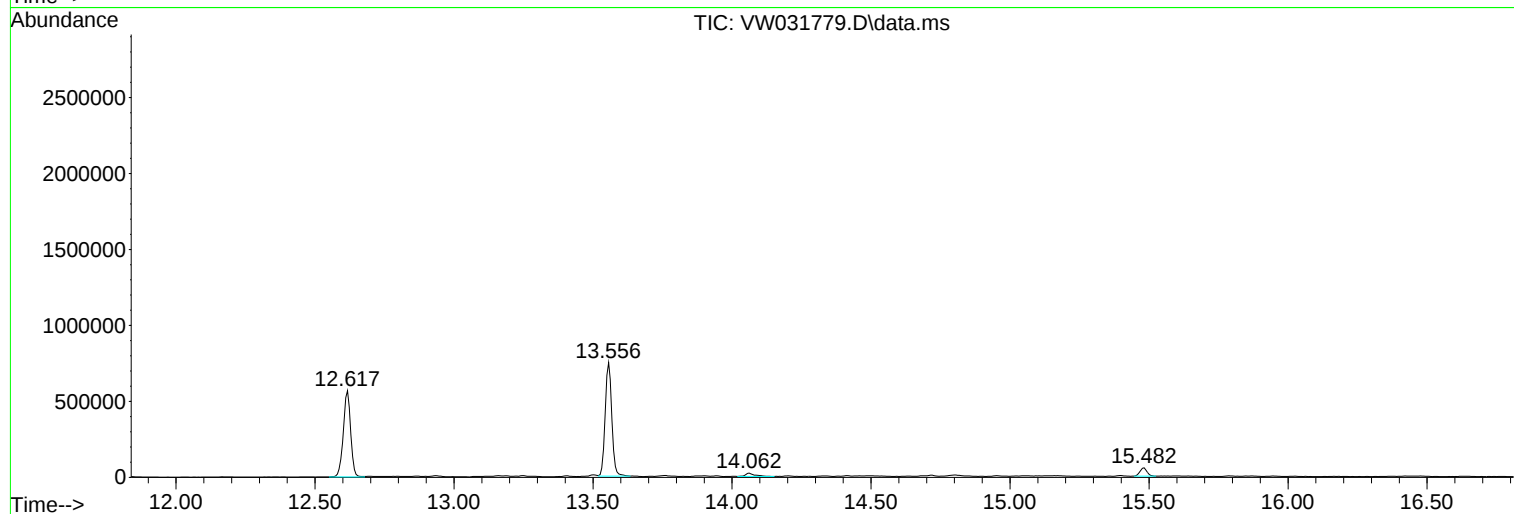
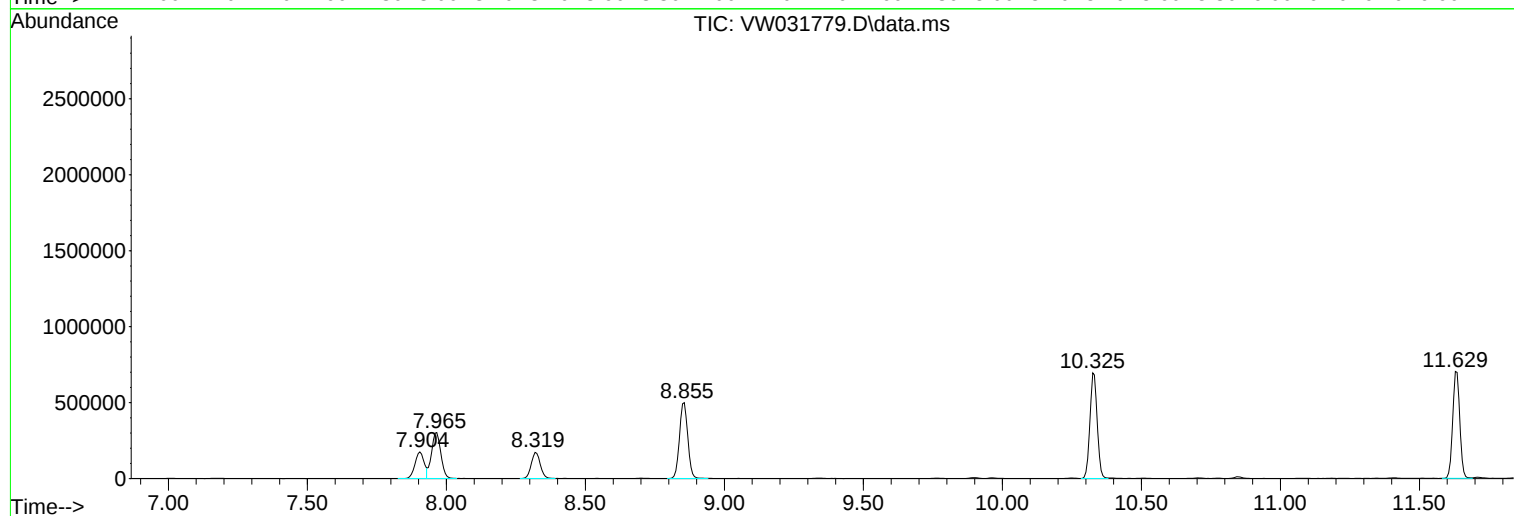
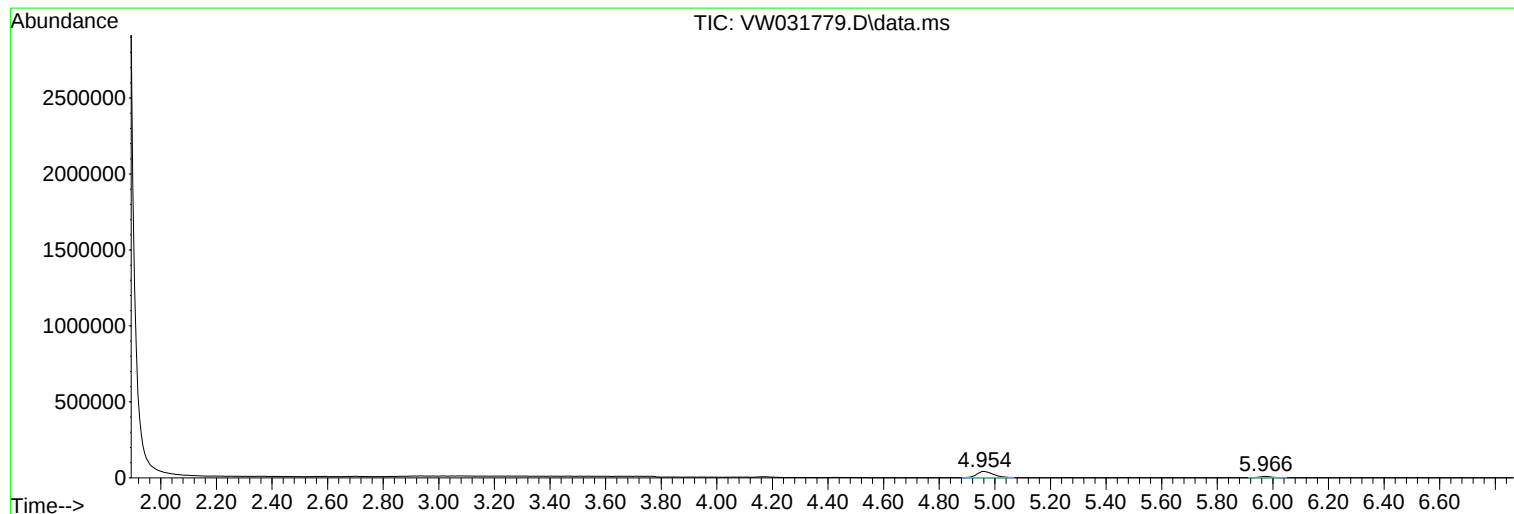
Sum of corrected areas: 7637547

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031779.D
Acq On : 09 Jul 2025 16:24
Operator : SY/MD
Sample : Q2529-02
Misc : 5.47g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-80

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\VW070925\
Data File : VW031779.D
Acq On : 09 Jul 2025 16:24
Operator : SY/MD
Sample : Q2529-02
Misc : 5.47g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-80

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031779.D
Acq On : 09 Jul 2025 16:24
Operator : SY/MD
Sample : Q2529-02
Misc : 5.47g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-80

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21 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
VW031780.D	1	07/09/25 16:46	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	4.40	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.2	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	8.90	Q	3.10	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	UQ	0.67	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.2	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21 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
VW031780.D	1	07/09/25 16:46	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.2	ug/Kg
124-48-1	Dibromochloromethane	0.77	U	0.77	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.78	U	0.78	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.93	U	0.93	4.40	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.90	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	4.40	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.40	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	44.0		70 - 134	88%	SPK: 50
2037-26-5	Toluene-d8	45.8		74 - 123	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	191000	7.965			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	368000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21 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
VW031780.D	1	07/09/25 16:46	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VW070925\
 Data File : VW031780.D
 Acq On : 09 Jul 2025 16:46
 Operator : SY/MD
 Sample : Q2529-03
 Misc : 6.21g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-79

Quant Time: Jul 10 01:29:16 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)

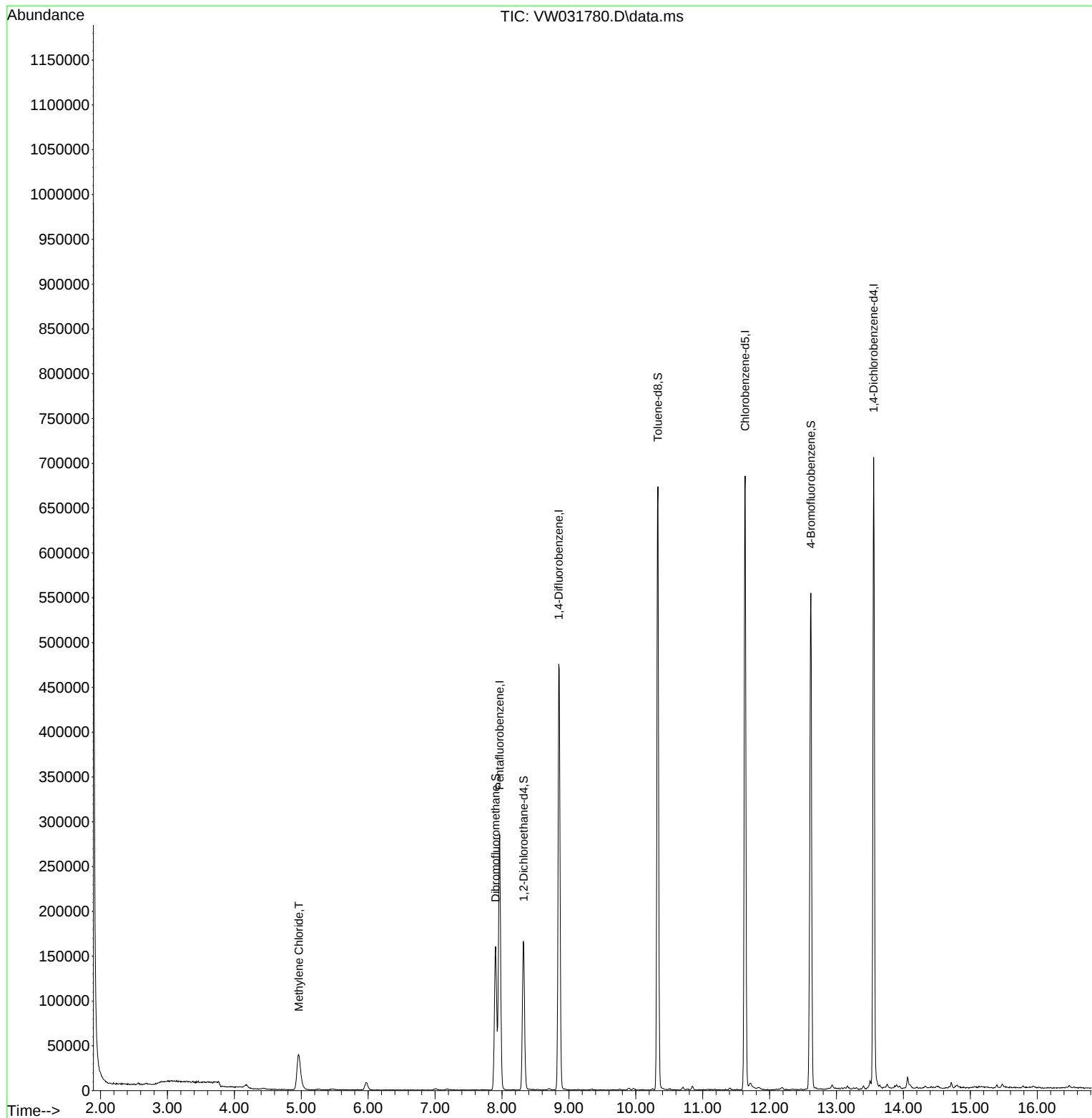
Internal Standards						
1) Pentafluorobenzene	7.965	168	191026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	402933	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	367838	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	171439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	142367	51.932	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	103.860%	
35) Dibromofluoromethane	7.904	113	115678	43.996	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	88.000%	
50) Toluene-d8	10.331	98	448117	45.798	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	91.600%	
62) 4-Bromofluorobenzene	12.617	95	169180	46.984	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	93.960%	
Target Compounds						
20) Methylene Chloride	4.966	84	36917	9.965	ug/l	Qvalue 96

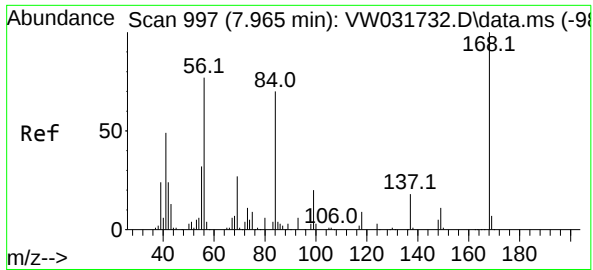
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031780.D
Acq On : 09 Jul 2025 16:46
Operator : SY/MD
Sample : Q2529-03
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-79

Quant Time: Jul 10 01:29:16 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

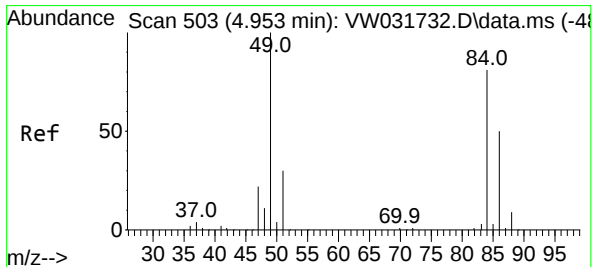
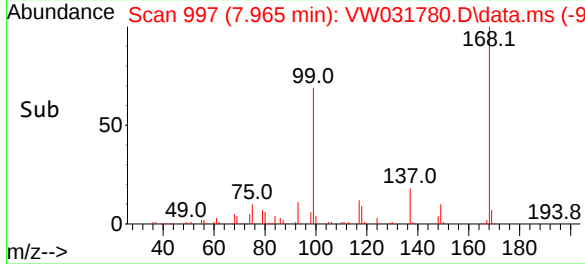
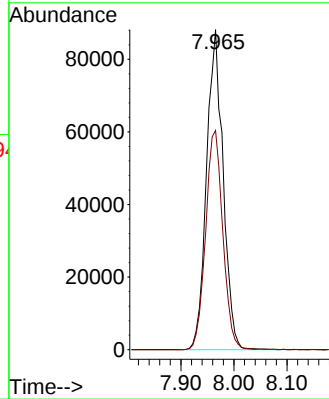
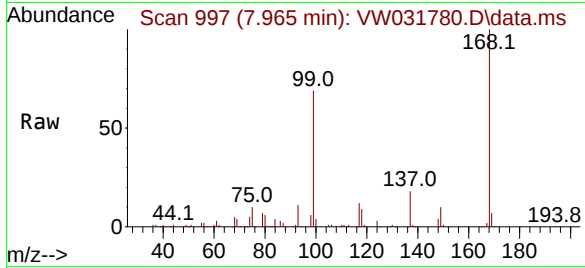




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

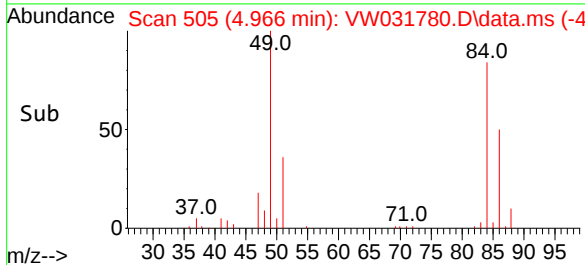
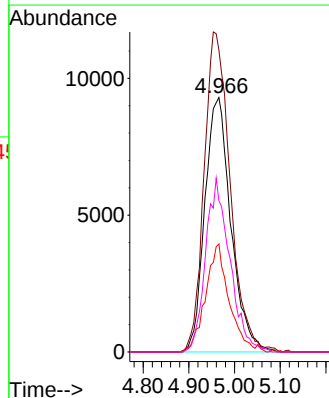
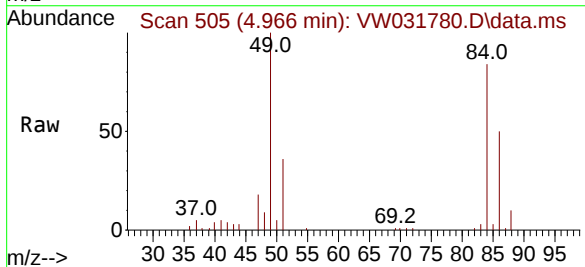
Instrument :
MSVOA_W
ClientSampleId :
TP-79

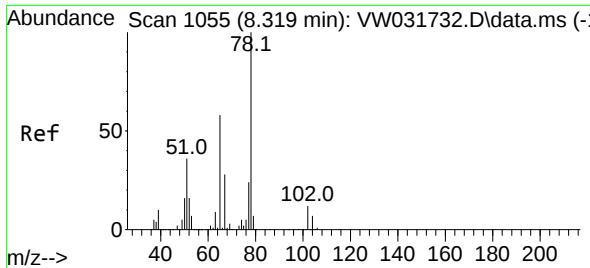
Tgt Ion:168 Resp: 191026
Ion Ratio Lower Upper
168 100
99 68.5 49.4 74.2



#20
Methylene Chloride
Concen: 9.965 ug/l
RT: 4.966 min Scan# 505
Delta R.T. 0.012 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

Tgt Ion: 84 Resp: 36917
Ion Ratio Lower Upper
84 100
49 118.6 98.2 147.4
51 42.4 29.8 44.8
86 59.5 49.5 74.3

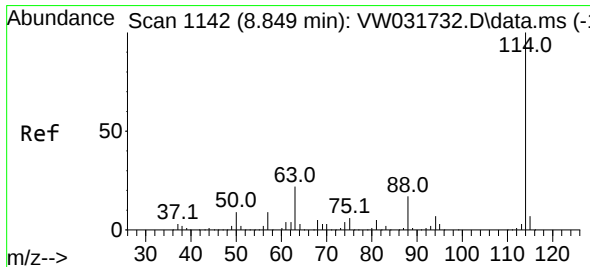
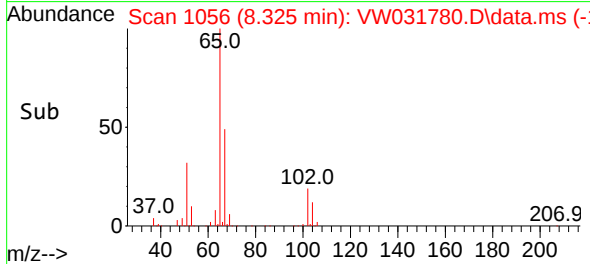
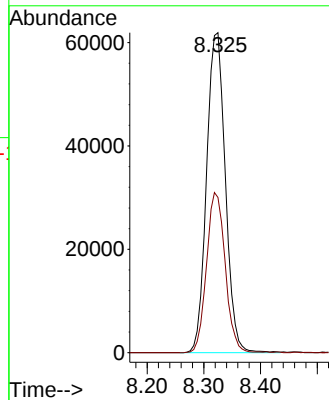
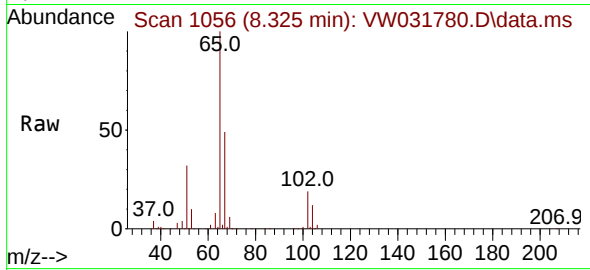




#33
1,2-Dichloroethane-d4
Concen: 51.932 ug/l
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

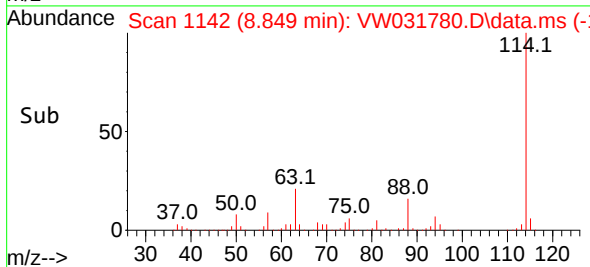
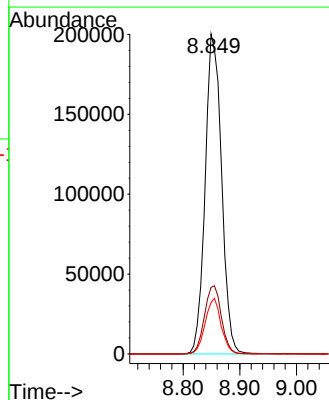
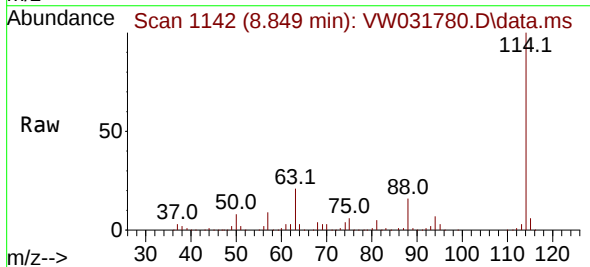
Instrument :
MSVOA_W
ClientSampleId :
TP-79

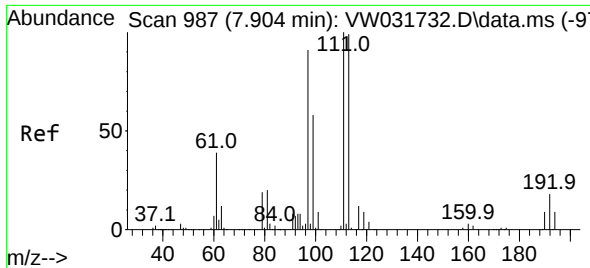
Tgt Ion: 65 Resp: 142367
Ion Ratio Lower Upper
65 100
67 49.9 0.0 99.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

Tgt Ion: 114 Resp: 402933
Ion Ratio Lower Upper
114 100
63 20.8 0.0 43.6
88 16.1 0.0 34.2

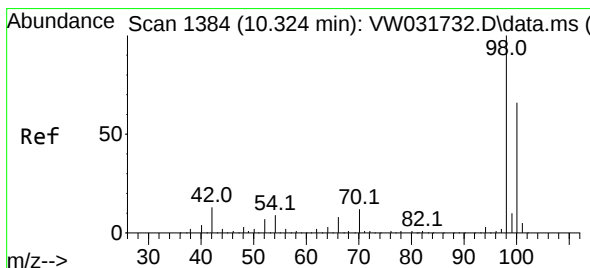
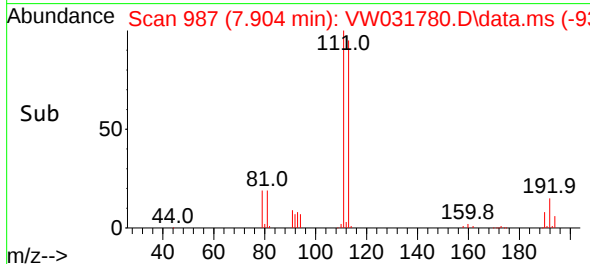
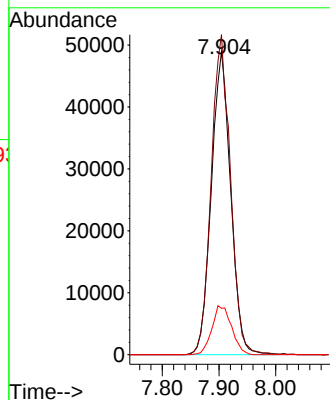
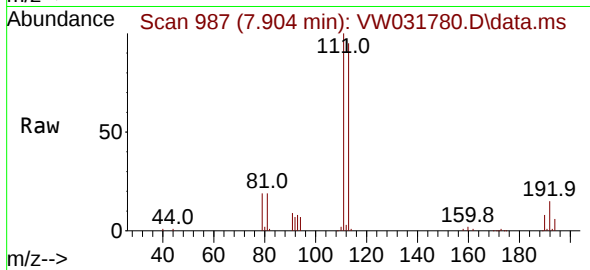




#35
Dibromofluoromethane
Concen: 43.996 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

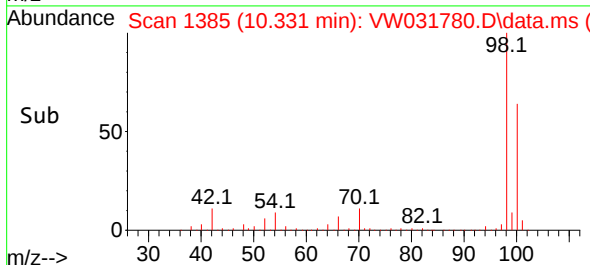
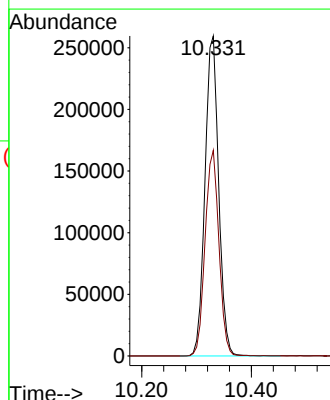
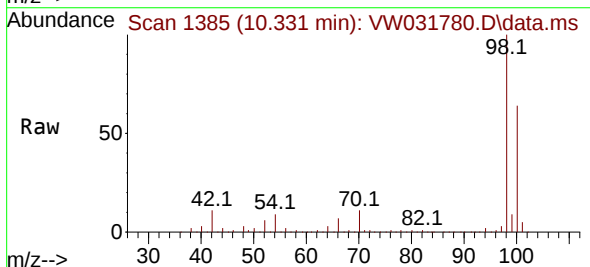
Instrument :
MSVOA_W
ClientSampleId :
TP-79

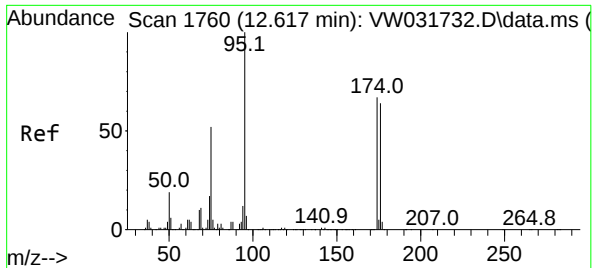
Tgt Ion:113 Resp: 115678
Ion Ratio Lower Upper
113 100
111 105.0 82.1 123.1
192 16.5 13.8 20.6



#50
Toluene-d8
Concen: 45.798 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

Tgt Ion: 98 Resp: 448117
Ion Ratio Lower Upper
98 100
100 65.0 53.0 79.4

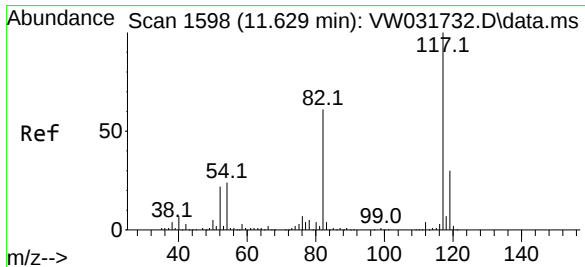
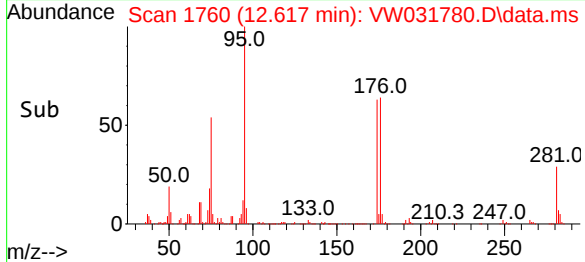
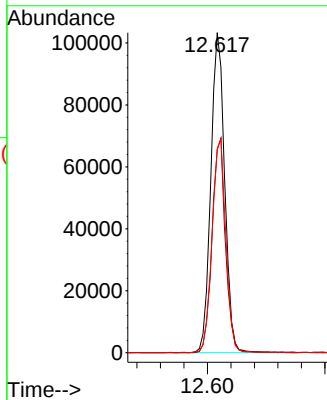
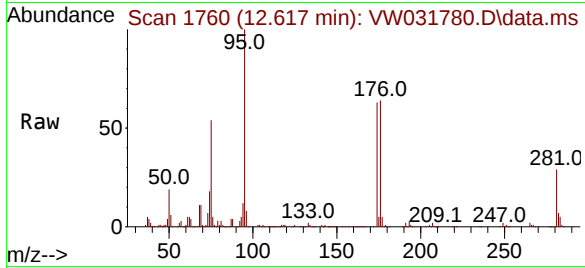




#62
4-Bromofluorobenzene
Concen: 46.984 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

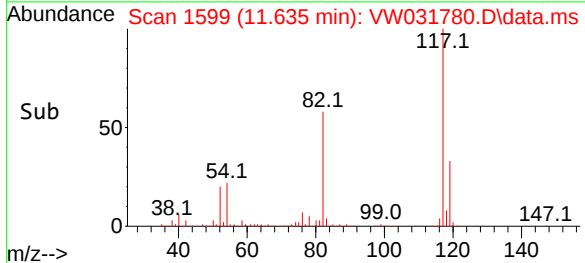
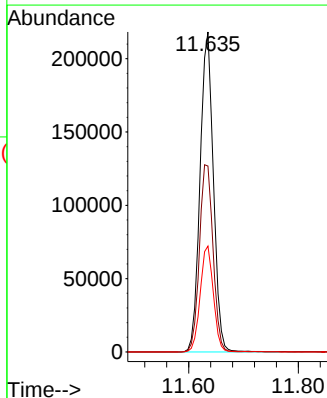
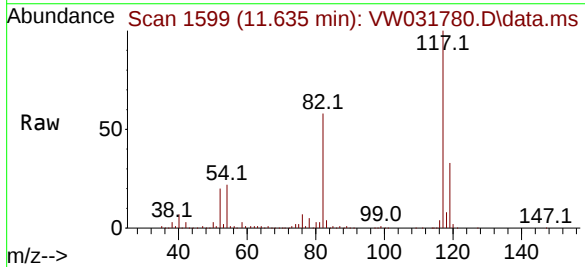
Instrument :
MSVOA_W
ClientSampleId :
TP-79

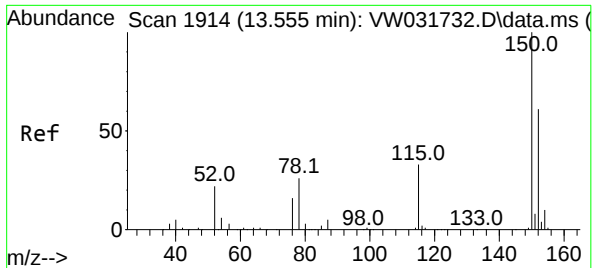
Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.5	0.0	133.8
176	66.5	0.0	126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031780.D
Acq: 09 Jul 2025 16:46

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.1	48.6	72.8
119	33.1	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: VW031780.D

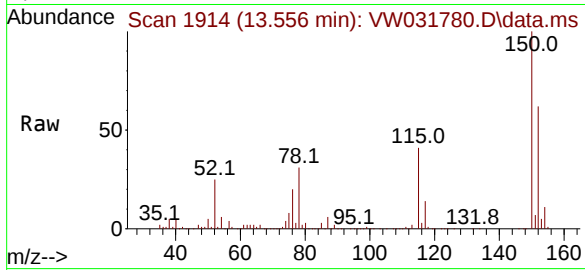
Acq: 09 Jul 2025 16:46

Instrument :

MSVOA_W

ClientSampleId :

TP-79



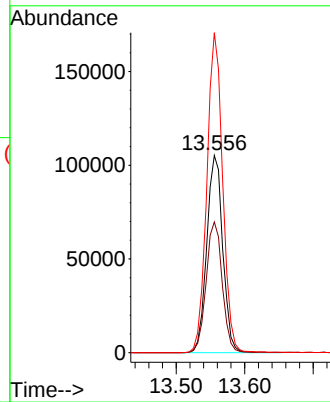
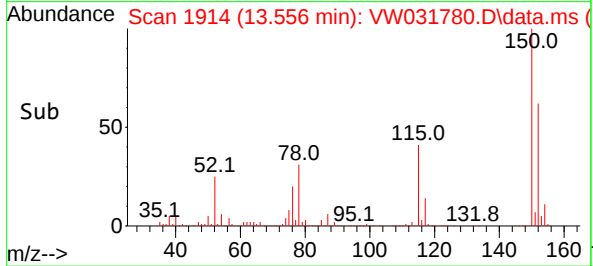
Tgt Ion:152 Resp: 171439

Ion Ratio Lower Upper

152 100

115 66.7 31.9 95.7

150 159.9 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031780.D
 Acq On : 09 Jul 2025 16:46
 Operator : SY/MD
 Sample : Q2529-03
 Misc : 6.21g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-79

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: VW031780.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	490	504	524	rBV2	39451	159385	13.34%	2.212%
2	5.972	659	670	684	rVB4	8400	26833	2.25%	0.372%
3	7.904	977	987	991	rBV	159909	374157	31.32%	5.194%
4	7.965	991	997	1014	rVB	284938	641520	53.70%	8.905%
5	8.319	1044	1055	1066	rBV	166045	376007	31.47%	5.219%
6	8.849	1133	1142	1155	rBV	475451	970933	81.27%	13.478%
7	10.331	1376	1385	1402	rBV	673447	1194724	100.00%	16.584%
8	11.635	1591	1599	1607	rBV	685326	1187364	99.38%	16.482%
9	11.714	1607	1612	1624	rVB4	5990	19582	1.64%	0.272%
10	12.617	1749	1760	1770	rBV2	553484	1067465	89.35%	14.818%
11	13.501	1896	1905	1908	rBV5	9282	19255	1.61%	0.267%
12	13.556	1908	1914	1926	rVB	702664	1144557	95.80%	15.888%
13	14.062	1991	1997	2002	rBV	11884	22241	1.86%	0.309%

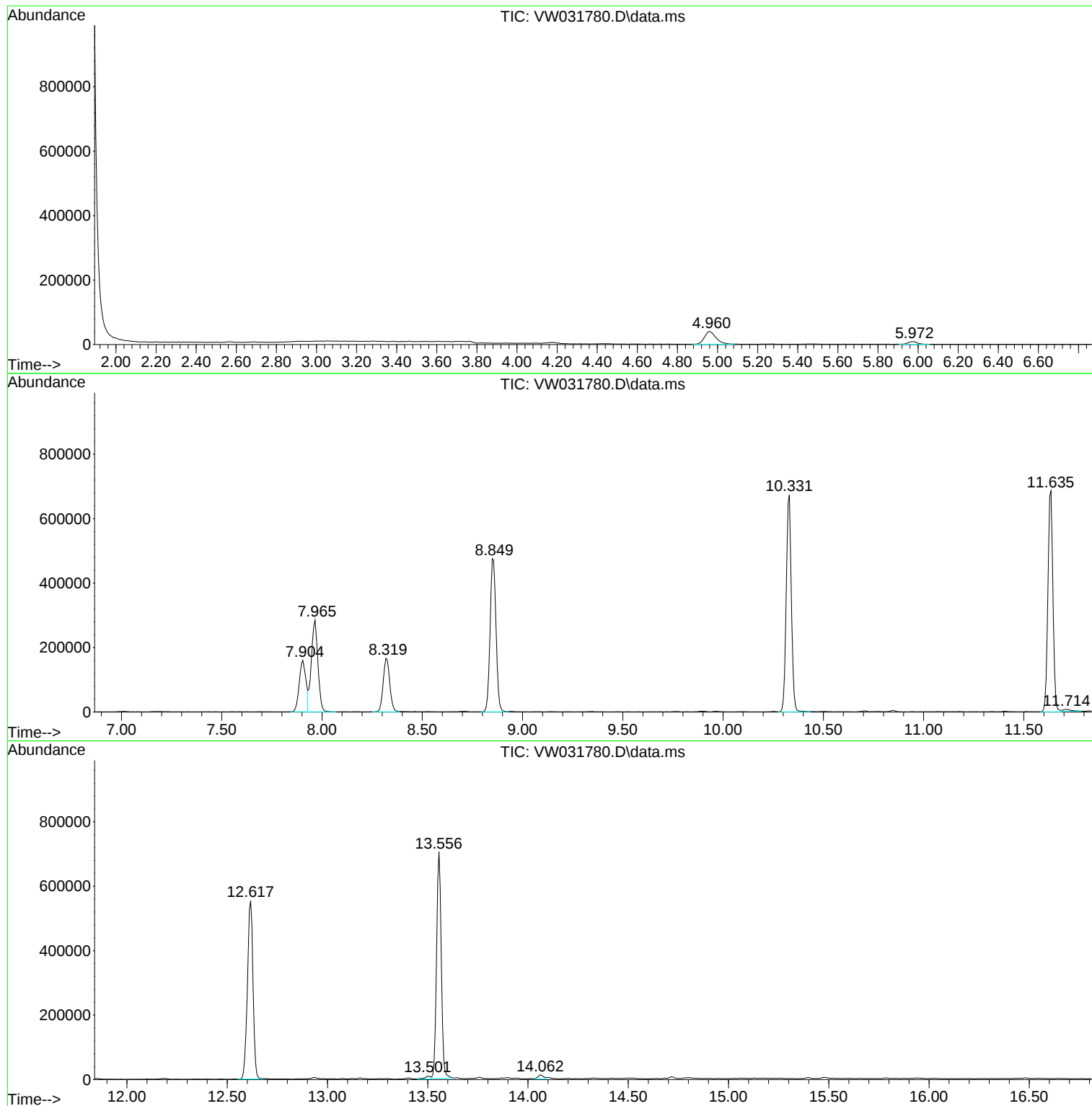
Sum of corrected areas: 7204023

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031780.D
Acq On : 09 Jul 2025 16:46
Operator : SY/MD
Sample : Q2529-03
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-79

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\VW070925\
Data File : VW031780.D
Acq On : 09 Jul 2025 16:46
Operator : SY/MD
Sample : Q2529-03
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-79

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031780.D
Acq On : 09 Jul 2025 16:46
Operator : SY/MD
Sample : Q2529-03
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-79

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68 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
VW031781.D	1	07/09/25 17:08	VW070925

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	0.89	U	0.89	4.50	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.4	ug/Kg
75-15-0	Carbon Disulfide	0.95	U	0.95	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	8.10	JQ	3.20	8.90	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	5.80	U	5.80	22.4	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	UQ	0.67	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	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	0.72	U	0.72	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	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	22.4	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68 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
VW031781.D	1	07/09/25 17:08	VW070925

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	0.55	U	0.55	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.82	U	0.82	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.4	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	0.81	U	0.81	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	8.90	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	4.50	ug/Kg
100-42-5	Styrene	0.63	U	0.63	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	1.60	U	1.60	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	2.80	U	2.80	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	47.5		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.959			
540-36-3	1,4-Difluorobenzene	395000	8.855			
3114-55-4	Chlorobenzene-d5	368000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.556			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031781.D	1	07/09/25 17:08	VW070925

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\VW070925\
 Data File : VW031781.D
 Acq On : 09 Jul 2025 17:08
 Operator : SY/MD
 Sample : Q2529-04
 Misc : 6.68g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-95

Quant Time: Jul 10 01:29:37 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)

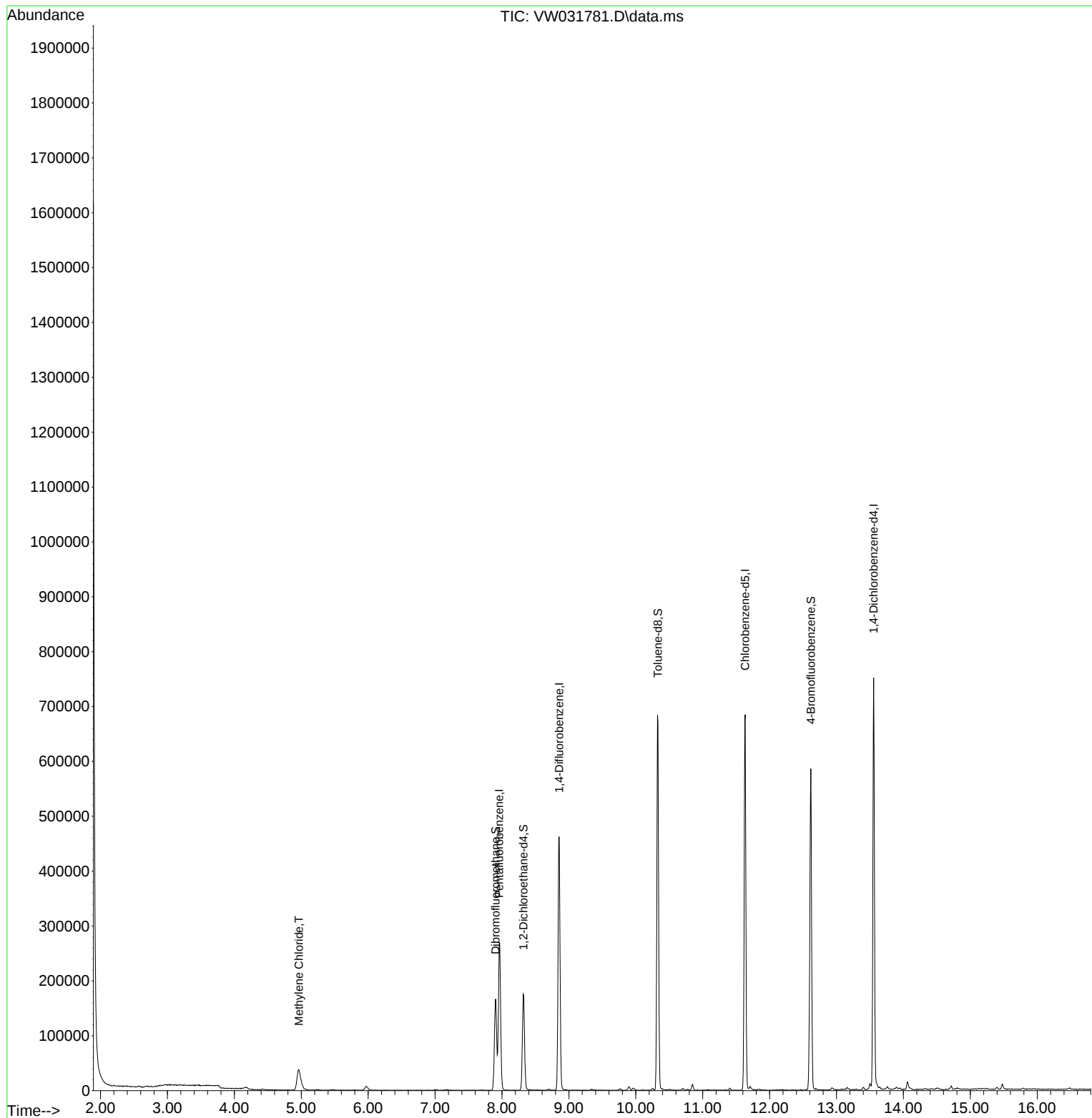
Internal Standards						
1) Pentafluorobenzene	7.959	168	184533	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	394765	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	367784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	184499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	148653	56.132	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	112.260%	
35) Dibromofluoromethane	7.904	113	120131	46.634	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	93.260%	
50) Toluene-d8	10.331	98	455443	47.509	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	95.020%	
62) 4-Bromofluorobenzene	12.617	95	178061	50.474	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	100.940%	
Target Compounds						Qvalue
20) Methylene Chloride	4.966	84	33525	9.086	ug/l	97

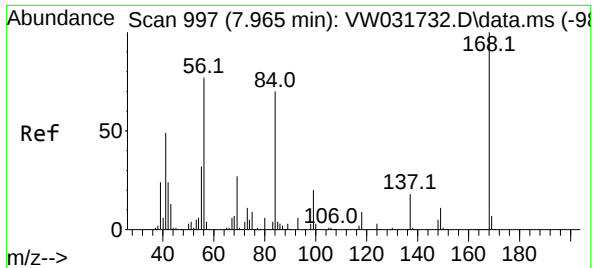
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031781.D
Acq On : 09 Jul 2025 17:08
Operator : SY/MD
Sample : Q2529-04
Misc : 6.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-95

Quant Time: Jul 10 01:29:37 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

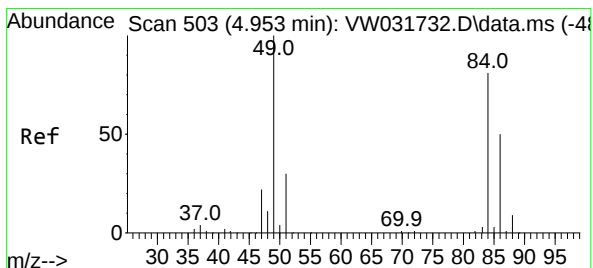
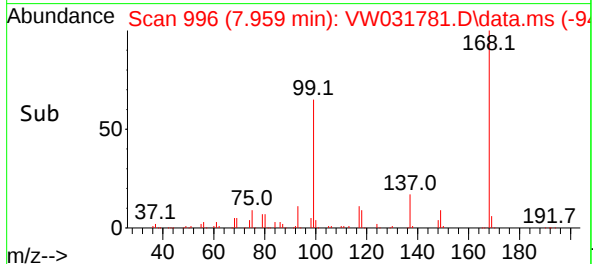
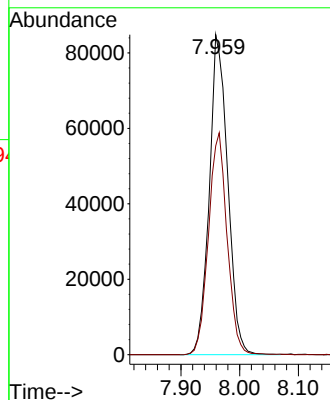
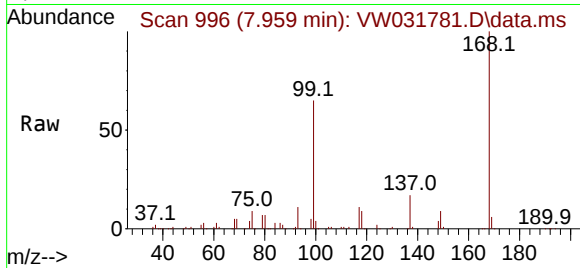




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

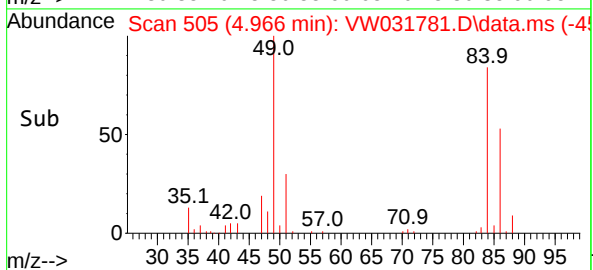
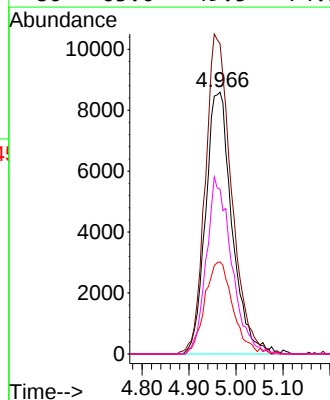
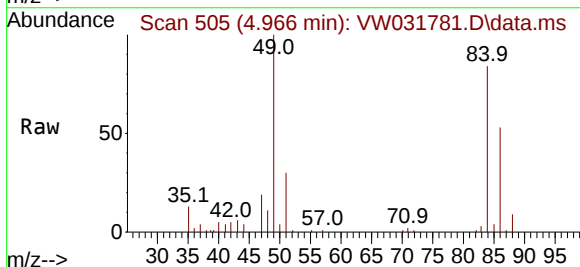
Instrument :
MSVOA_W
ClientSampleId :
TP-95

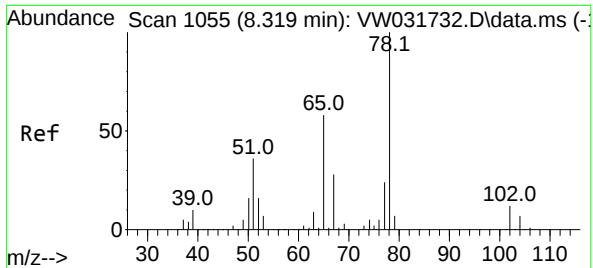
Tgt Ion:168 Resp: 184533
Ion Ratio Lower Upper
168 100
99 65.3 49.4 74.2



#20
Methylene Chloride
Concen: 9.086 ug/l
RT: 4.966 min Scan# 505
Delta R.T. 0.013 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

Tgt Ion: 84 Resp: 33525
Ion Ratio Lower Upper
84 100
49 117.8 98.2 147.4
51 35.2 29.8 44.8
86 63.0 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 56.132 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW031781.D

Acq: 09 Jul 2025 17:08

Instrument :

MSVOA_W

ClientSampleId :

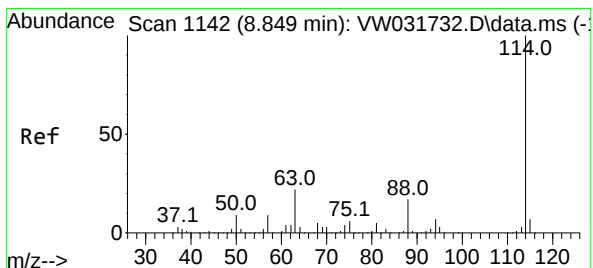
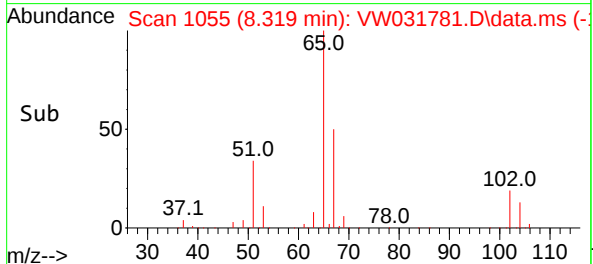
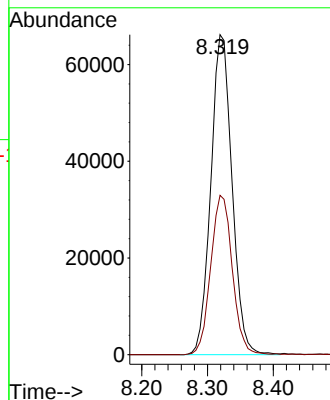
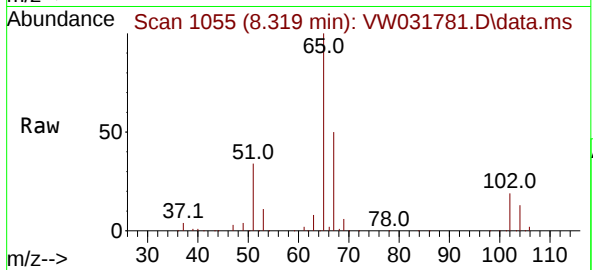
TP-95

Tgt Ion: 65 Resp: 148653

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# 1143

Delta R.T. 0.006 min

Lab File: VW031781.D

Acq: 09 Jul 2025 17:08

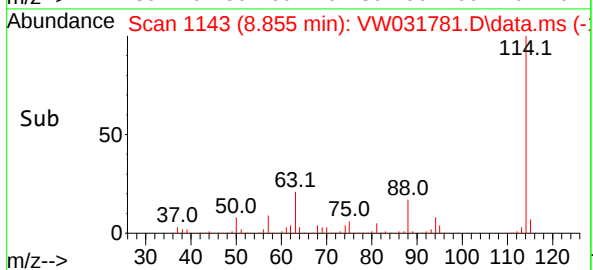
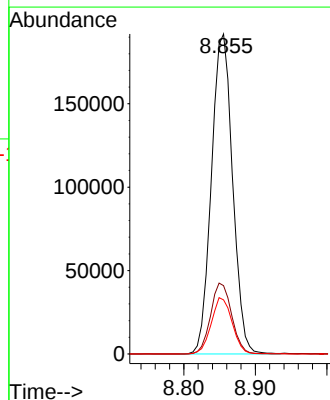
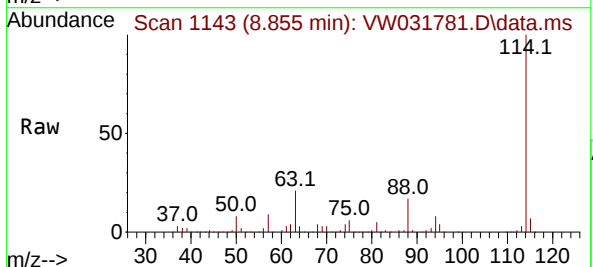
Tgt Ion: 114 Resp: 394765

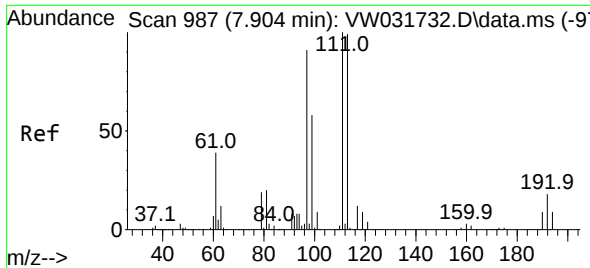
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.6

88 16.9 0.0 34.2

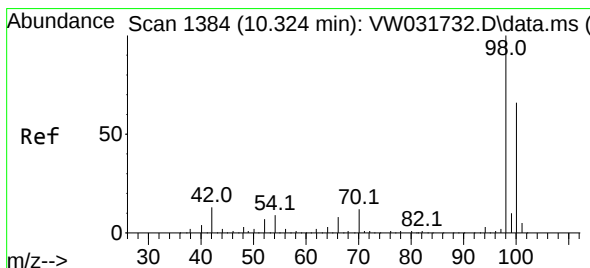
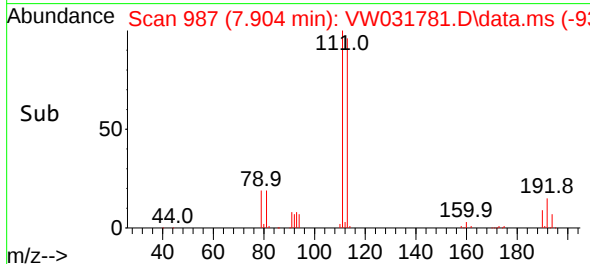
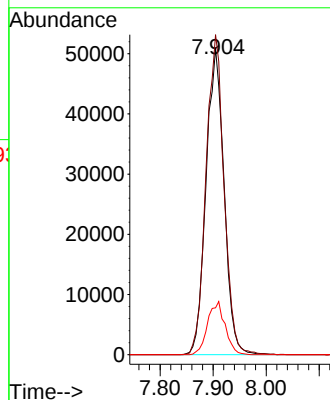
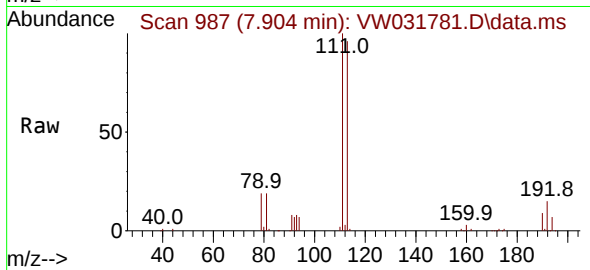




#35
Dibromofluoromethane
Concen: 46.634 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

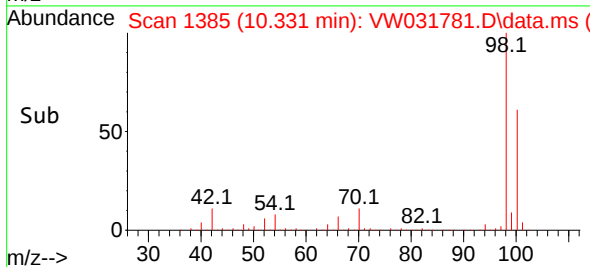
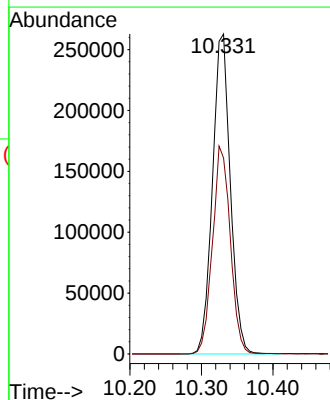
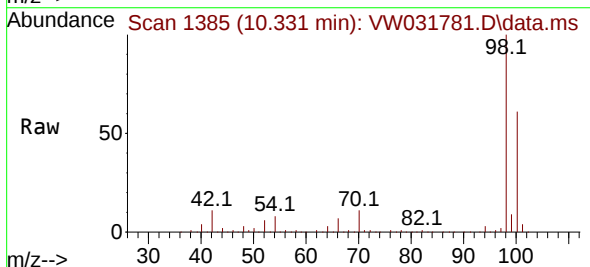
Instrument :
MSVOA_W
ClientSampleId :
TP-95

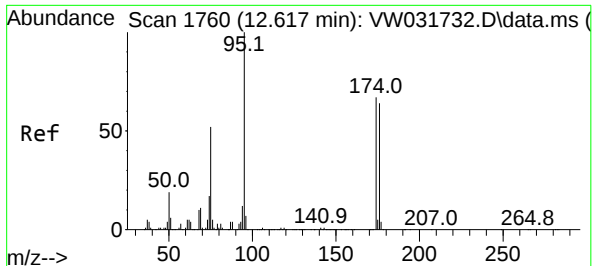
Tgt Ion:113 Resp: 120131
Ion Ratio Lower Upper
113 100
111 104.1 82.1 123.1
192 16.9 13.8 20.6



#50
Toluene-d8
Concen: 47.509 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

Tgt Ion: 98 Resp: 455443
Ion Ratio Lower Upper
98 100
100 64.9 53.0 79.4

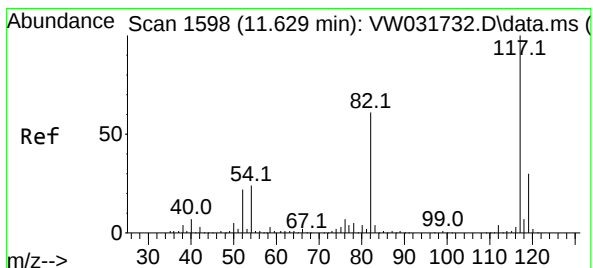
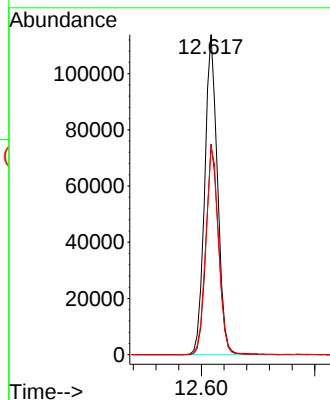
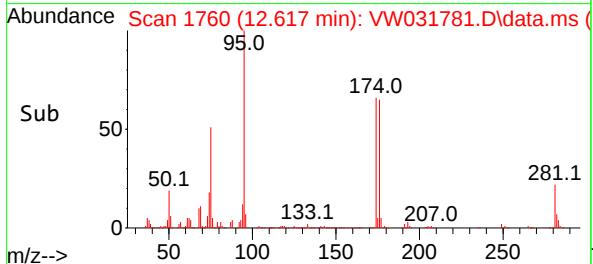
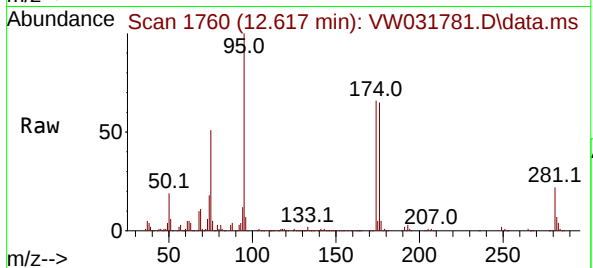




#62
4-Bromofluorobenzene
Concen: 50.474 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

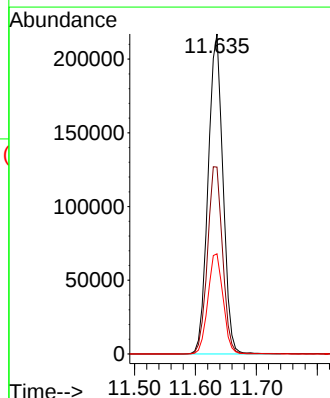
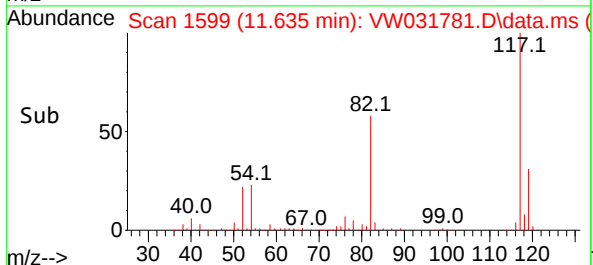
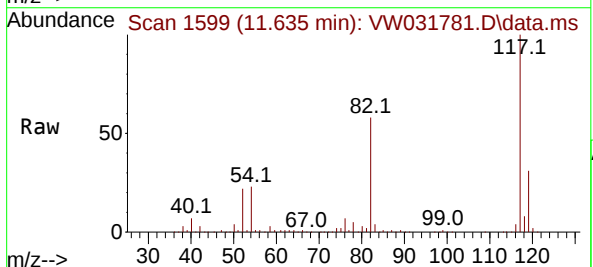
Instrument :
MSVOA_W
ClientSampleId :
TP-95

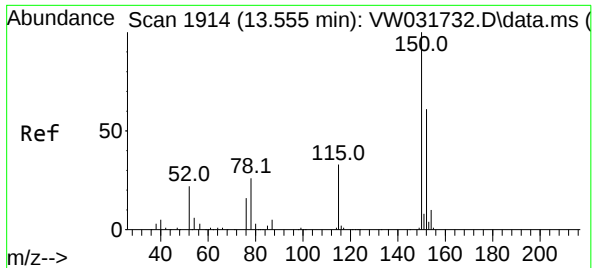
Tgt Ion: 95 Resp: 178061
Ion Ratio Lower Upper
95 100
174 64.2 0.0 133.8
176 65.4 0.0 126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031781.D
Acq: 09 Jul 2025 17:08

Tgt Ion: 117 Resp: 367784
Ion Ratio Lower Upper
117 100
82 58.4 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# 1914

Delta R.T. 0.000 min

Lab File: VW031781.D

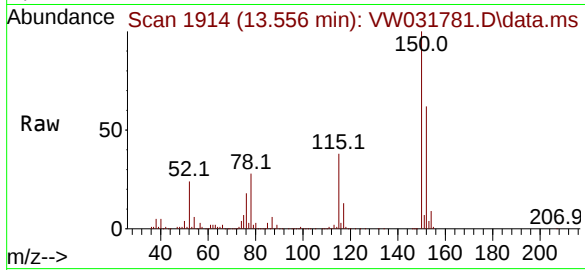
Acq: 09 Jul 2025 17:08

Instrument :

MSVOA_W

ClientSampleId :

TP-95



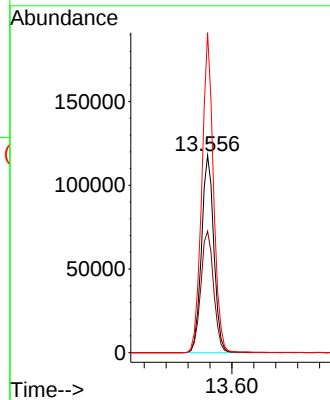
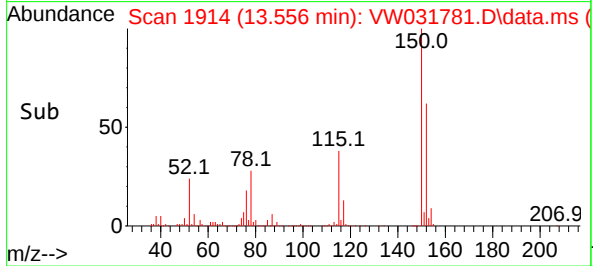
Tgt Ion:152 Resp: 184499

Ion Ratio Lower Upper

152 100

115 64.3 31.9 95.7

150 152.8 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031781.D
 Acq On : 09 Jul 2025 17:08
 Operator : SY/MD
 Sample : Q2529-04
 Misc : 6.68g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-95

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: VW031781.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	492	504	530	rVB2	37154	156784	12.90%	2.149%
2	5.972	659	670	681	rBV2	7043	22804	1.88%	0.313%
3	7.904	975	987	991	rBV2	166467	389017	32.01%	5.332%
4	7.959	991	996	1011	rVB	268852	618690	50.91%	8.481%
5	8.319	1046	1055	1066	rBV	175035	395752	32.57%	5.425%
6	8.855	1134	1143	1157	rBV	461218	958562	78.88%	13.139%
7	10.325	1377	1384	1394	rBV	683999	1215215	100.00%	16.658%
8	10.849	1465	1470	1477	rVB3	10795	18661	1.54%	0.256%
9	11.635	1590	1599	1606	rBV	684274	1182290	97.29%	16.206%
10	12.617	1748	1760	1769	rBV2	585199	1084709	89.26%	14.869%
11	13.501	1894	1905	1908	rBV2	11059	22008	1.81%	0.302%
12	13.556	1908	1914	1927	rVB	747919	1189041	97.85%	16.299%
13	14.062	1991	1997	2001	rBV2	13896	25734	2.12%	0.353%
14	15.482	2225	2230	2237	rBV	9038	16019	1.32%	0.220%

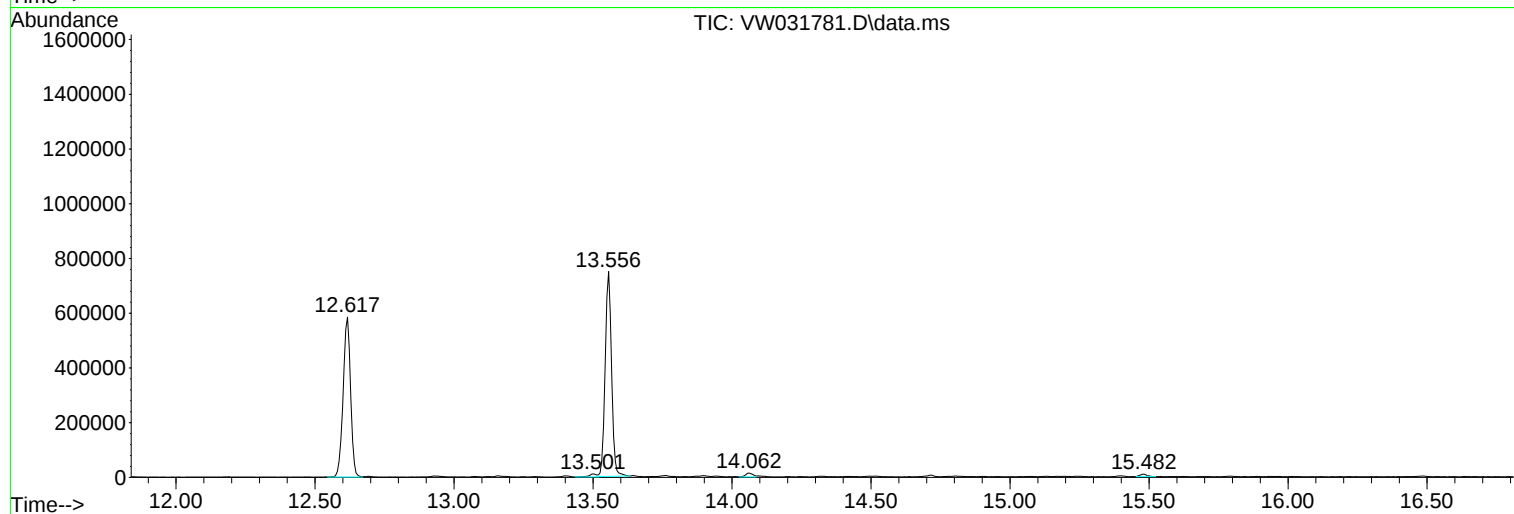
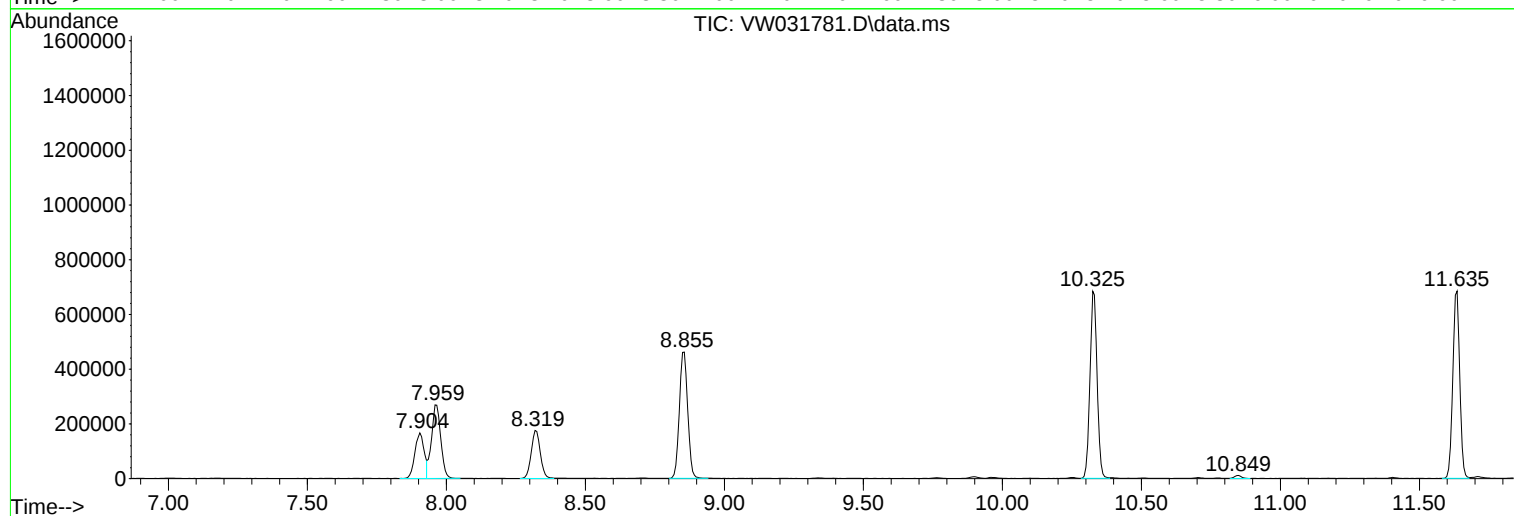
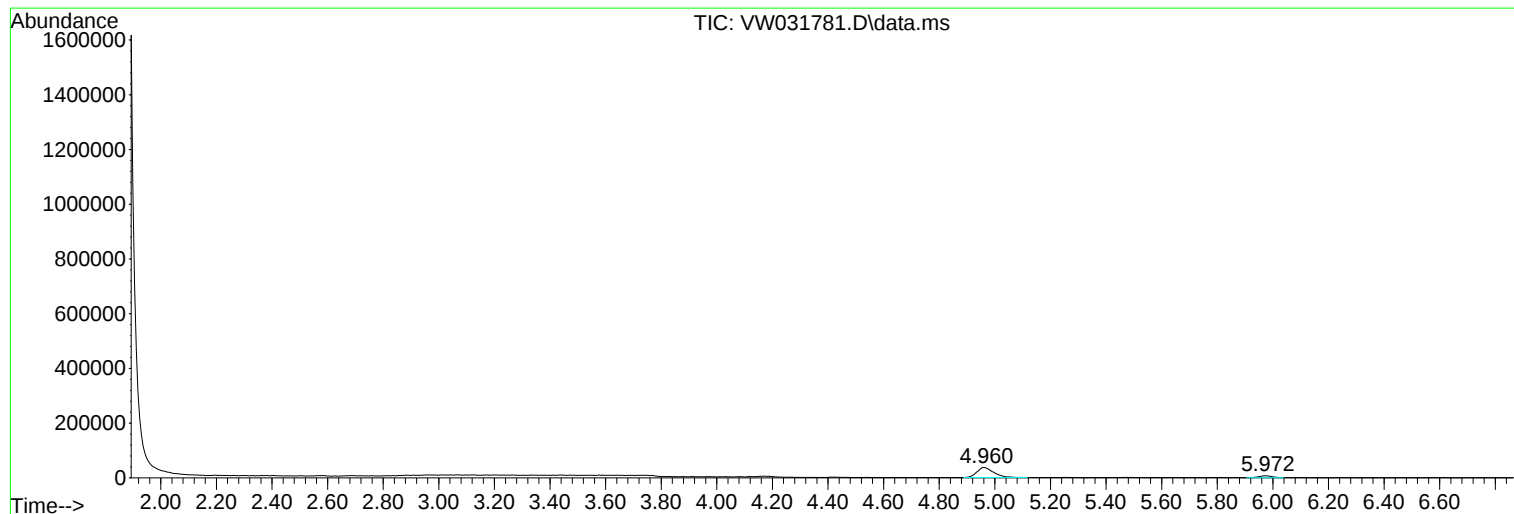
Sum of corrected areas: 7295286

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031781.D
Acq On : 09 Jul 2025 17:08
Operator : SY/MD
Sample : Q2529-04
Misc : 6.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-95

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\VW070925\
Data File : VW031781.D
Acq On : 09 Jul 2025 17:08
Operator : SY/MD
Sample : Q2529-04
Misc : 6.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031781.D
Acq On : 09 Jul 2025 17:08
Operator : SY/MD
Sample : Q2529-04
Misc : 6.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-95

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

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54 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
VW031798.D	1	07/10/25 13:25	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.82	U	0.82	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	4.90	U	4.90	26.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.89	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	26.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.87	U	0.87	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	5.20	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.0	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031798.D	1	07/10/25 13:25	VW071025

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54 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
VW031798.D	1	07/10/25 13:25	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000571-61-9	Naphthalene, 1,5-dimethyl-	33.7	J		12.8	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	13.6	J		13.3	ug/Kg
000581-42-0	Naphthalene, 2,6-dimethyl-	12.2	J		13.4	ug/Kg
002027-17-0	Naphthalene, 2-(1-methylethyl)-	8.00	J		15.1	ug/Kg
000544-76-3	Hexadecane	20.3	J		15.2	ug/Kg
002245-38-7	Naphthalene, 1,6,7-trimethyl-	7.70	J		15.6	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 : VW031798.D
 Acq On : 10 Jul 2025 13:25
 Operator : SY/MD
 Sample : Q2529-05
 Misc : 5.54g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-98

Quant Time: Jul 11 02:19:56 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	168081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	382359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	360038	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.562	152	165092	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	141074	58.485	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	116.960%
35) Dibromofluoromethane	7.904	113	115518	46.299	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.600%
50) Toluene-d8	10.331	98	454159	48.913	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	97.820%
62) 4-Bromofluorobenzene	12.617	95	178941	52.369	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	104.740%

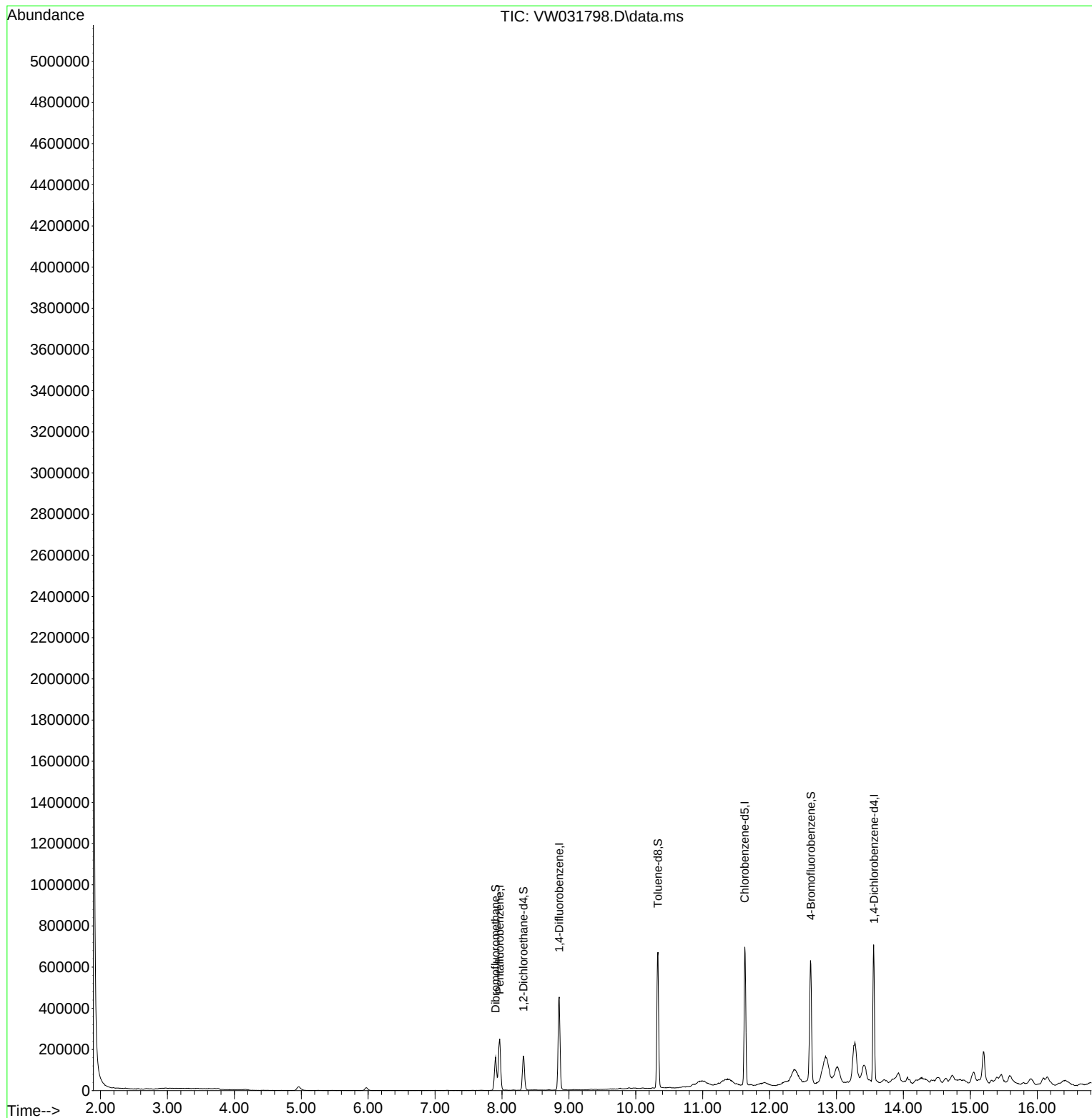
Target Compounds	Qvalue

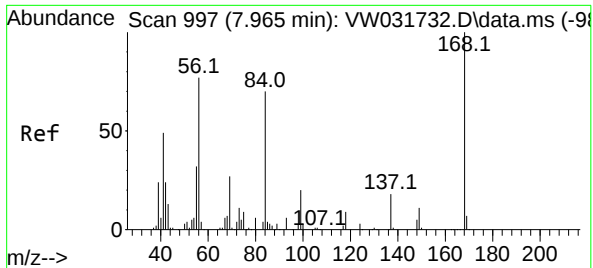
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

Quant Time: Jul 11 02:19:56 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

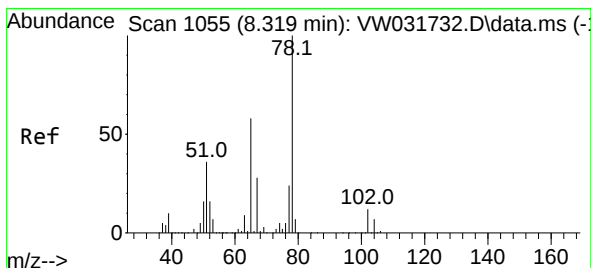
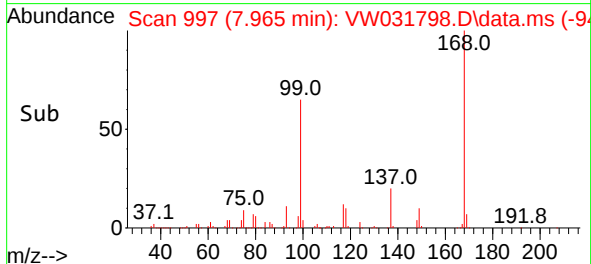
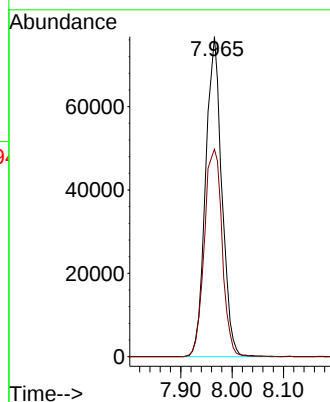
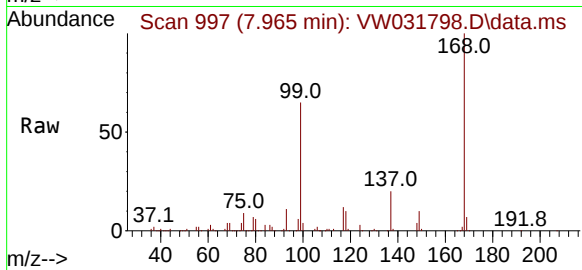




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

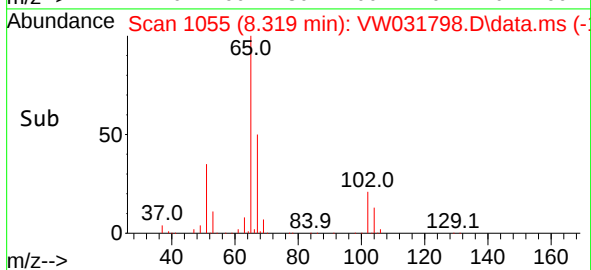
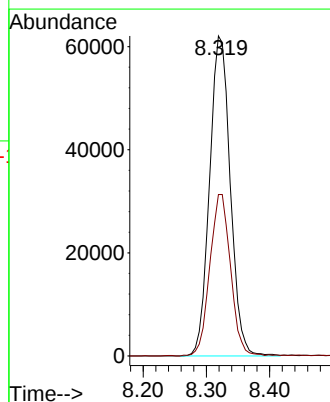
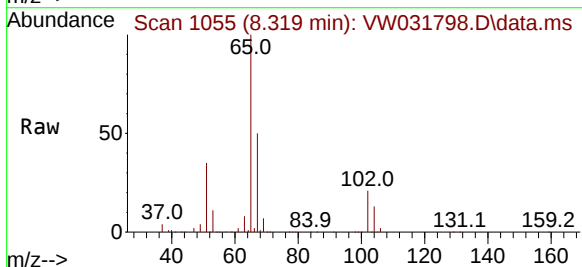
Instrument :
MSVOA_W
ClientSampleId :
TP-98

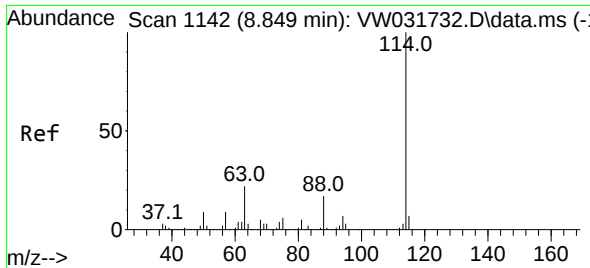
Tgt Ion:168 Resp: 168081
Ion Ratio Lower Upper
168 100
99 64.9 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 58.485 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

Tgt Ion: 65 Resp: 141074
Ion Ratio Lower Upper
65 100
67 50.6 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VW031798.D

Acq: 10 Jul 2025 13:25

Instrument :

MSVOA_W

ClientSampleId :

TP-98

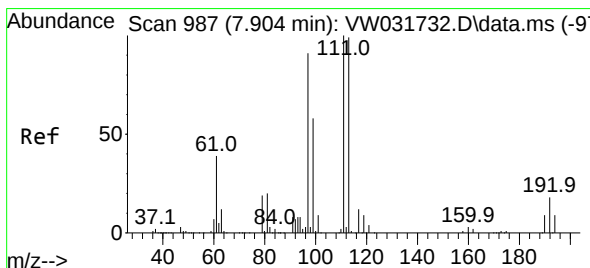
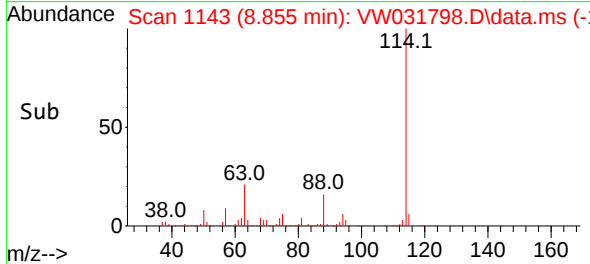
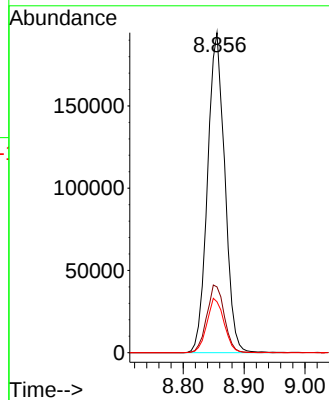
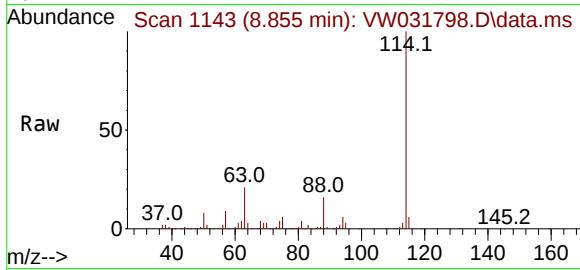
Tgt Ion:114 Resp: 382359

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.6

88 15.9 0.0 34.2



#35

Dibromofluoromethane

Concen: 46.299 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031798.D

Acq: 10 Jul 2025 13:25

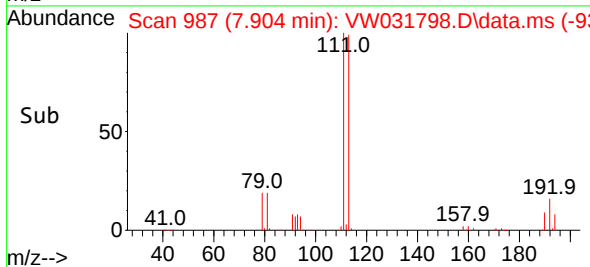
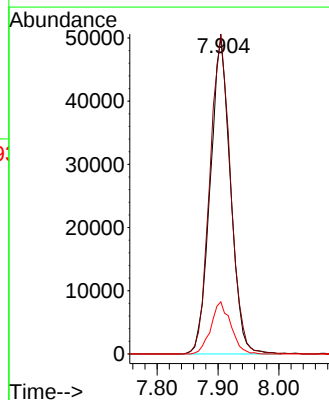
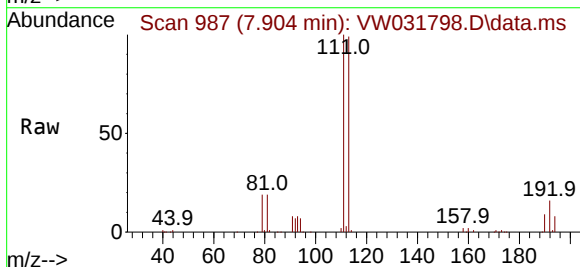
Tgt Ion:113 Resp: 115518

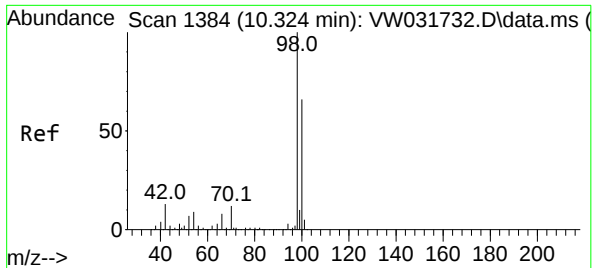
Ion Ratio Lower Upper

113 100

111 103.4 82.1 123.1

192 16.2 13.8 20.6

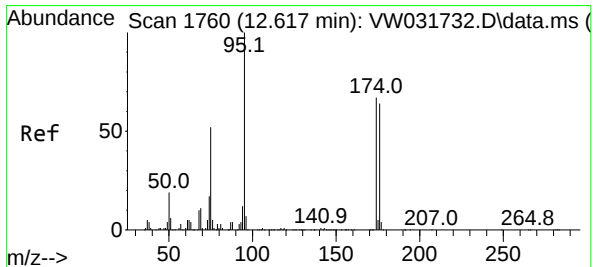
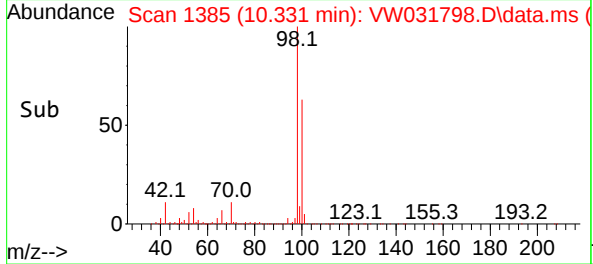
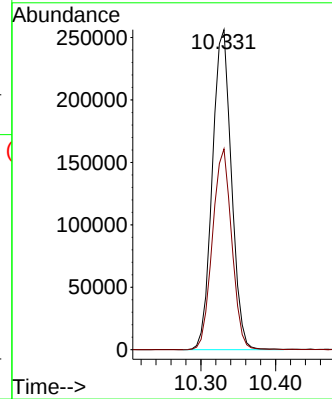
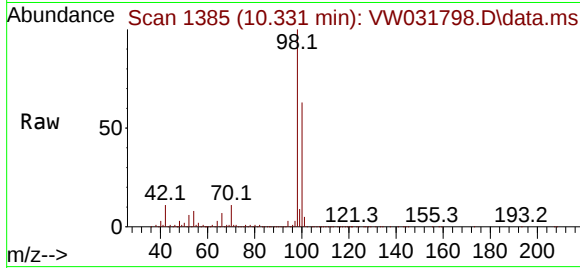




#50
Toluene-d8
Concen: 48.913 ug/l
RT: 10.331 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

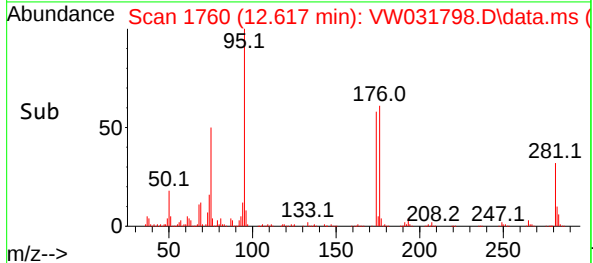
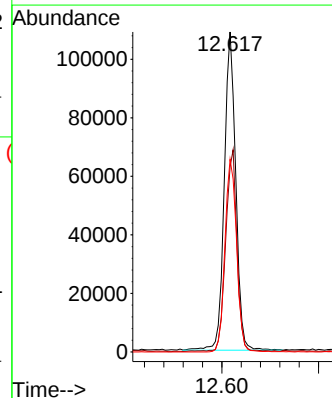
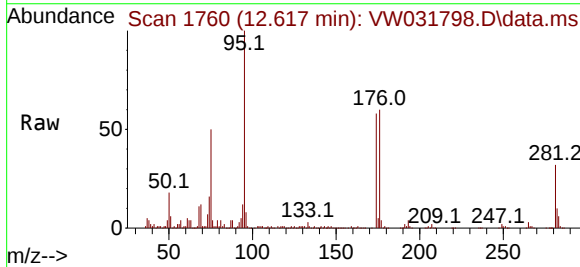
Instrument :
MSVOA_W
ClientSampleId :
TP-98

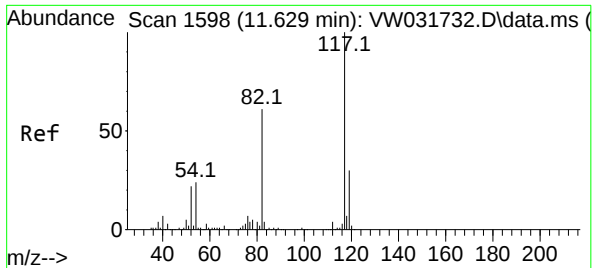
Tgt Ion: 98 Resp: 454159
Ion Ratio Lower Upper
98 100
100 63.4 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 52.369 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

Tgt Ion: 95 Resp: 178941
Ion Ratio Lower Upper
95 100
174 62.0 0.0 133.8
176 61.8 0.0 126.0

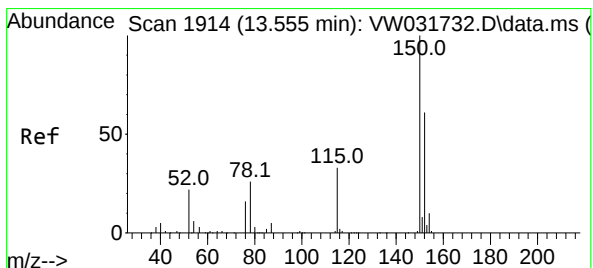
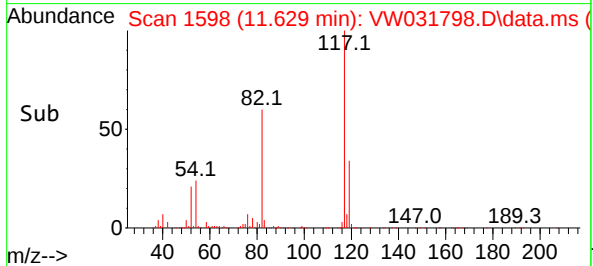
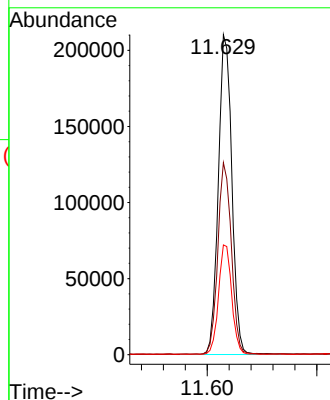
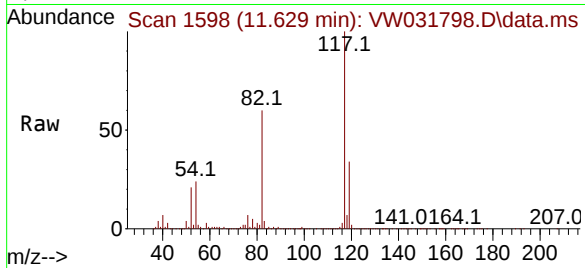




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. 0.000 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

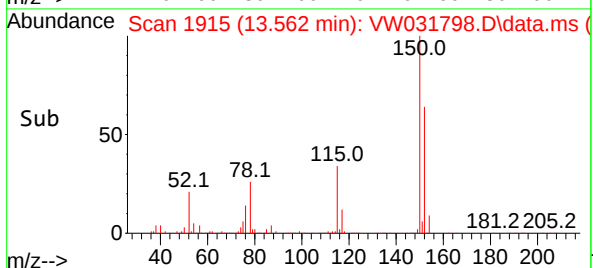
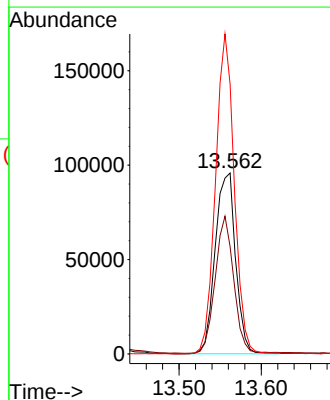
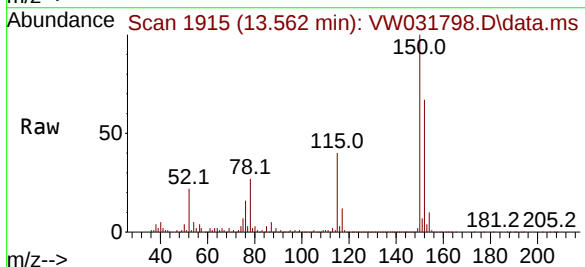
Instrument :
MSVOA_W
ClientSampleId :
TP-98

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.9	48.6	72.8
119	34.2	23.9	35.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.562 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW031798.D
Acq: 10 Jul 2025 13:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.6	31.9	95.7
150	162.8	0.0	356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
 Data File : VW031798.D
 Acq On : 10 Jul 2025 13:25
 Operator : SY/MD
 Sample : Q2529-05
 Misc : 5.54g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-98

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: VW031798.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.966	493	505	525	rBV3	18087	75995	6.09%	0.830%
2	5.972	660	670	682	rVB4	13896	42584	3.41%	0.465%
3	7.904	976	987	991	rBV	160997	367246	29.43%	4.009%
4	7.965	991	997	1007	rVB	248201	568283	45.55%	6.203%
5	8.319	1045	1055	1067	rBV	166173	382488	30.66%	4.175%
6	8.856	1134	1143	1157	rBV	451996	917656	73.55%	10.017%
7	10.331	1377	1385	1396	rBV	660385	1202253	96.36%	13.123%
8	11.629	1591	1598	1607	rBV	670464	1147485	91.97%	12.525%
9	12.611	1752	1759	1770	rVB3	597877	1247701	100.00%	13.619%
10	12.836	1780	1796	1812	rBV4	120929	720982	57.78%	7.870%
11	13.257	1857	1865	1866	rBV3	168742	291044	23.33%	3.177%
12	13.410	1885	1890	1902	rVB3	72216	260895	20.91%	2.848%
13	13.556	1908	1914	1930	rVB2	670009	1111188	89.06%	12.129%
14	15.050	2150	2159	2169	rBV7	47781	170871	13.69%	1.865%
15	15.196	2176	2183	2197	rVB	153257	434245	34.80%	4.740%
16	15.586	2242	2247	2267	rVB5	38724	164824	13.21%	1.799%
17	16.092	2324	2330	2333	rBV5	24550	55482	4.45%	0.606%

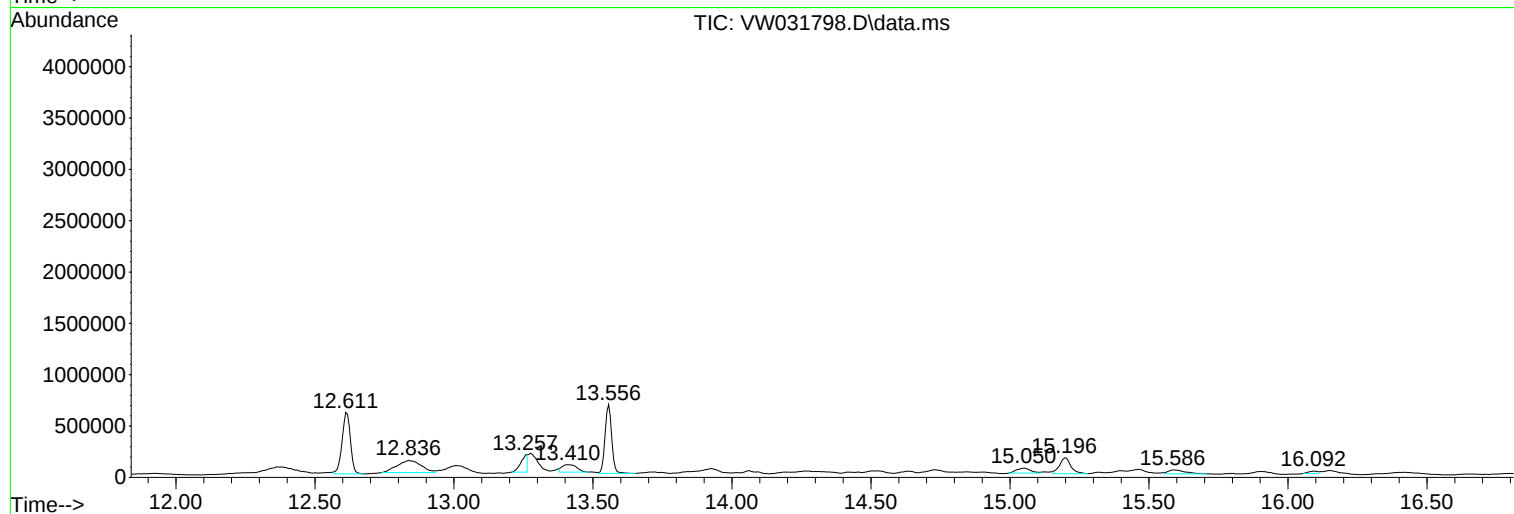
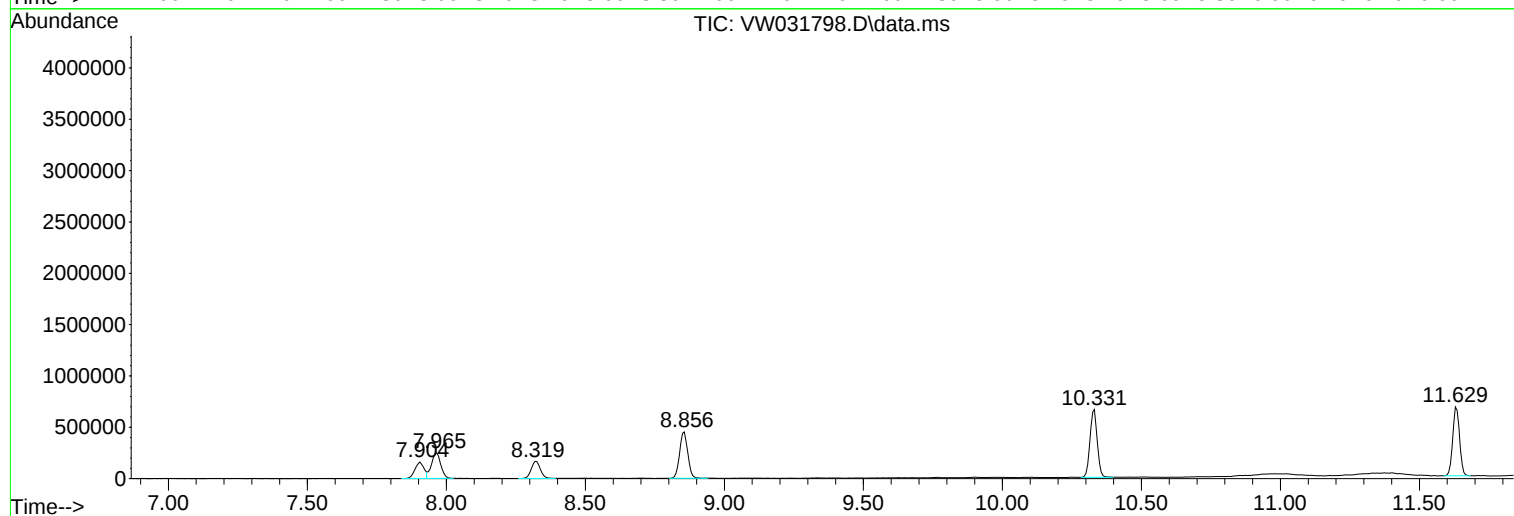
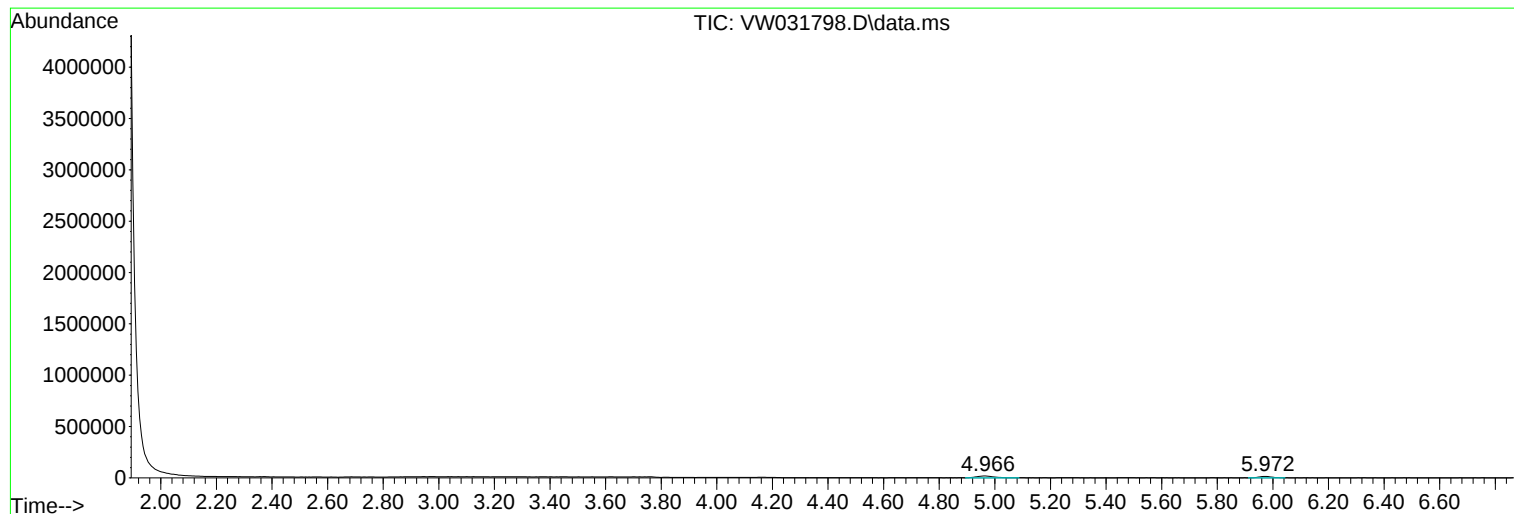
Sum of corrected areas: 9161222

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

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 : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

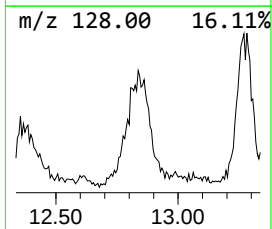
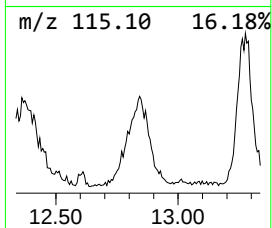
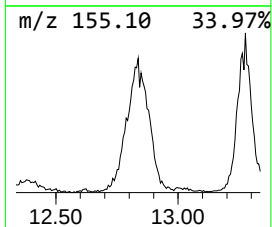
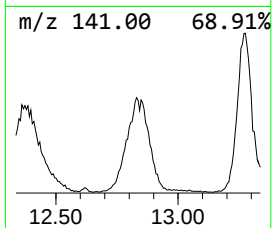
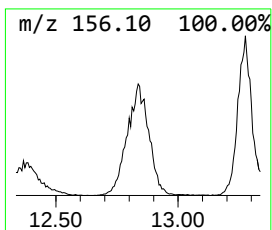
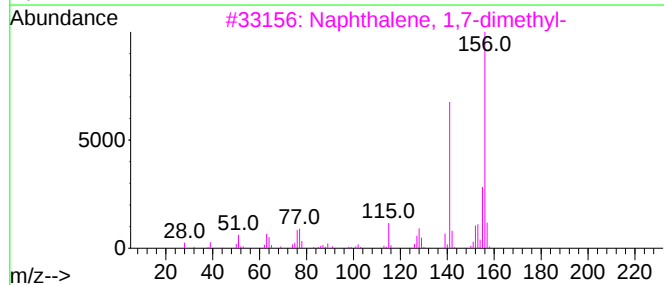
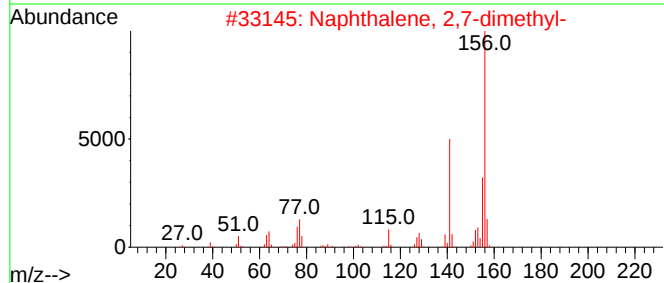
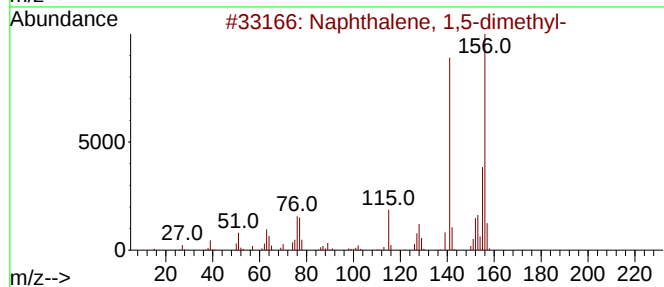
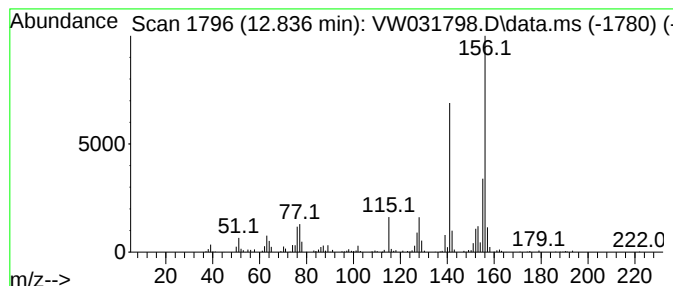
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Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, 1,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.836	32.44 ug/l	720982	1,4-Dichlorobenzene-d4	13.562

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
2			Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

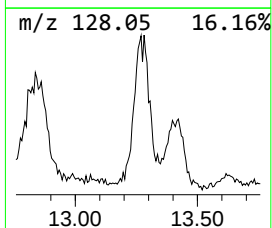
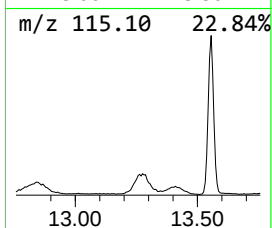
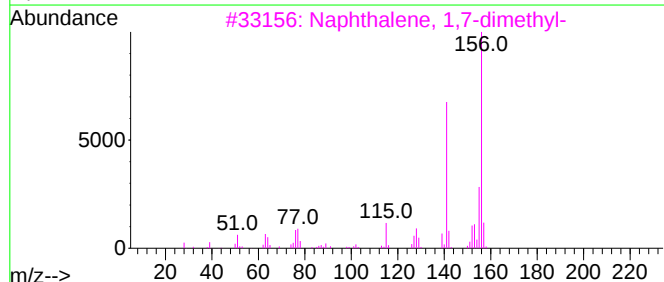
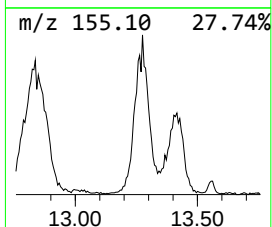
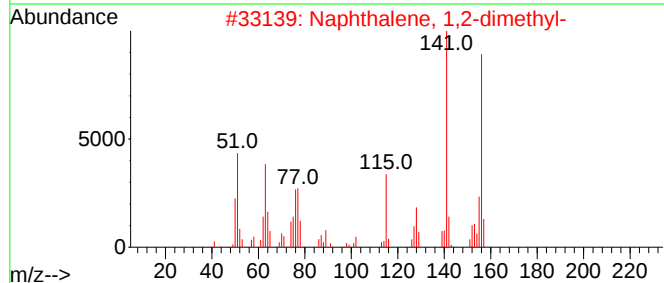
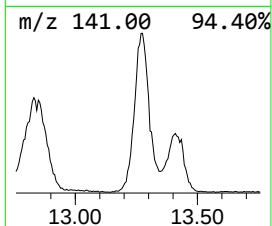
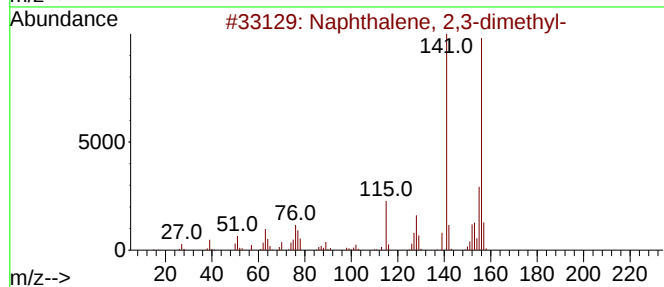
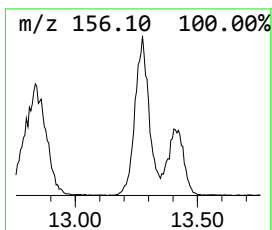
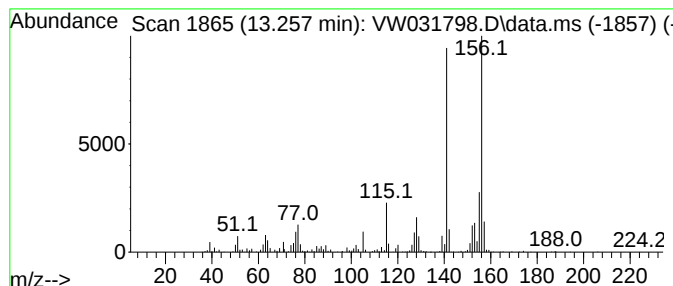
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Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.257	13.10 ug/l	291044	1,4-Dichlorobenzene-d4	13.562

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2			Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

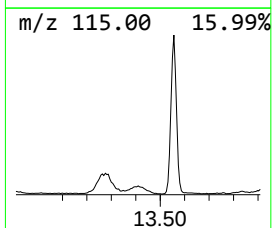
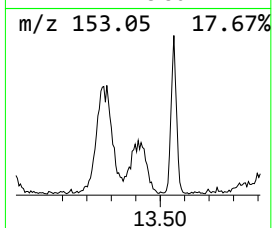
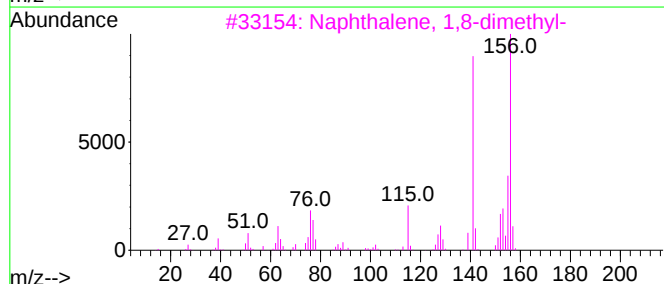
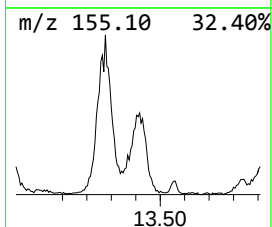
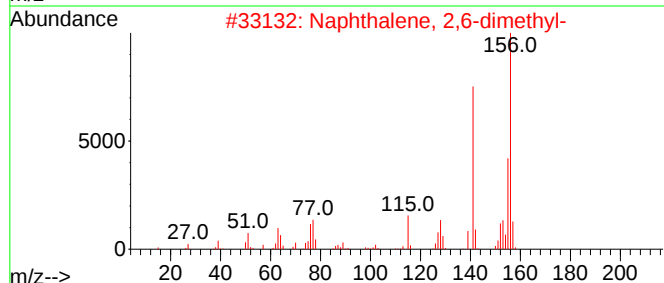
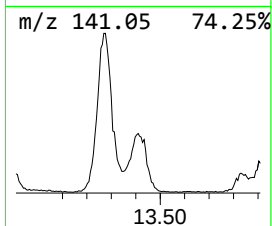
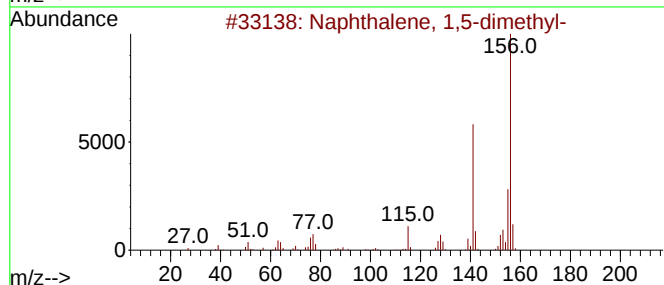
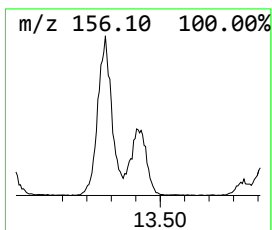
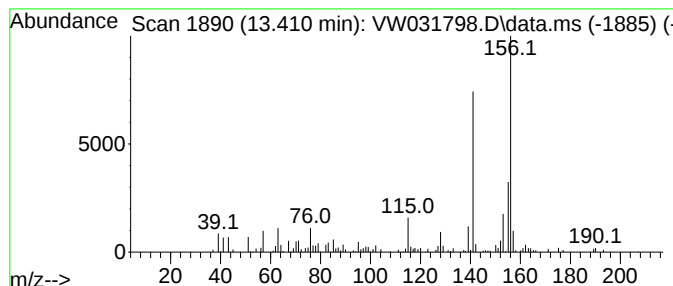
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Quant Title : SW846 8260

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

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.410	11.74 ug/l	260895	1,4-Dichlorobenzene-d4	13.562

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	91
2			Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	90
3			Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	87
4			Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	87
5			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

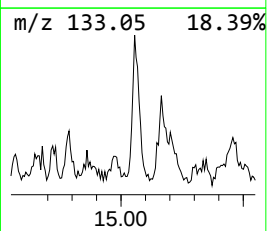
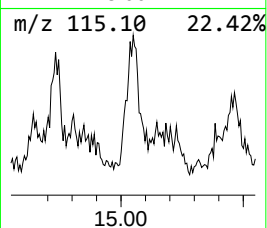
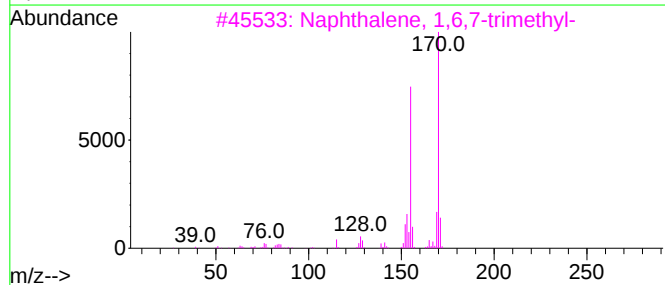
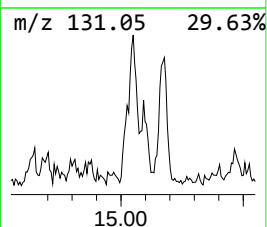
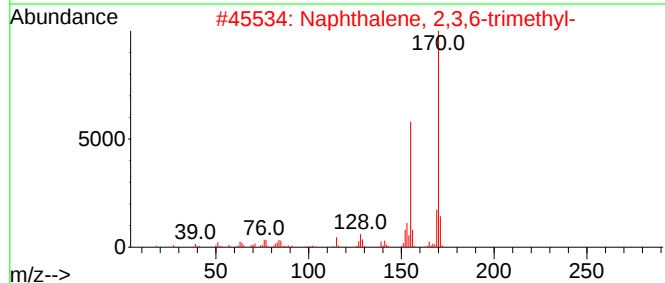
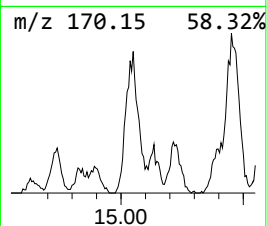
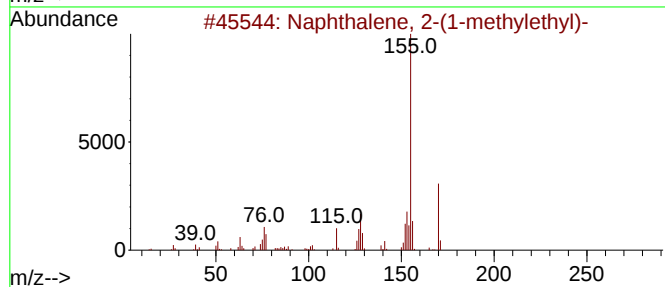
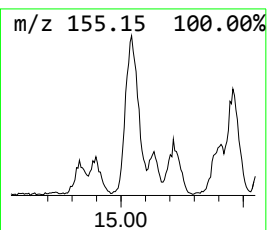
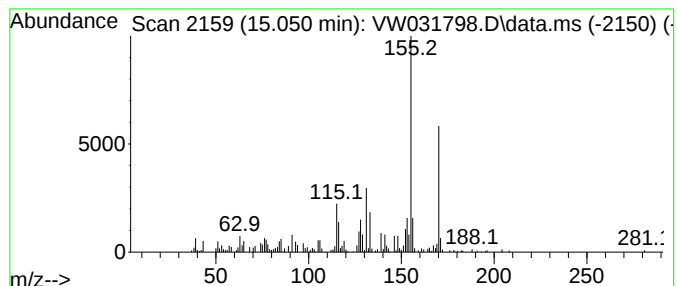
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Quant Title : SW846 8260

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

Peak Number 5 Naphthalene, 2-(1-methyleth... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.050	7.69 ug/l	170871	1,4-Dichlorobenzene-d4	13.562

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	81
2			Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	76
3			Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	70
4			2-Naphthyl methyl ketone	170	C12H10O	000093-08-3	52
5			Ethanone, 1-(1-Naphthalenyl)-	170	C12H10O	000941-98-0	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

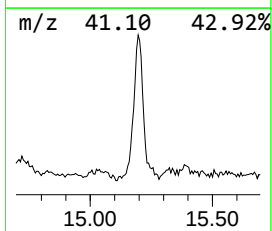
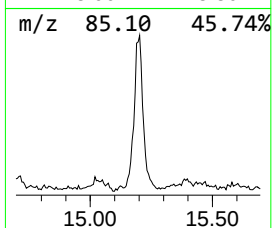
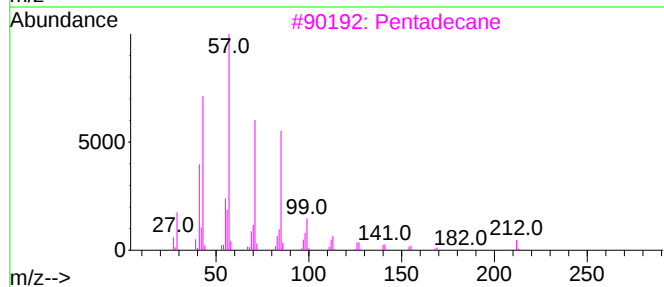
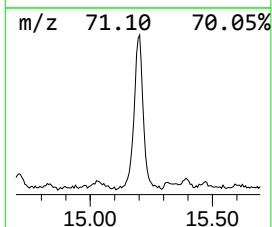
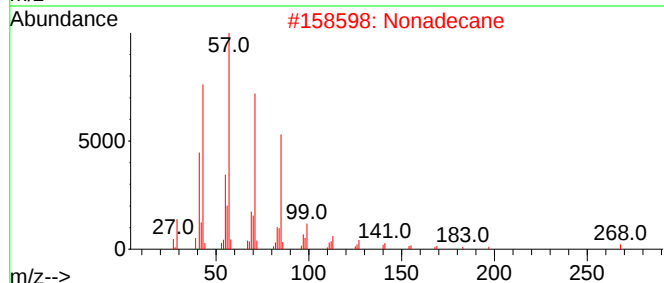
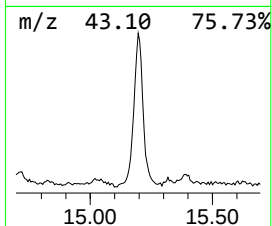
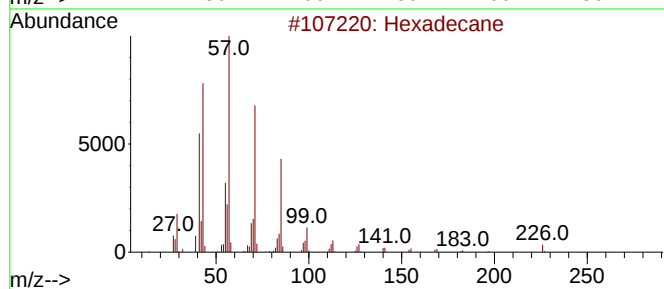
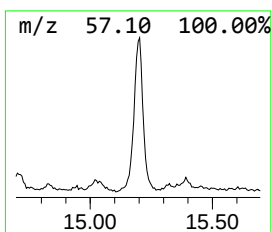
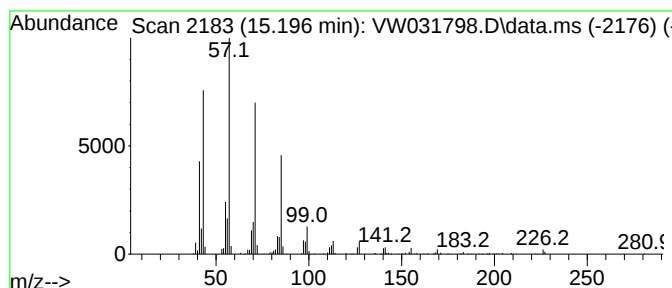
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Quant Title : SW846 8260

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

Peak Number 6 Hexadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.196	19.54 ug/l	434245	1,4-Dichlorobenzene-d4	13.562

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Hexadecane	226	C16H34	000544-76-3	97
2		Nonadecane	268	C19H40	000629-92-5	91
3		Pentadecane	212	C15H32	000629-62-9	91
4		Heneicosane	296	C21H44	000629-94-7	91
5		Tetradecane	198	C14H30	000629-59-4	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

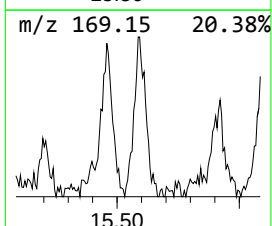
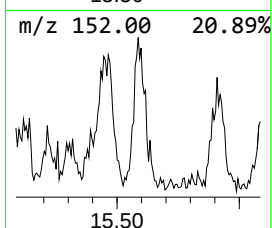
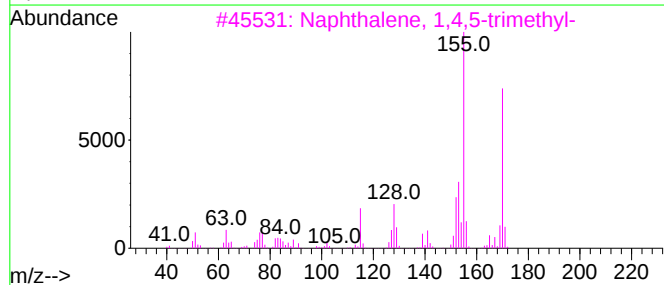
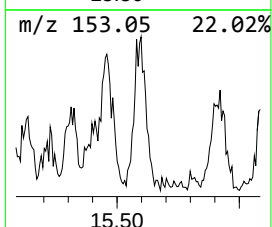
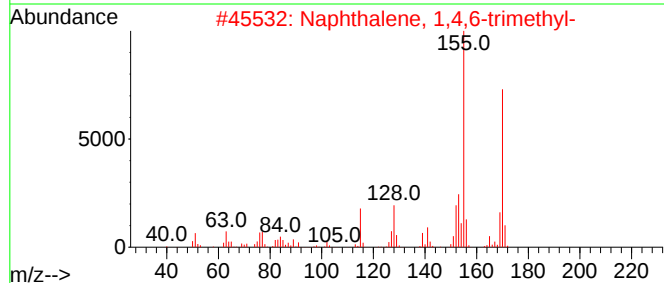
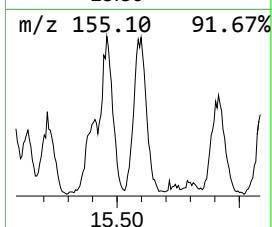
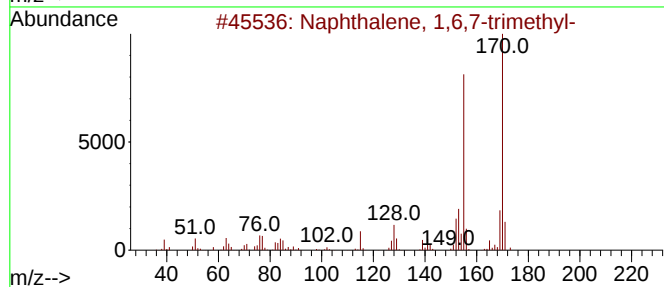
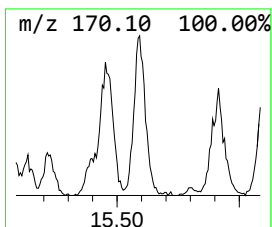
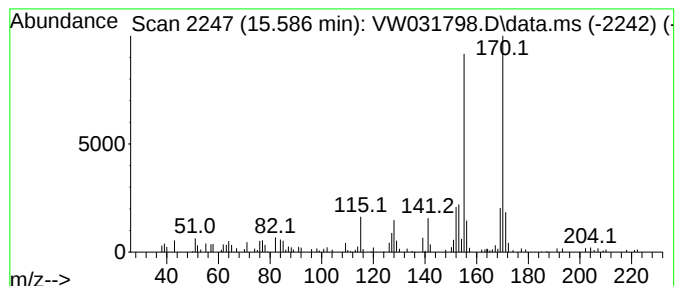
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Quant Title : SW846 8260

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

Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.586	7.42 ug/l	164824	1,4-Dichlorobenzene-d4	13.562

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	95
2		Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	94
3		Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
4		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
5		4,6,8-Trimethylazulene	170	C13H14	000941-81-1	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031798.D
Acq On : 10 Jul 2025 13:25
Operator : SY/MD
Sample : Q2529-05
Misc : 5.54g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-98

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene, 1,...	12.836	32.4	ug/l	720982	4	13.562	1111190	50.0
Naphthalene, 2,...	13.257	13.1	ug/l	291044	4	13.562	1111190	50.0
Naphthalene, 2,...	13.410	11.7	ug/l	260895	4	13.562	1111190	50.0
Naphthalene, 2-...	15.050	7.7	ug/l	170871	4	13.562	1111190	50.0
Hexadecane	15.196	19.5	ug/l	434245	4	13.562	1111190	50.0
Naphthalene, 1,...	15.586	7.4	ug/l	164824	4	13.562	1111190	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73 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
VW031799.D	1	07/10/25 13:47	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	U	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.91	U	0.91	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.8	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.60	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.8	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73 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
VW031799.D	1	07/10/25 13:47	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.8	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.80	U	0.80	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.10	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		63 - 155	108%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	45.7		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.965			
540-36-3	1,4-Difluorobenzene	405000	8.849			
3114-55-4	Chlorobenzene-d5	384000	11.636			
3855-82-1	1,4-Dichlorobenzene-d4	173000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73 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
VW031799.D	1	07/10/25 13:47	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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 : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

Quant Time: Jul 11 02:20:21 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	185474	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	405430	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	383839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	173217	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	144084	54.131	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	108.260%
35) Dibromofluoromethane	7.904	113	122681	46.372	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.740%
50) Toluene-d8	10.325	98	449699	45.676	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.360%
62) 4-Bromofluorobenzene	12.617	95	179693	49.596	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.200%

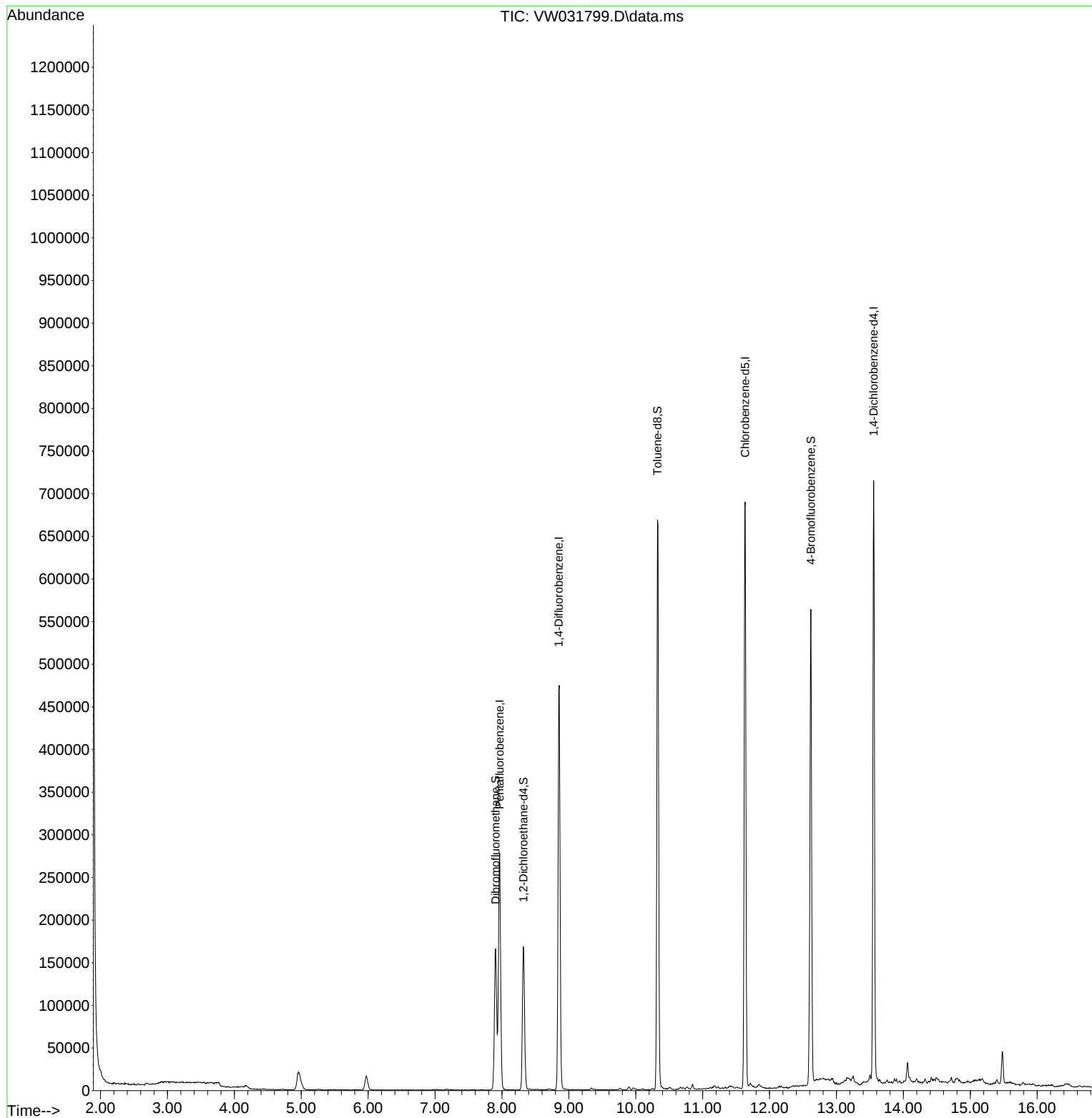
Target Compounds	Qvalue

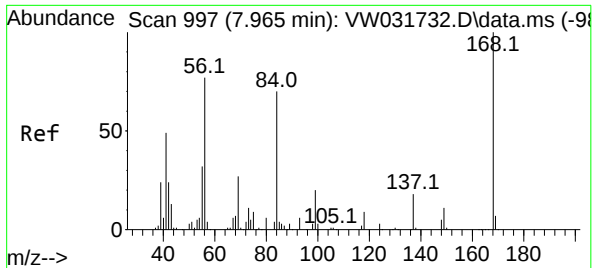
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

Quant Time: Jul 11 02:20:21 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

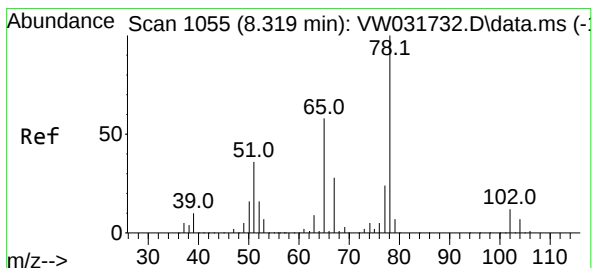
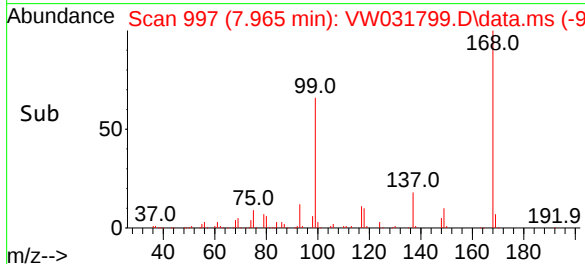
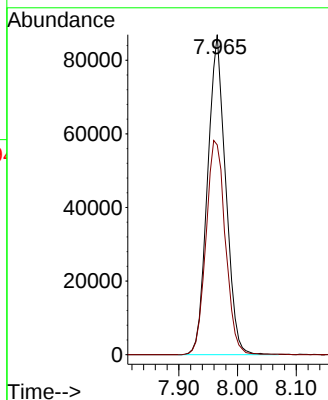
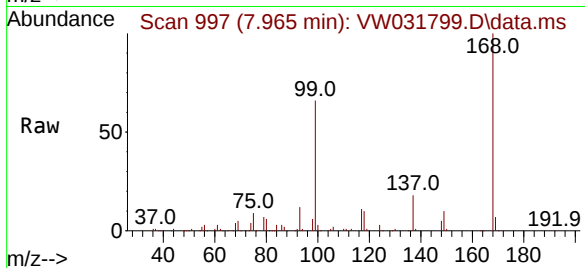




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

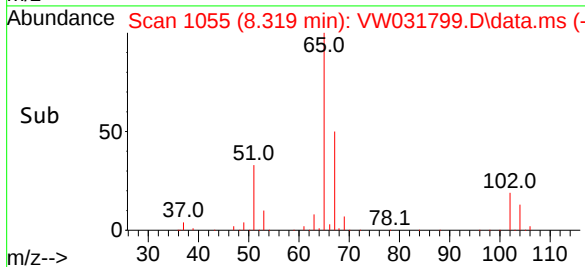
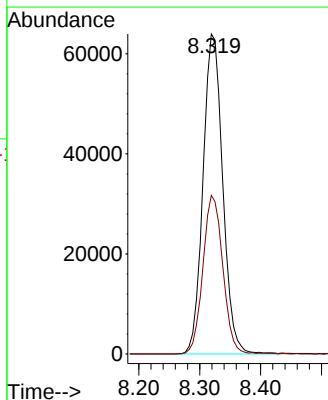
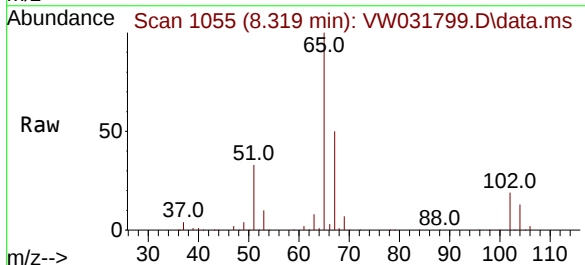
Instrument :
MSVOA_W
ClientSampleId :
TP-102

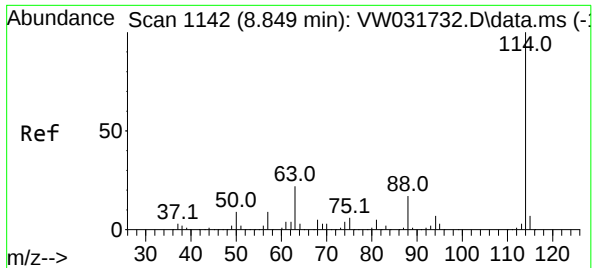
Tgt Ion:168 Resp: 185474
Ion Ratio Lower Upper
168 100
99 65.6 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 54.131 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

Tgt Ion: 65 Resp: 144084
Ion Ratio Lower Upper
65 100
67 50.1 0.0 99.4

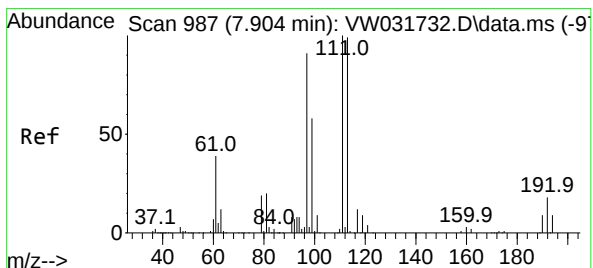
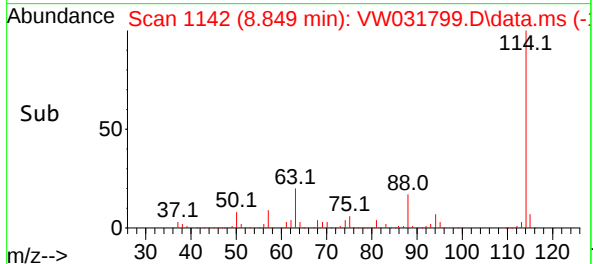
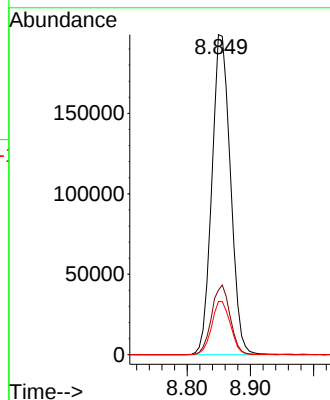
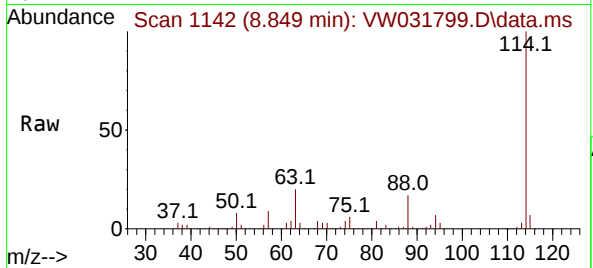




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

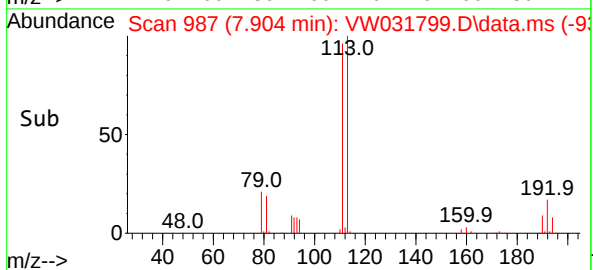
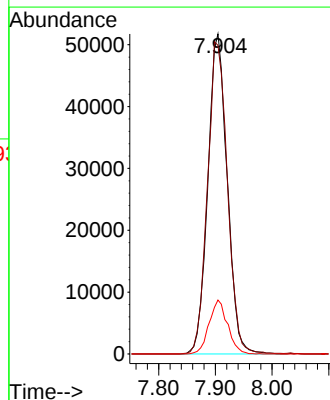
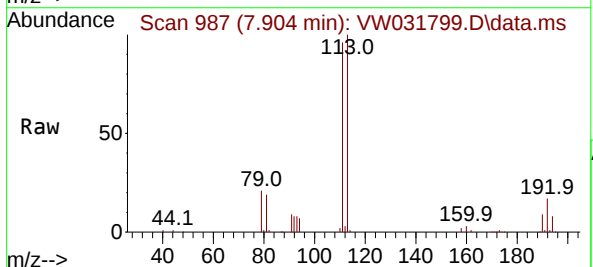
Instrument :
MSVOA_W
ClientSampleId :
TP-102

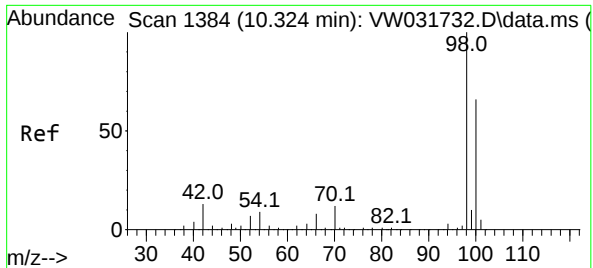
Tgt Ion:114 Resp: 405430
Ion Ratio Lower Upper
114 100
63 20.2 0.0 43.6
88 16.6 0.0 34.2



#35
Dibromofluoromethane
Concen: 46.372 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

Tgt Ion:113 Resp: 122681
Ion Ratio Lower Upper
113 100
111 100.3 82.1 123.1
192 16.1 13.8 20.6

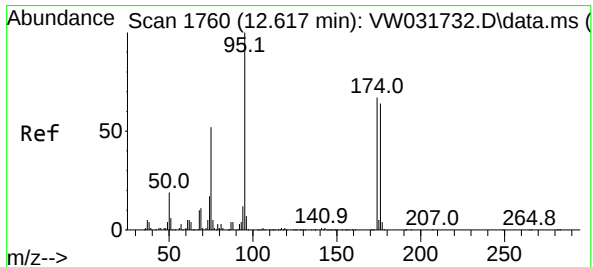
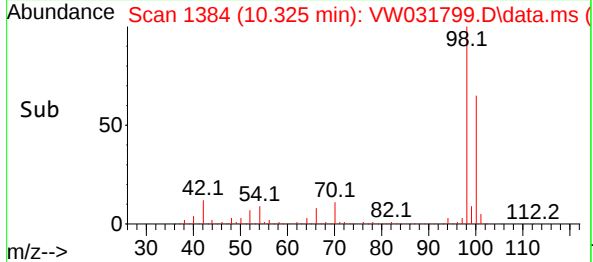
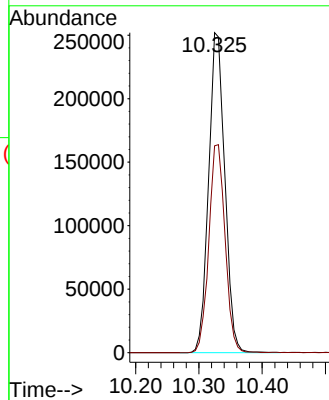
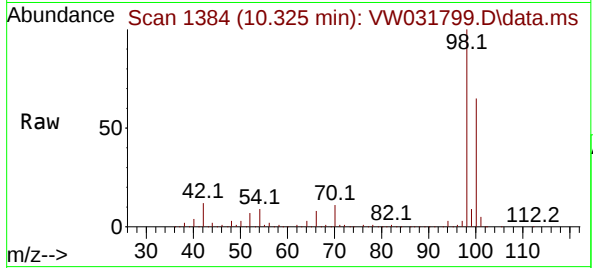




#50
Toluene-d8
Concen: 45.676 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

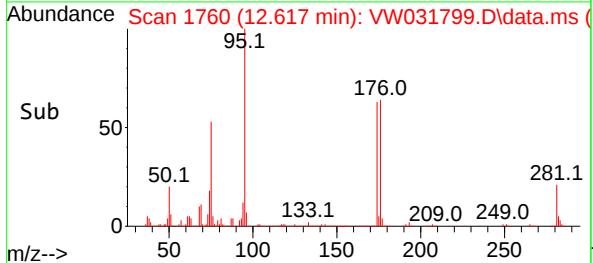
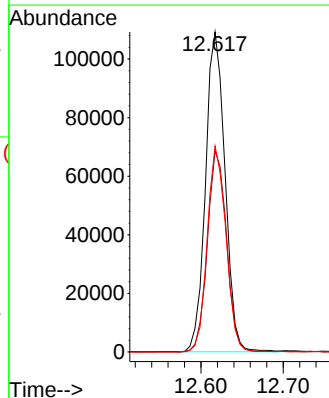
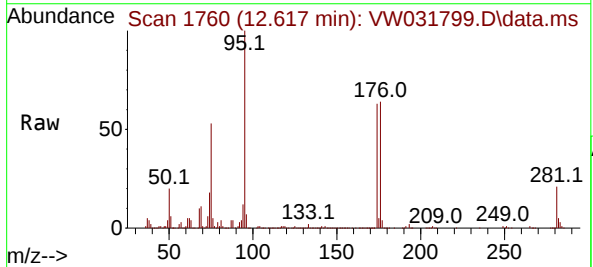
Instrument :
MSVOA_W
ClientSampleId :
TP-102

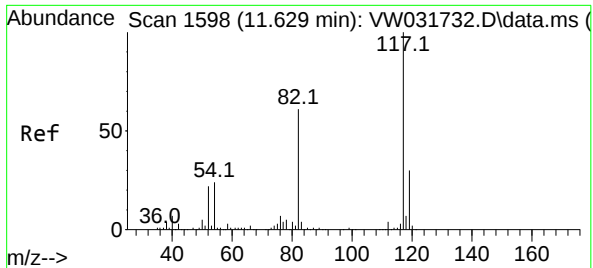
Tgt Ion: 98 Resp: 449699
Ion Ratio Lower Upper
98 100
100 65.2 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 49.596 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

Tgt Ion: 95 Resp: 179693
Ion Ratio Lower Upper
95 100
174 61.9 0.0 133.8
176 61.9 0.0 126.0

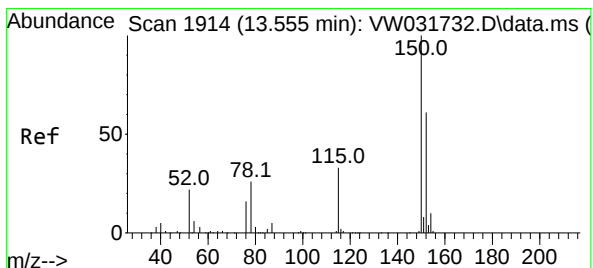
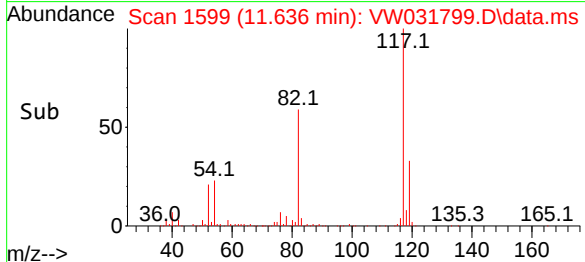
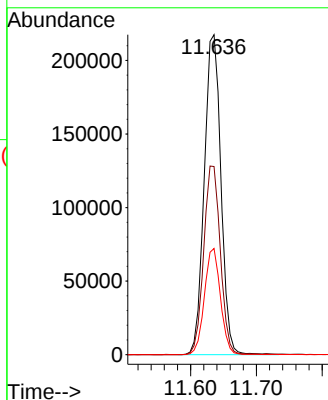
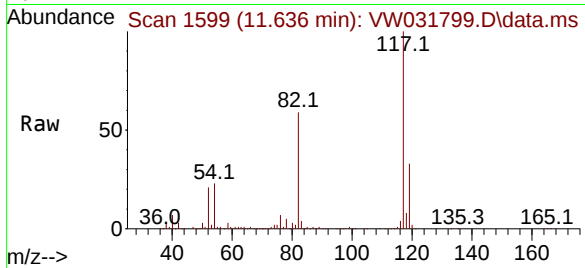




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.636 min Scan# 11
Delta R.T. 0.007 min
Lab File: VW031799.D
Acq: 10 Jul 2025 13:47

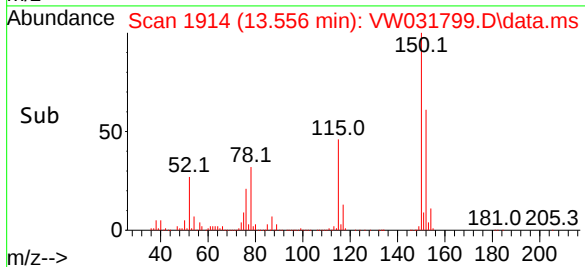
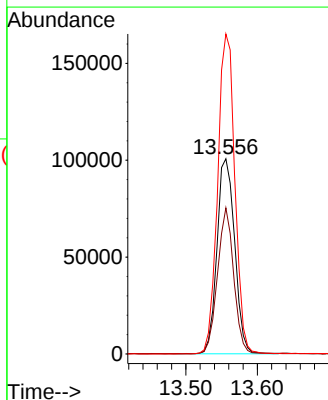
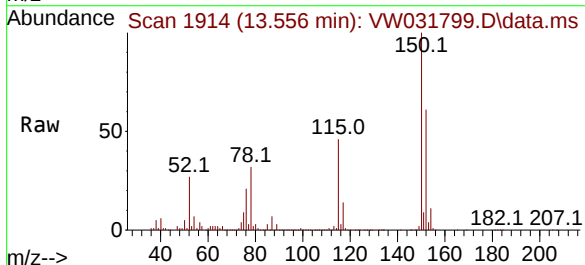
Instrument :
MSVOA_W
ClientSampleId :
TP-102

Tgt Ion:117 Resp: 383839
Ion Ratio Lower Upper
117 100
82 58.8 48.6 72.8
119 33.2 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: VW031799.D
Acq: 10 Jul 2025 13:47

Tgt Ion:152 Resp: 173217
Ion Ratio Lower Upper
152 100
115 68.2 31.9 95.7
150 159.5 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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: VW031799.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	517	rBV2	21327	87408	7.15%	1.215%
2	5.972	659	670	685	rBV2	16511	49678	4.06%	0.690%
3	7.904	973	987	991	rBV	165764	386661	31.64%	5.373%
4	7.965	991	997	1007	rVB	276789	624709	51.11%	8.681%
5	8.319	1046	1055	1069	rBV	168240	381076	31.18%	5.296%
6	8.856	1133	1143	1154	rBV	473977	973309	79.64%	13.525%
7	10.325	1377	1384	1393	rBV	668246	1206466	98.71%	16.765%
8	11.636	1589	1599	1608	rBV	688042	1222196	100.00%	16.984%
9	12.617	1750	1760	1768	rBV2	558380	1017233	83.23%	14.136%
10	13.556	1907	1914	1922	rBV	701468	1145245	93.70%	15.915%
11	14.062	1992	1997	2001	rBV	20855	33754	2.76%	0.469%
12	15.482	2223	2230	2235	rBV	37413	68474	5.60%	0.952%

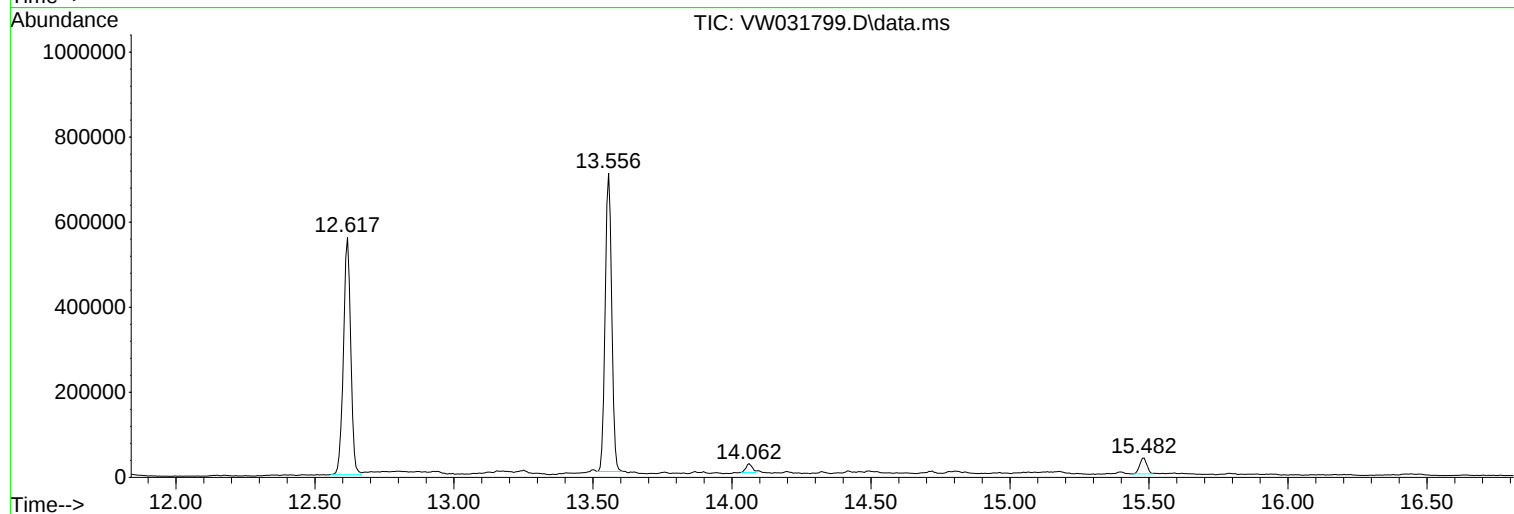
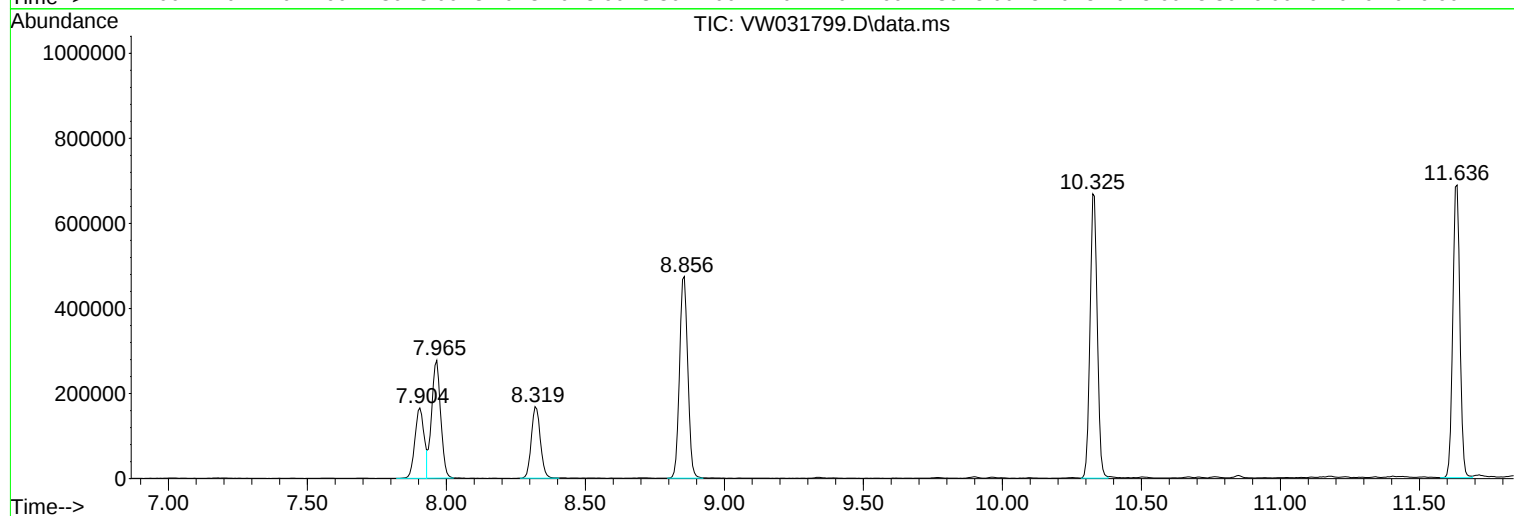
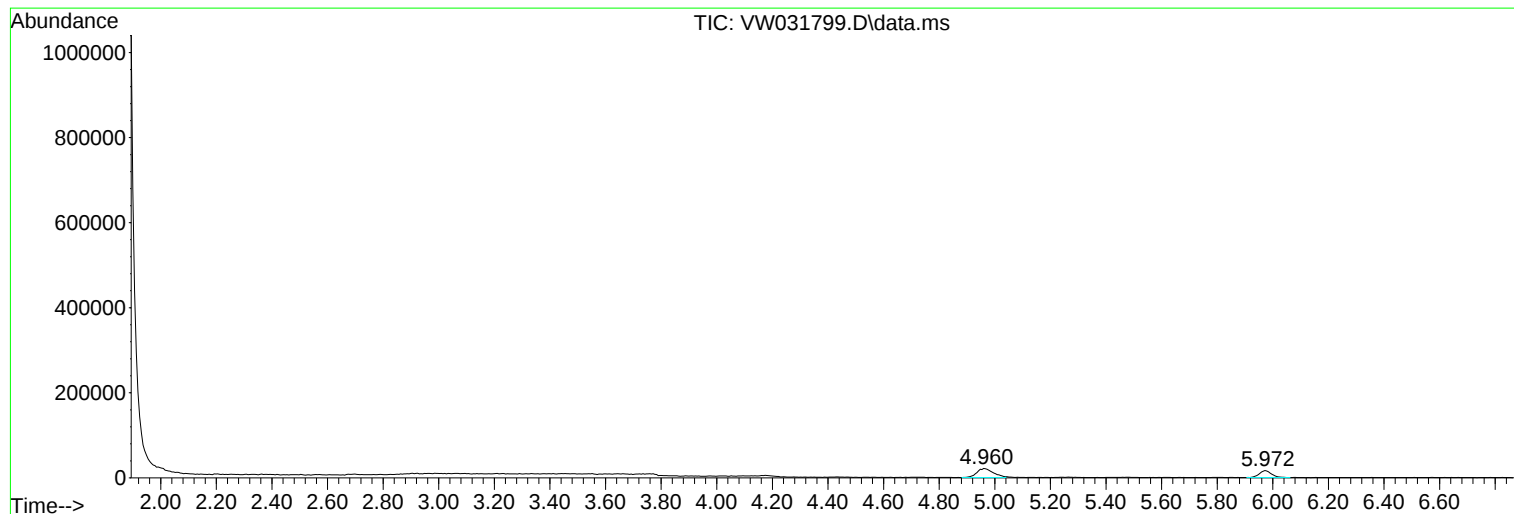
Sum of corrected areas: 7196209

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

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 : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031799.D
Acq On : 10 Jul 2025 13:47
Operator : SY/MD
Sample : Q2529-06
Misc : 5.73g/5mL/MSVOA_W/SOIL/B
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-102

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15 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
VW031800.D	1	07/10/25 14:09	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.40	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.40	ug/Kg
75-01-4	Vinyl Chloride	0.86	U	0.86	5.40	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.40	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.40	ug/Kg
67-64-1	Acetone	5.10	U	5.10	27.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.79	U	0.79	5.40	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.93	U	0.93	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.87	U	0.87	5.40	ug/Kg
110-82-7	Cyclohexane	0.86	U	0.86	5.40	ug/Kg
78-93-3	2-Butanone	7.10	U	7.10	27.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.81	U	0.81	5.40	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.40	ug/Kg
67-66-3	Chloroform	0.91	U	0.91	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
108-87-2	Methylcyclohexane	0.98	U	0.98	5.40	ug/Kg
71-43-2	Benzene	0.86	U	0.86	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.86	U	0.86	5.40	ug/Kg
79-01-6	Trichloroethene	0.88	U	0.88	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.98	U	0.98	5.40	ug/Kg
75-27-4	Bromodichloromethane	0.84	U	0.84	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.90	U	3.90	27.1	ug/Kg
108-88-3	Toluene	0.84	U	0.84	5.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15 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
VW031800.D	1	07/10/25 14:09	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.70	U	0.70	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	27.1	ug/Kg
124-48-1	Dibromochloromethane	0.94	U	0.94	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.95	U	0.95	5.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.40	ug/Kg
108-90-7	Chlorobenzene	0.98	U	0.98	5.40	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.40	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.8	ug/Kg
95-47-6	o-Xylene	0.89	U	0.89	5.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	5.40	ug/Kg
75-25-2	Bromoform	0.93	U	0.93	5.40	ug/Kg
98-82-8	Isopropylbenzene	0.84	U	0.84	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	46.2		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	44.9		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	7.959			
540-36-3	1,4-Difluorobenzene	405000	8.855			
3114-55-4	Chlorobenzene-d5	379000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.556			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031800.D	1	07/10/25 14:09	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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 : VW031800.D
 Acq On : 10 Jul 2025 14:09
 Operator : SY/MD
 Sample : Q2529-07
 Misc : 5.15g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-101

Quant Time: Jul 11 02:20:43 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	173749	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.855	114	404966	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	378578	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	177324	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	142239	57.044	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	114.080%
35) Dibromofluoromethane	7.904	113	121958	46.151	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.300%
50) Toluene-d8	10.331	98	441924	44.938	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	89.880%
62) 4-Bromofluorobenzene	12.617	95	171005	47.253	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	94.500%

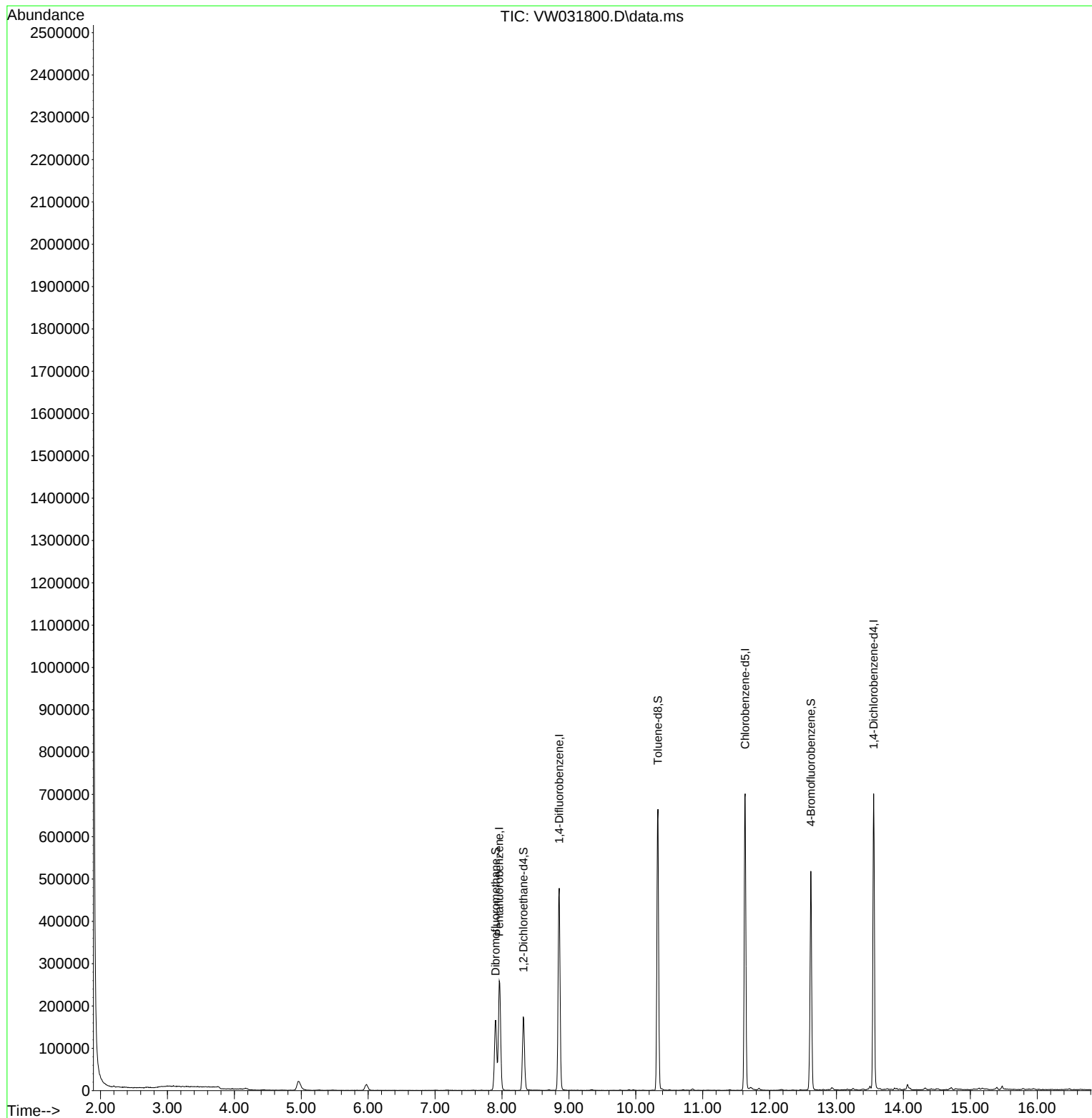
Target Compounds	Qvalue

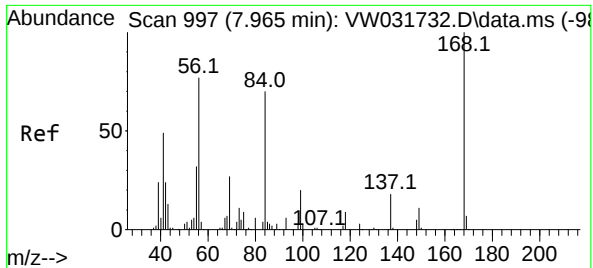
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031800.D
Acq On : 10 Jul 2025 14:09
Operator : SY/MD
Sample : Q2529-07
Misc : 5.15g/5mL/MSVOA_W/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-101

Quant Time: Jul 11 02:20:43 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

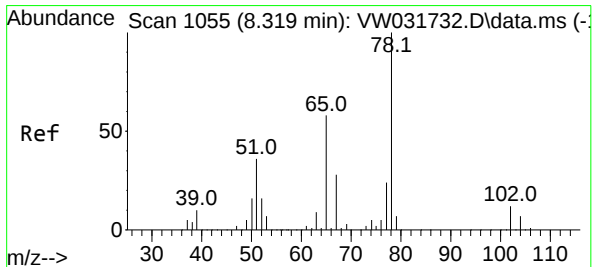
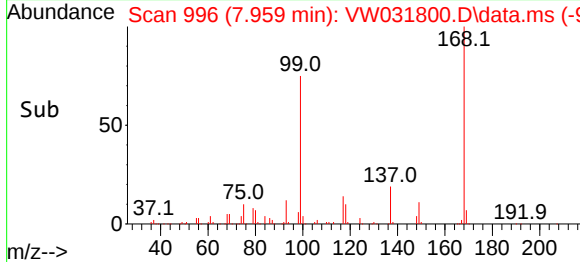
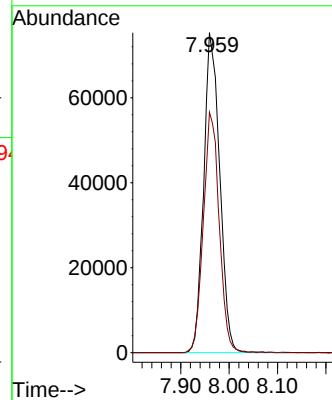
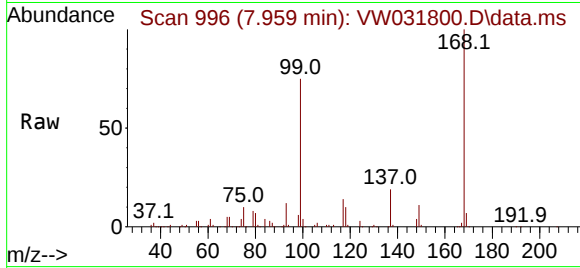




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW031800.D
Acq: 10 Jul 2025 14:09

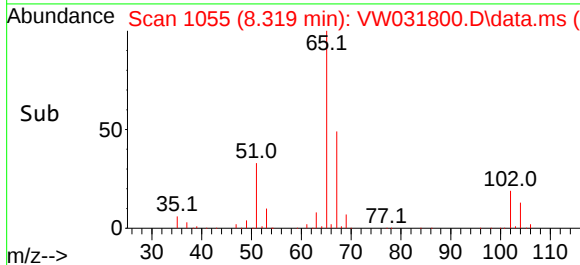
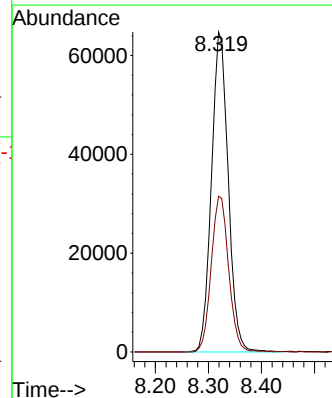
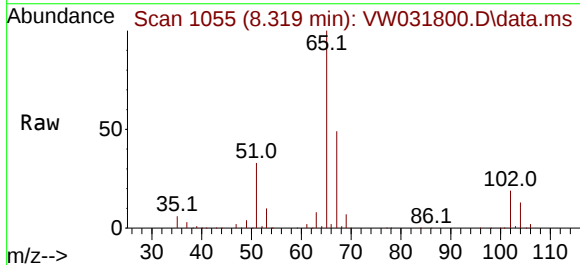
Instrument :
MSVOA_W
ClientSampleId :
TP-101

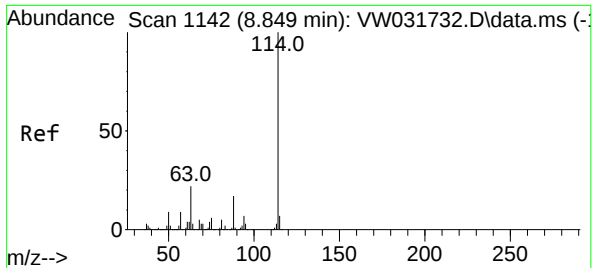
Tgt Ion:168 Resp: 173749
Ion Ratio Lower Upper
168 100
99 75.2 49.4 74.2#



#33
1,2-Dichloroethane-d4
Concen: 57.044 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031800.D
Acq: 10 Jul 2025 14:09

Tgt Ion: 65 Resp: 142239
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# 1143

Delta R.T. 0.006 min

Lab File: VW031800.D

Acq: 10 Jul 2025 14:09

Instrument :

MSVOA_W

ClientSampleId :

TP-101

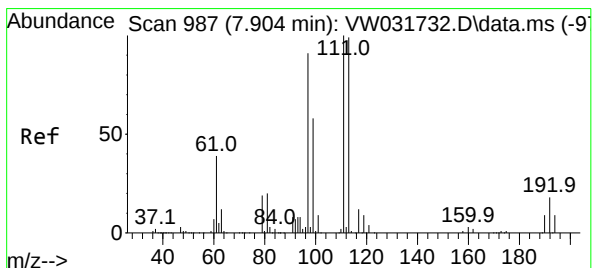
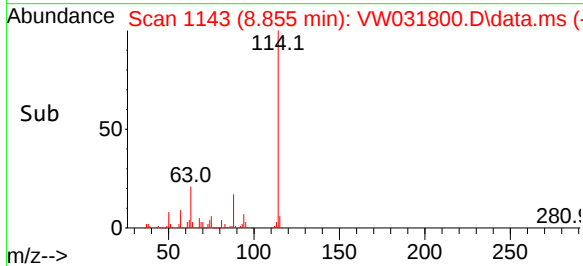
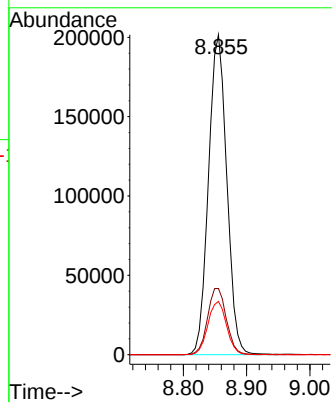
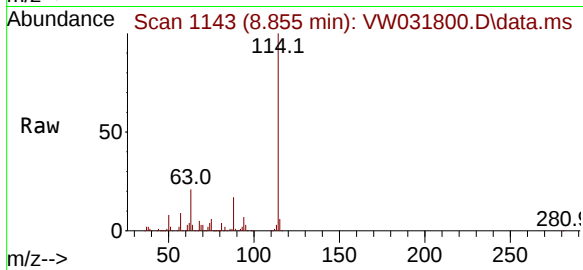
Tgt Ion:114 Resp: 404966

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.6

88 16.7 0.0 34.2



#35

Dibromofluoromethane

Concen: 46.151 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031800.D

Acq: 10 Jul 2025 14:09

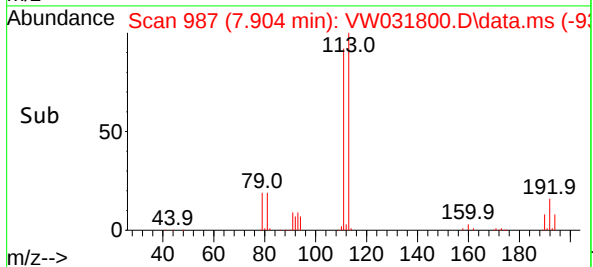
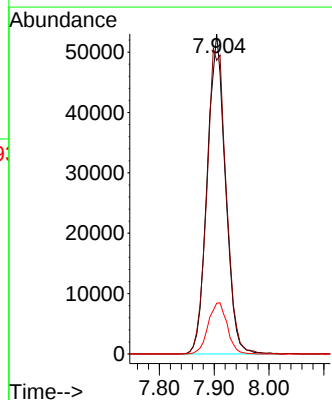
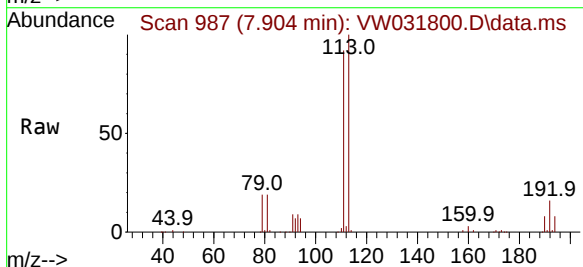
Tgt Ion:113 Resp: 121958

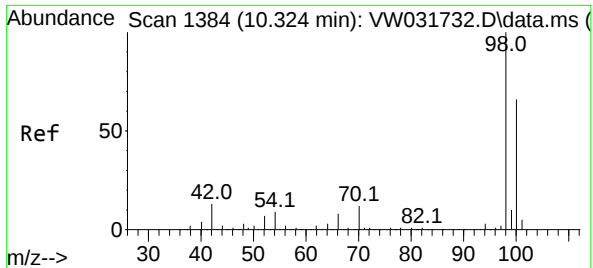
Ion Ratio Lower Upper

113 100

111 101.6 82.1 123.1

192 16.7 13.8 20.6

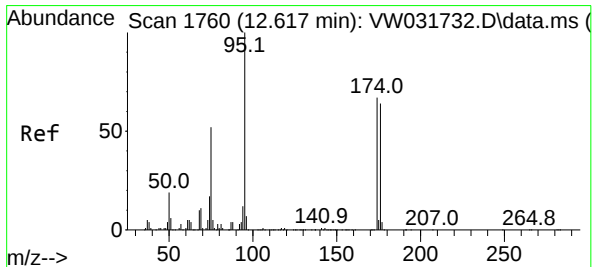
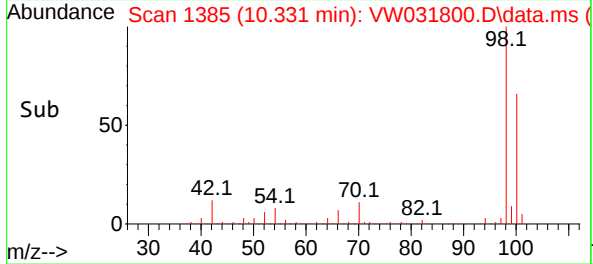
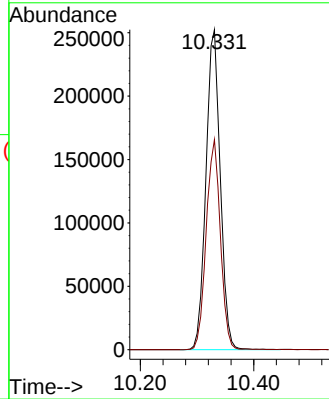
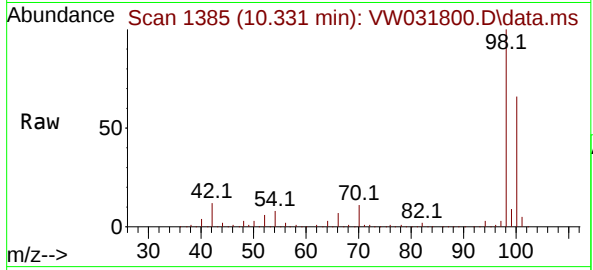




#50
Toluene-d8
Concen: 44.938 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031800.D
Acq: 10 Jul 2025 14:09

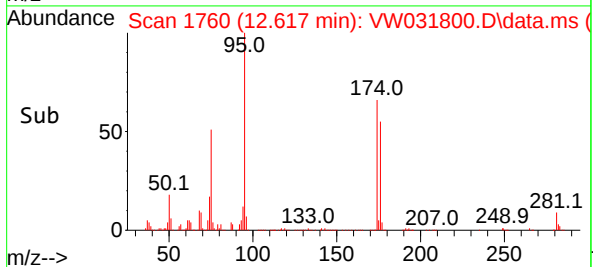
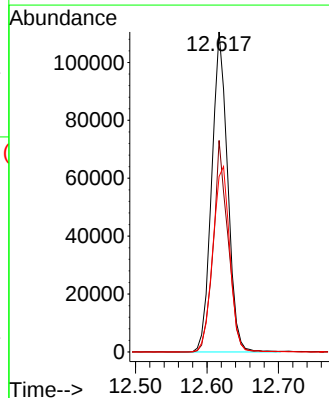
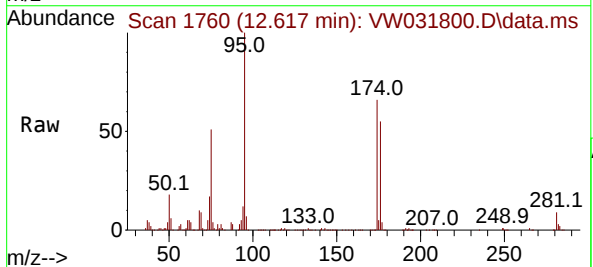
Instrument :
MSVOA_W
ClientSampleId :
TP-101

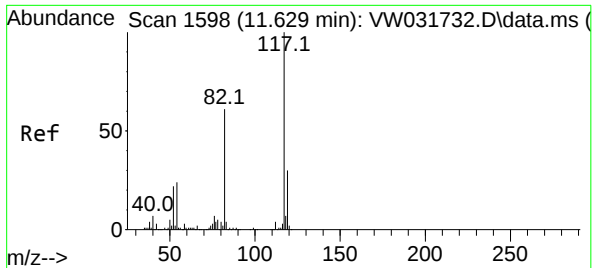
Tgt Ion: 98 Resp: 441924
Ion Ratio Lower Upper
98 100
100 65.2 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 47.253 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031800.D
Acq: 10 Jul 2025 14:09

Tgt Ion: 95 Resp: 171005
Ion Ratio Lower Upper
95 100
174 61.3 0.0 133.8
176 62.1 0.0 126.0

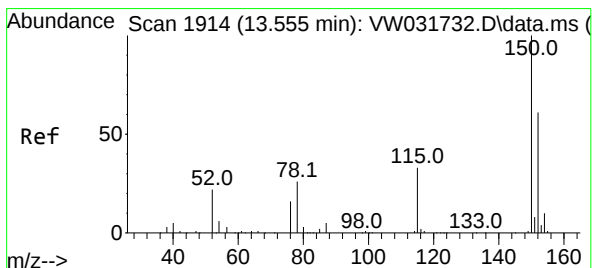
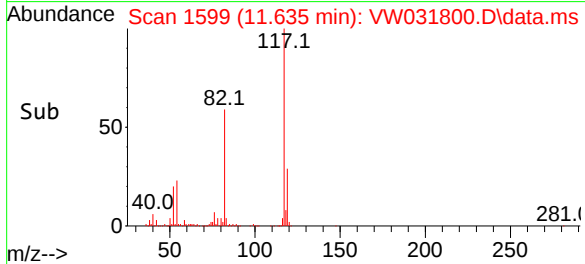
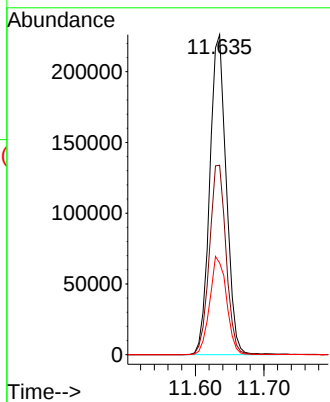
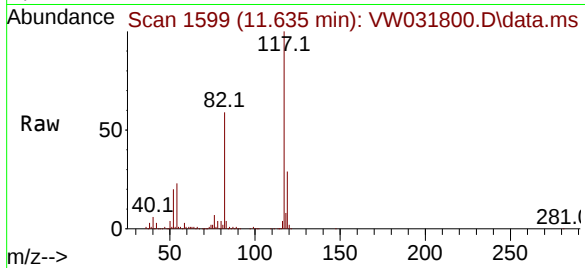




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031800.D
Acq: 10 Jul 2025 14:09

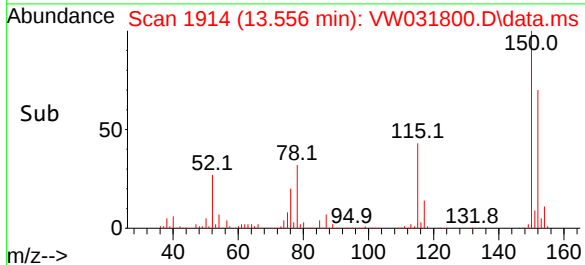
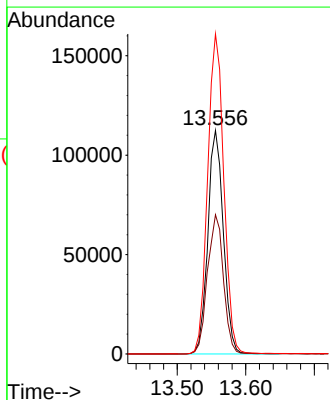
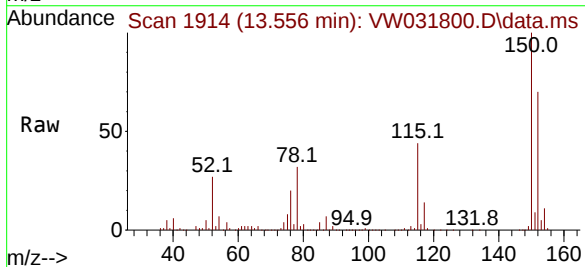
Instrument :
MSVOA_W
ClientSampleId :
TP-101

Tgt Ion:117 Resp: 378578
Ion Ratio Lower Upper
117 100
82 59.2 48.6 72.8
119 28.7 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: VW031800.D
Acq: 10 Jul 2025 14:09

Tgt Ion:152 Resp: 177324
Ion Ratio Lower Upper
152 100
115 64.2 31.9 95.7
150 149.0 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031800.D
Acq On : 10 Jul 2025 14:09
Operator : SY/MD
Sample : Q2529-07
Misc : 5.15g/5mL/MSVOA_W/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-101

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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: VW031800.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	489	503	520	rBV3	21137	88543	7.34%	1.291%
2	5.978	660	671	683	rBV3	13942	43645	3.62%	0.636%
3	7.904	976	987	991	rBV2	165674	384056	31.82%	5.598%
4	7.959	991	996	1013	rVB2	258733	606562	50.26%	8.841%
5	8.319	1045	1055	1067	rBV	173882	380768	31.55%	5.550%
6	8.855	1133	1143	1154	rBV	477559	968527	80.25%	14.117%
7	10.331	1376	1385	1393	rBV	664328	1185998	98.27%	17.287%
8	11.635	1586	1599	1608	rBV	700837	1206894	100.00%	17.591%
9	12.617	1751	1760	1770	rBV3	517074	873155	72.35%	12.727%
10	13.556	1907	1914	1926	rVB	697307	1122547	93.01%	16.362%

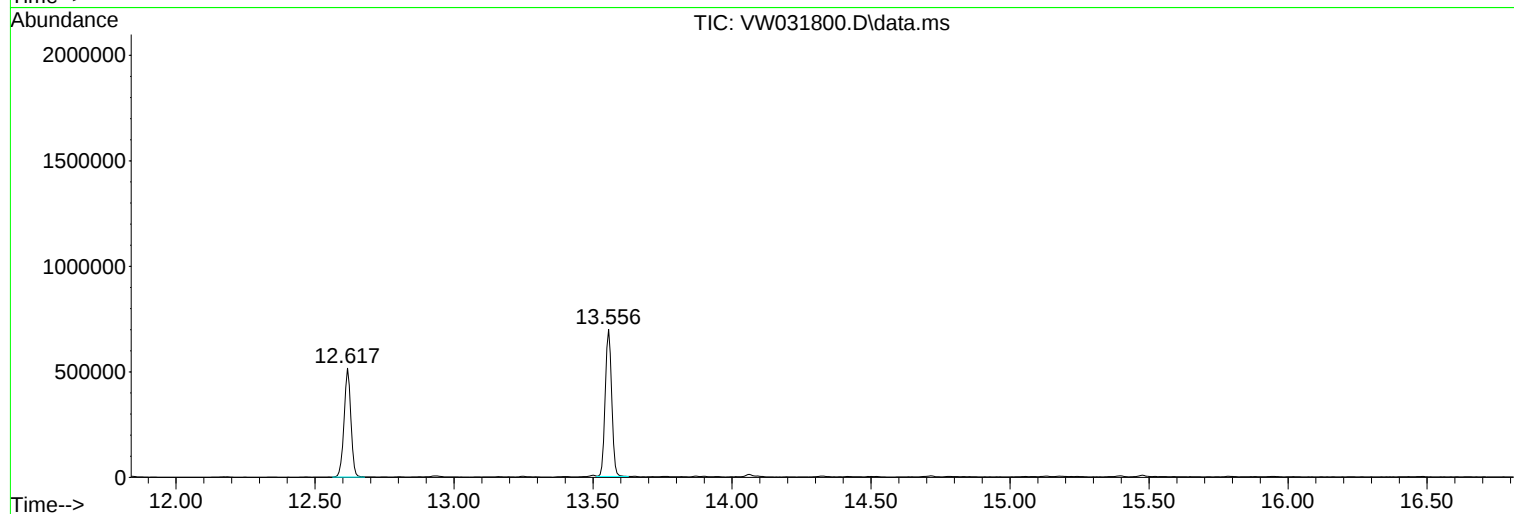
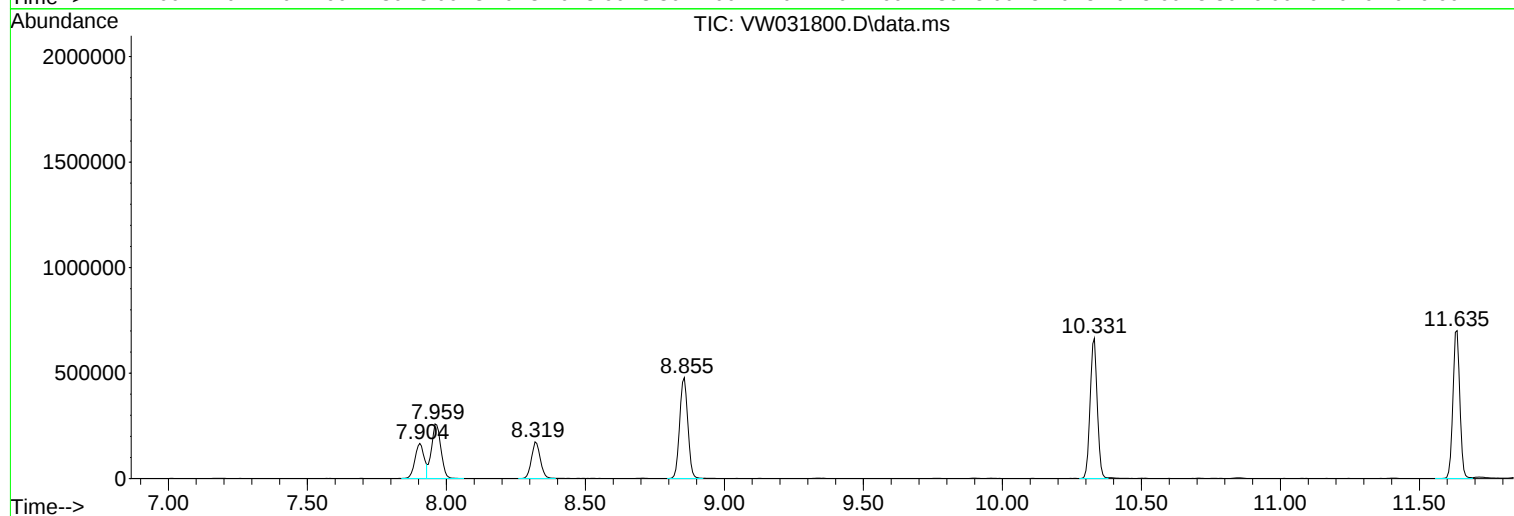
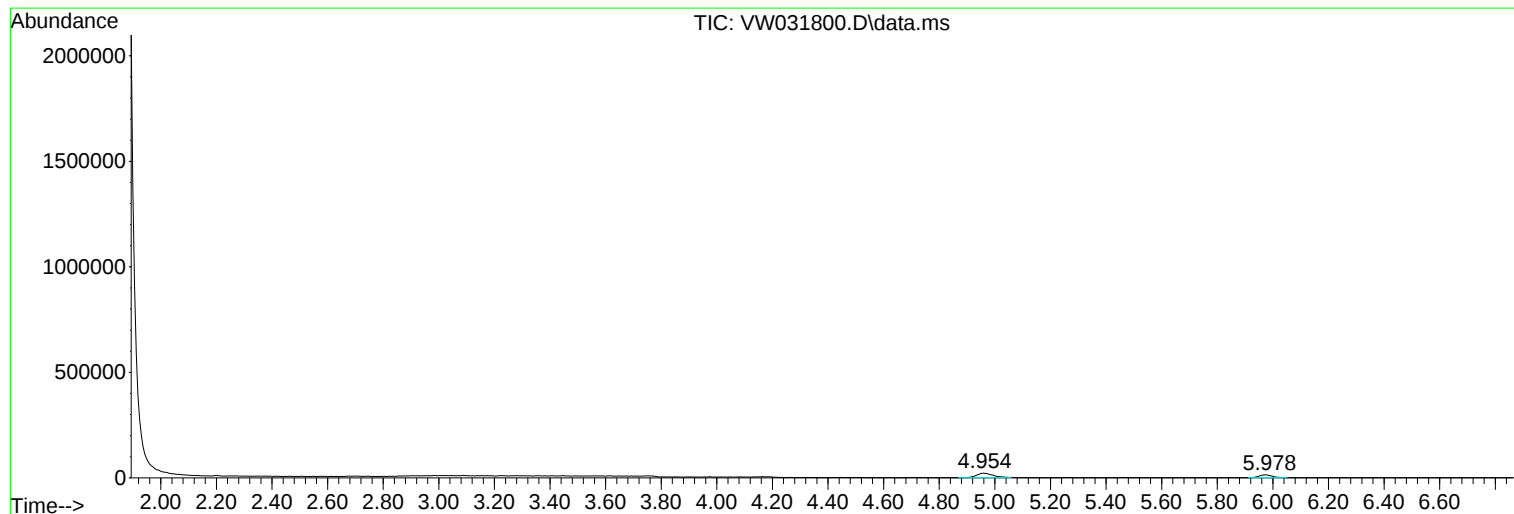
Sum of corrected areas: 6860695

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031800.D
Acq On : 10 Jul 2025 14:09
Operator : SY/MD
Sample : Q2529-07
Misc : 5.15g/5mL/MSVOA_W/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-101

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 : VW031800.D
Acq On : 10 Jul 2025 14:09
Operator : SY/MD
Sample : Q2529-07
Misc : 5.15g/5mL/MSVOA_W/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-101

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031800.D
Acq On : 10 Jul 2025 14:09
Operator : SY/MD
Sample : Q2529-07
Misc : 5.15g/5mL/MSVOA_W/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-101

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
------------------	----	---------	-------	----------	---	----	------	------

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89 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
VW031801.D	1	07/10/25 14:30	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	7.10	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	7.10	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.10	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.10	ug/Kg
75-00-3	Chloroethane	1.80	U	1.80	7.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	7.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	1.50	7.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	7.10	ug/Kg
67-64-1	Acetone	16.8	J	6.80	35.7	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	7.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	7.10	ug/Kg
79-20-9	Methyl Acetate	2.20	U	2.20	7.10	ug/Kg
75-09-2	Methylene Chloride	9.30	J	5.00	14.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	7.10	ug/Kg
78-93-3	2-Butanone	9.30	U	9.30	35.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.40	U	1.40	7.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	7.10	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	7.10	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	7.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	7.10	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.10	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.30	U	1.30	7.10	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	7.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.10	U	5.10	35.7	ug/Kg
108-88-3	Toluene	1.10	U	1.10	7.10	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031801.D	1	07/10/25 14:30	VW071025

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89 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
VW031801.D	1	07/10/25 14:30	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000110-54-3	n-Hexane	7.20	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 : VW031801.D
 Acq On : 10 Jul 2025 14:30
 Operator : SY/MD
 Sample : Q2529-08
 Misc : 3.89g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-89

Quant Time: Jul 11 02:21:09 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)

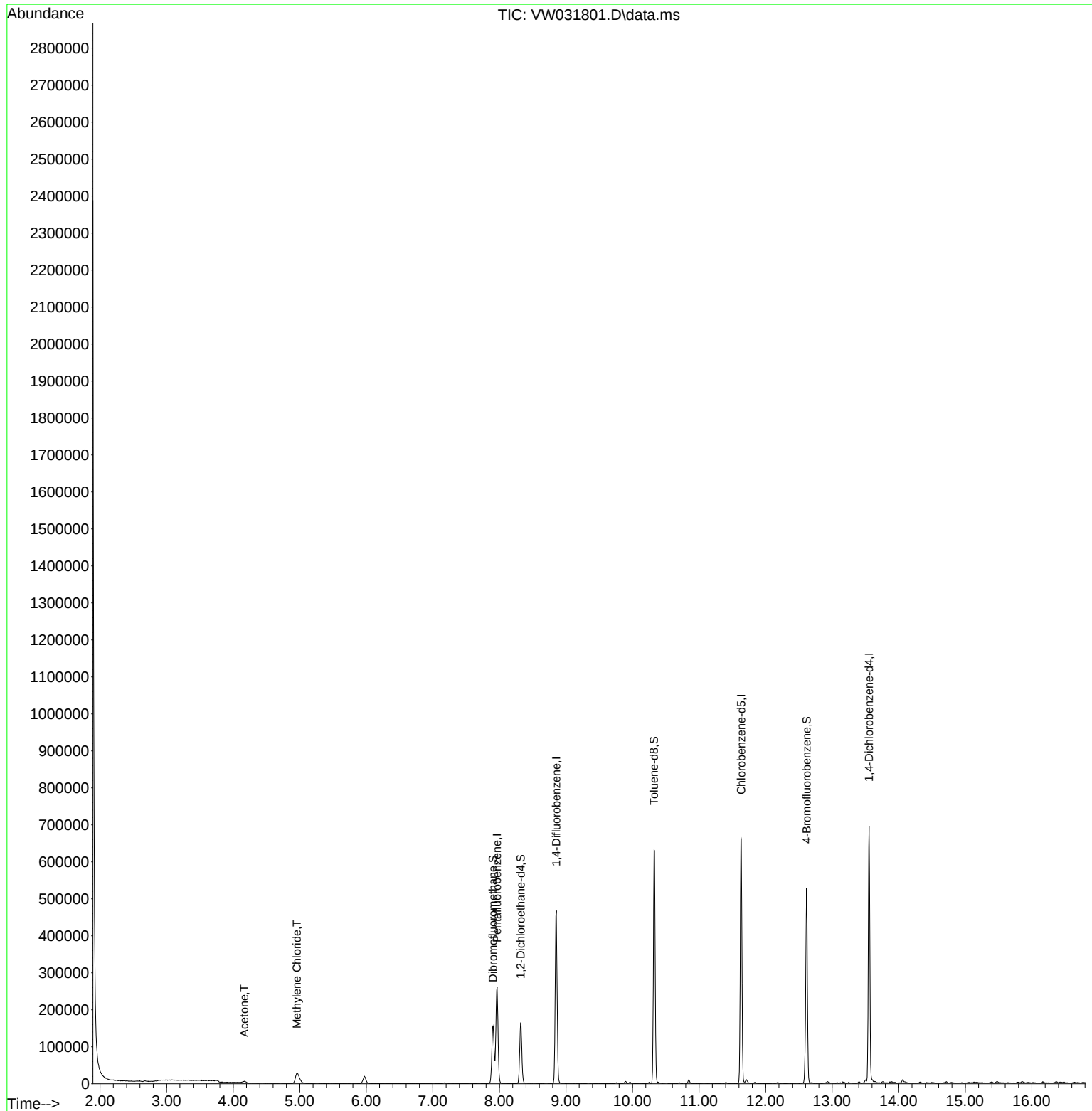
Internal Standards						
1) Pentafluorobenzene	7.965	168	174642	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	393151	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	366298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	174003	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	138054	55.083	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 110.160%			
35) Dibromofluoromethane	7.904	113	116738	45.503	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 91.000%			
50) Toluene-d8	10.325	98	428866	44.921	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 89.840%			
62) 4-Bromofluorobenzene	12.617	95	171272	48.749	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 97.500%			
Target Compounds						
16) Acetone	4.167	43	7296	11.778	ug/l	93
20) Methylene Chloride	4.960	84	25745	6.489	ug/l	91

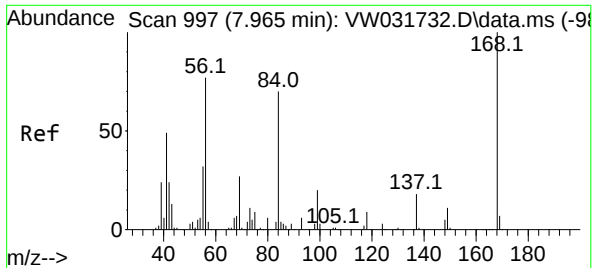
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031801.D
Acq On : 10 Jul 2025 14:30
Operator : SY/MD
Sample : Q2529-08
Misc : 3.89g/5mL/MSVOA_W/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-89

Quant Time: Jul 11 02:21:09 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

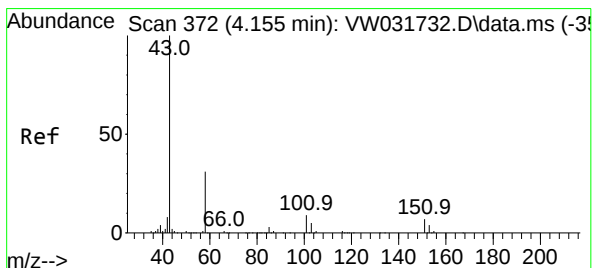
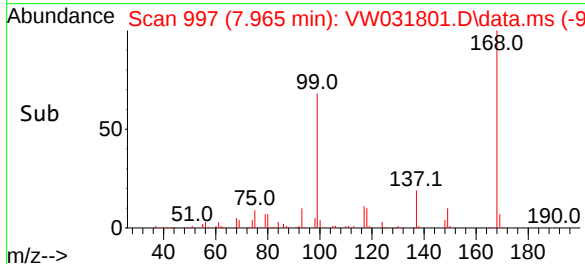
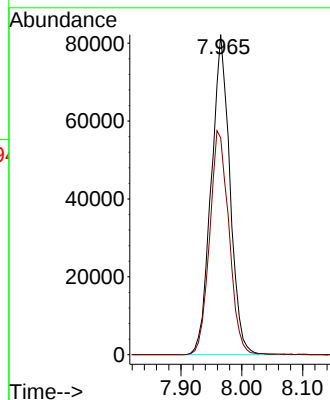
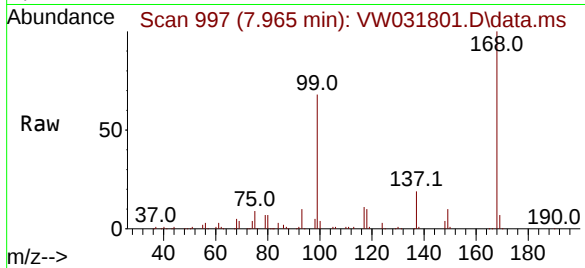




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

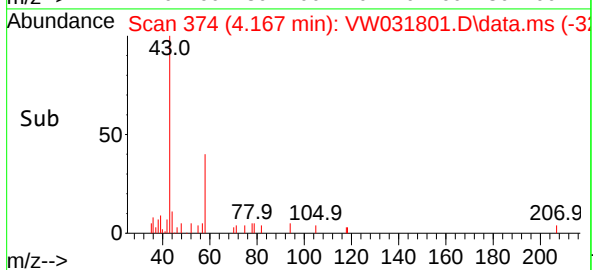
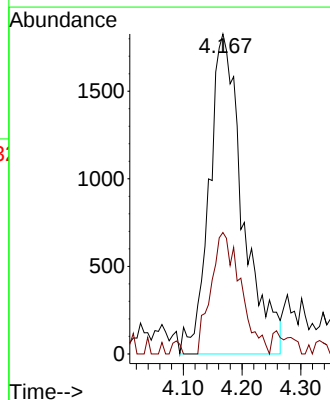
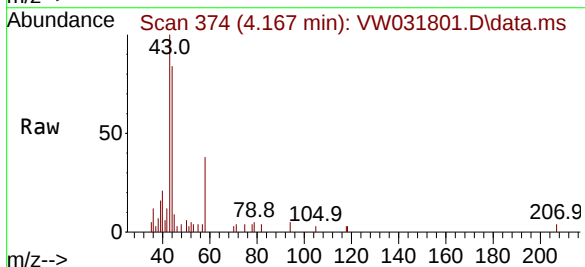
Instrument :
MSVOA_W
ClientSampleId :
TP-89

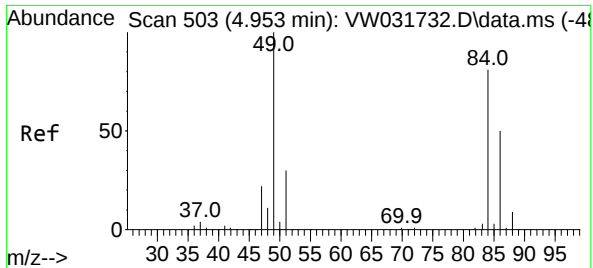
Tgt Ion:168 Resp: 174642
Ion Ratio Lower Upper
168 100
99 67.7 49.4 74.2



#16
Acetone
Concen: 11.778 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.013 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

Tgt Ion: 43 Resp: 7296
Ion Ratio Lower Upper
43 100
58 34.9 24.8 37.2





#20

Methylene Chloride

Concen: 6.489 ug/l

RT: 4.960 min Scan# 503

Delta R.T. 0.006 min

Lab File: VW031801.D

Acq: 10 Jul 2025 14:30

Instrument :

MSVOA_W

ClientSampleId :

TP-89

Tgt Ion: 84 Resp: 25745

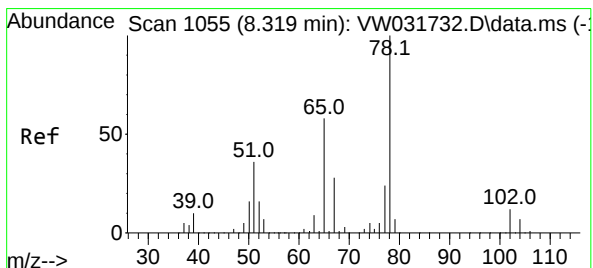
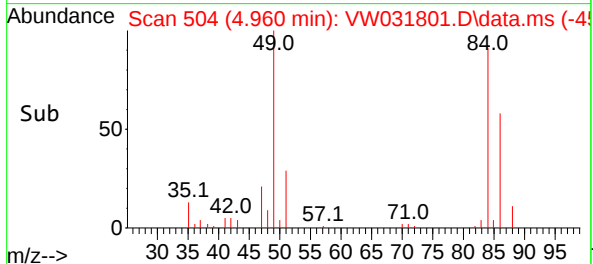
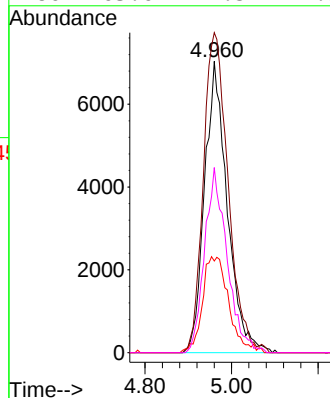
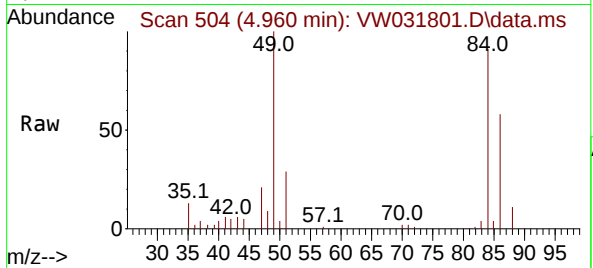
Ion Ratio Lower Upper

84 100

49 109.8 98.2 147.4

51 31.5 29.8 44.8

86 63.6 49.5 74.3



#33

1,2-Dichloroethane-d4

Concen: 55.083 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW031801.D

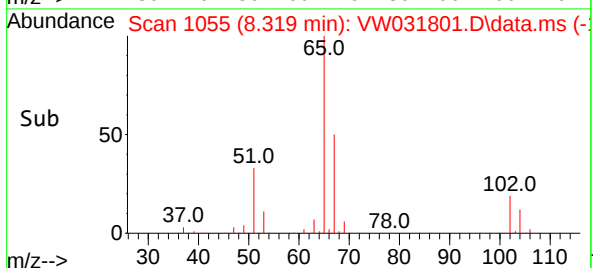
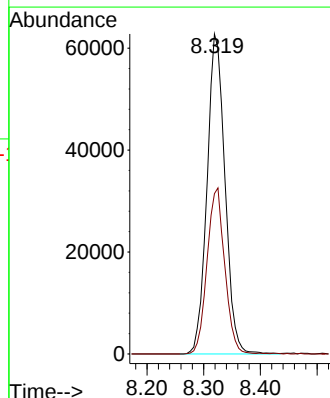
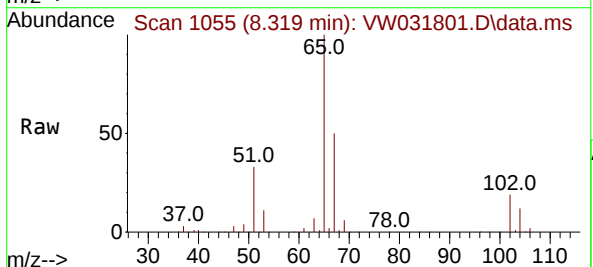
Acq: 10 Jul 2025 14:30

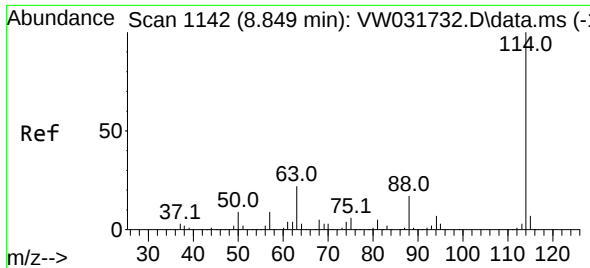
Tgt Ion: 65 Resp: 138054

Ion Ratio Lower Upper

65 100

67 51.1 0.0 99.4

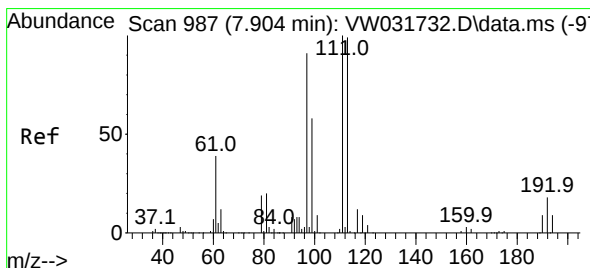
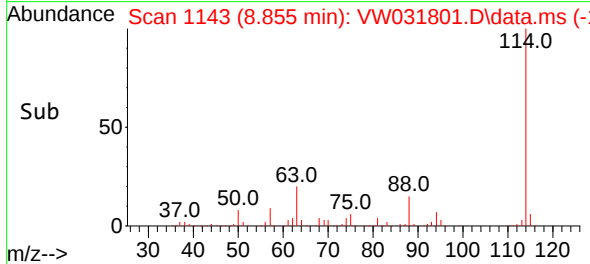
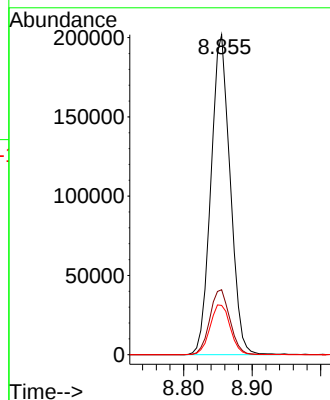
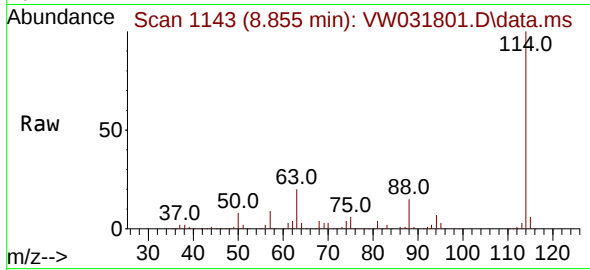




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

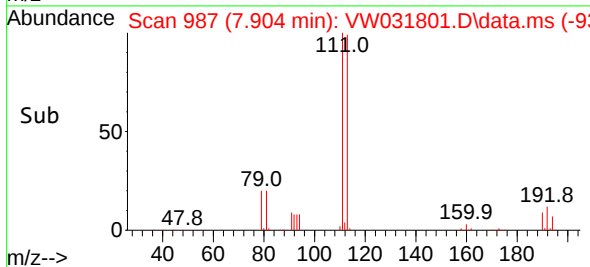
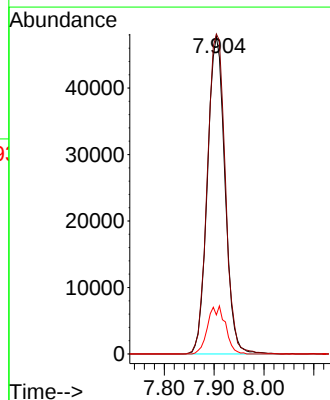
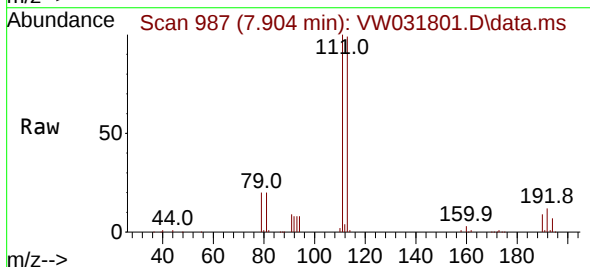
Instrument :
MSVOA_W
ClientSampleId :
TP-89

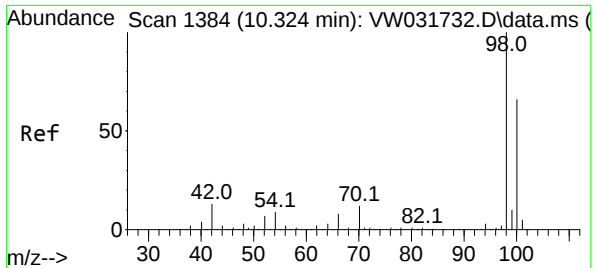
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	43.6
88	15.4	0.0	34.2



#35
Dibromofluoromethane
Concen: 45.503 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.1	123.1
192	15.3	13.8	20.6

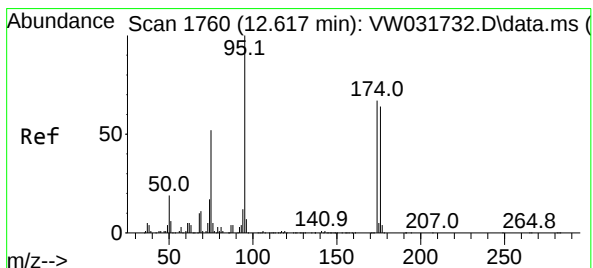
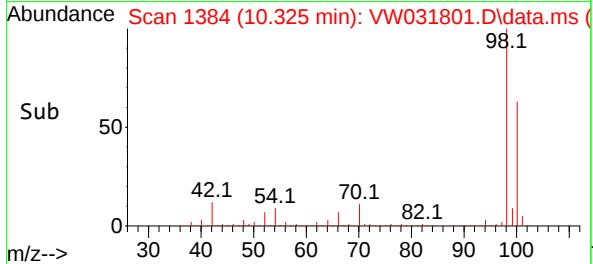
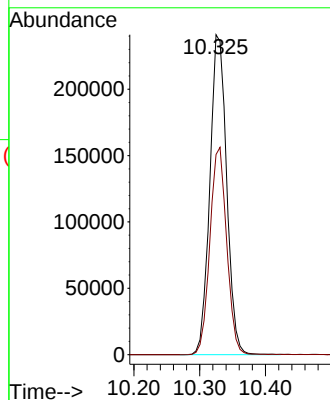
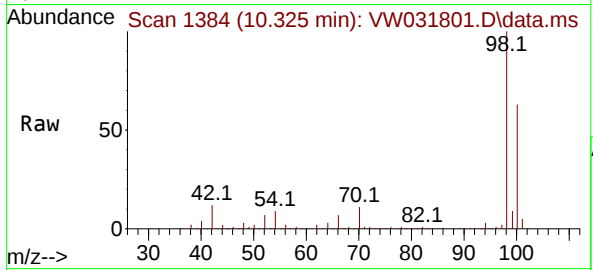




#50
Toluene-d8
Concen: 44.921 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

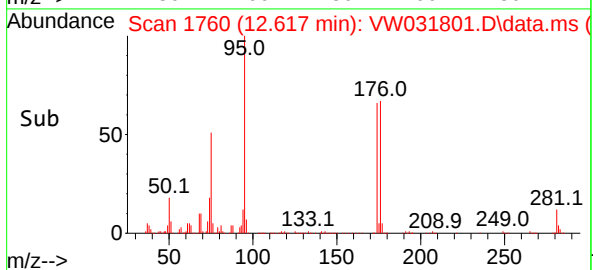
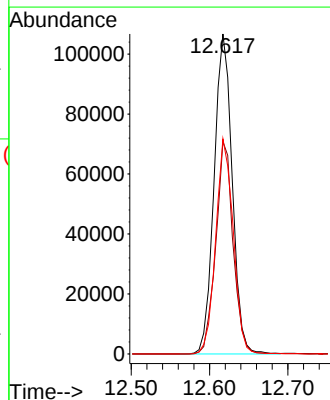
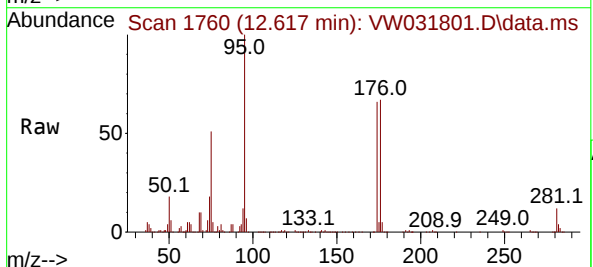
Instrument :
MSVOA_W
ClientSampleId :
TP-89

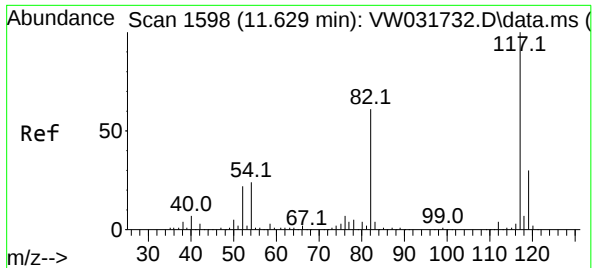
Tgt Ion: 98 Resp: 428866
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 48.749 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

Tgt Ion: 95 Resp: 171272
Ion Ratio Lower Upper
95 100
174 63.8 0.0 133.8
176 65.6 0.0 126.0

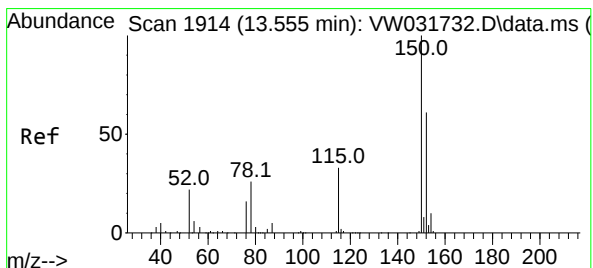
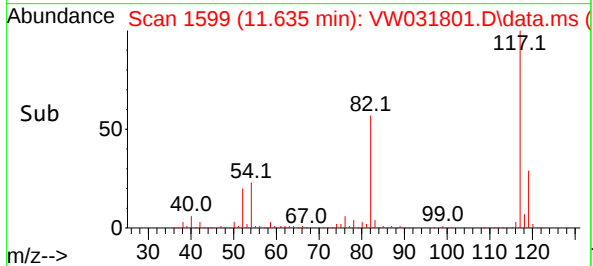
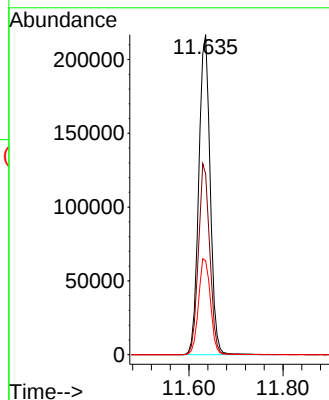
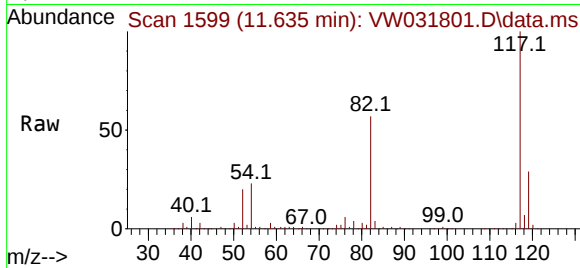




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1159
Delta R.T. 0.006 min
Lab File: VW031801.D
Acq: 10 Jul 2025 14:30

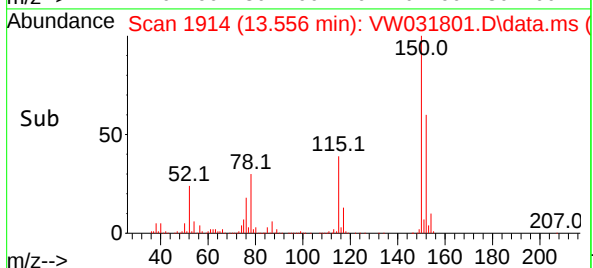
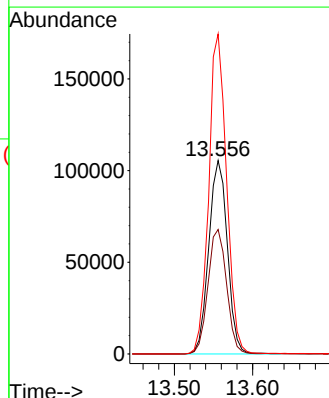
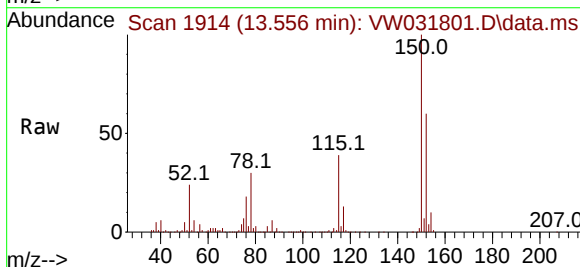
Instrument :
MSVOA_W
ClientSampleId :
TP-89

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.5	48.6	72.8
119	29.3	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: VW031801.D
Acq: 10 Jul 2025 14:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.4	31.9	95.7
150	158.2	0.0	356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031801.D
Acq On : 10 Jul 2025 14:30
Operator : SY/MD
Sample : Q2529-08
Misc : 3.89g/5mL/MSVOA_W/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-89

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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: VW031801.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	490	504	520	rBV3	28771	120545	10.38%	1.774%
2	5.972	658	670	683	rBV2	19671	59940	5.16%	0.882%
3	7.904	977	987	991	rBV2	153795	368804	31.76%	5.428%
4	7.965	991	997	1014	rVB	261330	593320	51.09%	8.732%
5	8.325	1045	1056	1068	rBV	165259	370844	31.93%	5.458%
6	8.855	1134	1143	1156	rBV	467181	934863	80.49%	13.758%
7	10.325	1377	1384	1393	rBV	631583	1142830	98.40%	16.819%
8	11.629	1589	1598	1607	rBV	666755	1161399	100.00%	17.092%
9	12.617	1748	1760	1770	rBV2	527593	923306	79.50%	13.588%
10	13.556	1907	1914	1926	rVB	692107	1119015	96.35%	16.469%

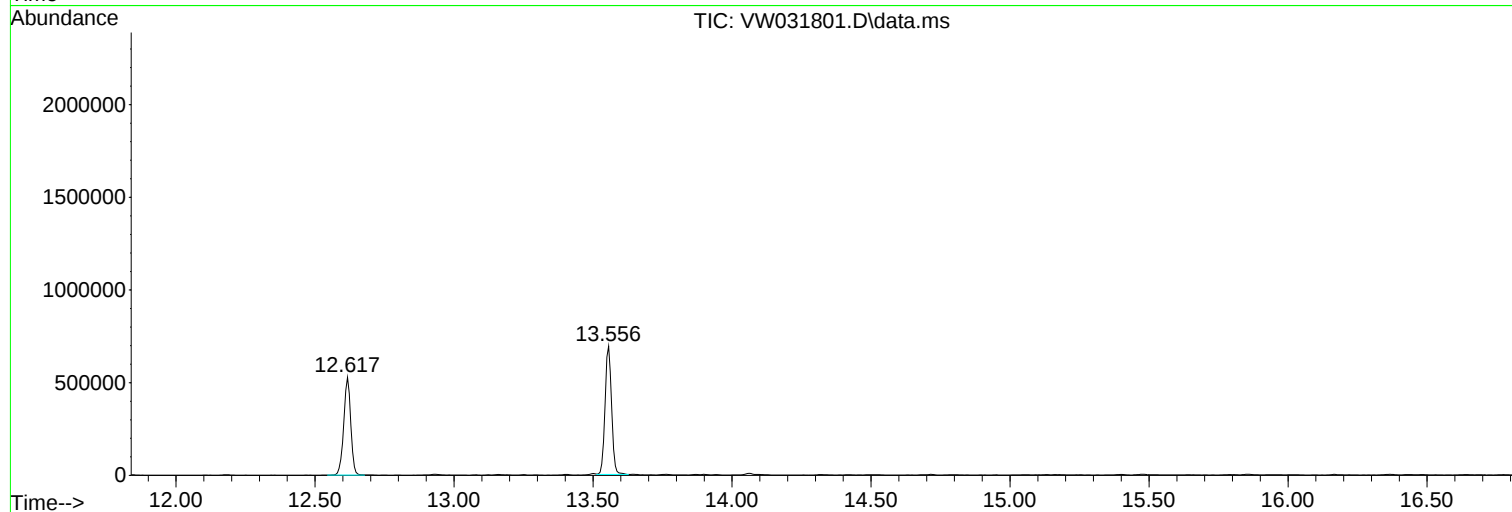
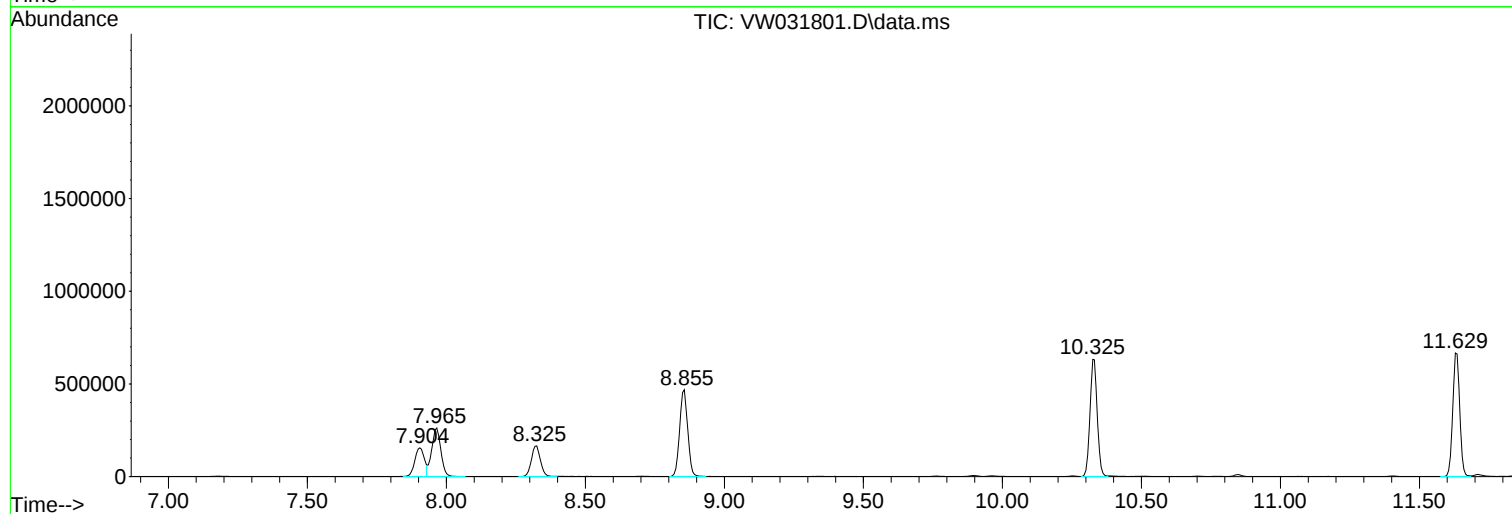
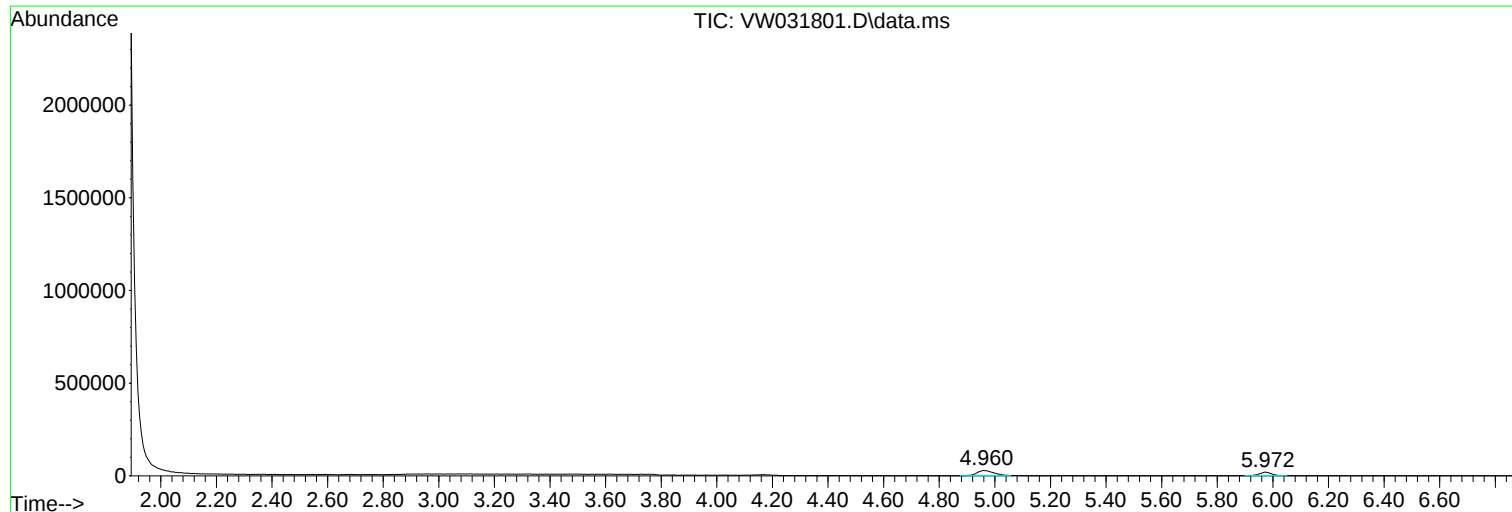
Sum of corrected areas: 6794866

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031801.D
Acq On : 10 Jul 2025 14:30
Operator : SY/MD
Sample : Q2529-08
Misc : 3.89g/5mL/MSVOA_W/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-89

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 : VW031801.D
Acq On : 10 Jul 2025 14:30
Operator : SY/MD
Sample : Q2529-08
Misc : 3.89g/5mL/MSVOA_W/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-89

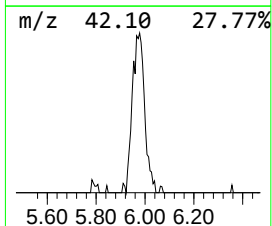
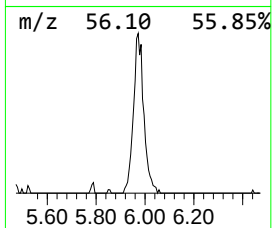
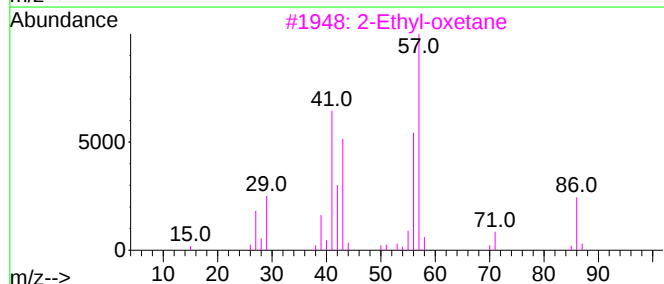
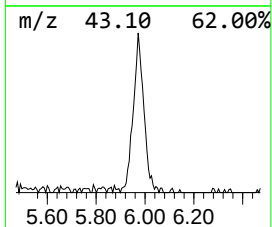
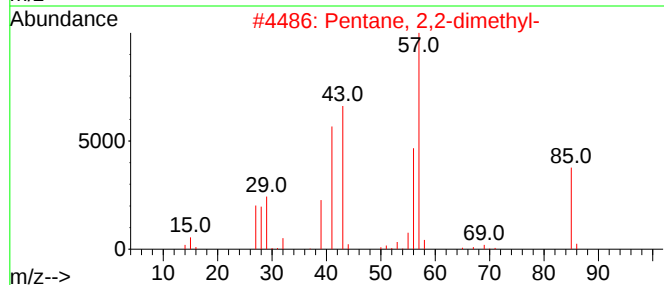
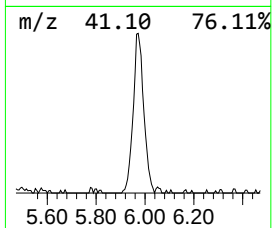
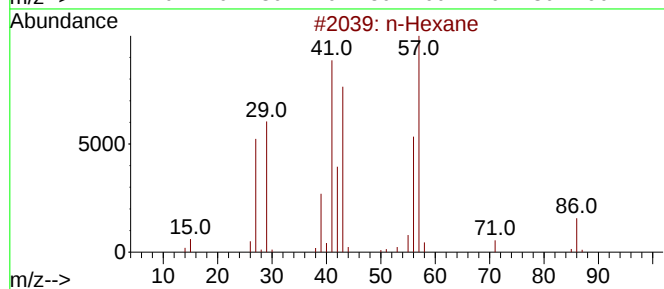
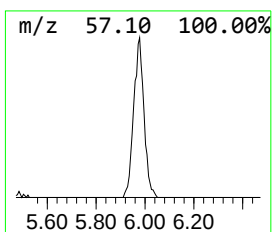
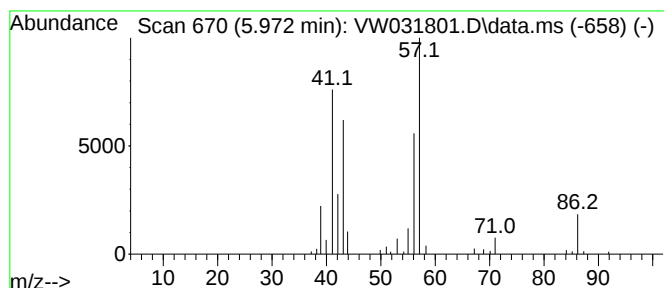
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

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	5.05 ug/l	59940	Pentafluorobenzene	7.965

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexane	86	C6H14	000110-54-3	72
2			Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	47
3			2-Ethyl-oxetane	86	C5H10O	1010386-40-2	43
4			Furan, tetrahydro-3-methyl-	86	C5H10O	013423-15-9	40
5			Butyl isocyanatoacetate	157	C7H11NO3	017046-22-9	36



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031801.D
Acq On : 10 Jul 2025 14:30
Operator : SY/MD
Sample : Q2529-08
Misc : 3.89g/5mL/MSVOA_W/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-89

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
n-Hexane	5.972	5.0	ug/l	59940	1	7.965	593320	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26 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
VW031802.D	1	07/10/25 14:52	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.70	U	0.70	4.40	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.40	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.94	U	0.94	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	7.40	J	4.20	22.1	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	4.10	J	3.10	8.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.76	U	0.76	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.71	U	0.71	4.40	ug/Kg
110-82-7	Cyclohexane	0.70	U	0.70	4.40	ug/Kg
78-93-3	2-Butanone	5.80	U	5.80	22.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.86	U	0.86	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.82	U	0.82	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.40	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.80	U	0.80	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.69	U	0.69	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.1	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031802.D	1	07/10/25 14:52	VW071025

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26 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
VW031802.D	1	07/10/25 14:52	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	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 : VW031802.D
 Acq On : 10 Jul 2025 14:52
 Operator : SY/MD
 Sample : Q2529-09
 Misc : 6.26g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-33

Manual Integrations
APPROVED

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

Quant Time: Jul 11 02:21:32 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	7.971	168	174896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	394315	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	366550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	166714	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	142786	56.888	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 113.780%			
35) Dibromofluoromethane	7.904	113	115961	45.067	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 90.140%			
50) Toluene-d8	10.331	98	442456	46.207	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 92.420%			
62) 4-Bromofluorobenzene	12.617	95	173082	49.118	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 98.240%			
Target Compounds						
16) Acetone	4.167	43	5182m	8.353	ug/l	
20) Methylene Chloride	4.954	84	21389	4.590	ug/l	95

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

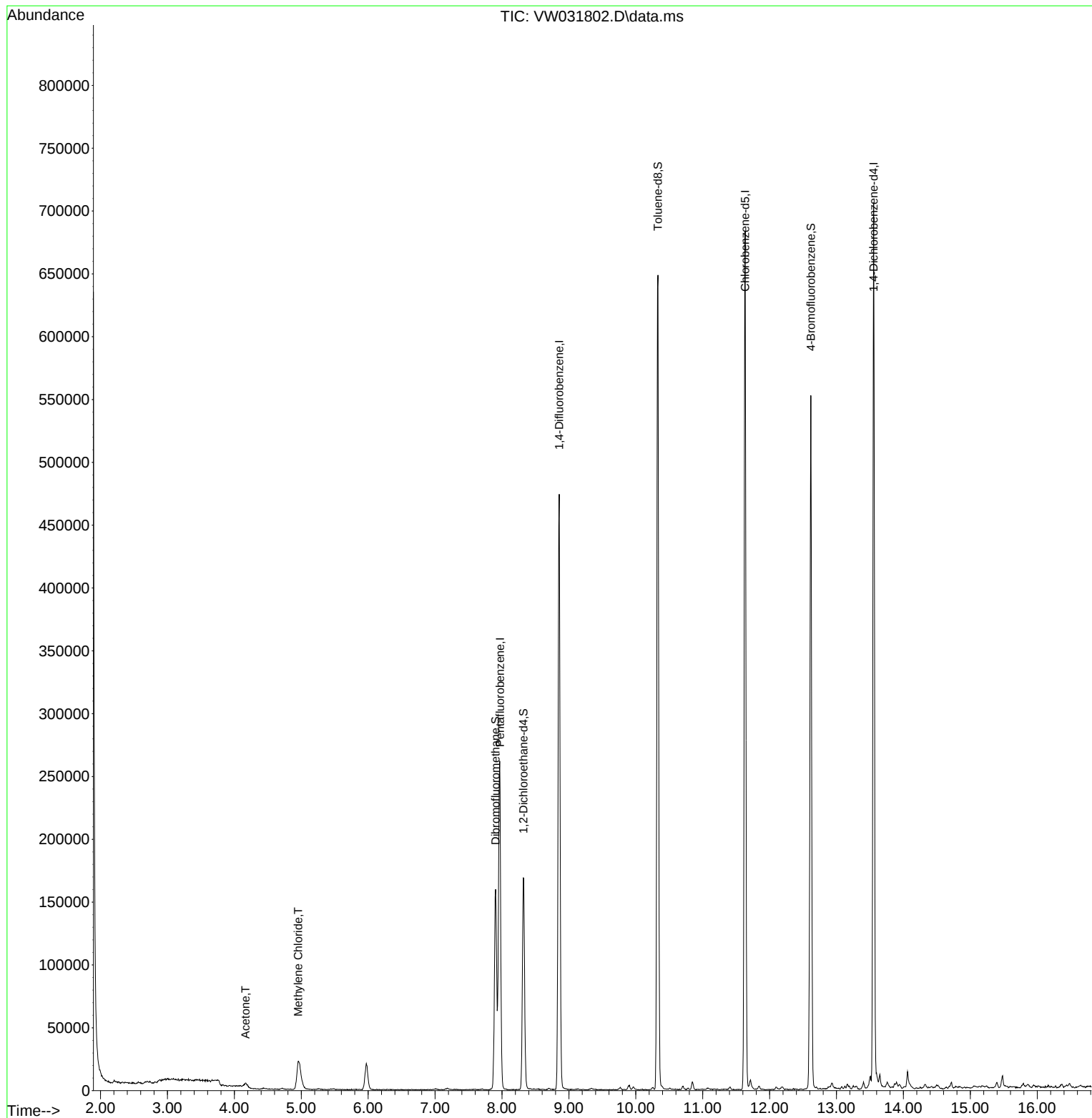
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Acq On : 10 Jul 2025 14:52
Operator : SY/MD
Sample : Q2529-09
Misc : 6.26g/5mL/MSVOA_W/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

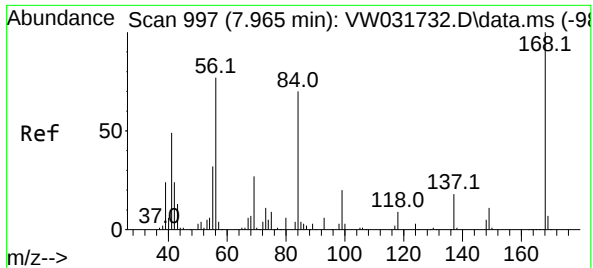
Instrument :
MSVOA_W
ClientSampleId :
TP-33

Manual Integrations
APPROVED

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

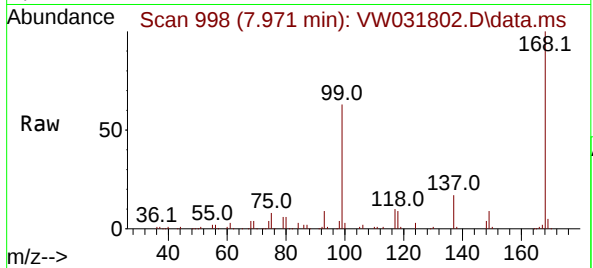
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Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.971 min Scan# 997
Delta R.T. 0.006 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

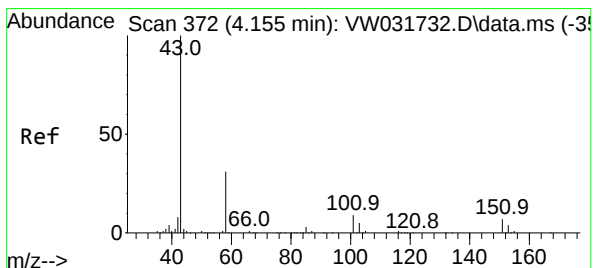
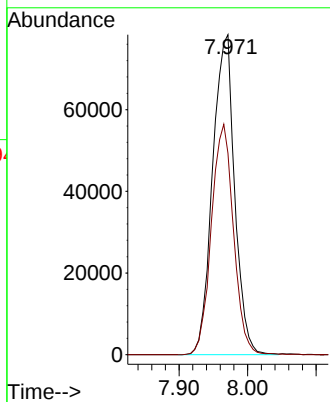
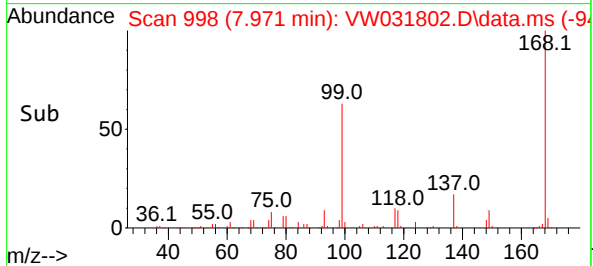
Instrument :
MSVOA_W
ClientSampleId :
TP-33



Tgt Ion:168 Resp: 174890
Ion Ratio Lower Upper
168 100
99 62.9 49.4 74.2

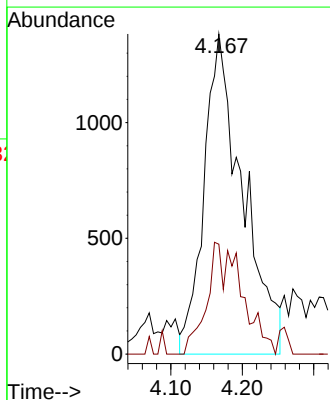
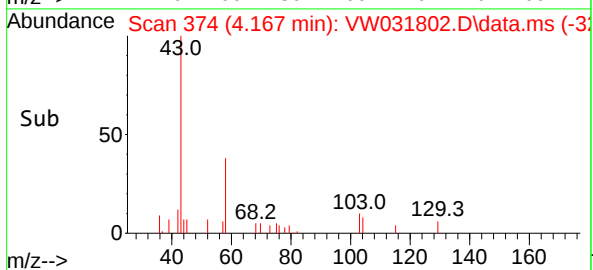
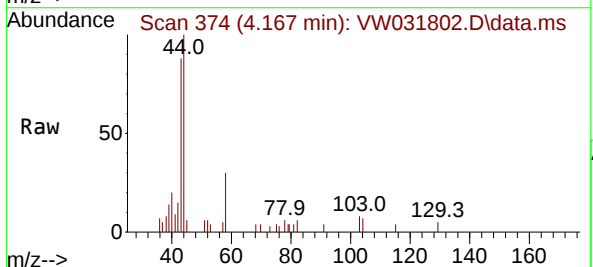
Manual Integrations
APPROVED

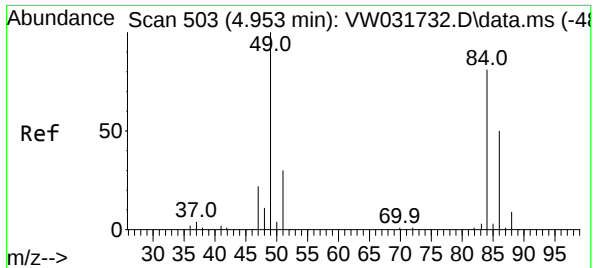
Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025



#16
Acetone
Concen: 8.353 ug/l m
RT: 4.167 min Scan# 374
Delta R.T. 0.012 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

Tgt Ion: 43 Resp: 5182
Ion Ratio Lower Upper
43 100
58 34.3 24.8 37.2





#20

Methylene Chloride

Concen: 4.590 ug/l

RT: 4.954 min Scan# 503

Delta R.T. 0.000 min

Lab File: VW031802.D

Acq: 10 Jul 2025 14:52

Instrument :

MSVOA_W

ClientSampleId :

TP-33

Tgt Ion: 84 Resp: 21389

Ion Ratio Lower Upper

84 100

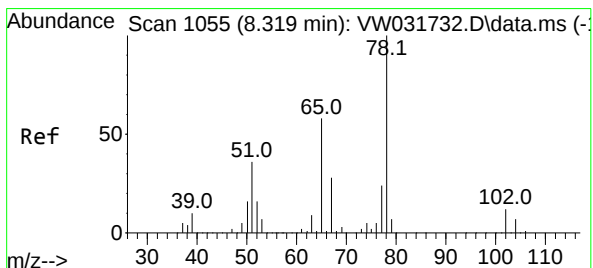
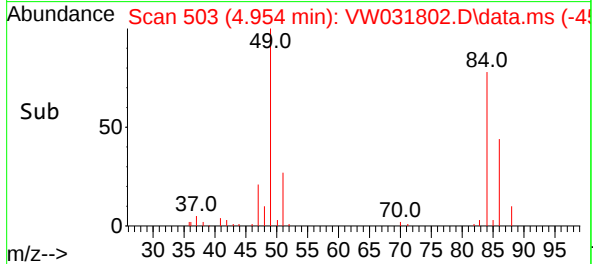
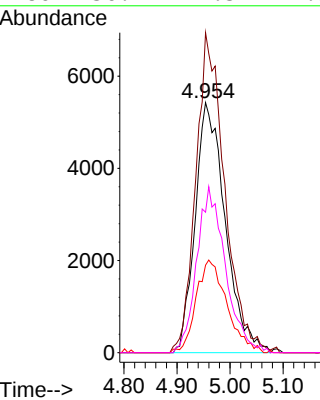
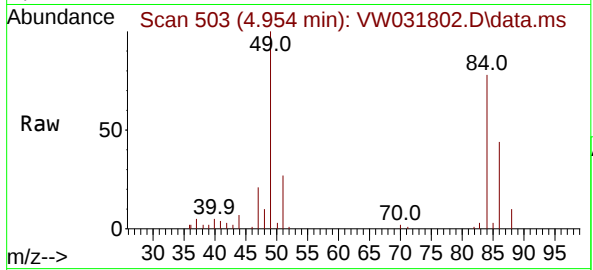
49 128.0 98.2 147.4

51 35.0 29.8 44.8

86 56.2 49.5 74.3

Manual Integrations

APPROVED

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

#33

1,2-Dichloroethane-d4

Concen: 56.888 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW031802.D

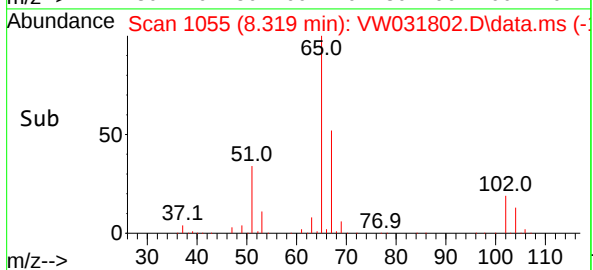
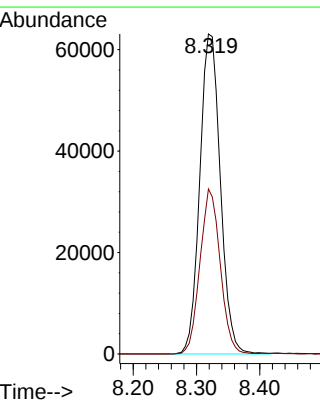
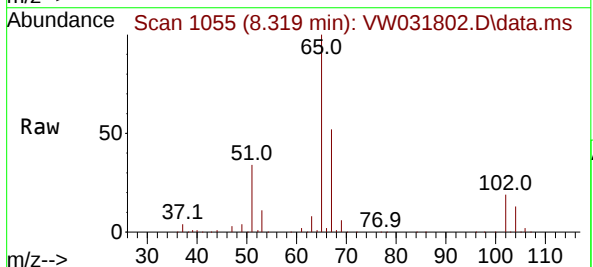
Acq: 10 Jul 2025 14:52

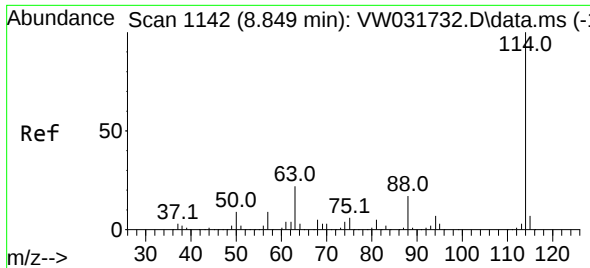
Tgt Ion: 65 Resp: 142786

Ion Ratio Lower Upper

65 100

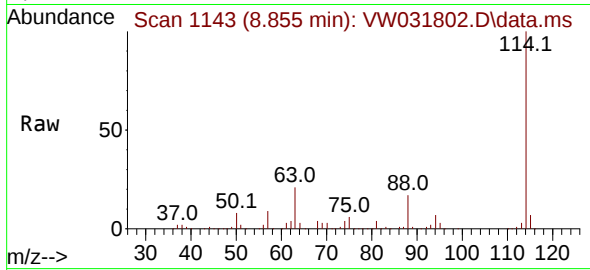
67 50.6 0.0 99.4





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

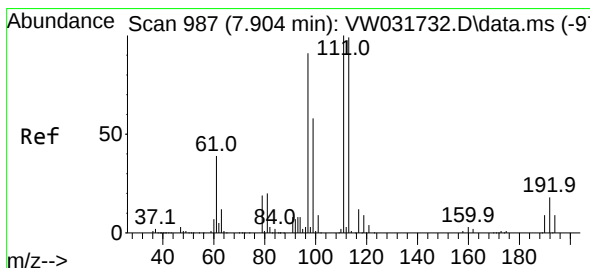
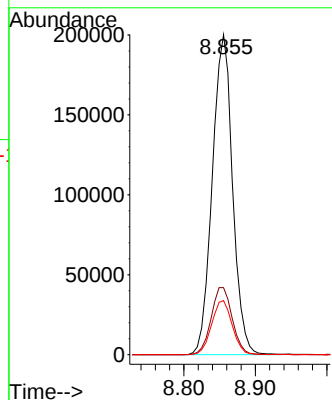
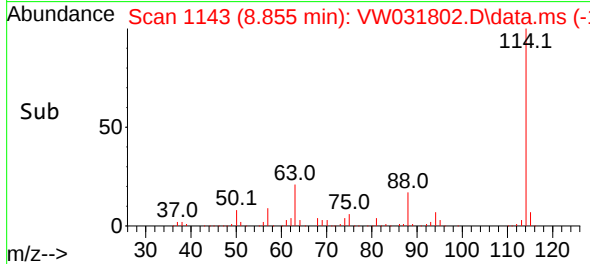
Instrument :
MSVOA_W
ClientSampleId :
TP-33



Tgt Ion:114 Resp: 394315
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.6
88 16.9 0.0 34.2

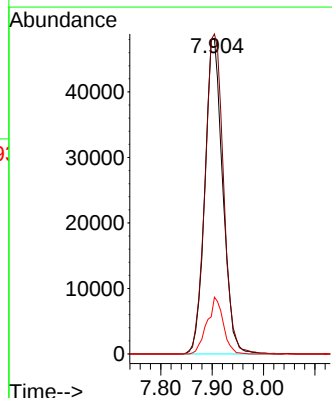
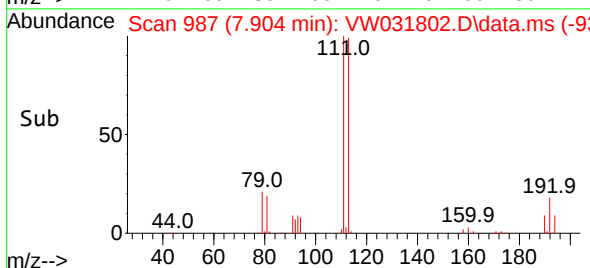
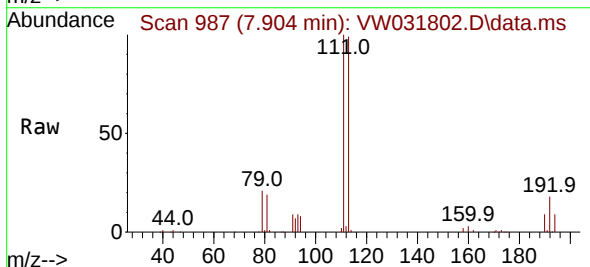
Manual Integrations
APPROVED

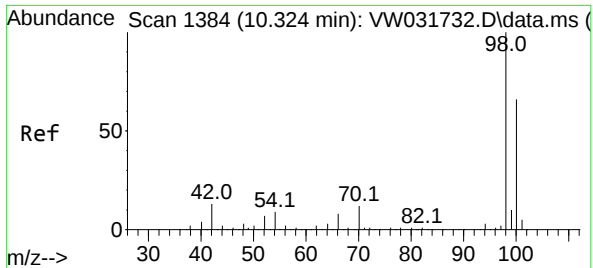
Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025



#35
Dibromofluoromethane
Concen: 45.067 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

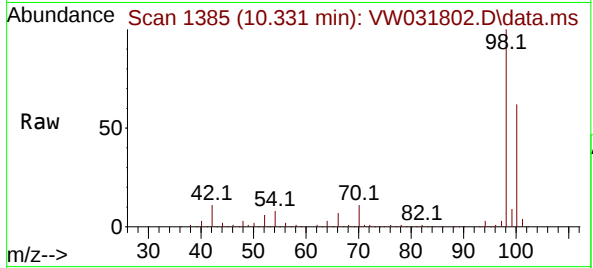
Tgt Ion:113 Resp: 115961
Ion Ratio Lower Upper
113 100
111 104.6 82.1 123.1
192 16.4 13.8 20.6





#50
Toluene-d8
Concen: 46.207 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

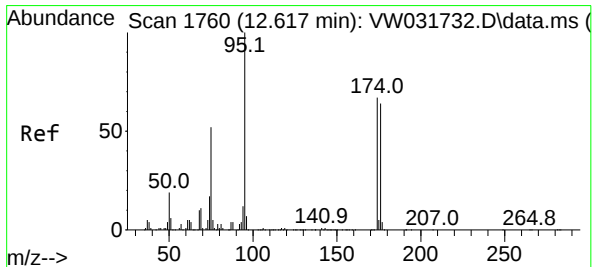
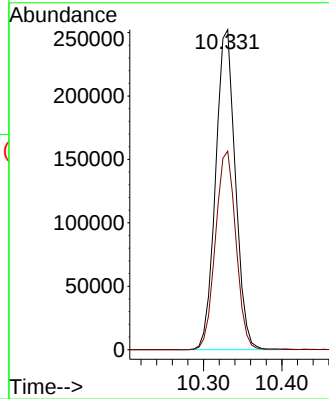
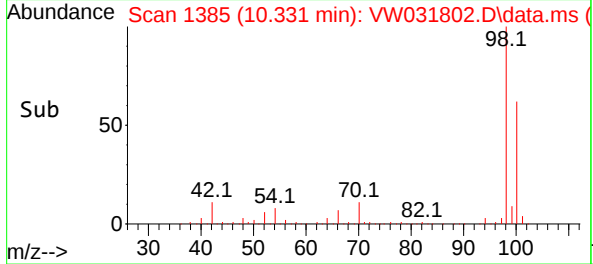
Instrument :
MSVOA_W
ClientSampleId :
TP-33



Tgt Ion: 98 Resp: 442450
Ion Ratio Lower Upper
98 100
100 64.3 53.0 79.4

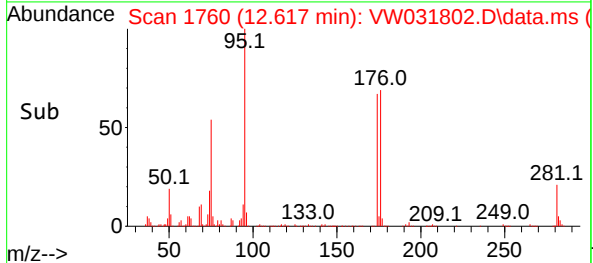
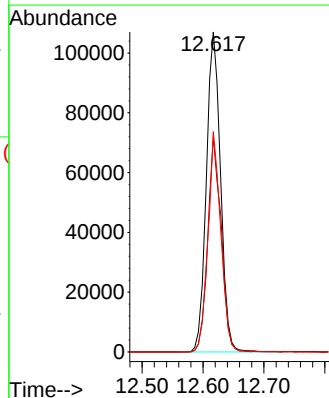
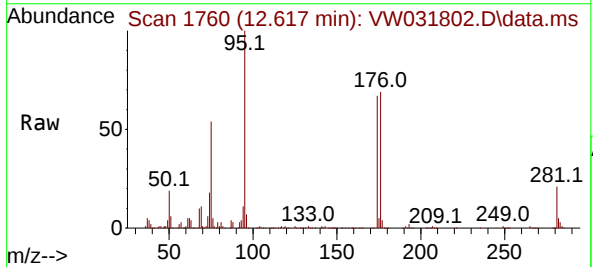
Manual Integrations
APPROVED

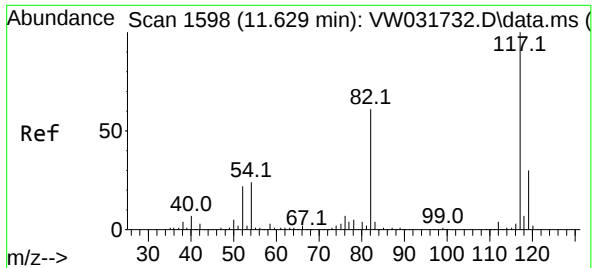
Reviewed By :Mahesh Dadoda 07/14/2025
Supervised By :Semsettin Yesilyurt 07/14/2025



#62
4-Bromofluorobenzene
Concen: 49.118 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031802.D
Acq: 10 Jul 2025 14:52

Tgt Ion: 95 Resp: 173082
Ion Ratio Lower Upper
95 100
174 63.7 0.0 133.8
176 62.8 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: VW031802.D

Acq: 10 Jul 2025 14:52

Instrument :

MSVOA_W

ClientSampleId :

TP-33

Tgt Ion:117 Resp: 366550

Ion Ratio Lower Upper

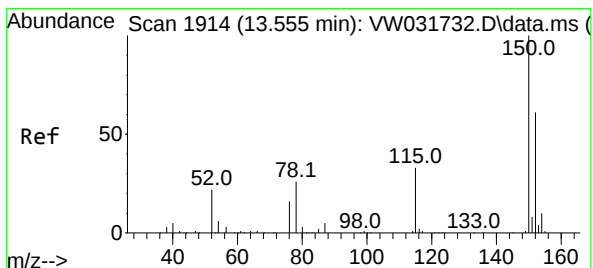
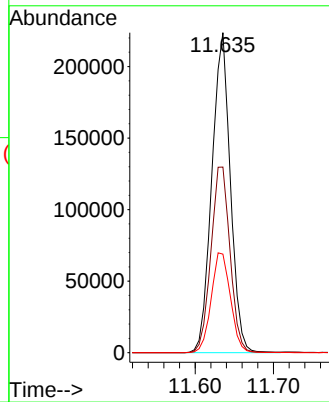
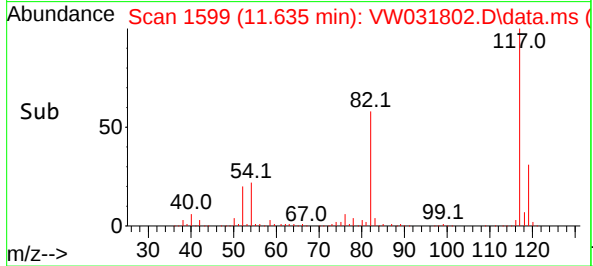
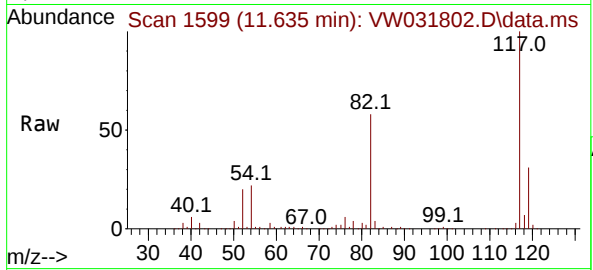
117 100

82 58.0 48.6 72.8

119 30.8 23.9 35.9

Manual Integrations

APPROVED

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

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW031802.D

Acq: 10 Jul 2025 14:52

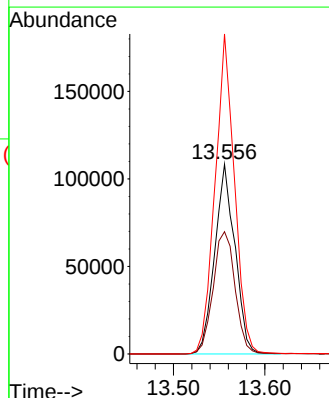
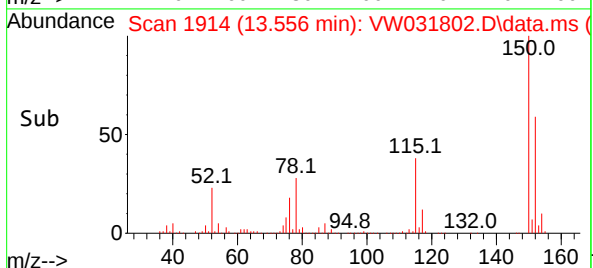
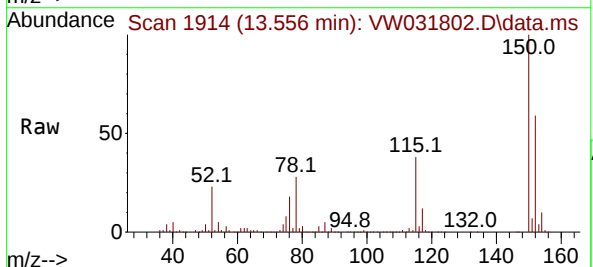
Tgt Ion:152 Resp: 166714

Ion Ratio Lower Upper

152 100

115 70.0 31.9 95.7

150 162.2 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
 Data File : VW031802.D
 Acq On : 10 Jul 2025 14:52
 Operator : SY/MD
 Sample : Q2529-09
 Misc : 6.26g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-33

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: VW031802.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	523	rBV3	22498	98053	8.33%	1.390%
2	5.972	660	670	683	rBV3	20838	63901	5.43%	0.906%
3	7.904	975	987	991	rBV2	159141	374128	31.77%	5.305%
4	7.965	991	997	1010	rVB2	261023	596903	50.69%	8.464%
5	8.319	1044	1055	1067	rBV	168544	382776	32.51%	5.428%
6	8.855	1134	1143	1153	rBV	473656	947738	80.49%	13.438%
7	10.331	1377	1385	1401	rBV	647963	1177508	100.00%	16.696%
8	10.849	1464	1470	1478	rVB2	6254	12294	1.04%	0.174%
9	11.635	1588	1599	1607	rBV	683069	1176242	99.89%	16.678%
10	11.715	1607	1612	1623	rVB2	7507	16752	1.42%	0.238%
11	12.617	1748	1760	1771	rBV2	551771	968458	82.25%	13.732%
12	13.507	1896	1906	1908	rVV4	9797	20629	1.75%	0.293%
13	13.556	1908	1914	1925	rVV	704843	1145444	97.28%	16.242%
14	13.647	1925	1929	1938	rVV4	10900	21565	1.83%	0.306%
15	14.062	1992	1997	2014	rVB	13656	32492	2.76%	0.461%
16	15.482	2223	2230	2235	rBV2	9272	17636	1.50%	0.250%

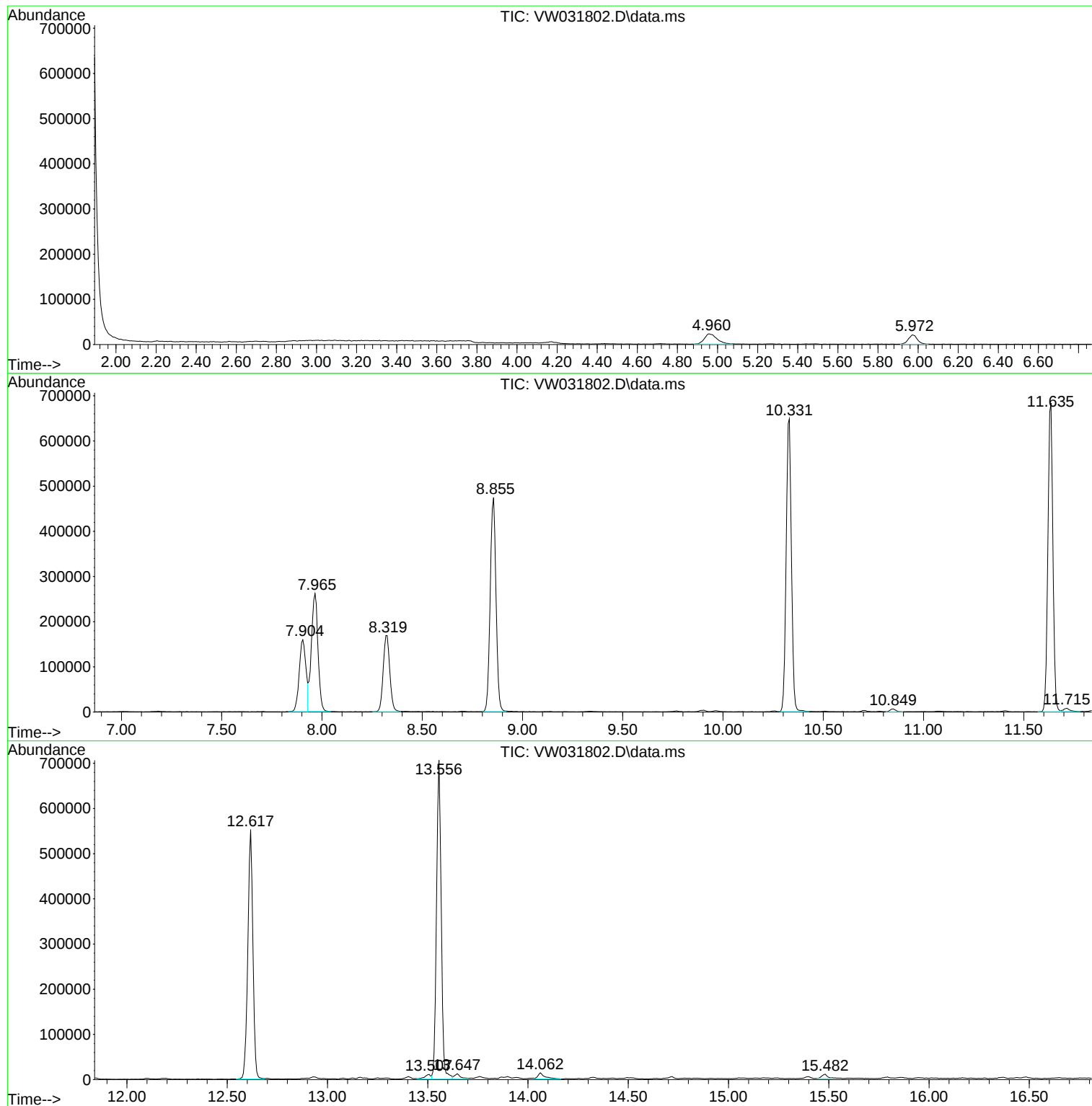
Sum of corrected areas: 7052519

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031802.D
Acq On : 10 Jul 2025 14:52
Operator : SY/MD
Sample : Q2529-09
Misc : 6.26g/5mL/MSVOA_W/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-33

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 : VW031802.D
Acq On : 10 Jul 2025 14:52
Operator : SY/MD
Sample : Q2529-09
Misc : 6.26g/5mL/MSVOA_W/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-33

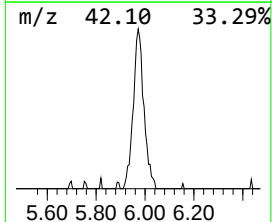
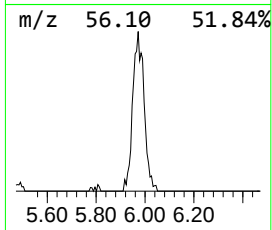
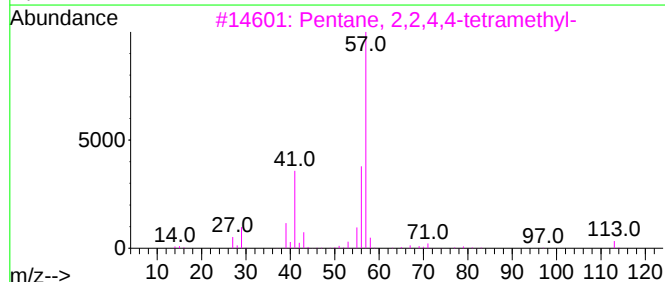
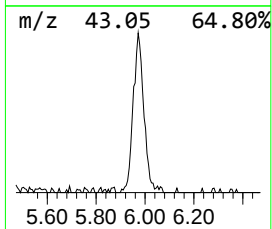
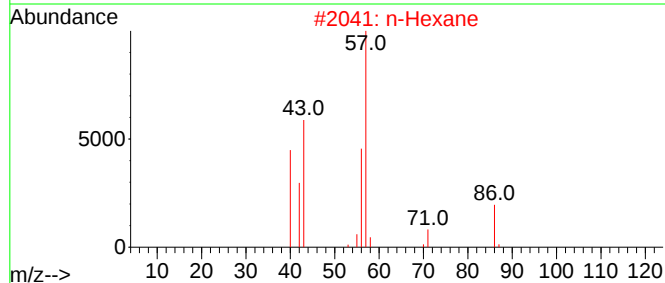
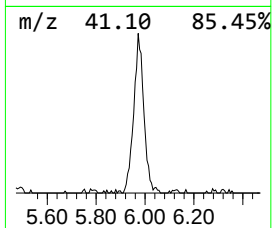
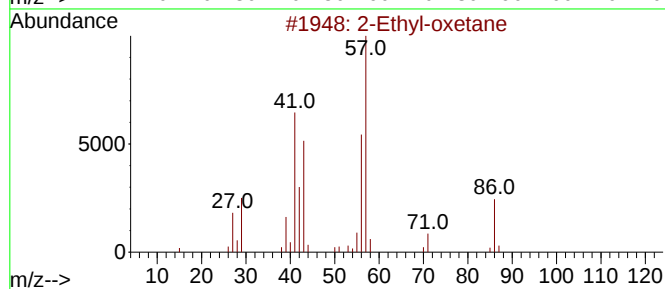
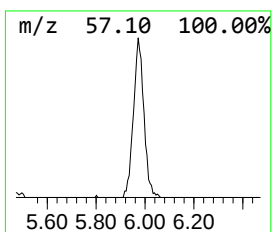
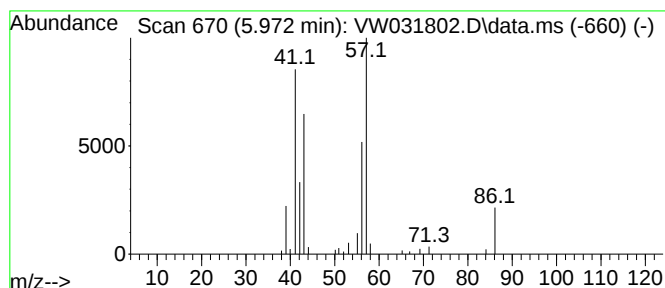
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260

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.
5.972	5.35 ug/l	63901	Pentafluorobenzene	7.971

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Ethyl-oxetane	86	C5H10O	1010386-40-2	80
2			n-Hexane	86	C6H14	000110-54-3	72
3			Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	40
4			Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	38
5			1-Pentene, 4-methyl-	84	C6H12	000691-37-2	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031802.D
Acq On : 10 Jul 2025 14:52
Operator : SY/MD
Sample : Q2529-09
Misc : 6.26g/5mL/MSVOA_W/SOIL/B
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-33

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Ethyl-oxetane	5.972	5.3	ug/l	63901	1	7.971	596903	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2 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
VW031803.D	1	07/10/25 15:14	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.3	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.77	U	0.77	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.30	ug/Kg
78-93-3	2-Butanone	6.90	U	6.90	26.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.79	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.96	U	0.96	5.30	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.30	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.96	U	0.96	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.82	U	0.82	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.3	ug/Kg
108-88-3	Toluene	0.82	U	0.82	5.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2 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
VW031803.D	1	07/10/25 15:14	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.97	U	0.97	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.3	ug/Kg
124-48-1	Dibromochloromethane	0.92	U	0.92	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.93	U	0.93	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.96	U	0.96	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.5	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.82	U	0.82	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.9		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	47.5		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	7.965			
540-36-3	1,4-Difluorobenzene	377000	8.855			
3114-55-4	Chlorobenzene-d5	354000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2 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
VW031803.D	1	07/10/25 15:14	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 : VW031803.D
 Acq On : 10 Jul 2025 15:14
 Operator : SY/MD
 Sample : Q2529-10
 Misc : 5.20g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-30

Quant Time: Jul 11 02:21:58 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	174243	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	376543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	353548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	161581	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	137336	54.922	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	109.840%
35) Dibromofluoromethane	7.904	113	117387	47.774	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.540%
50) Toluene-d8	10.331	98	434603	47.529	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	95.060%
62) 4-Bromofluorobenzene	12.617	95	167699	49.837	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.680%

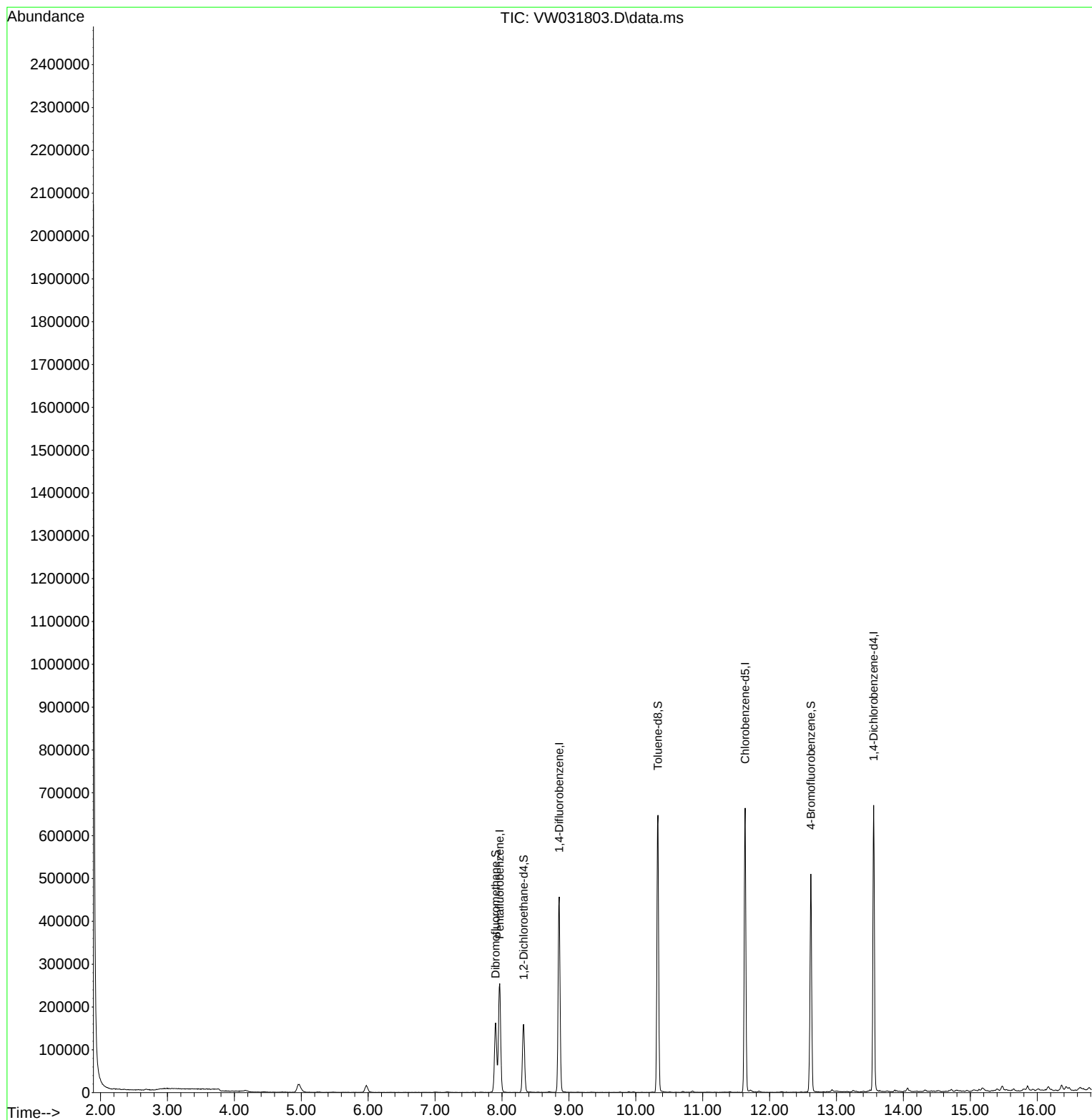
Target Compounds	Qvalue

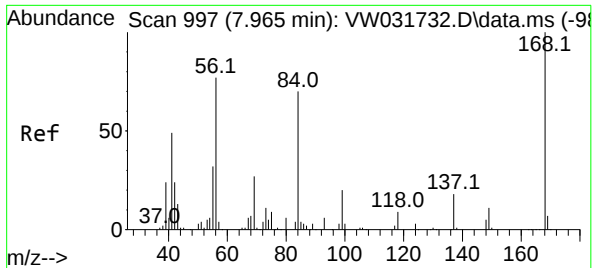
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031803.D
Acq On : 10 Jul 2025 15:14
Operator : SY/MD
Sample : Q2529-10
Misc : 5.20g/5mL/MSVOA_W/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-30

Quant Time: Jul 11 02:21:58 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

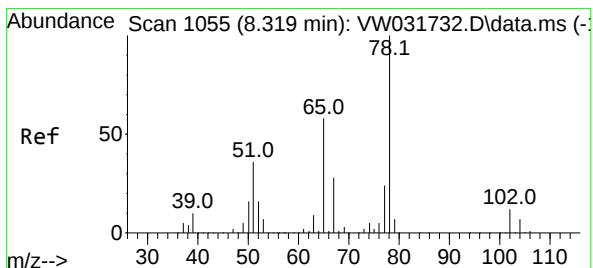
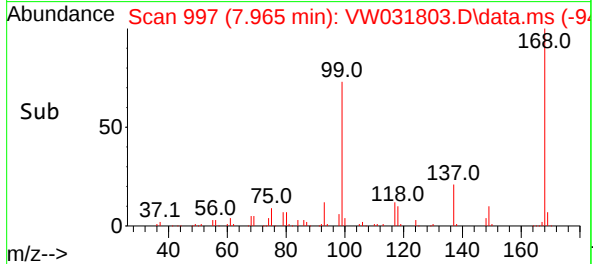
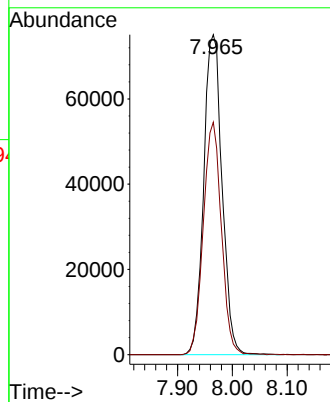
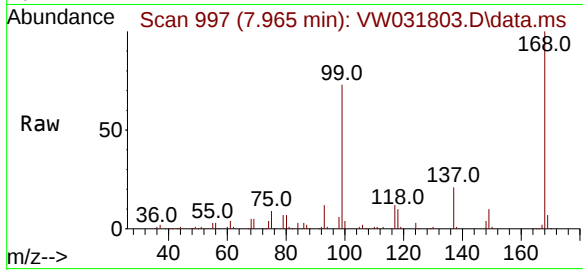




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

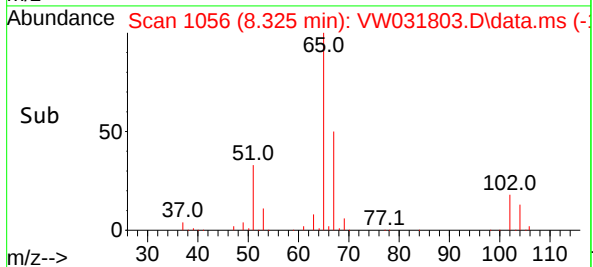
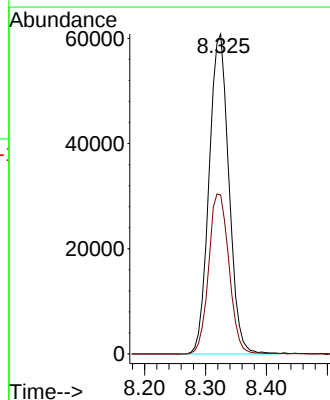
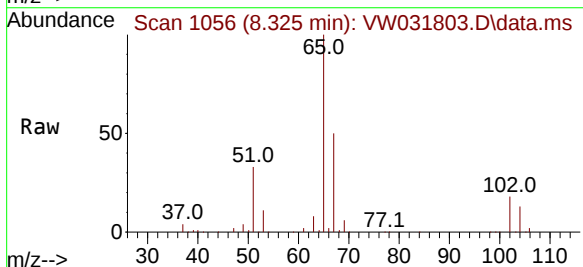
Instrument :
MSVOA_W
ClientSampleId :
TP-30

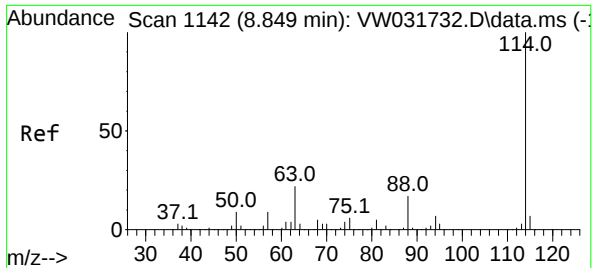
Tgt Ion:168 Resp: 174243
Ion Ratio Lower Upper
168 100
99 72.7 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 54.922 ug/l
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

Tgt Ion: 65 Resp: 137336
Ion Ratio Lower Upper
65 100
67 51.3 0.0 99.4

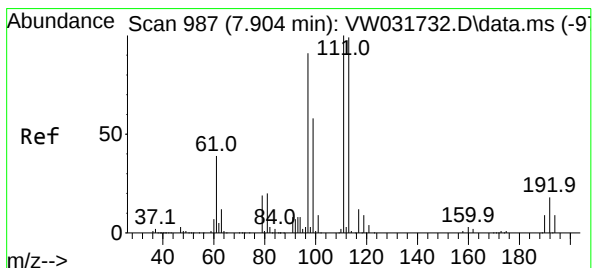
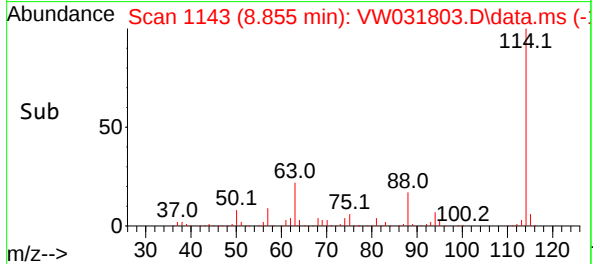
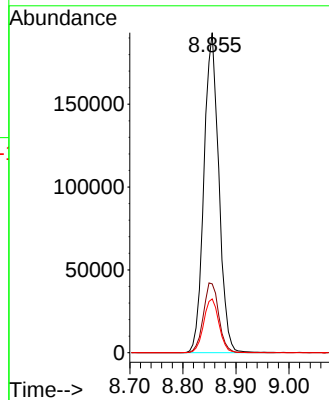
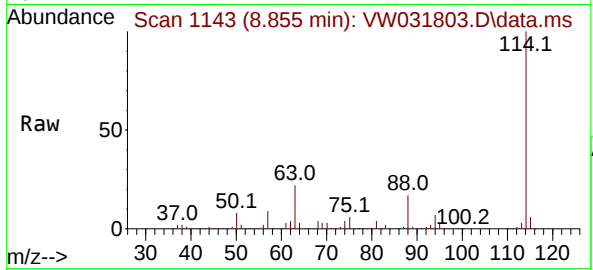




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

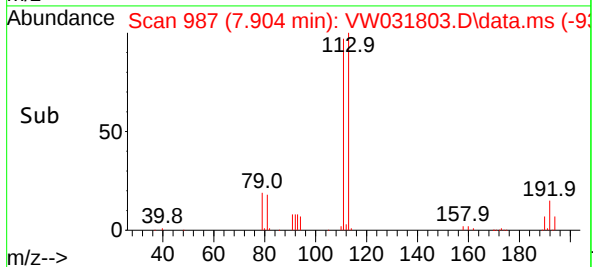
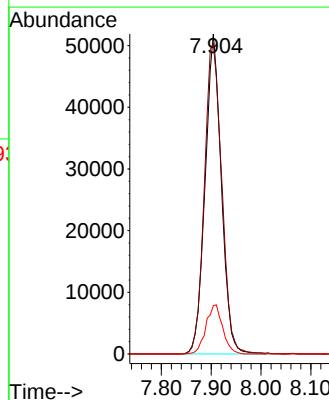
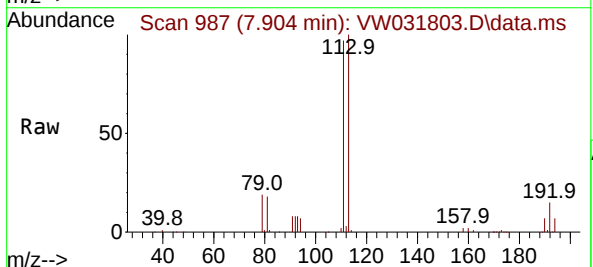
Instrument :
MSVOA_W
ClientSampleId :
TP-30

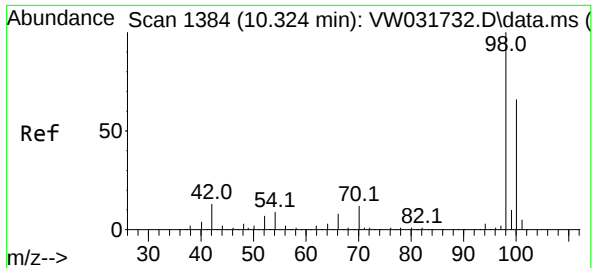
Tgt Ion:114 Resp: 376543
Ion Ratio Lower Upper
114 100
63 21.5 0.0 43.6
88 16.8 0.0 34.2



#35
Dibromofluoromethane
Concen: 47.774 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

Tgt Ion:113 Resp: 117387
Ion Ratio Lower Upper
113 100
111 103.5 82.1 123.1
192 15.8 13.8 20.6

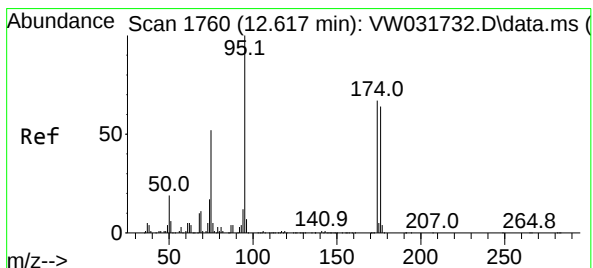
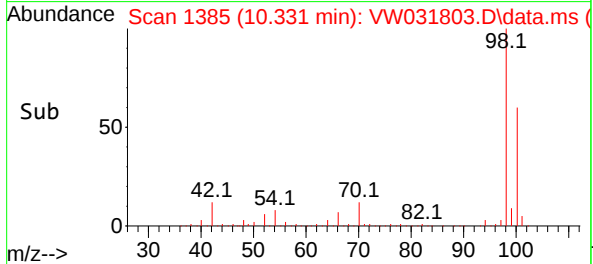
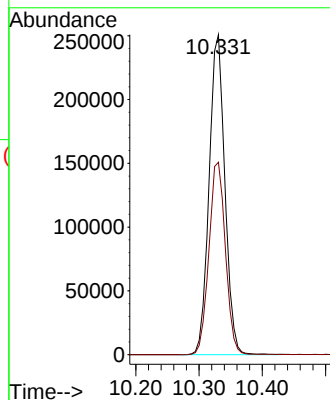
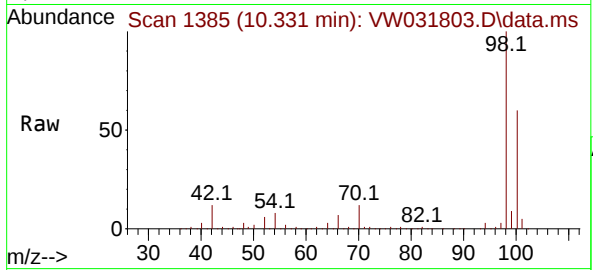




#50
Toluene-d8
Concen: 47.529 ug/l
RT: 10.331 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

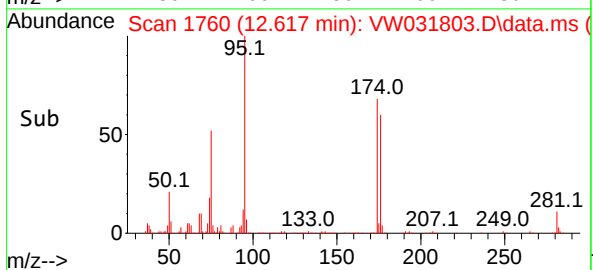
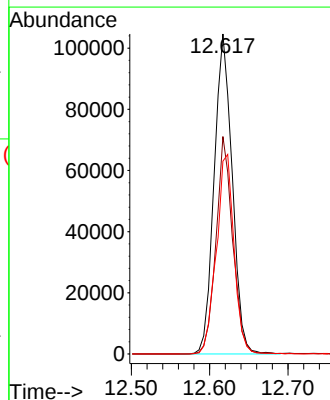
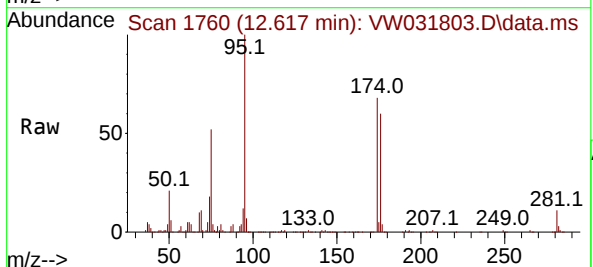
Instrument :
MSVOA_W
ClientSampleId :
TP-30

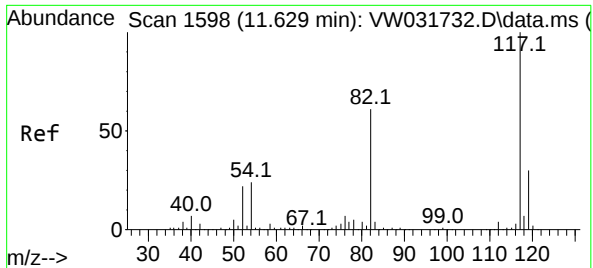
Tgt Ion: 98 Resp: 434603
Ion Ratio Lower Upper
98 100
100 63.0 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 49.837 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031803.D
Acq: 10 Jul 2025 15:14

Tgt Ion: 95 Resp: 167699
Ion Ratio Lower Upper
95 100
174 63.0 0.0 133.8
176 61.4 0.0 126.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW031803.D

Acq: 10 Jul 2025 15:14

Instrument :

MSVOA_W

ClientSampleId :

TP-30

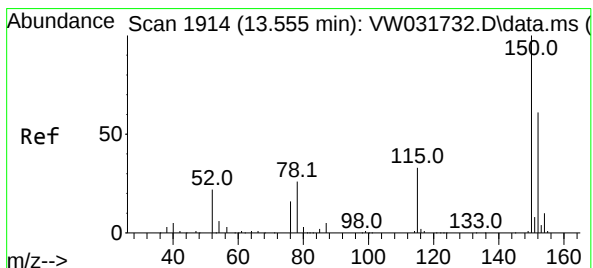
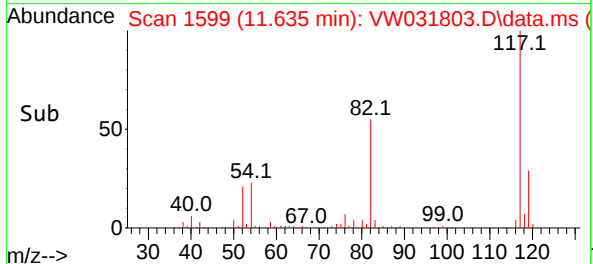
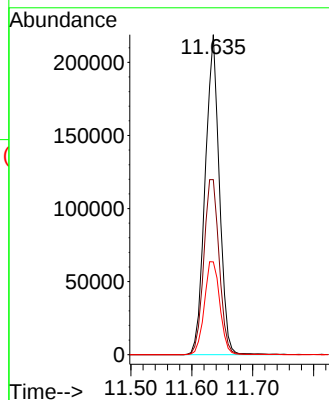
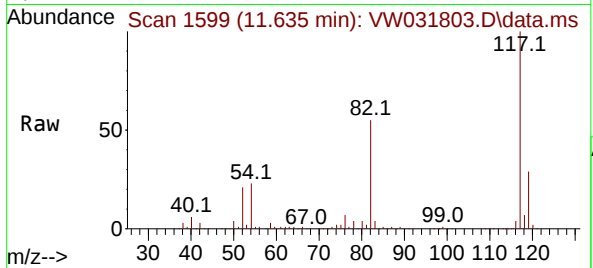
Tgt Ion:117 Resp: 353548

Ion Ratio Lower Upper

117 100

82 54.7 48.6 72.8

119 29.0 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: VW031803.D

Acq: 10 Jul 2025 15:14

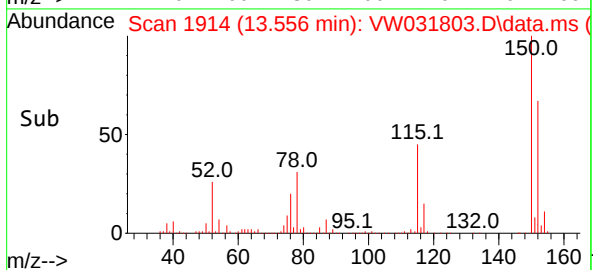
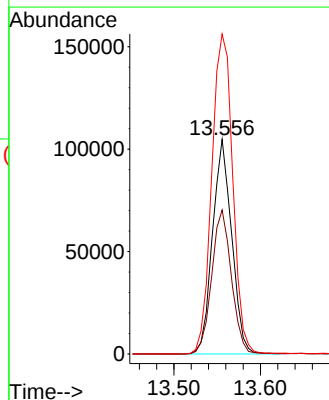
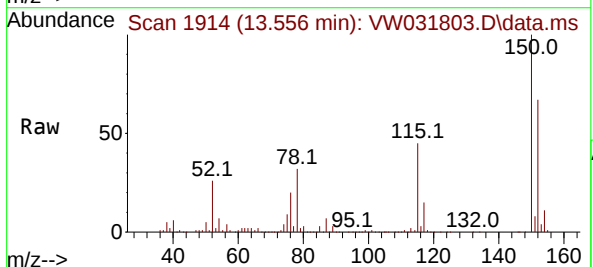
Tgt Ion:152 Resp: 161581

Ion Ratio Lower Upper

152 100

115 68.8 31.9 95.7

150 162.8 0.0 356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
 Data File : VW031803.D
 Acq On : 10 Jul 2025 15:14
 Operator : SY/MD
 Sample : Q2529-10
 Misc : 5.20g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-30

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: VW031803.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	493	503	504	rBV	18555	34521	2.99%	0.518%
2	5.972	655	670	681	rBV2	16083	48327	4.18%	0.725%
3	7.904	972	987	992	rBV2	162517	399014	34.52%	5.989%
4	7.965	992	997	1010	rVB	253546	566486	49.01%	8.503%
5	8.325	1043	1056	1070	rBV	158636	367895	31.83%	5.522%
6	8.855	1132	1143	1155	rBV	456361	916235	79.27%	13.753%
7	10.331	1377	1385	1401	rBV	647289	1155859	100.00%	17.350%
8	11.635	1590	1599	1608	rBV	663643	1134681	98.17%	17.032%
9	12.617	1750	1760	1772	rBV3	509271	878287	75.99%	13.184%
10	13.556	1907	1914	1927	rVB	667793	1082487	93.65%	16.249%
11	15.476	2223	2229	2234	rBV2	9956	21914	1.90%	0.329%
12	16.366	2365	2375	2381	rBV4	13325	35091	3.04%	0.527%
13	16.640	2410	2420	2425	rBV8	7175	21211	1.84%	0.318%

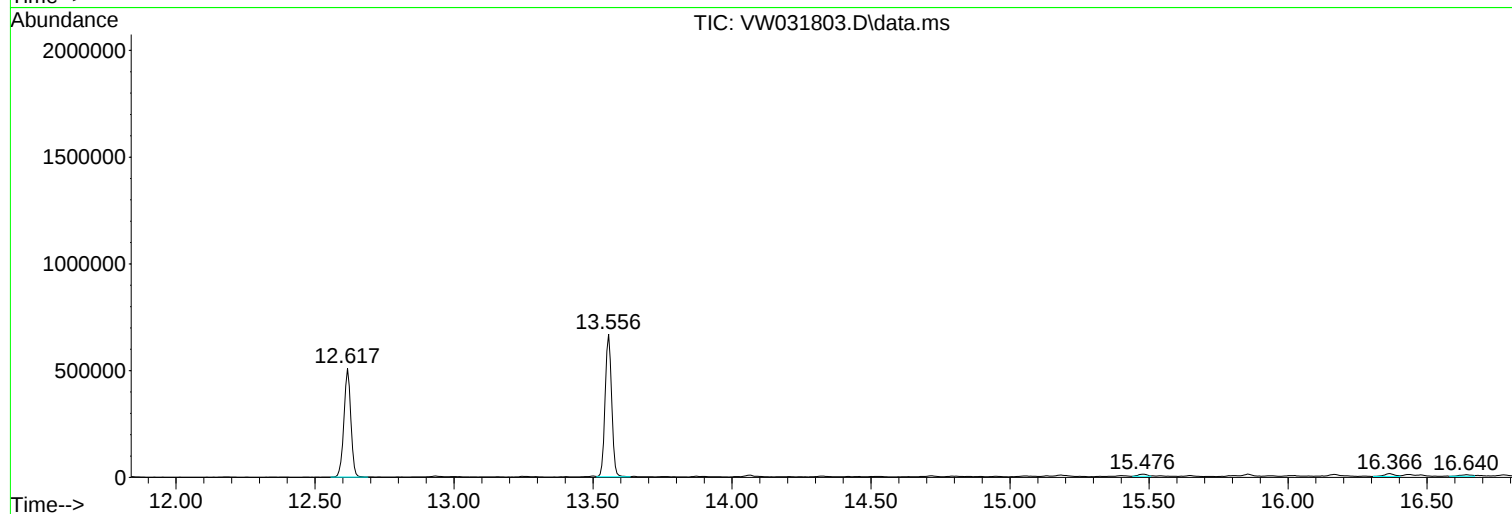
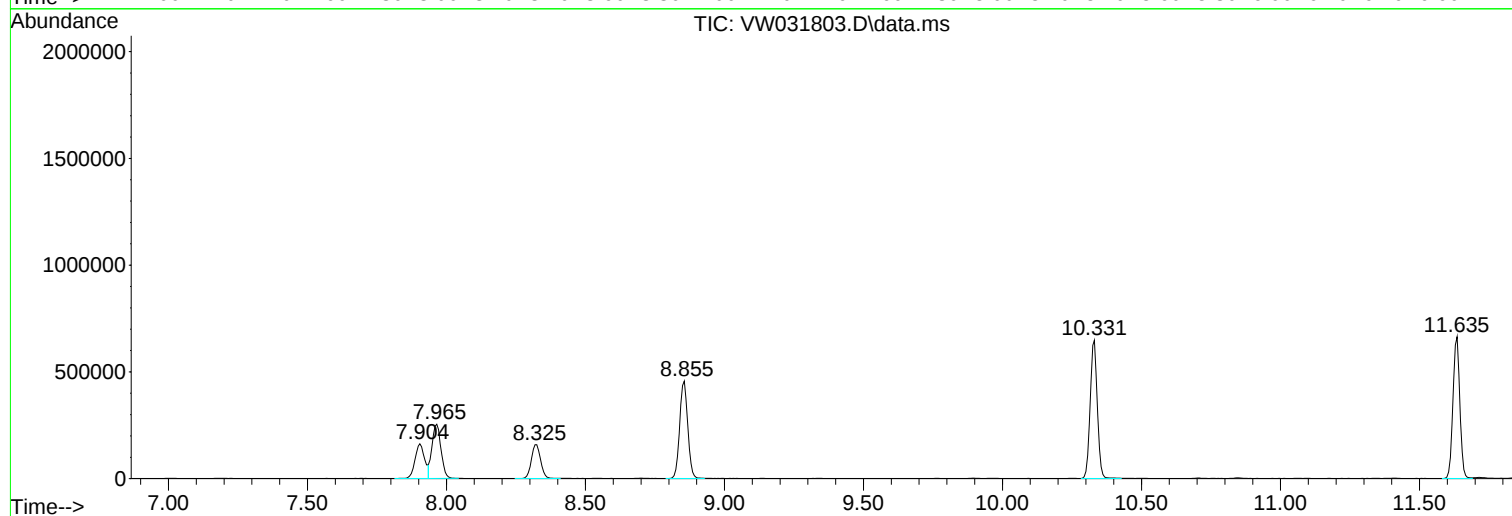
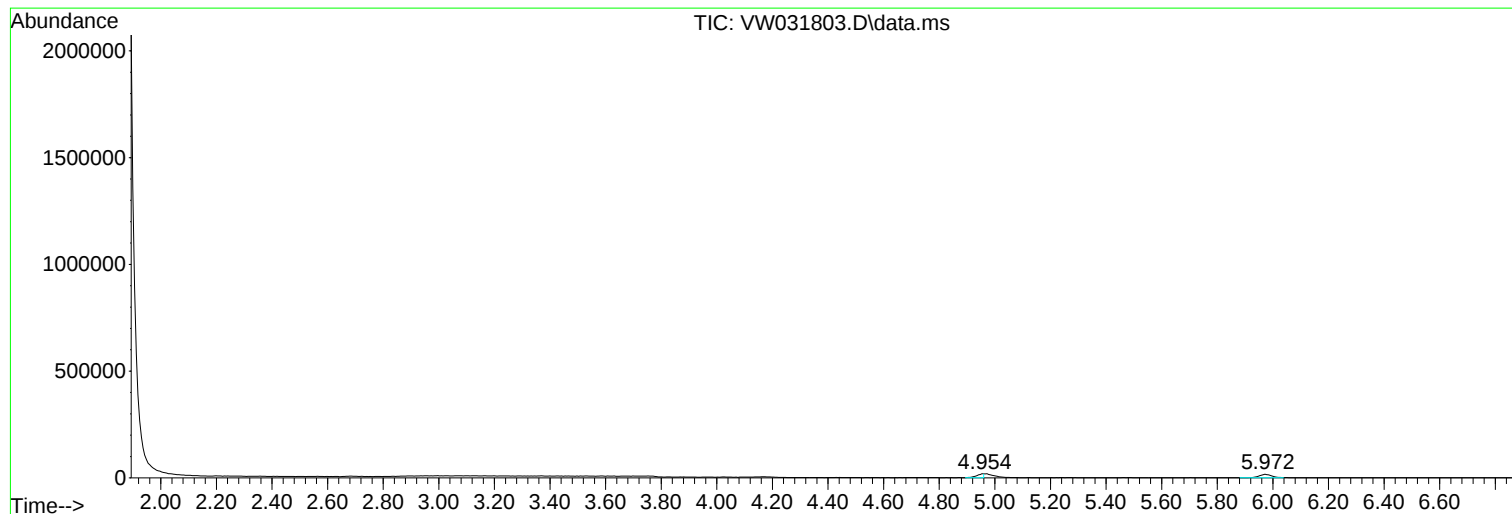
Sum of corrected areas: 6662008

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031803.D
Acq On : 10 Jul 2025 15:14
Operator : SY/MD
Sample : Q2529-10
Misc : 5.20g/5mL/MSVOA_W/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-30

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 : VW031803.D
Acq On : 10 Jul 2025 15:14
Operator : SY/MD
Sample : Q2529-10
Misc : 5.20g/5mL/MSVOA_W/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031803.D
Acq On : 10 Jul 2025 15:14
Operator : SY/MD
Sample : Q2529-10
Misc : 5.20g/5mL/MSVOA_W/SOIL/B
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-30

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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CALIBRATION SUMMARY



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.: Q2529
 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	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.



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.: Q2529
 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	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.

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

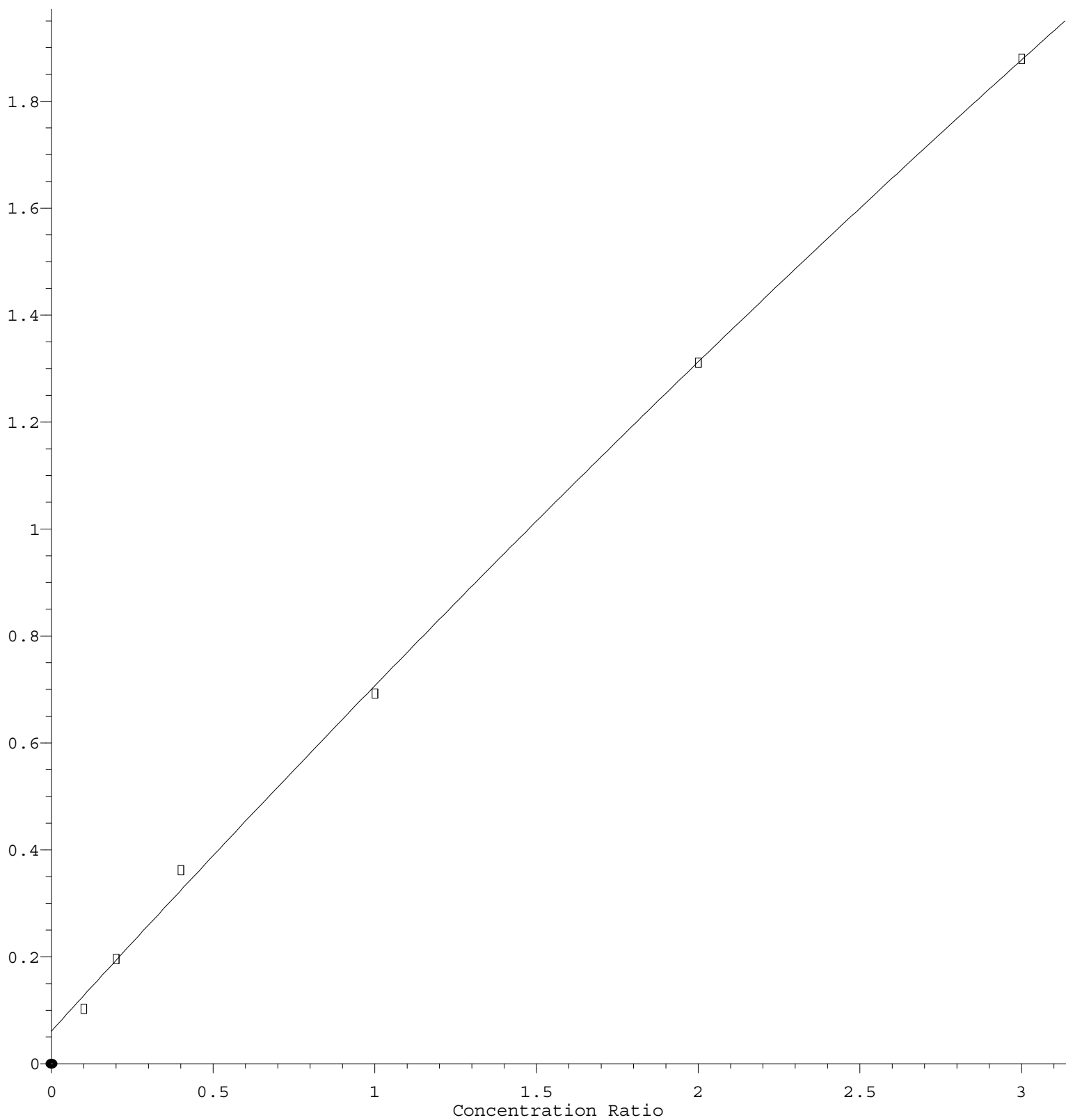
Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
 Method File : 82W063025S.M

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

Methylene Chloride

Response Ratio



$R = -2.021e-002 A^2 + 6.660e-001 A + 6.133e-002$
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

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

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

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

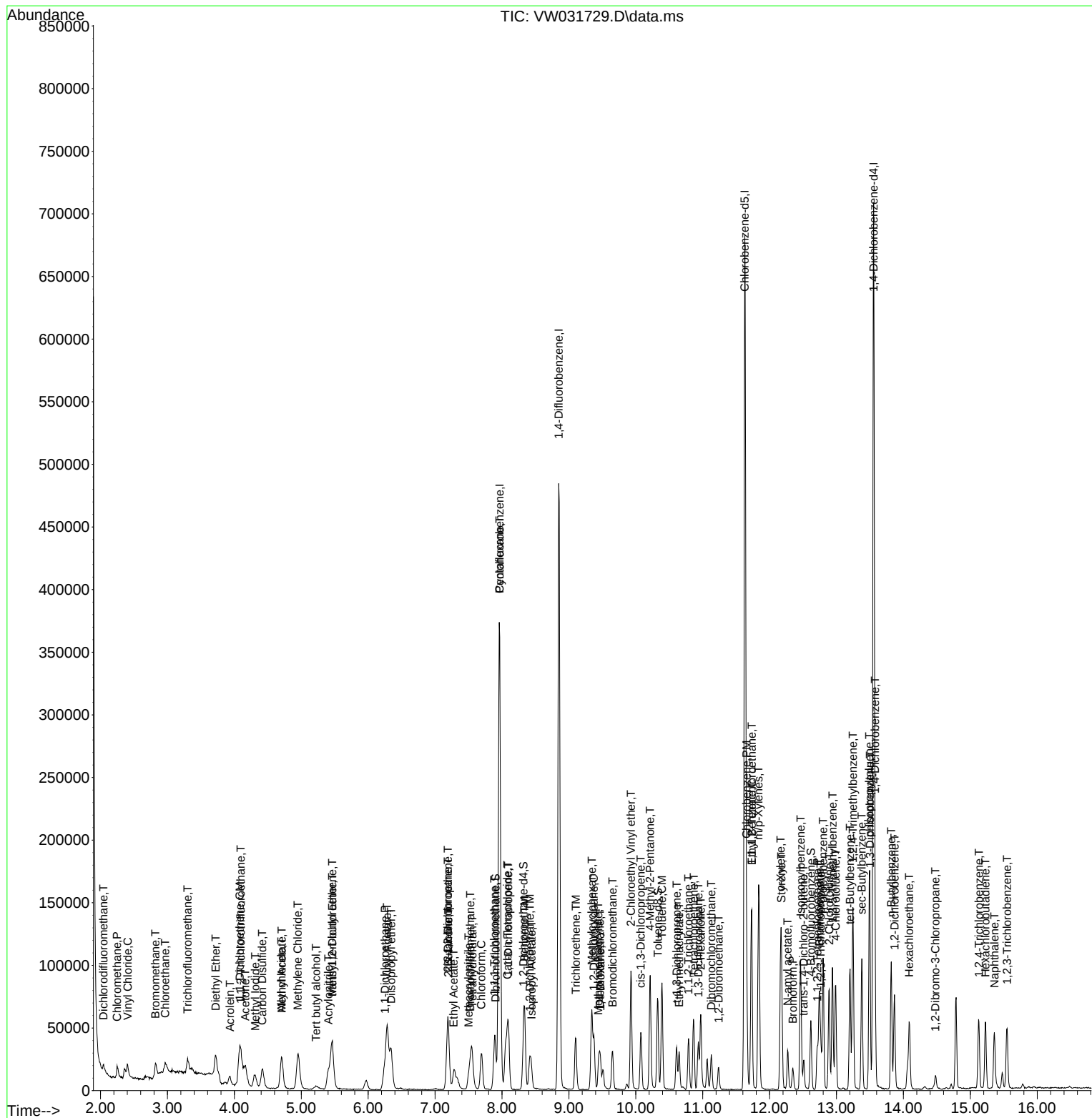
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
 Data File : VW031730.D
 Acq On : 30 Jun 2025 10:15
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC010

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

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

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

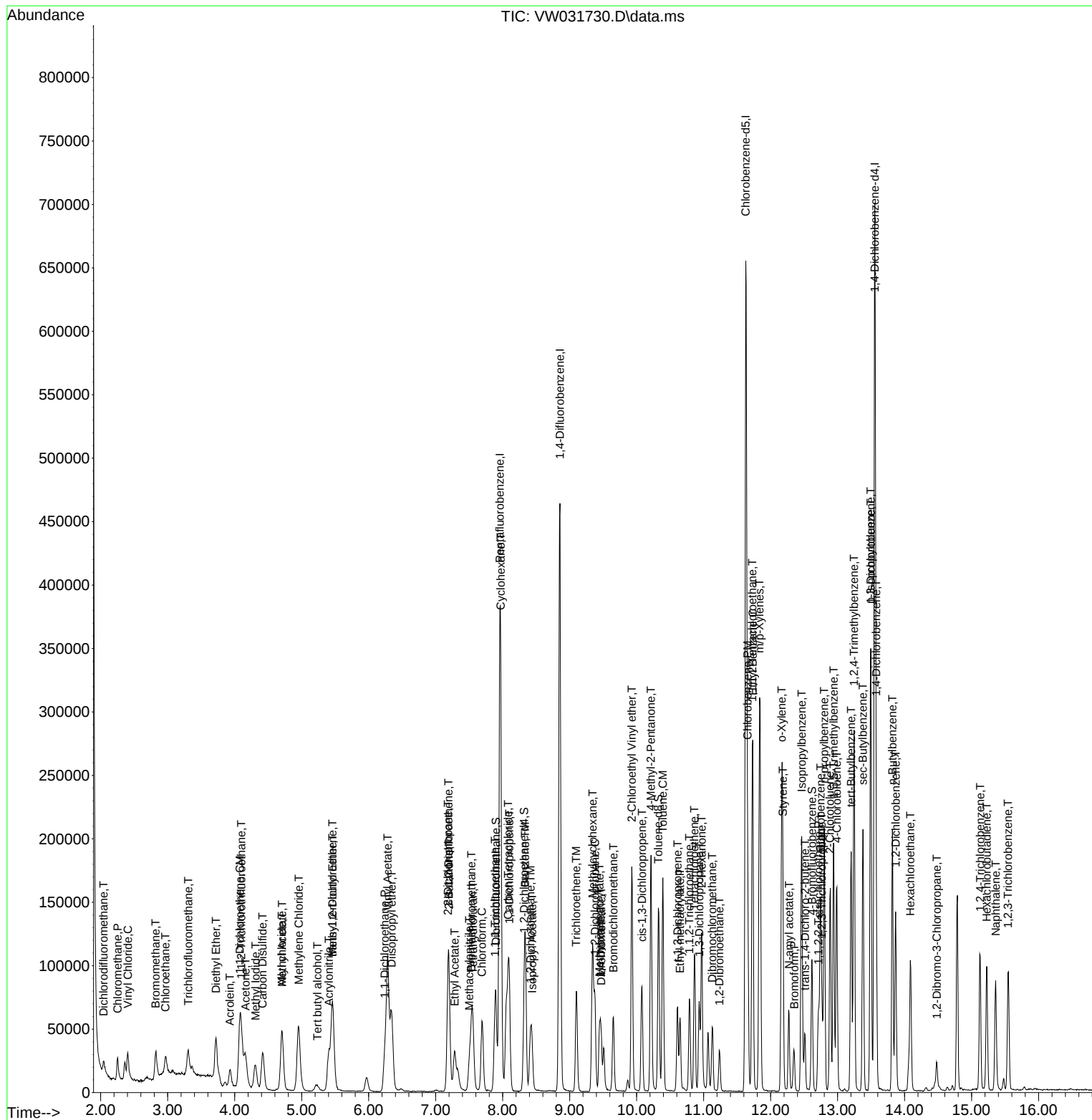
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
 Data File : VW031730.D
 Acq On : 30 Jun 2025 10:15
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC010

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



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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
 Data File : VW031731.D
 Acq On : 30 Jun 2025 10:58
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC020

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

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

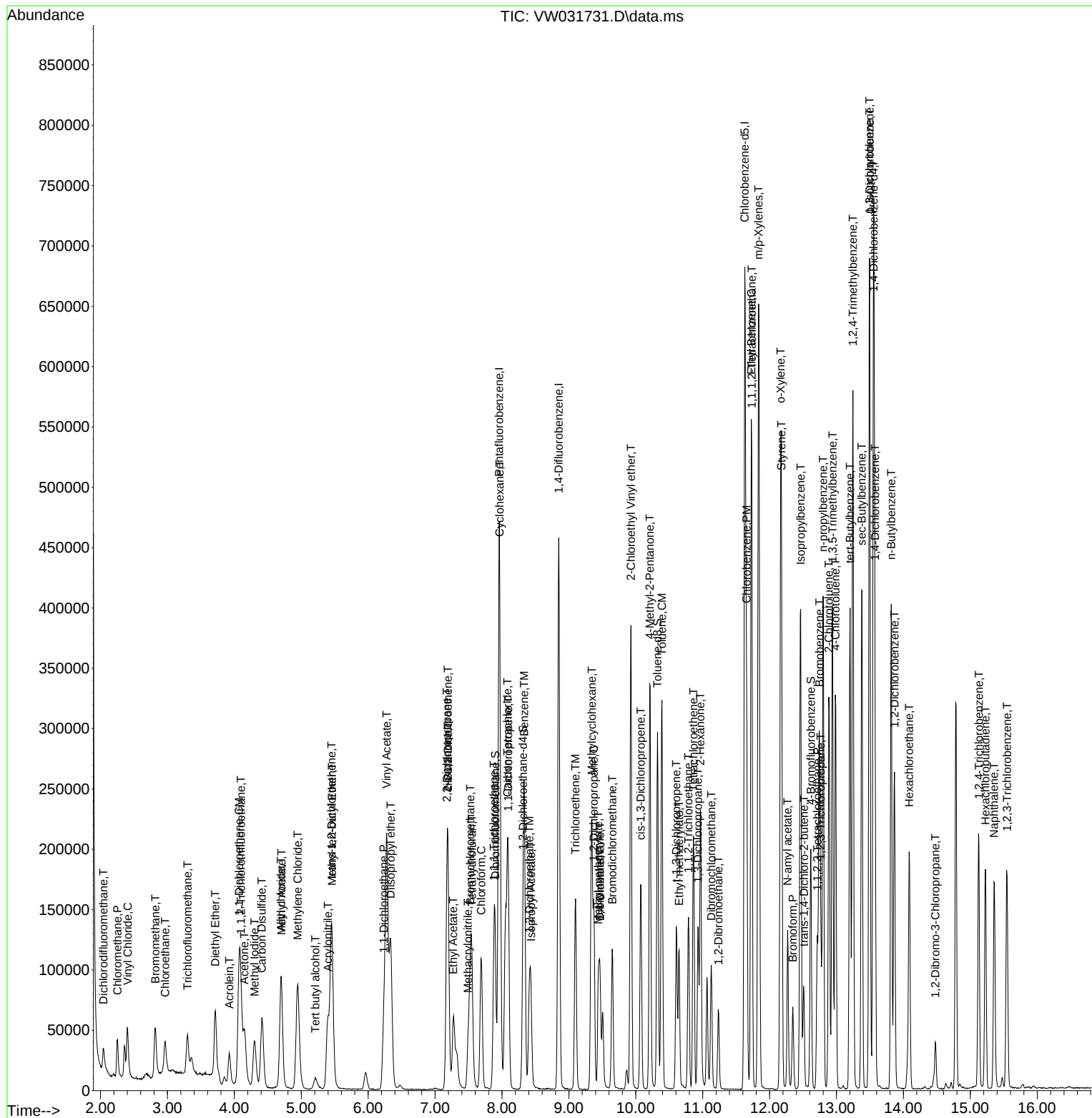
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031731.D
Acq On : 30 Jun 2025 10:58
Operator : SY/MD
Sample : VSTDIC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

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



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

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

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

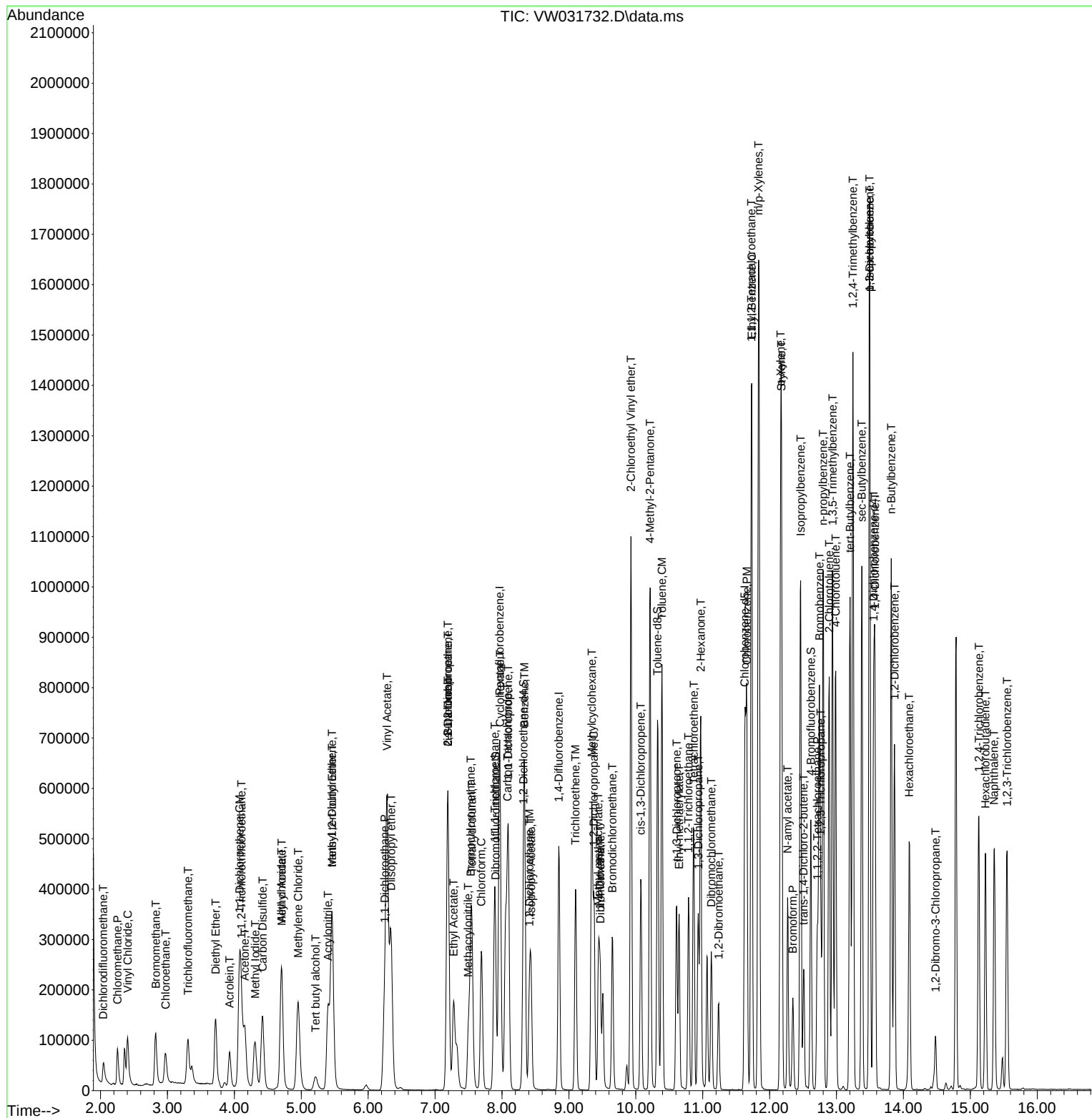
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Data File : VW031732.D
Acq On : 30 Jun 2025 11:21
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

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



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

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

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

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

Quant Time: Jul 01 02:20:57 2025

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

Quant Title : SW846 8260

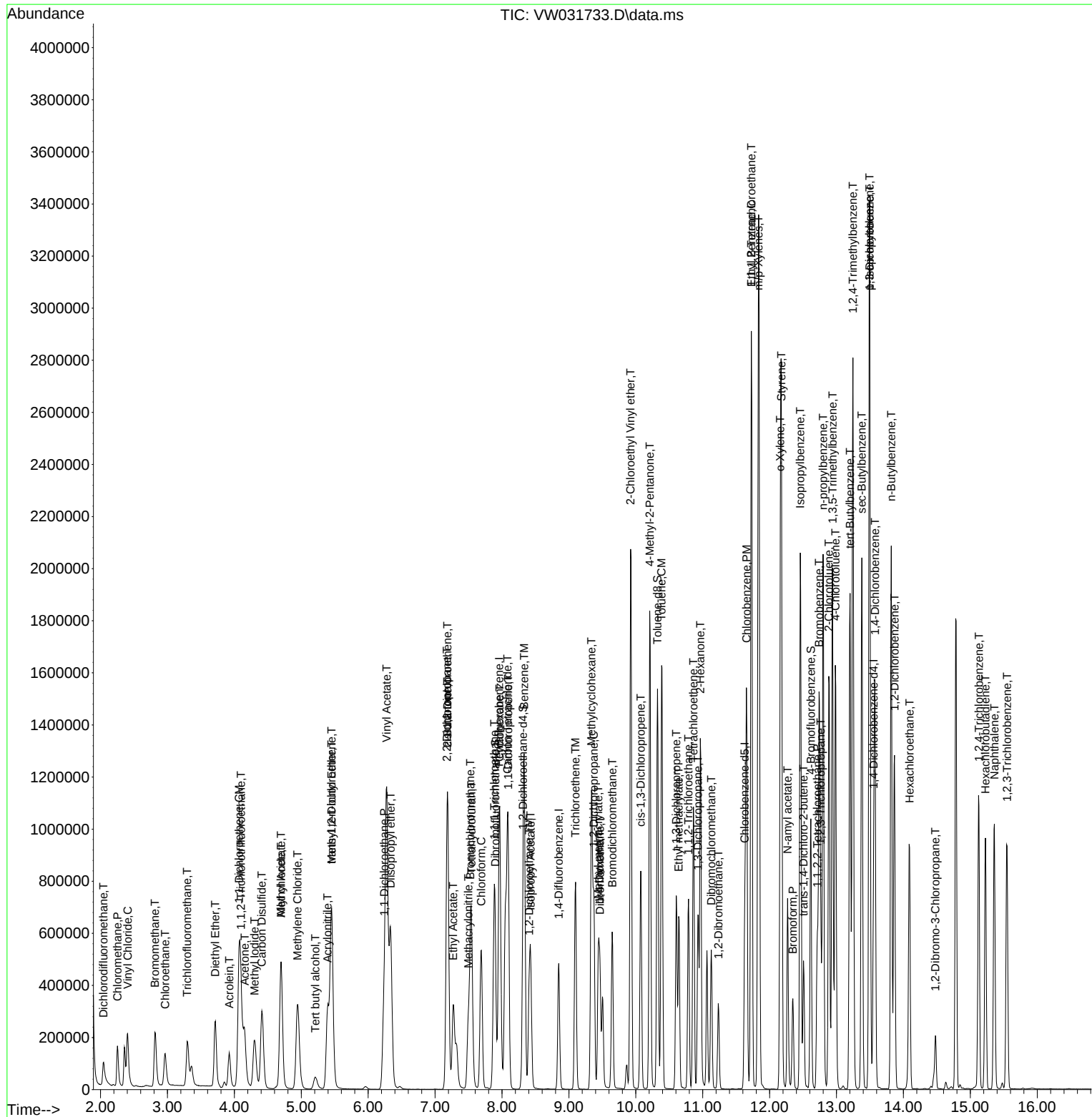
QLast Update : Tue Jul 01 02:17:14 2025

Response via : Initial Calibration

Manual Integrations

APPROVED

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



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

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

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

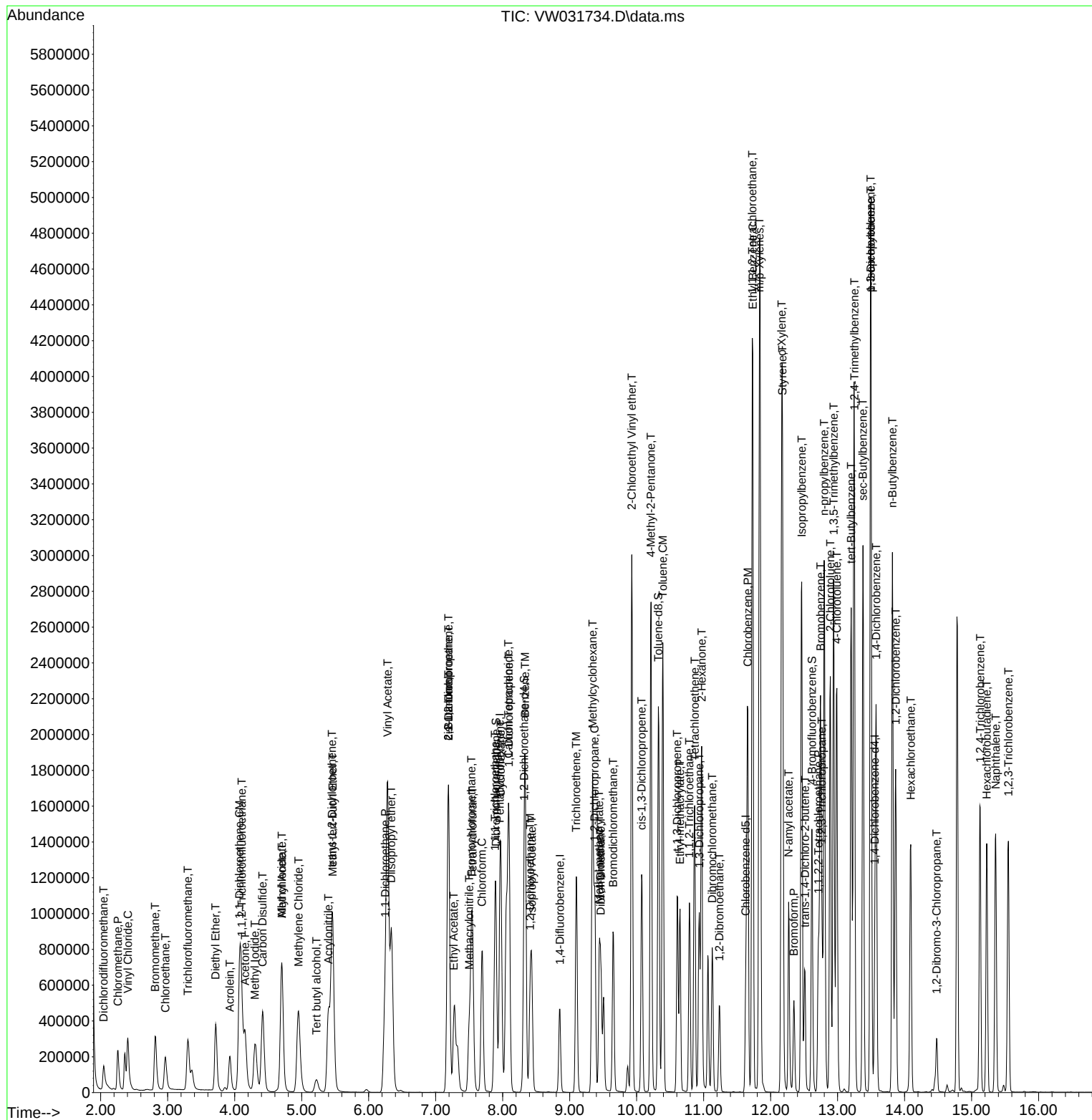
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



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

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

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 :
ICVW063025

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

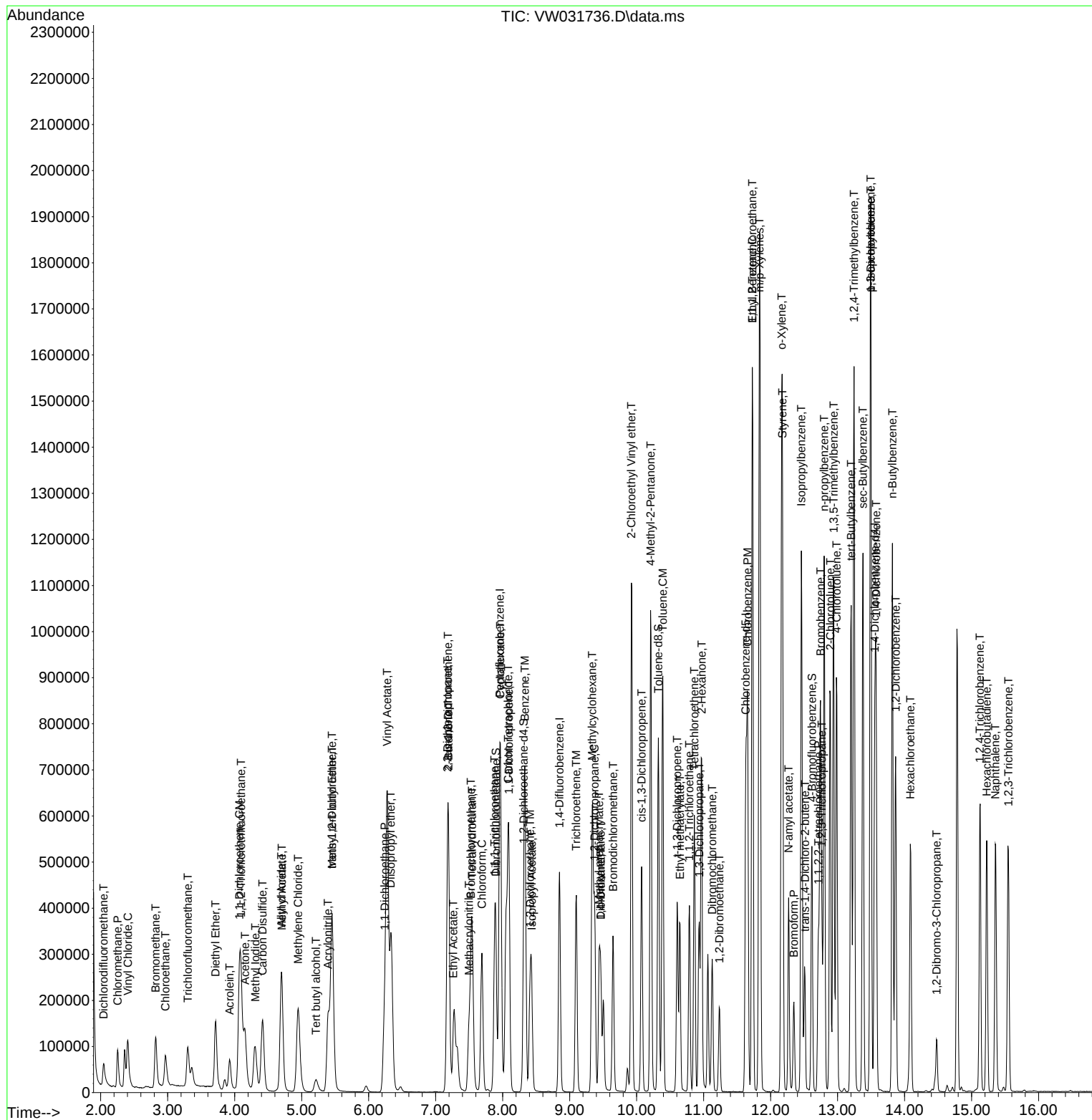
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW063025\
Data File : VW031736.D
Acq On    : 30 Jun 2025  15:23
Operator  : SY/MD
Sample    : VSTDICV050
Misc      : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial  : 10    Sample Multiplier: 1
```

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



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

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

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 :
ICVWVW063025

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

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

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

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 :
ICVWVW063025

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/09/2025 10:00</u>
Lab File ID:	<u>VW031767.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.341	0.331		-2.93	20
Chloromethane	0.411	0.384	0.1	-6.57	20
Vinyl Chloride	0.540	0.532		-1.48	20
Bromomethane	0.421	0.386		-8.31	20
Chloroethane	0.367	0.343		-6.54	20
Trichlorofluoromethane	0.490	0.475		-3.06	20
1,1,2-Trichlorotrifluoroethane	0.544	0.529		-2.76	20
1,1-Dichloroethene	0.596	0.593		-0.5	20
Acetone	0.177	0.171		-3.39	20
Carbon Disulfide	1.594	1.557		-2.32	20
Methyl tert-butyl Ether	1.011	1.032		2.08	20
Methyl Acetate	0.507	0.530		4.54	20
Methylene Chloride	0.814	0.724		-11.06	20
trans-1,2-Dichloroethene	0.633	0.619		-2.21	20
1,1-Dichloroethane	1.156	1.146	0.1	-0.87	20
Cyclohexane	1.022	0.962		-5.87	20
2-Butanone	0.231	0.241		4.33	20
Carbon Tetrachloride	0.481	0.516		7.28	20
cis-1,2-Dichloroethene	0.728	0.736		1.1	20
Bromochloromethane	0.510	0.495		-2.94	20
Chloroform	1.228	1.231		0.24	20
1,1,1-Trichloroethane	0.946	0.975		3.07	20
Methylcyclohexane	0.587	0.631		7.5	20
Benzene	1.397	1.463		4.72	20
1,2-Dichloroethane	0.472	0.483		2.33	20
Trichloroethene	0.349	0.365		4.59	20
1,2-Dichloropropane	0.338	0.351		3.85	20
Bromodichloromethane	0.511	0.539		5.48	20
4-Methyl-2-Pentanone	0.295	0.323		9.49	20
Toluene	0.894	0.951		6.38	20
t-1,3-Dichloropropene	0.480	0.527		9.79	20
cis-1,3-Dichloropropene	0.544	0.580		6.62	20
1,1,2-Trichloroethane	0.286	0.298		4.2	20
2-Hexanone	0.200	0.226		13	20
Dibromochloromethane	0.341	0.372		9.09	20
1,2-Dibromoethane	0.286	0.299		4.55	20
Tetrachloroethene	0.327	0.331		1.22	20
Chlorobenzene	1.103	1.179	0.3	6.89	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/09/2025</u> <u>10:00</u>
Lab File ID:	<u>VW031767.D</u>	Init. Calib. Date(s):	<u>06/30/2025</u> <u>06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54</u> <u>12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.913	2.057		7.53	20
m/p-Xylenes	0.735	0.791		7.62	20
o-Xylene	0.681	0.750		10.13	20
Styrene	1.177	1.273		8.16	20
Bromoform	0.210	0.238	0.1	13.33	20
Isopropylbenzene	3.803	4.177		9.83	20
1,1,2,2-Tetrachloroethane	0.844	0.907	0.3	7.46	20
1,3-Dichlorobenzene	1.701	1.802		5.94	20
1,4-Dichlorobenzene	1.741	1.775		1.95	20
1,2-Dichlorobenzene	1.555	1.600		2.89	20
1,2-Dibromo-3-Chloropropane	0.165	0.179		8.48	20
1,2,4-Trichlorobenzene	0.959	1.007		5.01	20
1,2,3-Trichlorobenzene	0.881	1.004		13.96	20
1,2-Dichloroethane-d4	0.718	0.657		-8.5	20
Dibromofluoromethane	0.326	0.327		0.31	20
Toluene-d8	1.214	1.234		1.65	20
4-Bromofluorobenzene	0.447	0.452		1.12	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\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

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

Quant Time: Jul 10 01:20:31 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	247441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	422710	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	377094	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	179078	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	162448	45.746	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	91.500%		
35) Dibromofluoromethane	7.898	113	138259	50.123	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	100.240%		
50) Toluene-d8	10.325	98	521437	50.798	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	101.600%		
62) 4-Bromofluorobenzene	12.617	95	191245	50.627	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	101.260%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	82009	48.665	ug/l	96
3) Chloromethane	2.253	50	94900	46.711	ug/l	99
4) Vinyl Chloride	2.405	62	131529	49.256	ug/l	100
5) Bromomethane	2.826	94	95511	45.792	ug/l	98
6) Chloroethane	2.972	64	84881	46.795	ug/l	95
7) Trichlorofluoromethane	3.307	101	117630	48.505	ug/l	93
8) Diethyl Ether	3.722	74	85568	46.434	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	131015	48.672	ug/l	99
10) Methyl Iodide	4.307	142	202546	48.810	ug/l	99
11) Tert butyl alcohol	5.222	59	53824	244.656	ug/l	97
12) 1,1-Dichloroethene	4.076	96	146786	49.785	ug/l	97
13) Acrolein	3.929	56	64741	163.732	ug/l	99
14) Allyl chloride	4.697	41	223904	49.495	ug/l	99
15) Acrylonitrile	5.399	53	225809	249.182	ug/l	100
16) Acetone	4.161	43	211986	241.521	ug/l	98
17) Carbon Disulfide	4.417	76	385158	48.818	ug/l	99
18) Methyl Acetate	4.704	43	131126	52.273	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	255291	51.014	ug/l	98
20) Methylene Chloride	4.954	84	179218	51.376	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	153141	48.882	ug/l	97
22) Diisopropyl ether	6.337	45	446765	50.638	ug/l	99
23) Vinyl Acetate	6.283	43	1535842	254.857	ug/l	99
24) 1,1-Dichloroethane	6.240	63	283597	49.580	ug/l	99
25) 2-Butanone	7.191	43	298426	261.347	ug/l	98
26) 2,2-Dichloropropane	7.185	77	168949	50.624	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	182084	50.562	ug/l	99
28) Bromochloromethane	7.526	49	122453	48.512	ug/l	97
29) Tetrahydrofuran	7.551	42	201074	257.131	ug/l	99
30) Chloroform	7.691	83	304613	50.117	ug/l	100
31) Cyclohexane	7.965	56	238122	47.095	ug/l	93
32) 1,1,1-Trichloroethane	7.886	97	241191	51.493	ug/l	98
36) 1,1-Dichloropropene	8.093	75	211773	53.056	ug/l	98
37) Ethyl Acetate	7.270	43	130075	51.660	ug/l	99
38) Carbon Tetrachloride	8.081	117	217942	53.582	ug/l	98
39) Methylcyclohexane	9.343	83	266666	53.697	ug/l	97
40) Benzene	8.337	78	618425	52.368	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/14/2025

Supervised By :Semsettin Yesilyurt 07/14/2025

Quant Time: Jul 10 01:20:31 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	7.502	41	77051	57.124	ug/l	98
42) 1,2-Dichloroethane	8.410	62	204035	51.134	ug/l	98
43) Isopropyl Acetate	8.435	43	233944	53.900	ug/l	99
44) Trichloroethene	9.099	130	154468	52.407	ug/l	99
45) 1,2-Dichloropropane	9.373	63	148469	52.019	ug/l	99
46) Dibromomethane	9.465	93	97245	52.775	ug/l	98
47) Bromodichloromethane	9.648	83	228018	52.770	ug/l	99
48) Methyl methacrylate	9.441	41	112627	52.773	ug/l	98
49) 1,4-Dioxane	9.465	88	24483	1134.460	ug/l #	64
51) 4-Methyl-2-Pentanone	10.209	43	682177	273.384	ug/l	99
52) Toluene	10.392	92	401889	53.153	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	222773	54.949	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	245135	53.337	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	125856	52.142	ug/l	96
56) Ethyl methacrylate	10.648	69	182364	55.690	ug/l	97
57) 1,3-Dichloropropane	10.934	76	221086	52.170	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	498195	276.291	ug/l	100
59) 2-Hexanone	10.971	43	478479	282.970	ug/l	99
60) Dibromochloromethane	11.135	129	157206	54.465	ug/l	99
61) 1,2-Dibromoethane	11.233	107	126491	52.348	ug/l	99
64) Tetrachloroethene	10.861	164	124904	50.637	ug/l	96
65) Chlorobenzene	11.654	112	444577	53.435	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.733	131	139201	52.503	ug/l	99
67) Ethyl Benzene	11.733	91	775778	53.772	ug/l	98
68) m/p-Xylenes	11.836	106	596862	107.620	ug/l	99
69) o-Xylene	12.166	106	282911	55.094	ug/l	95
70) Styrene	12.178	104	479978	54.068	ug/l	99
71) Bromoform	12.349	173	89905	56.842	ug/l #	99
73) Isopropylbenzene	12.464	105	748062	54.917	ug/l	100
74) N-amyl acetate	12.269	43	205671	56.018	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	162369	53.691	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	124022m	53.592	ug/l	
77) Bromobenzene	12.745	156	166043	54.654	ug/l	87
78) n-propylbenzene	12.800	91	865732	53.075	ug/l	99
79) 2-Chlorotoluene	12.891	91	522222	53.166	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	611949	54.273	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	56716	57.083	ug/l	99
82) 4-Chlorotoluene	12.989	91	551892	53.517	ug/l	99
83) tert-Butylbenzene	13.202	119	531985	55.080	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	621516	54.403	ug/l	99
85) sec-Butylbenzene	13.379	105	792244	54.649	ug/l	100
86) p-Isopropyltoluene	13.495	119	659648	55.212	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	322764	52.975	ug/l	100
88) 1,4-Dichlorobenzene	13.574	146	317905	50.977	ug/l	97
89) n-Butylbenzene	13.818	91	630269	54.295	ug/l	99
90) Hexachloroethane	14.086	117	113434	52.627	ug/l	91
91) 1,2-Dichlorobenzene	13.867	146	286451	51.439	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	31975	54.150	ug/l	98
93) 1,2,4-Trichlorobenzene	15.122	180	180373	52.520	ug/l	99
94) Hexachlorobutadiene	15.226	225	90807	54.757	ug/l	92
95) Naphthalene	15.360	128	478905	56.879	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	179854	56.994	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031767.D
Acq On : 09 Jul 2025 10:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

Quant Time: Jul 10 01:20:31 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

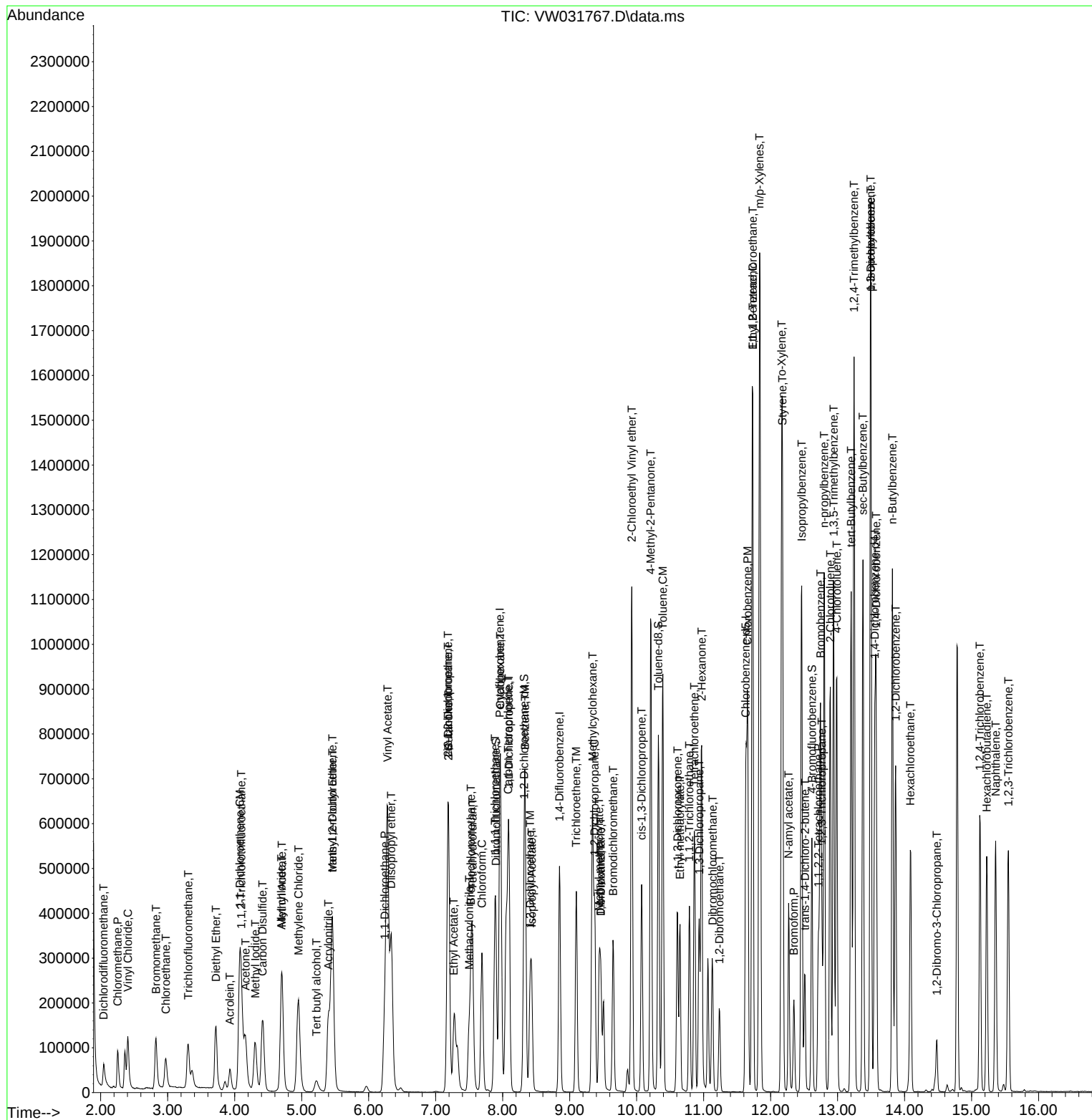
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031767.D
Acq On : 09 Jul 2025 10:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations

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

Quant Time: Jul 10 01:20:31 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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 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 10 01:20:31 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	110	0.00
2 T	Dichlorodifluoromethane	0.341	0.331	2.9	118	0.00
3 P	Chloromethane	0.411	0.384	6.6	113	0.00
4 C	Vinyl Chloride	0.540	0.532	1.5#	114	0.00
5 T	Bromomethane	0.421	0.386	8.3	107	0.00
6 T	Chloroethane	0.367	0.343	6.5	109	0.00
7 T	Trichlorofluoromethane	0.490	0.475	3.1	112	0.00
8 T	Diethyl Ether	0.372	0.346	7.0	107	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.544	0.529	2.8	115	0.00
10 T	Methyl Iodide	0.839	0.819	2.4	111	0.00
11 T	Tert butyl alcohol	0.044	0.044	0.0	103	0.00
12 CM	1,1-Dichloroethene	0.596	0.593	0.5#	118	0.00
13 T	Acrolein	0.080	0.052	35.0#	69	0.00
14 T	Allyl chloride	0.914	0.905	1.0	111	0.00
15 T	Acrylonitrile	0.183	0.183	0.0	105	0.00
16 T	Acetone	0.177	0.171	3.4	116	0.00
17 T	Carbon Disulfide	1.594	1.557	2.3	112	0.00
18 T	Methyl Acetate	0.507	0.530	-4.5	111	0.00
19 T	Methyl tert-butyl Ether	1.011	1.032	-2.1	110	0.00
20 T	Methylene Chloride	0.814	0.724	11.1	115	0.00
21 T	trans-1,2-Dichloroethene	0.633	0.619	2.2	111	0.00
22 T	Diisopropyl ether	1.783	1.806	-1.3	111	0.00
23 T	Vinyl Acetate	1.218	1.241	-1.9	109	0.00
24 P	1,1-Dichloroethane	1.156	1.146	0.9	113	0.00
25 T	2-Butanone	0.231	0.241	-4.3	107	0.00
26 T	2,2-Dichloropropane	0.674	0.683	-1.3	115	0.00
27 T	cis-1,2-Dichloroethene	0.728	0.736	-1.1	113	0.00
28 T	Bromochloromethane	0.510	0.495	2.9	108	0.00
29 T	Tetrahydrofuran	0.158	0.163	-3.2	107	0.00
30 C	Chloroform	1.228	1.231	-0.2#	113	0.00
31 T	Cyclohexane	1.022	0.962	5.9	113	0.00
32 T	1,1,1-Trichloroethane	0.946	0.975	-3.1	116	0.00
33 S	1,2-Dichloroethane-d4	0.718	0.657	8.5	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.326	0.327	-0.3	105	0.00
36 T	1,1-Dichloropropene	0.472	0.501	-6.1	115	0.00
37 T	Ethyl Acetate	0.298	0.308	-3.4	106	0.00
38 T	Carbon Tetrachloride	0.481	0.516	-7.3	117	0.00
39 T	Methylcyclohexane	0.587	0.631	-7.5	116	0.00
40 TM	Benzene	1.397	1.463	-4.7	111	0.00
41 T	Methacrylonitrile	0.160	0.182	-13.7	109	0.00
42 TM	1,2-Dichloroethane	0.472	0.483	-2.3	109	0.00
43 T	Isopropyl Acetate	0.513	0.553	-7.8	108	0.00
44 TM	Trichloroethene	0.349	0.365	-4.6	111	0.00
45 C	1,2-Dichloropropane	0.338	0.351	-3.8#	111	0.00
46 T	Dibromomethane	0.218	0.230	-5.5	110	0.00
47 T	Bromodichloromethane	0.511	0.539	-5.5	110	0.00
48 T	Methyl methacrylate	0.252	0.266	-5.6	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 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 10 01:20:31 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	118	0.00
50 S	Toluene-d8	1.214	1.234	-1.6	107	0.00
51 T	4-Methyl-2-Pentanone	0.295	0.323	-9.5	108	0.00
52 CM	Toluene	0.894	0.951	-6.4#	113	0.00
53 T	t-1,3-Dichloropropene	0.480	0.527	-9.8	111	0.00
54 T	cis-1,3-Dichloropropene	0.544	0.580	-6.6	110	0.00
55 T	1,1,2-Trichloroethane	0.286	0.298	-4.2	109	0.00
56 T	Ethyl methacrylate	0.387	0.431	-11.4	110	0.00
57 T	1,3-Dichloropropane	0.501	0.523	-4.4	111	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.236	-10.8	110	0.00
59 T	2-Hexanone	0.200	0.226	-13.0	108	0.00
60 T	Dibromochloromethane	0.341	0.372	-9.1	110	0.00
61 T	1,2-Dibromoethane	0.286	0.299	-4.5	108	0.00
62 S	4-Bromofluorobenzene	0.447	0.452	-1.1	106	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.327	0.331	-1.2	110	0.00
65 PM	Chlorobenzene	1.103	1.179	-6.9	115	0.00
66 T	1,1,1,2-Tetrachloroethane	0.352	0.369	-4.8	109	0.00
67 C	Ethyl Benzene	1.913	2.057	-7.5#	113	0.00
68 T	m/p-Xylenes	0.735	0.791	-7.6	113	0.00
69 T	o-Xylene	0.681	0.750	-10.1	114	0.00
70 T	Styrene	1.177	1.273	-8.2	109	0.00
71 P	Bromoform	0.210	0.238	-13.3	113	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.803	4.177	-9.8	115	0.00
74 T	N-amyl acetate	1.025	1.148	-12.0	111	0.00
75 P	1,1,2,2-Tetrachloroethane	0.844	0.907	-7.5	110	0.00
76 T	1,2,3-Trichloropropane	0.646	0.693	-7.3	109	0.00
77 T	Bromobenzene	0.848	0.927	-9.3	122	0.00
78 T	n-propylbenzene	4.554	4.834	-6.1	111	0.00
79 T	2-Chlorotoluene	2.743	2.916	-6.3	112	0.00
80 T	1,3,5-Trimethylbenzene	3.148	3.417	-8.5	111	0.00
81 T	trans-1,4-Dichloro-2-butene	0.277	0.317	-14.4	112	0.00
82 T	4-Chlorotoluene	2.879	3.082	-7.1	112	0.00
83 T	tert-Butylbenzene	2.697	2.971	-10.2	117	0.00
84 T	1,2,4-Trimethylbenzene	3.190	3.471	-8.8	114	0.00
85 T	sec-Butylbenzene	4.048	4.424	-9.3	114	0.00
86 T	p-Isopropyltoluene	3.336	3.684	-10.4	116	0.00
87 T	1,3-Dichlorobenzene	1.701	1.802	-5.9	113	0.00
88 T	1,4-Dichlorobenzene	1.741	1.775	-2.0	107	0.00
89 T	n-Butylbenzene	3.241	3.520	-8.6	114	0.00
90 T	Hexachloroethane	0.602	0.633	-5.1	110	0.00
91 T	1,2-Dichlorobenzene	1.555	1.600	-2.9	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.165	0.179	-8.5	110	0.00
93 T	1,2,4-Trichlorobenzene	0.959	1.007	-5.0	111	0.00
94 T	Hexachlorobutadiene	0.463	0.507	-9.5	126	0.00
95 T	Naphthalene	2.351	2.674	-13.7	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031767.D
Acq On : 09 Jul 2025 10:00
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 10 01:20:31 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	1.004	-14.0	120	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 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 10 01:20:31 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	110	0.00
2 T	Dichlorodifluoromethane	50.000	48.665	2.7	118	0.00
3 P	Chloromethane	50.000	46.711	6.6	113	0.00
4 C	Vinyl Chloride	50.000	49.256	1.5#	114	0.00
5 T	Bromomethane	50.000	45.792	8.4	107	0.00
6 T	Chloroethane	50.000	46.795	6.4	109	0.00
7 T	Trichlorofluoromethane	50.000	48.505	3.0	112	0.00
8 T	Diethyl Ether	50.000	46.434	7.1	107	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.672	2.7	115	0.00
10 T	Methyl Iodide	50.000	48.810	2.4	111	0.00
11 T	Tert butyl alcohol	250.000	244.656	2.1	103	0.00
12 CM	1,1-Dichloroethene	50.000	49.785	0.4#	118	0.00
13 T	Acrolein	250.000	163.732	34.5#	69	0.00
14 T	Allyl chloride	50.000	49.495	1.0	111	0.00
15 T	Acrylonitrile	250.000	249.182	0.3	105	0.00
16 T	Acetone	250.000	241.521	3.4	116	0.00
17 T	Carbon Disulfide	50.000	48.818	2.4	112	0.00
18 T	Methyl Acetate	50.000	52.273	-4.5	111	0.00
19 T	Methyl tert-butyl Ether	50.000	51.014	-2.0	110	0.00
20 T	Methylene Chloride	50.000	51.376	-2.8	115	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.882	2.2	111	0.00
22 T	Diisopropyl ether	50.000	50.638	-1.3	111	0.00
23 T	Vinyl Acetate	250.000	254.857	-1.9	109	0.00
24 P	1,1-Dichloroethane	50.000	49.580	0.8	113	0.00
25 T	2-Butanone	250.000	261.347	-4.5	107	0.00
26 T	2,2-Dichloropropane	50.000	50.624	-1.2	115	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.562	-1.1	113	0.00
28 T	Bromochloromethane	50.000	48.512	3.0	108	0.00
29 T	Tetrahydrofuran	250.000	257.131	-2.9	107	0.00
30 C	Chloroform	50.000	50.117	-0.2#	113	0.00
31 T	Cyclohexane	50.000	47.095	5.8	113	0.00
32 T	1,1,1-Trichloroethane	50.000	51.493	-3.0	116	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.746	8.5	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	50.123	-0.2	105	0.00
36 T	1,1-Dichloropropene	50.000	53.056	-6.1	115	0.00
37 T	Ethyl Acetate	50.000	51.660	-3.3	106	0.00
38 T	Carbon Tetrachloride	50.000	53.582	-7.2	117	0.00
39 T	Methylcyclohexane	50.000	53.697	-7.4	116	0.00
40 TM	Benzene	50.000	52.368	-4.7	111	0.00
41 T	Methacrylonitrile	50.000	57.124	-14.2	109	0.00
42 TM	1,2-Dichloroethane	50.000	51.134	-2.3	109	0.00
43 T	Isopropyl Acetate	50.000	53.900	-7.8	108	0.00
44 TM	Trichloroethene	50.000	52.407	-4.8	111	0.00
45 C	1,2-Dichloropropane	50.000	52.019	-4.0#	111	0.00
46 T	Dibromomethane	50.000	52.775	-5.5	110	0.00
47 T	Bromodichloromethane	50.000	52.770	-5.5	110	0.00
48 T	Methyl methacrylate	50.000	52.773	-5.5	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031767.D
 Acq On : 09 Jul 2025 10:00
 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 10 01:20:31 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	1134.460	-13.4	118	0.00
50 S	Toluene-d8	50.000	50.798	-1.6	107	0.00
51 T	4-Methyl-2-Pentanone	250.000	273.384	-9.4	108	0.00
52 CM	Toluene	50.000	53.153	-6.3#	113	0.00
53 T	t-1,3-Dichloropropene	50.000	54.949	-9.9	111	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.337	-6.7	110	0.00
55 T	1,1,2-Trichloroethane	50.000	52.142	-4.3	109	0.00
56 T	Ethyl methacrylate	50.000	55.690	-11.4	110	0.00
57 T	1,3-Dichloropropane	50.000	52.170	-4.3	111	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.291	-10.5	110	0.00
59 T	2-Hexanone	250.000	282.970	-13.2	108	0.00
60 T	Dibromochloromethane	50.000	54.465	-8.9	110	0.00
61 T	1,2-Dibromoethane	50.000	52.348	-4.7	108	0.00
62 S	4-Bromofluorobenzene	50.000	50.627	-1.3	106	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	50.637	-1.3	110	0.00
65 PM	Chlorobenzene	50.000	53.435	-6.9	115	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.503	-5.0	109	0.00
67 C	Ethyl Benzene	50.000	53.772	-7.5#	113	0.00
68 T	m/p-Xylenes	100.000	107.620	-7.6	113	0.00
69 T	o-Xylene	50.000	55.094	-10.2	114	0.00
70 T	Styrene	50.000	54.068	-8.1	109	0.00
71 P	Bromoform	50.000	56.842	-13.7	113	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	54.917	-9.8	115	0.00
74 T	N-amyl acetate	50.000	56.018	-12.0	111	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.691	-7.4	110	0.00
76 T	1,2,3-Trichloropropane	50.000	53.592	-7.2	109	0.00
77 T	Bromobenzene	50.000	54.654	-9.3	122	0.00
78 T	n-propylbenzene	50.000	53.075	-6.2	111	0.00
79 T	2-Chlorotoluene	50.000	53.166	-6.3	112	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.273	-8.5	111	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	57.083	-14.2	112	0.00
82 T	4-Chlorotoluene	50.000	53.517	-7.0	112	0.00
83 T	tert-Butylbenzene	50.000	55.080	-10.2	117	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.403	-8.8	114	0.00
85 T	sec-Butylbenzene	50.000	54.649	-9.3	114	0.00
86 T	p-Isopropyltoluene	50.000	55.212	-10.4	116	0.00
87 T	1,3-Dichlorobenzene	50.000	52.975	-6.0	113	0.00
88 T	1,4-Dichlorobenzene	50.000	50.977	-2.0	107	0.00
89 T	n-Butylbenzene	50.000	54.295	-8.6	114	0.00
90 T	Hexachloroethane	50.000	52.627	-5.3	110	0.00
91 T	1,2-Dichlorobenzene	50.000	51.439	-2.9	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	54.150	-8.3	110	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.520	-5.0	111	0.00
94 T	Hexachlorobutadiene	50.000	54.757	-9.5	126	0.00
95 T	Naphthalene	50.000	56.879	-13.8	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031767.D
Acq On : 09 Jul 2025 10:00
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 10 01:20:31 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	56.994	-14.0	120	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/10/2025 08:47</u>
Lab File ID:	<u>VW031791.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (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.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/10/2025 08:47</u>
Lab File ID:	<u>VW031791.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (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

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

07/14/2025
 Supervised By :Semsettin
 Yesilyurt

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

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

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

07/14/2025
 Supervised By :Semsettin
 Yesilyurt

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

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

07/14/2025
Supervised By :Semsettin
Yesilyurt

07/14/2025

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

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

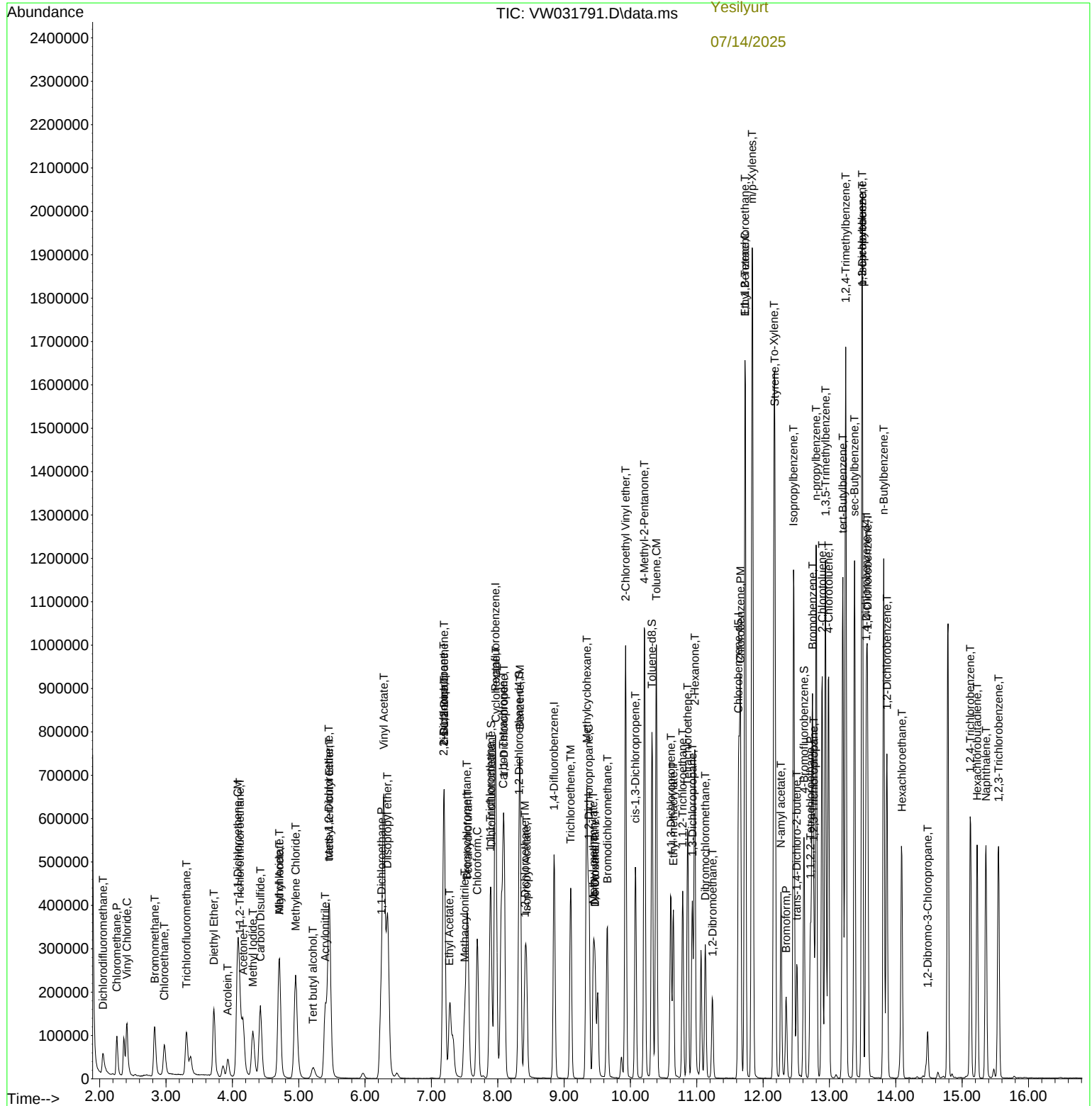
Quant Time: Jul 11 02:14:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration

Manual Integrations

Reviewed By :Mahesh
Dadoda

07/14/2025
Supervised By :Semsettin
Yesilyurt

07/14/2025



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

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

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

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

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

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



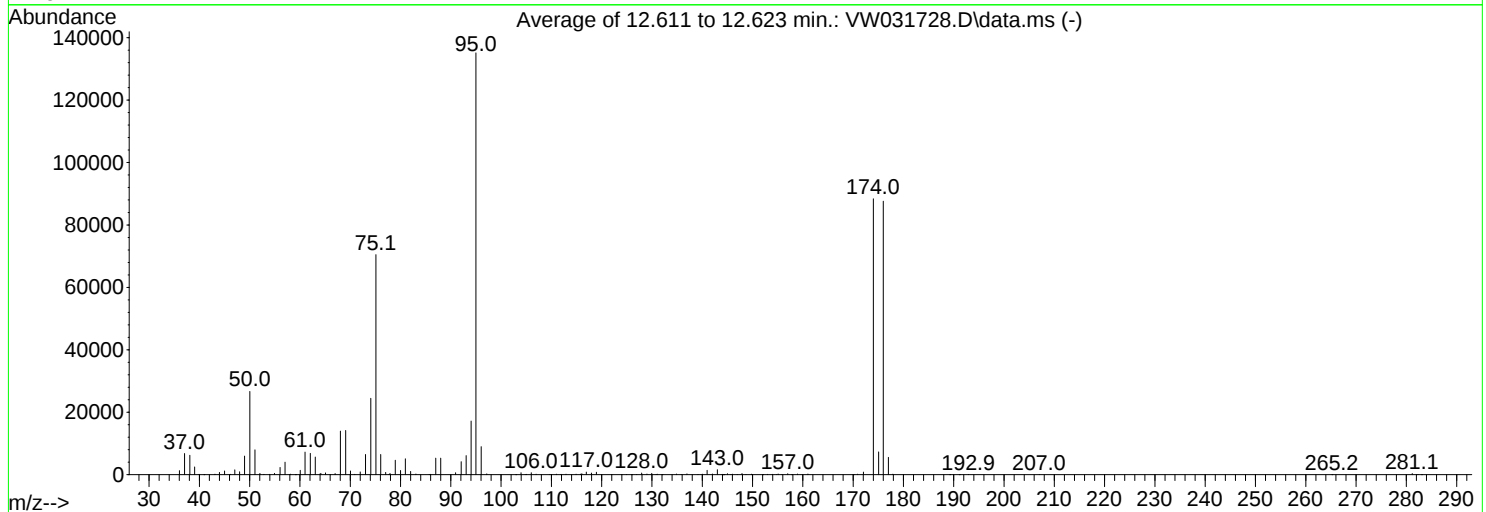
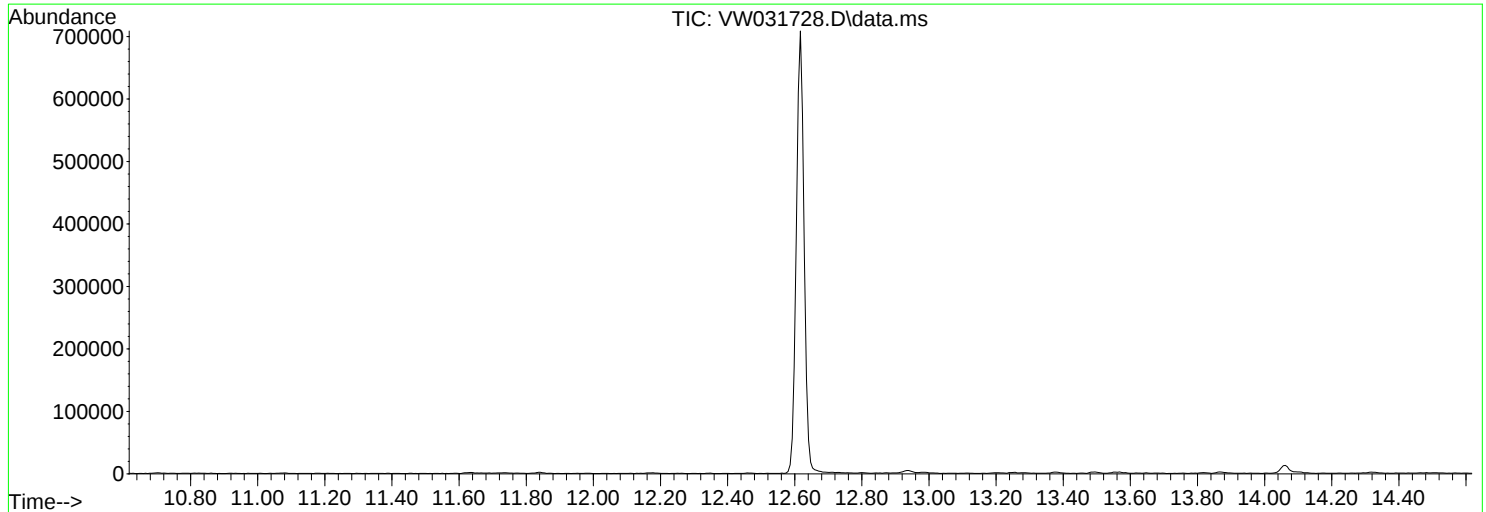
QC SAMPLE DATA

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

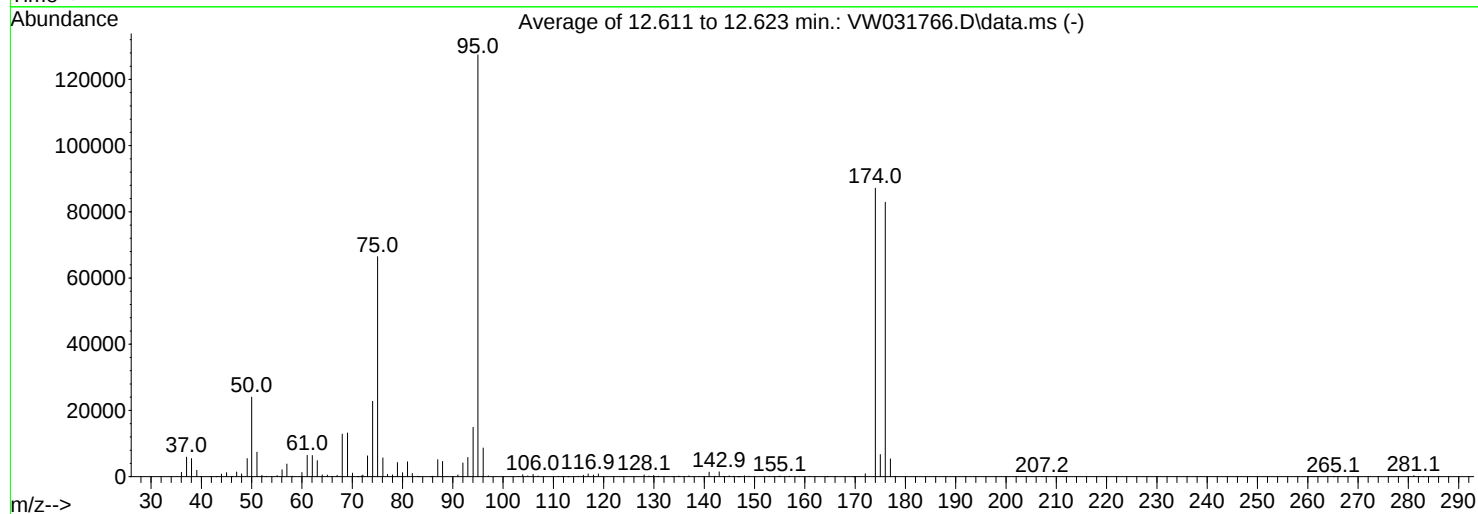
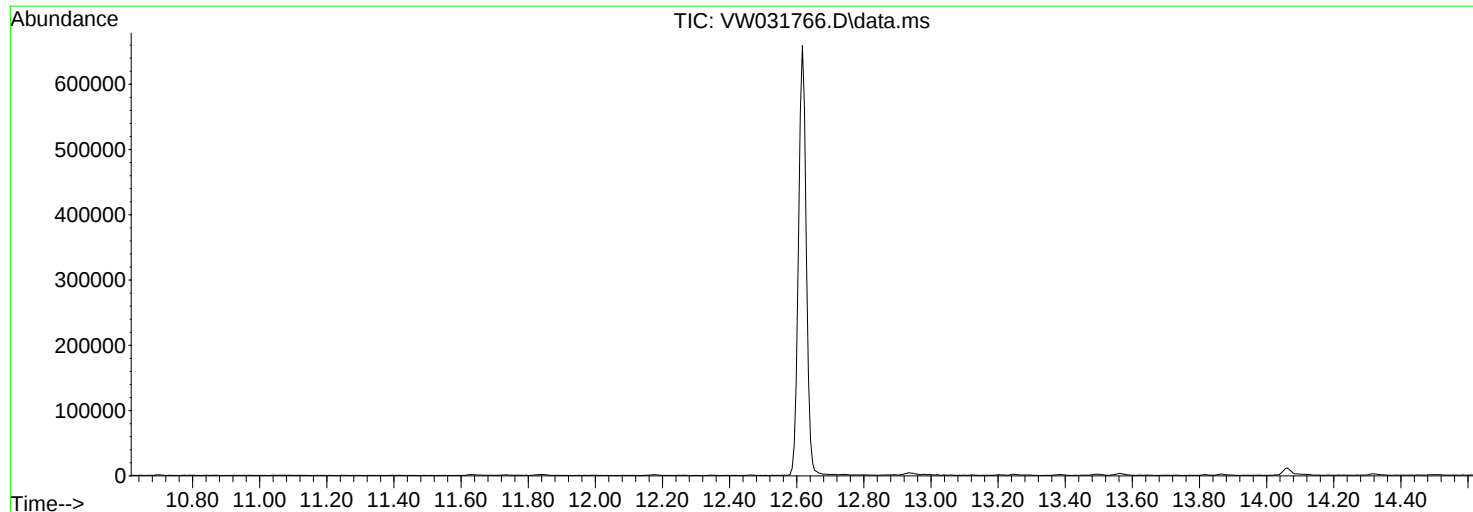
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.7	26685	PASS
75	95	30	60	52.1	70472	PASS
95	95	100	100	100.0	135149	PASS
96	95	5	9	6.7	8992	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.4	88384	PASS
175	174	5	9	8.2	7275	PASS
176	174	95	101	99.2	87643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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031766.D
Acq On : 09 Jul 2025 08:51
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

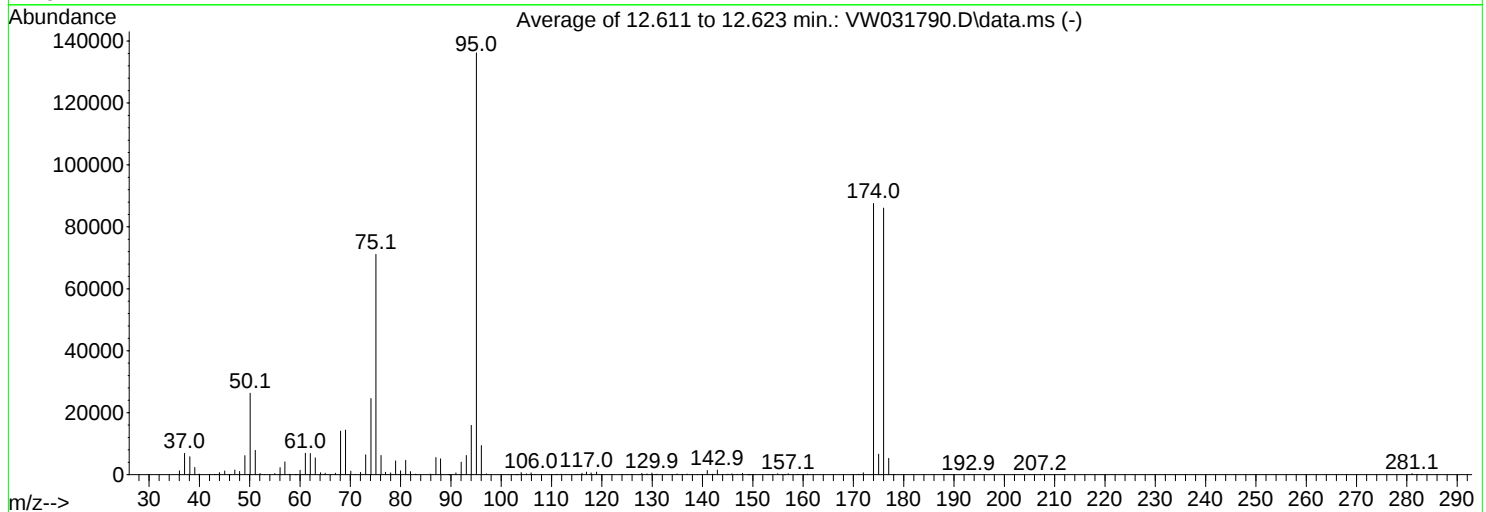
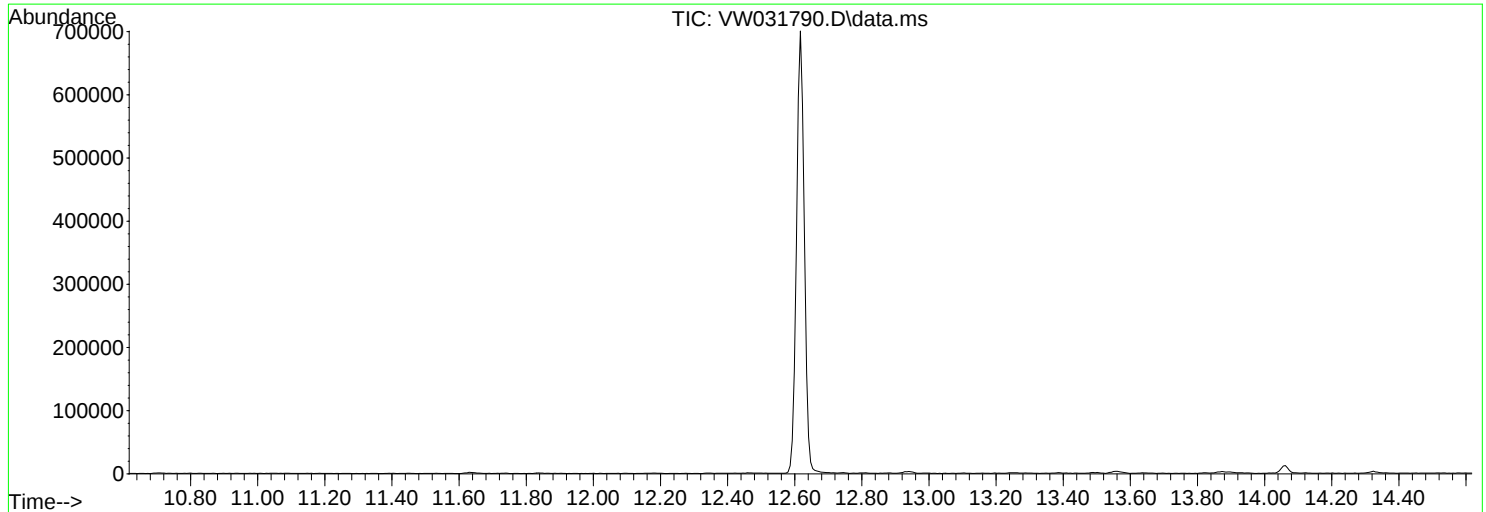
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	24048	PASS
75	95	30	60	52.1	66445	PASS
95	95	100	100	100.0	127421	PASS
96	95	5	9	6.8	8649	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.4	87141	PASS
175	174	5	9	7.7	6694	PASS
176	174	95	101	95.1	82880	PASS
177	176	5	9	6.5	5352	PASS

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031768.D	1	07/09/25 10:58	VW070925

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0709SBL01		SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01		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
VW031768.D	1	07/09/25 10:58	VW070925

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	44.4		63 - 155	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	45.6		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.8		17 - 146	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.965			
540-36-3	1,4-Difluorobenzene	394000	8.849			
3114-55-4	Chlorobenzene-d5	350000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	164000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031768.D	1	07/09/25 10:58	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VW070925\
 Data File : VW031768.D
 Acq On : 09 Jul 2025 10:58
 Operator : SY/MD
 Sample : VW0709SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0709SBL01

Quant Time: Jul 10 01:21:33 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	208773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	393637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	349817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	163801	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	132908	44.360	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	88.720%
35) Dibromofluoromethane	7.898	113	118160	46.001	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.000%
50) Toluene-d8	10.324	98	436151	45.627	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.260%
62) 4-Bromofluorobenzene	12.617	95	147105	41.818	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	83.640%

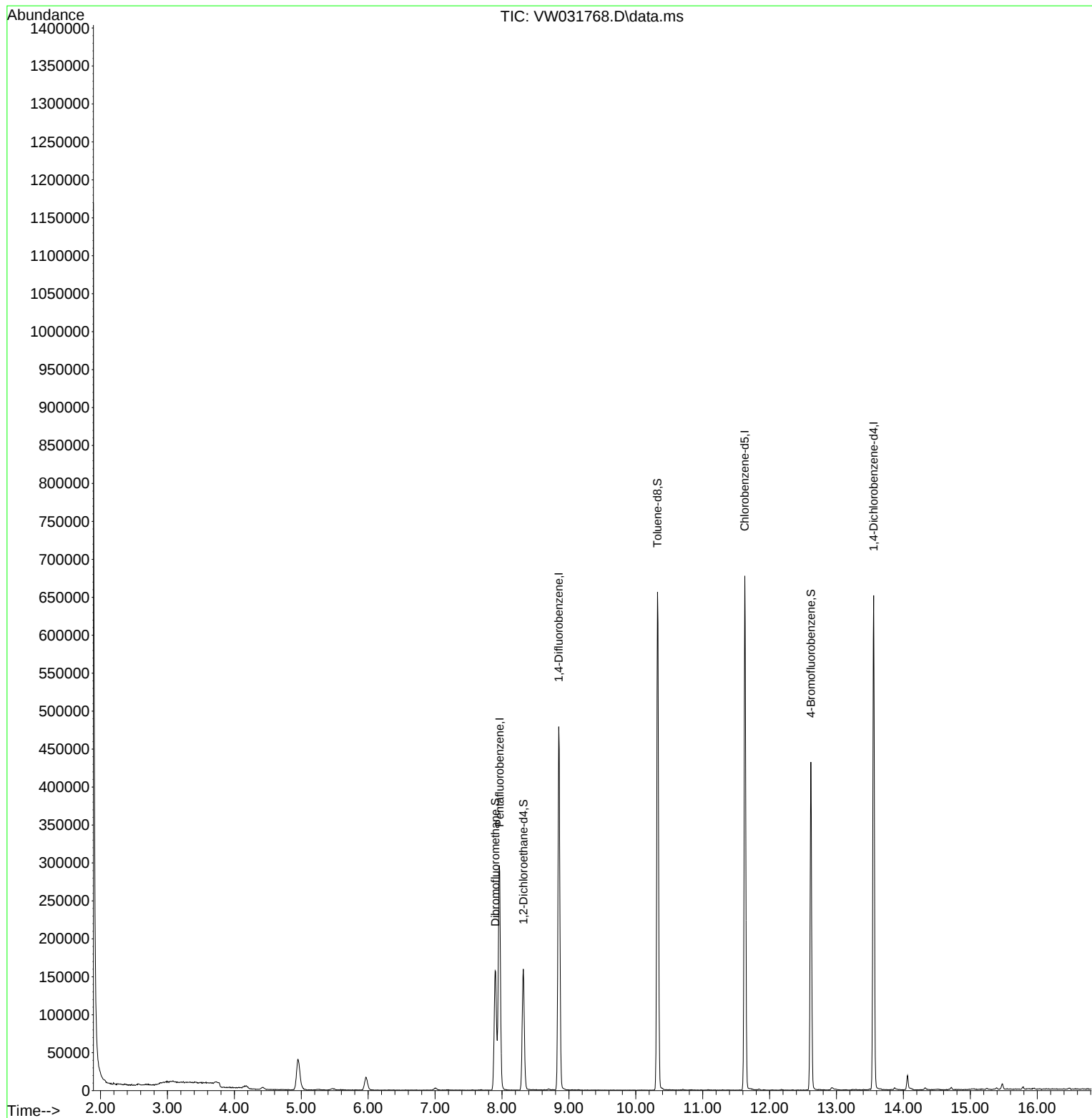
Target Compounds	Qvalue

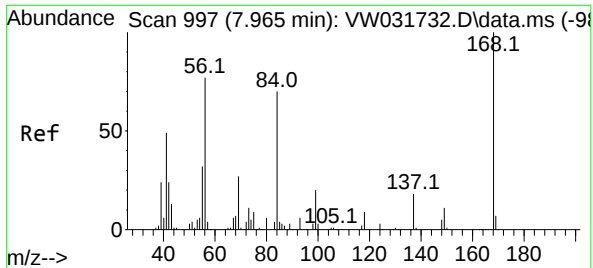
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031768.D
Acq On : 09 Jul 2025 10:58
Operator : SY/MD
Sample : VW0709SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

Quant Time: Jul 10 01:21:33 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

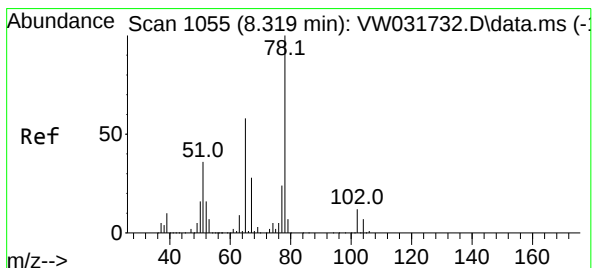
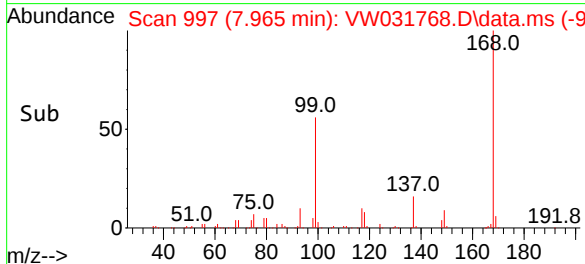
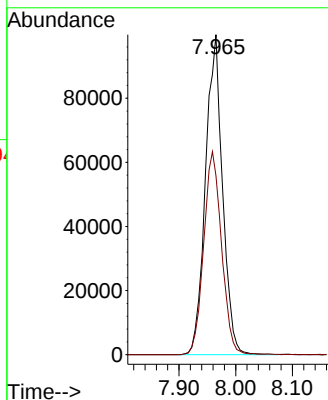
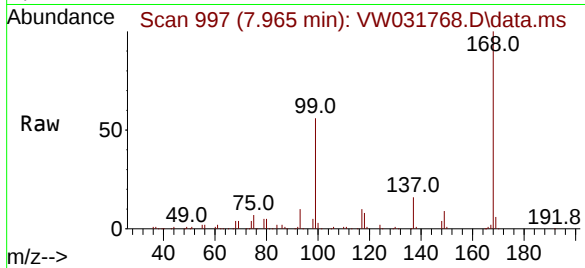




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

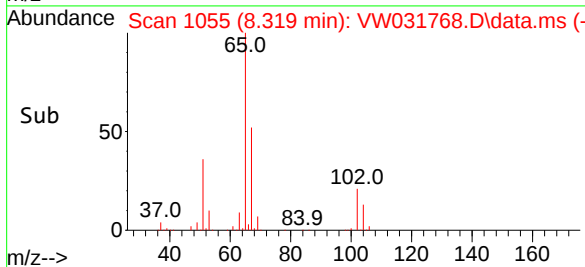
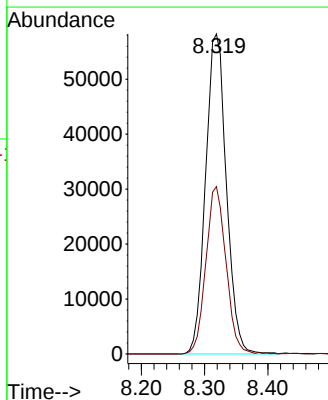
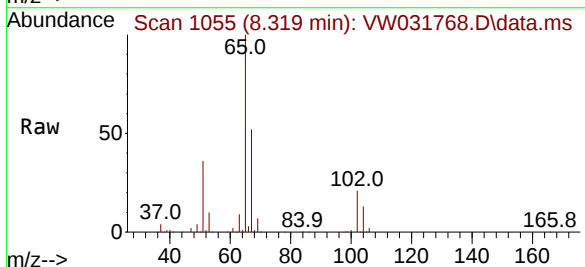
Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

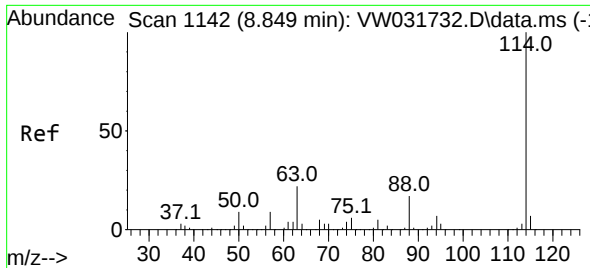
Tgt Ion:168 Resp: 208773
Ion Ratio Lower Upper
168 100
99 55.9 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 44.360 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

Tgt Ion: 65 Resp: 132908
Ion Ratio Lower Upper
65 100
67 50.7 0.0 99.4

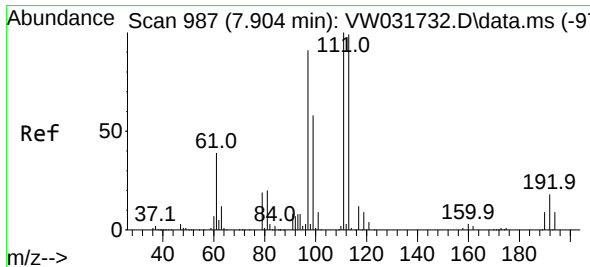
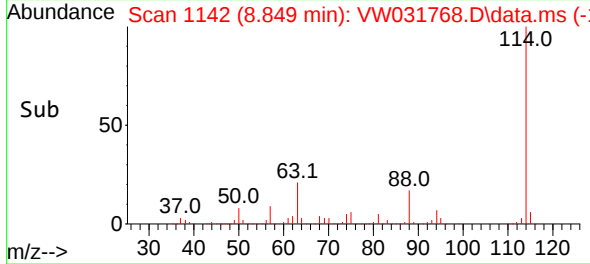
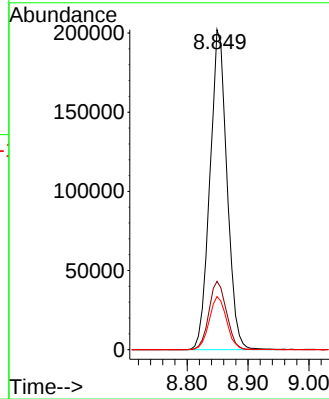
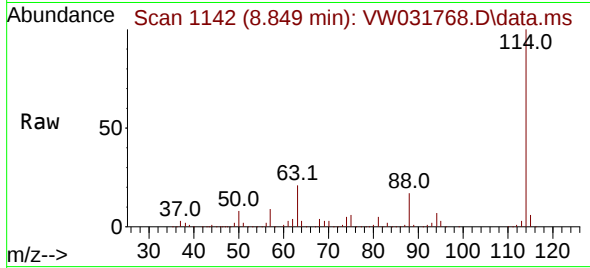




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

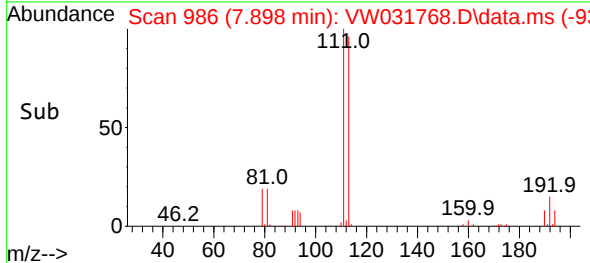
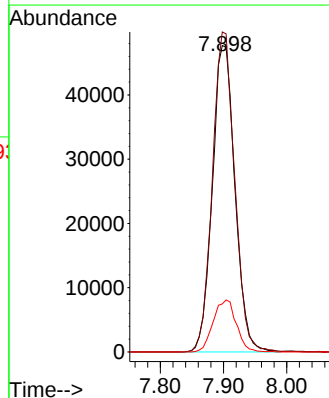
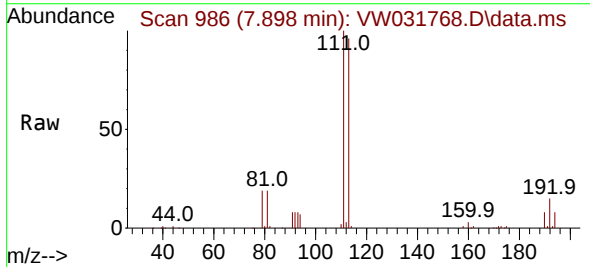
Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

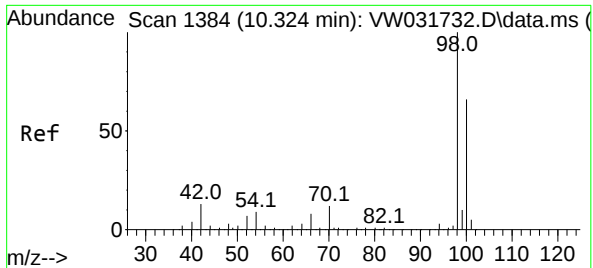
Tgt Ion:114 Resp: 393637
Ion Ratio Lower Upper
114 100
63 21.4 0.0 43.6
88 16.6 0.0 34.2



#35
Dibromofluoromethane
Concen: 46.001 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

Tgt Ion:113 Resp: 118160
Ion Ratio Lower Upper
113 100
111 102.9 82.1 123.1
192 17.3 13.8 20.6

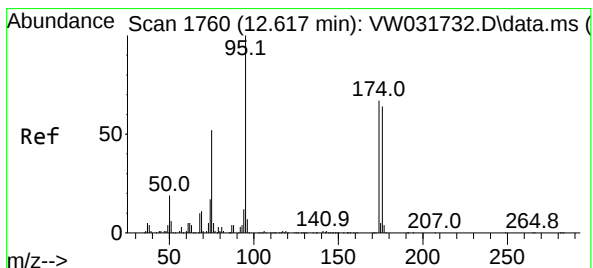
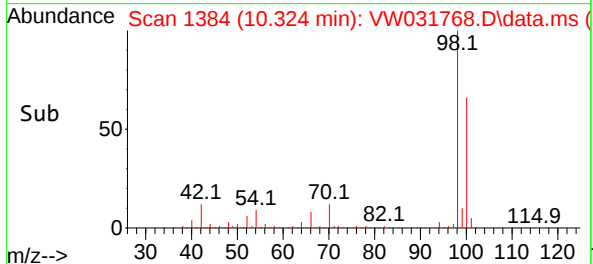
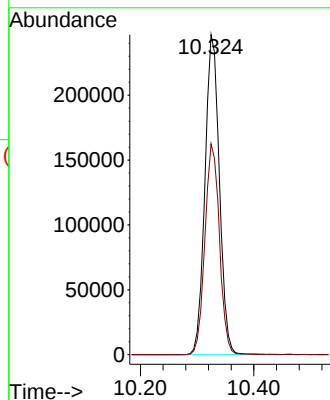
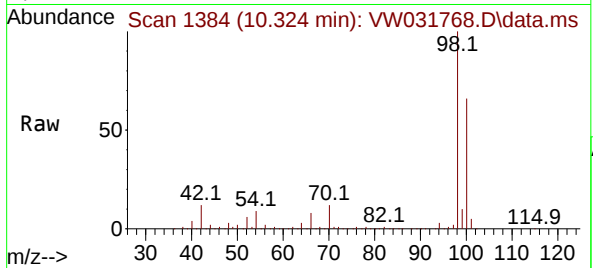




#50
Toluene-d8
Concen: 45.627 ug/l
RT: 10.324 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

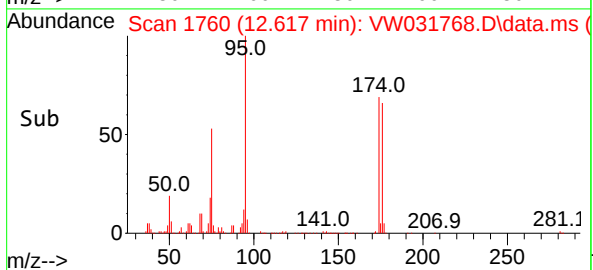
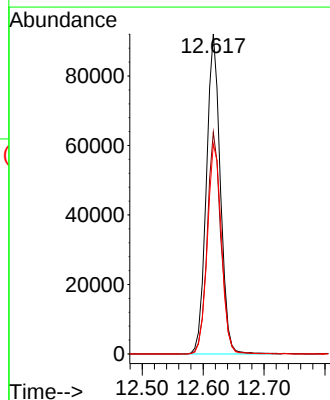
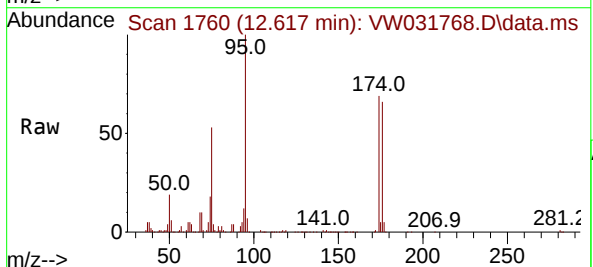
Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

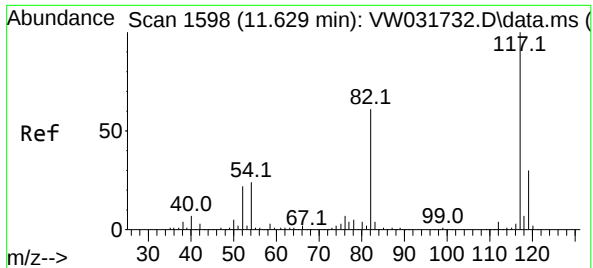
Tgt Ion: 98 Resp: 436151
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 41.818 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

Tgt Ion: 95 Resp: 147105
Ion Ratio Lower Upper
95 100
174 68.1 0.0 133.8
176 66.1 0.0 126.0

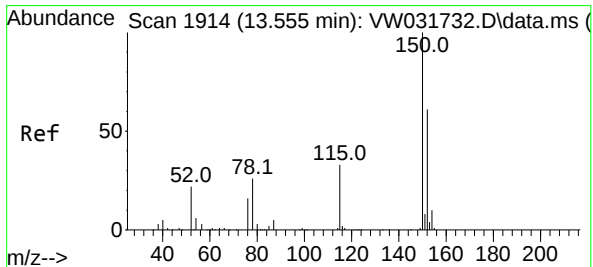
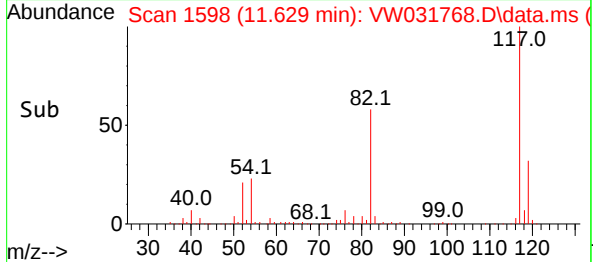
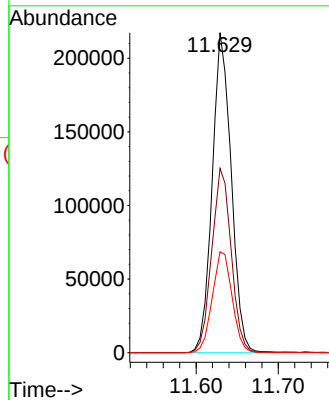
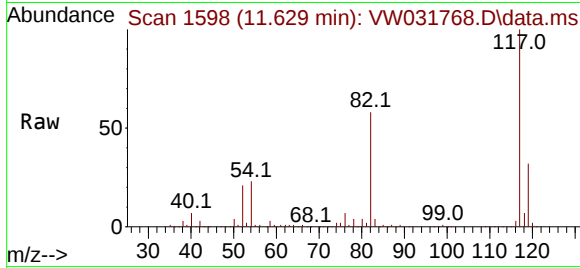




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. 0.000 min
Lab File: VW031768.D
Acq: 09 Jul 2025 10:58

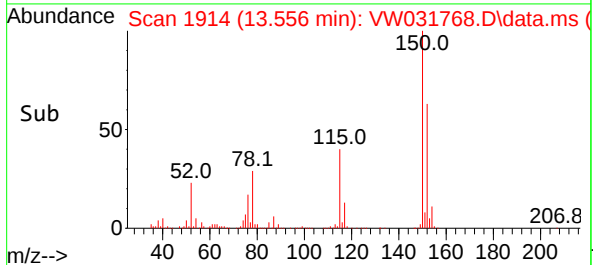
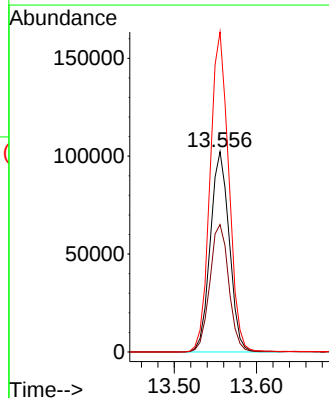
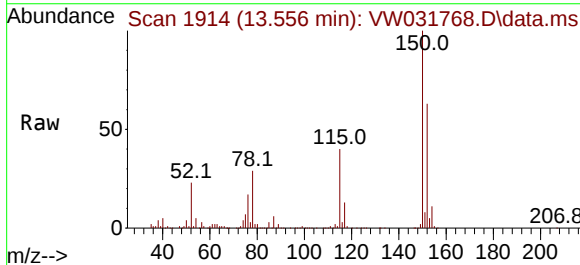
Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.6	48.6	72.8
119	31.6	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: VW031768.D
Acq: 09 Jul 2025 10:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.0	31.9	95.7
150	157.8	0.0	356.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031768.D
 Acq On : 09 Jul 2025 10:58
 Operator : SY/MD
 Sample : VW0709SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0709SBL01

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: VW031768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.947	491	502	519	rBV2	40190	146841	12.50%	2.210%
2	5.965	660	669	681	rVB3	16672	51670	4.40%	0.778%
3	7.898	976	986	991	rBV2	157342	391458	33.31%	5.893%
4	7.959	991	996	1009	rVB2	295509	664141	56.51%	9.997%
5	8.319	1045	1055	1065	rBV	159551	356036	30.30%	5.359%
6	8.849	1133	1142	1161	rBV	478537	955850	81.34%	14.389%
7	10.324	1375	1384	1401	rBV	656276	1175190	100.00%	17.690%
8	11.629	1590	1598	1610	rBV	677404	1121960	95.47%	16.889%
9	12.617	1753	1760	1775	rBV	432078	693052	58.97%	10.433%
10	13.556	1907	1914	1928	rBV	650785	1043653	88.81%	15.710%
11	14.062	1991	1997	2002	rBV2	18525	29478	2.51%	0.444%
12	15.476	2222	2229	2235	rBV	7309	13806	1.17%	0.208%

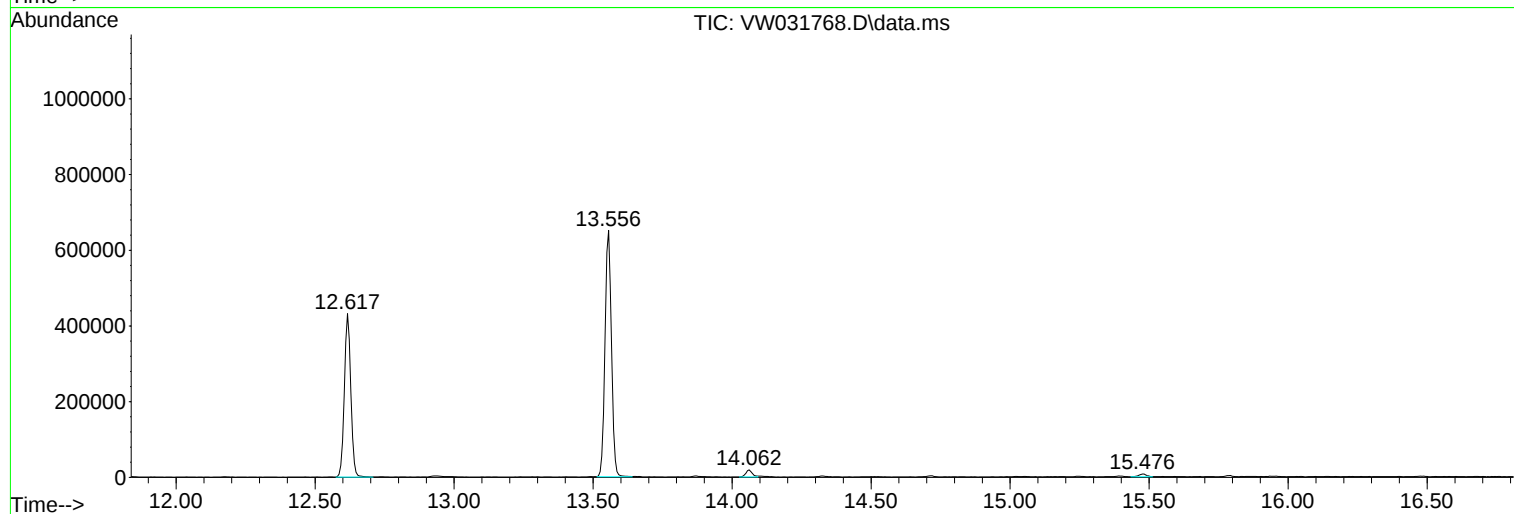
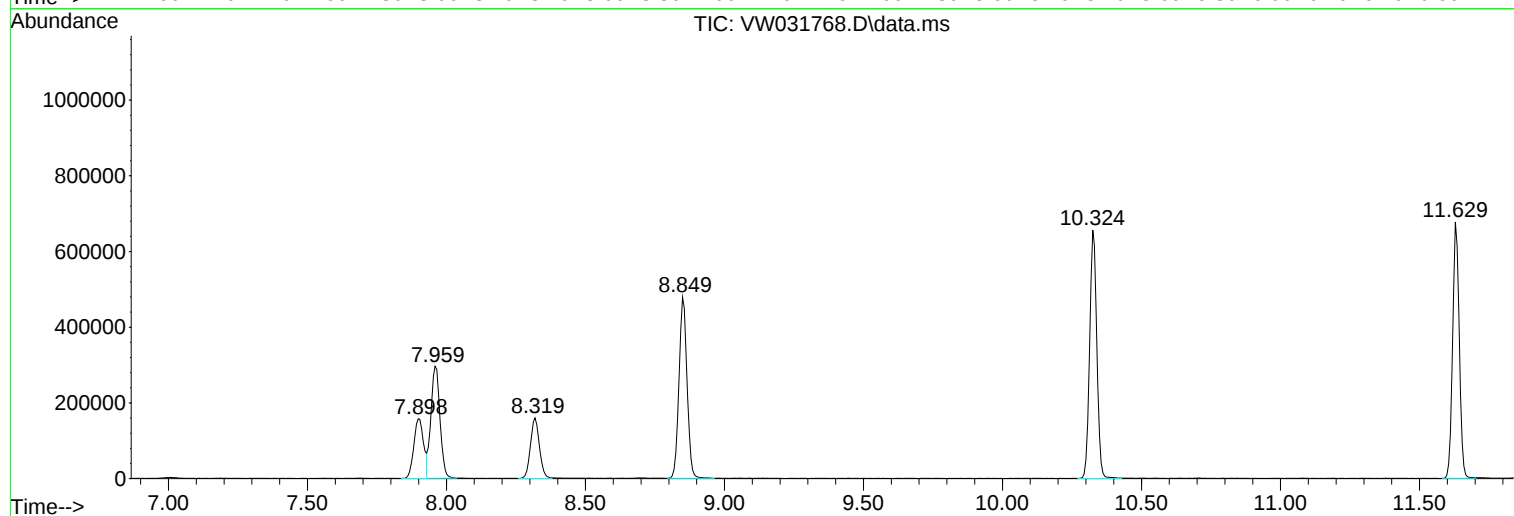
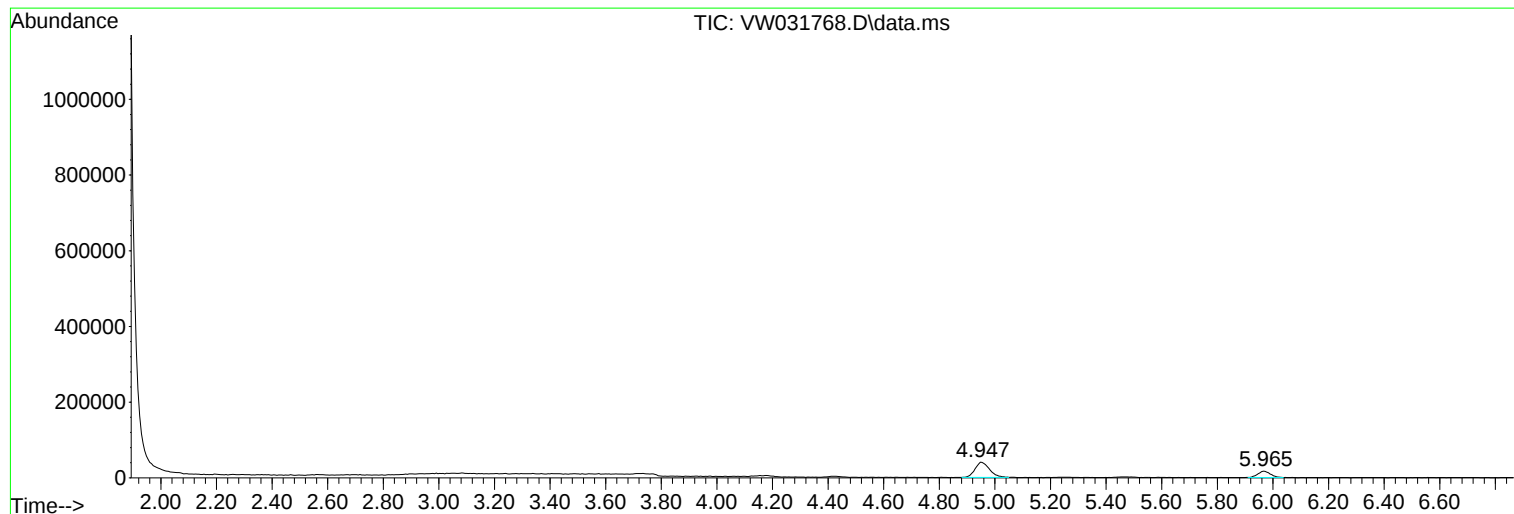
Sum of corrected areas: 6643135

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031768.D
Acq On : 09 Jul 2025 10:58
Operator : SY/MD
Sample : VW0709SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

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\VW070925\
Data File : VW031768.D
Acq On : 09 Jul 2025 10:58
Operator : SY/MD
Sample : VW0709SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031768.D
Acq On : 09 Jul 2025 10:58
Operator : SY/MD
Sample : VW0709SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBL01

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0710SBL01		SDG No.:	Q2529
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			



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.:	Q2529
Lab Sample ID:	VW0710SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

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
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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%

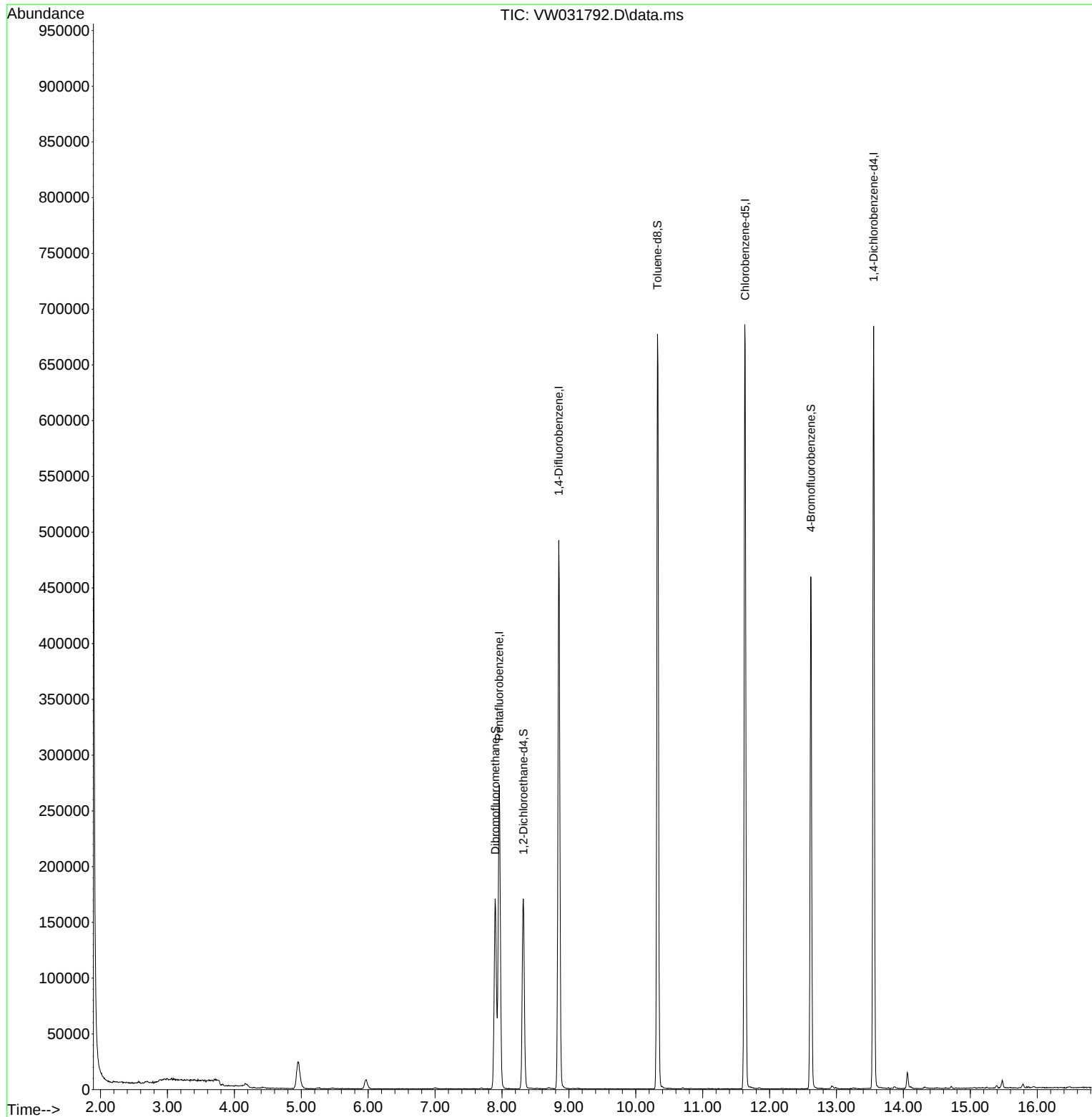
Target Compounds	Qvalue

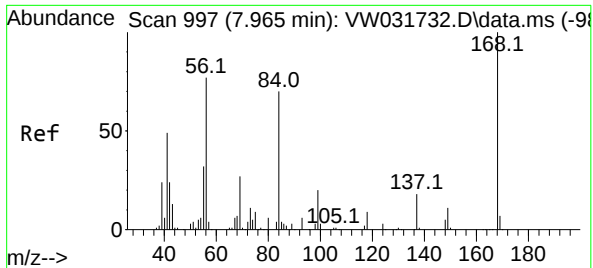
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

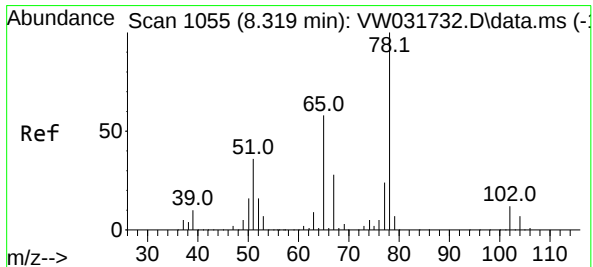
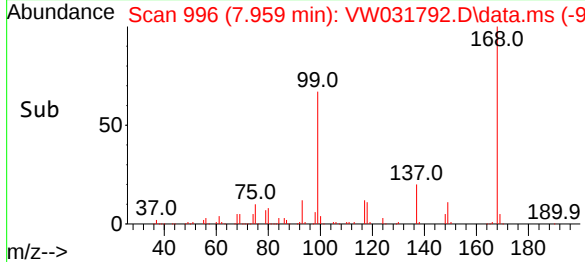
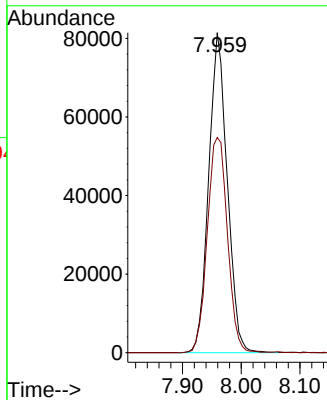
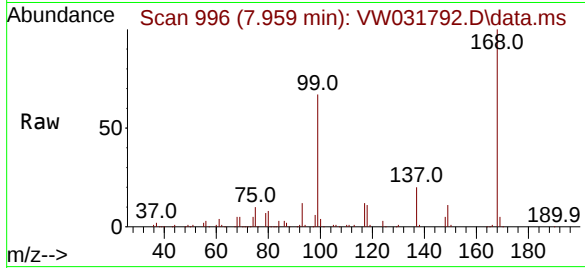




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

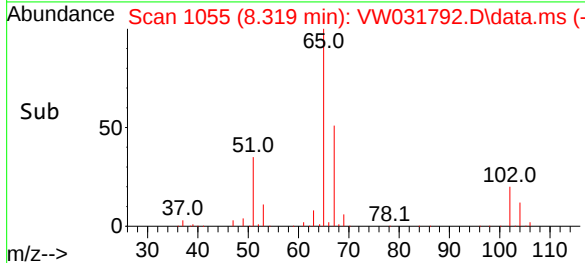
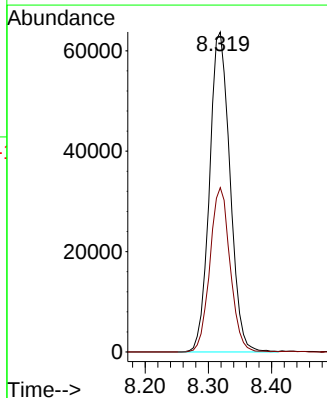
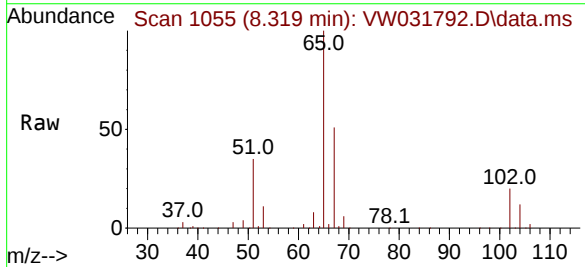
Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

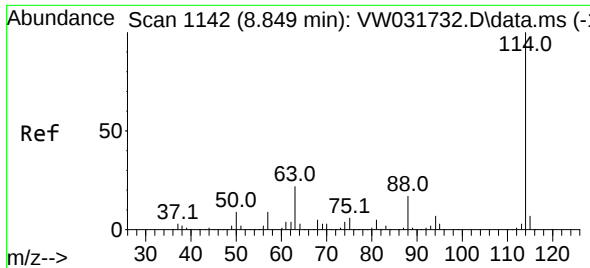
Tgt Ion:168 Resp: 178449
Ion Ratio Lower Upper
168 100
99 67.2 49.4 74.2



#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

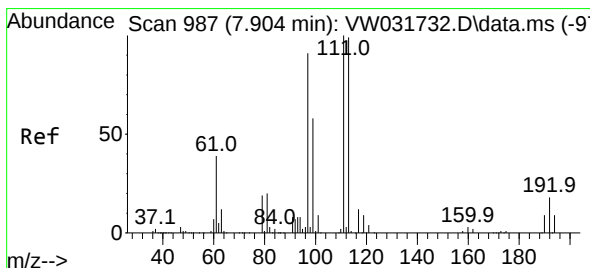
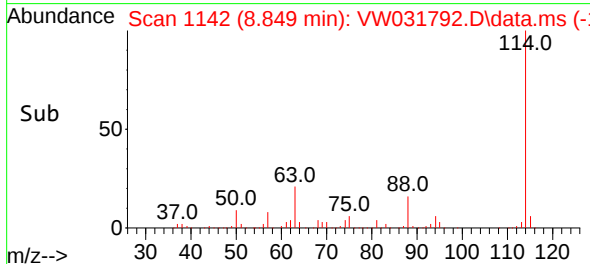
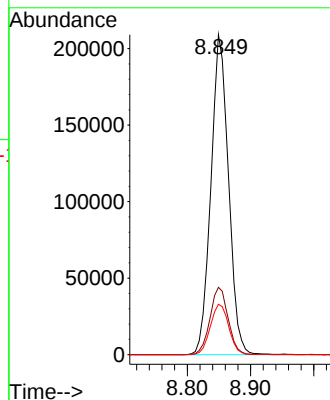
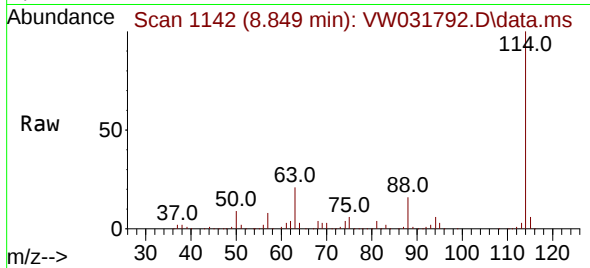




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

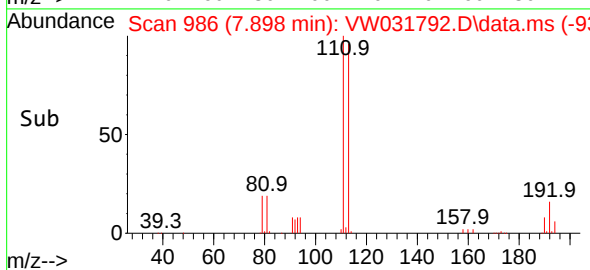
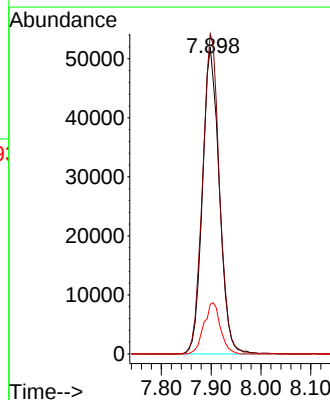
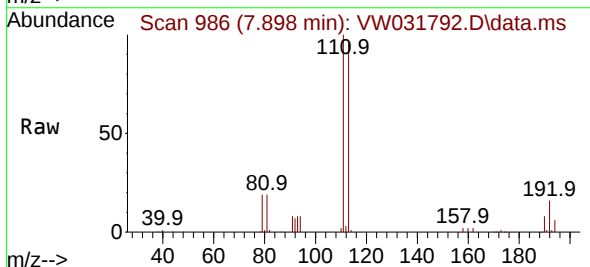
Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

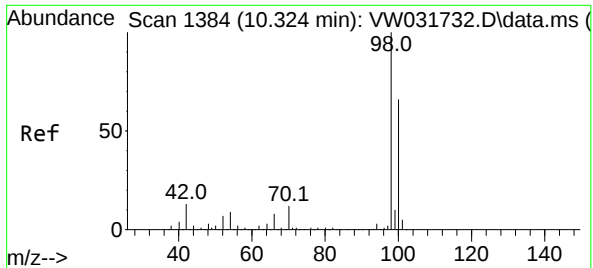
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.6
88	15.7	0.0	34.2



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

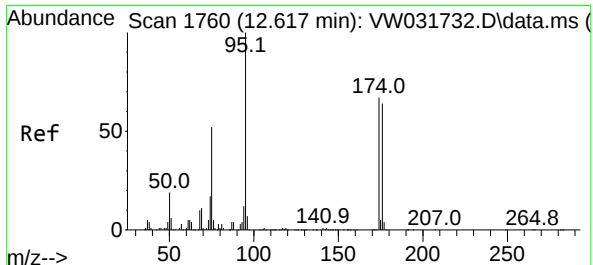
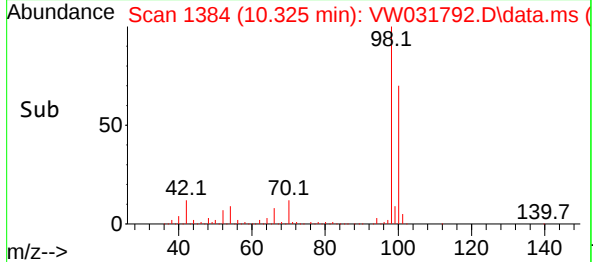
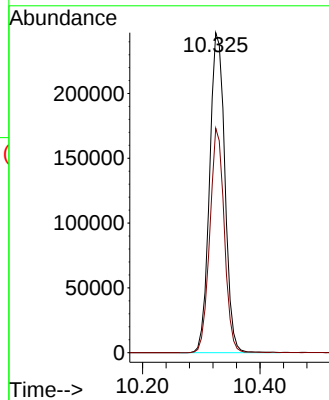
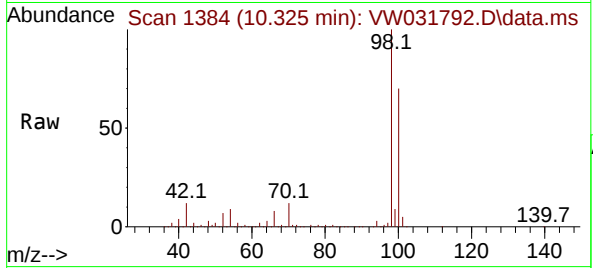




#50
Toluene-d8
Concen: 45.468 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

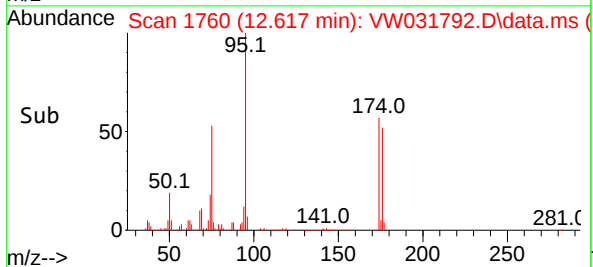
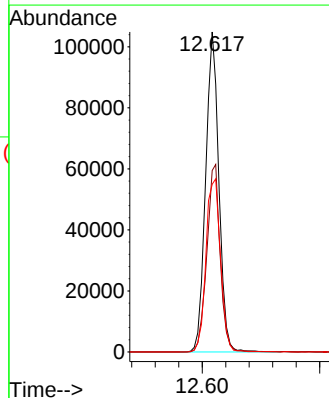
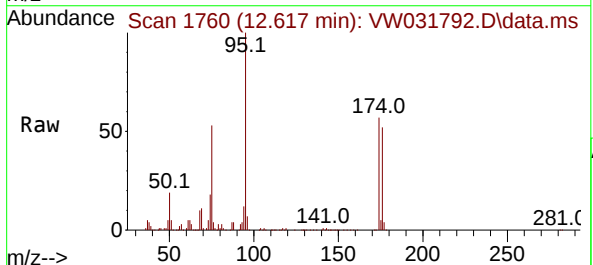
Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

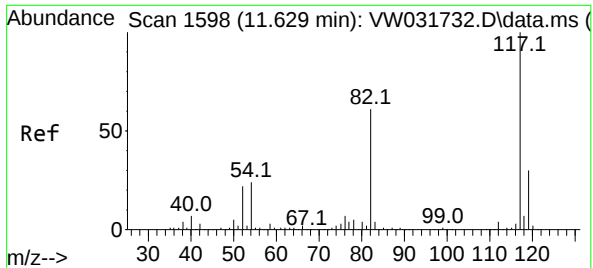
Tgt Ion: 98 Resp: 445433
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#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

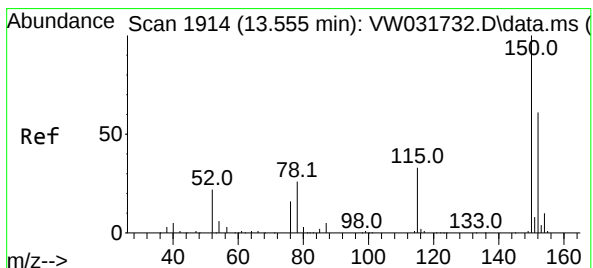
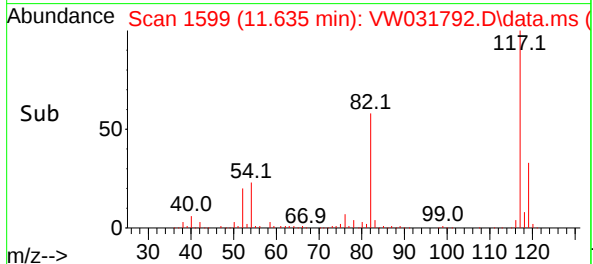
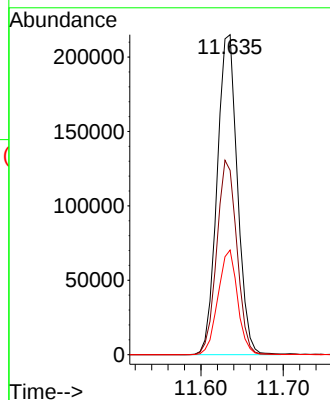
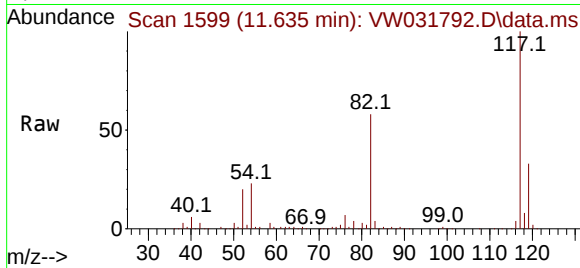




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1159
Delta R.T. 0.006 min
Lab File: VW031792.D
Acq: 10 Jul 2025 10:15

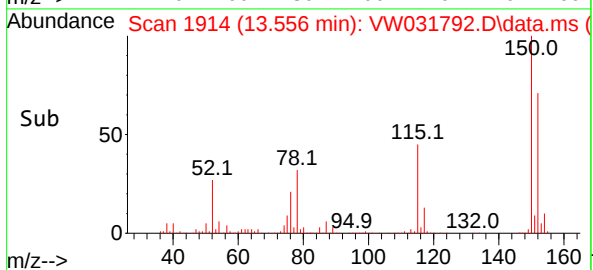
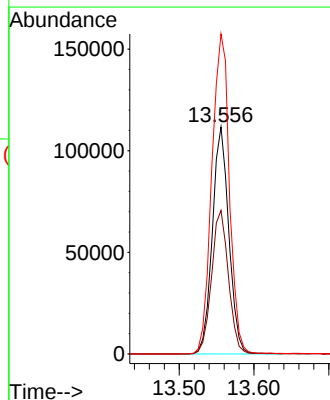
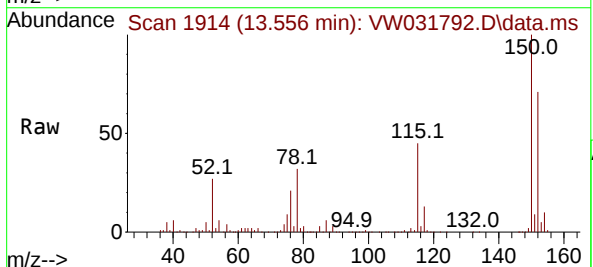
Instrument :
MSVOA_W
ClientSampleId :
VW0710SBL01

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



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

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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%

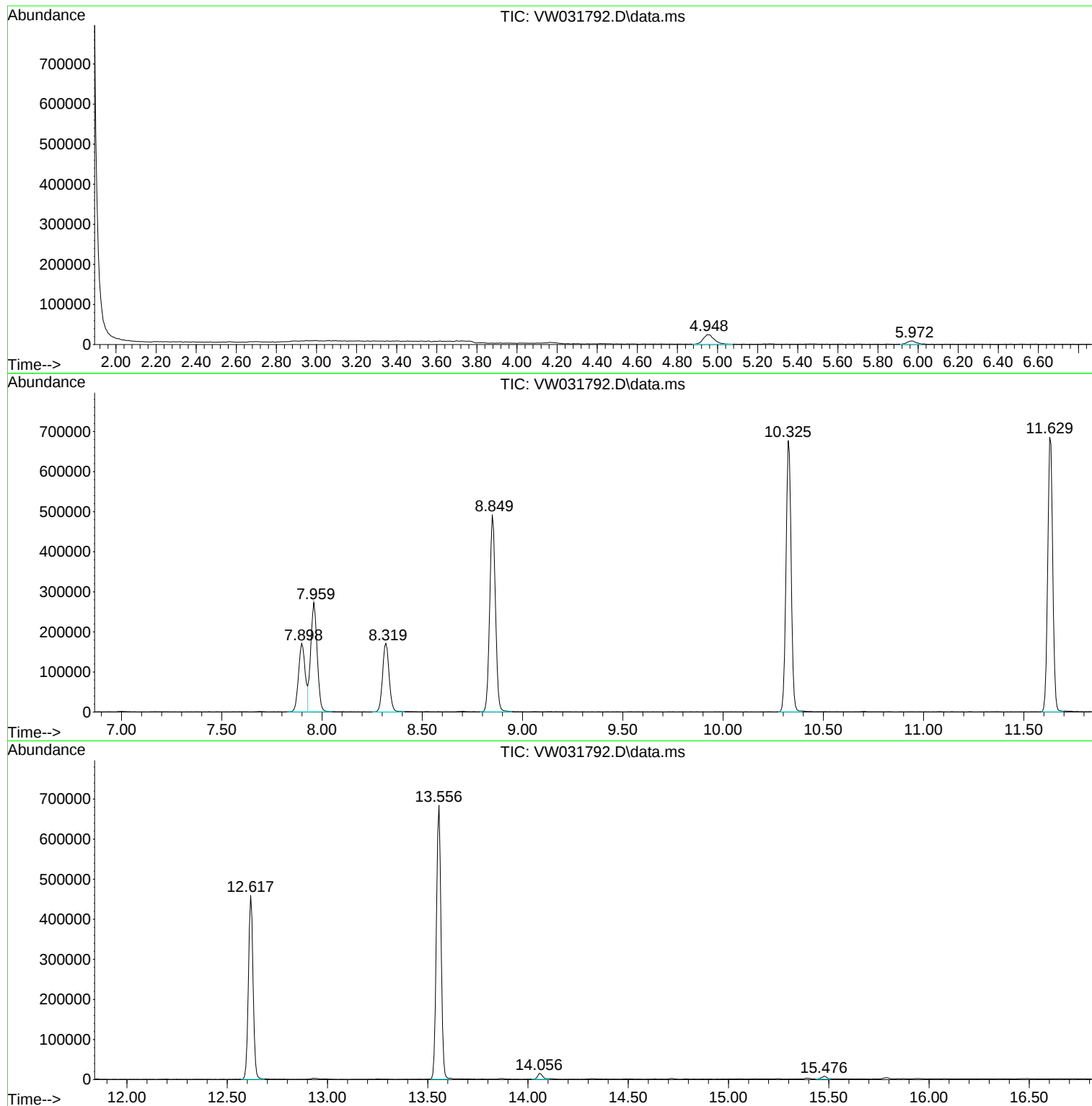
Sum of corrected areas: 6743997

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



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

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\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031769.D	1	07/09/25 11:34	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	23.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	23.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	23.8		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	22.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	24.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	23.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	35.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	24.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	24.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	23.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	130		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	24.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	24.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	24.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	24.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.9		0.91	5.00	ug/Kg
71-43-2	Benzene	23.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	23.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	22.7		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	23.5		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	23.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		3.60	25.0	ug/Kg
108-88-3	Toluene	24.1		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031769.D	1	07/09/25 11:34	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	23.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	23.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	23.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	120		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	23.8		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	23.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	23.8		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	23.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	46.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	23.7		0.82	5.00	ug/Kg
100-42-5	Styrene	23.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	23.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	24.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	23.4		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	24.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	24.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	23.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		63 - 155	117%	SPK: 50
1868-53-7	Dibromofluoromethane	57.7		70 - 134	115%	SPK: 50
2037-26-5	Toluene-d8	58.6		74 - 123	117%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.5		17 - 146	119%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	7.953			
540-36-3	1,4-Difluorobenzene	349000	8.849			
3114-55-4	Chlorobenzene-d5	314000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	152000	13.556			



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:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031769.D	1	07/09/25 11:34	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VW070925\
 Data File : VW031769.D
 Acq On : 09 Jul 2025 11:34
 Operator : SY/MD
 Sample : VW0709SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0709SBS01

Manual Integrations
 APPROVED

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

Quant Time: Jul 10 01:21:57 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	7.953	168	187242	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.849	114	349121	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	314319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	151914	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	157659	58.672	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 117.340%	
35) Dibromofluoromethane	7.898	113	131409	57.682	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 115.360%	
50) Toluene-d8	10.325	98	496546	58.569	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 117.140%	
62) 4-Bromofluorobenzene	12.617	95	185749	59.537	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 119.080%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	30498	23.916	ug/l	96
3) Chloromethane	2.253	50	35978	23.402	ug/l	99
4) Vinyl Chloride	2.405	62	48700	24.101	ug/l	99
5) Bromomethane	2.820	94	36692	23.248	ug/l	95
6) Chloroethane	2.972	64	31812	23.177	ug/l	97
7) Trichlorofluoromethane	3.308	101	38200	20.816	ug/l	96
8) Diethyl Ether	3.716	74	31449	22.553	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.106	101	48613	23.866	ug/l	99
10) Methyl Iodide	4.307	142	75344	23.994	ug/l	99
11) Tert butyl alcohol	5.210	59	18323	110.064	ug/l	100
12) 1,1-Dichloroethene	4.076	96	53098	23.799	ug/l	95
13) Acrolein	3.930	56	29510	98.626	ug/l	99
14) Allyl chloride	4.704	41	82449	24.085	ug/l	98
15) Acrylonitrile	5.399	53	80530	117.436	ug/l	99
16) Acetone	4.161	43	83385	125.546	ug/l	99
17) Carbon Disulfide	4.417	76	135975	22.775	ug/l	96
18) Methyl Acetate	4.704	43	43845	23.098	ug/l	97
19) Methyl tert-butyl Ether	5.454	73	92455	24.415	ug/l	99
20) Methylene Chloride	4.948	84	97436	35.217	ug/l	97
21) trans-1,2-Dichloroethene	5.454	96	57363	24.197	ug/l	94
22) Diisopropyl ether	6.338	45	165350	24.767	ug/l	98
23) Vinyl Acetate	6.283	43	549082	120.408	ug/l	100
24) 1,1-Dichloroethane	6.240	63	104474	24.137	ug/l	98
25) 2-Butanone	7.191	43	110170	127.500	ug/l	98
26) 2,2-Dichloropropane	7.185	77	60170	23.826	ug/l	100
27) cis-1,2-Dichloroethene	7.185	96	67561	24.792	ug/l	96
28) Bromochloromethane	7.533	49	46456	24.322	ug/l	97
29) Tetrahydrofuran	7.551	42	70227	118.678	ug/l	100
30) Chloroform	7.691	83	111822	24.313	ug/l	99
31) Cyclohexane	7.971	56	91035	23.793	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	87206	24.604	ug/l	98
36) 1,1-Dichloropropene	8.093	75	76173	23.106	ug/l	99
37) Ethyl Acetate	7.270	43	46884	22.545	ug/l	100
38) Carbon Tetrachloride	8.081	117	76985	22.917	ug/l	98
39) Methylcyclohexane	9.343	83	93966	22.910	ug/l	98
40) Benzene	8.337	78	232923	23.881	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
 Data File : VW031769.D
 Acq On : 09 Jul 2025 11:34
 Operator : SY/MD
 Sample : VW0709SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0709SBS01

Manual Integrations
 APPROVED

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

Quant Time: Jul 10 01:21:57 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	26974	24.213	ug/l	98
42) 1,2-Dichloroethane	8.410	62	77120	23.401	ug/l	99
43) Isopropyl Acetate	8.435	43	81994	22.873	ug/l	100
44) Trichloroethene	9.105	130	55229	22.687	ug/l	99
45) 1,2-Dichloropropane	9.374	63	55481	23.536	ug/l	99
46) Dibromomethane	9.465	93	35952	23.624	ug/l	99
47) Bromodichloromethane	9.648	83	83273	23.334	ug/l	97
48) Methyl methacrylate	9.441	41	38856	22.044	ug/l	96
49) 1,4-Dioxane	9.459	88	5996	336.398	ug/l #	88
51) 4-Methyl-2-Pentanone	10.209	43	239822	116.368	ug/l	100
52) Toluene	10.392	92	150402	24.085	ug/l	95
53) t-1,3-Dichloropropene	10.605	75	78296	23.383	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	89225	23.506	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	47232	23.693	ug/l	95
56) Ethyl methacrylate	10.648	69	62538	23.123	ug/l	99
57) 1,3-Dichloropropane	10.934	76	82201	23.486	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	176870	118.765	ug/l	98
59) 2-Hexanone	10.971	43	167142	119.682	ug/l	100
60) Dibromochloromethane	11.129	129	53191	22.313	ug/l	98
61) 1,2-Dibromoethane	11.239	107	47574	23.839	ug/l	98
64) Tetrachloroethene	10.861	164	48674	23.674	ug/l	94
65) Chlorobenzene	11.654	112	164803	23.764	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.727	131	51472	23.291	ug/l	99
67) Ethyl Benzene	11.727	91	277629	23.087	ug/l	98
68) m/p-Xylenes	11.837	106	216535	46.841	ug/l	99
69) o-Xylene	12.160	106	101509	23.716	ug/l	95
70) Styrene	12.178	104	177024	23.924	ug/l	99
71) Bromoform	12.349	173	31267	23.717	ug/l #	97
73) Isopropylbenzene	12.458	105	262586	22.724	ug/l	100
74) N-amyl acetate	12.269	43	69133	22.197	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.715	83	59697	23.270	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	45869m	23.365	ug/l	
77) Bromobenzene	12.745	156	60417	23.442	ug/l	89
78) n-propylbenzene	12.800	91	330089	23.855	ug/l	99
79) 2-Chlorotoluene	12.891	91	196008	23.523	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	227770	23.813	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	17996	21.351	ug/l	95
82) 4-Chlorotoluene	12.983	91	203312	23.241	ug/l	99
83) tert-Butylbenzene	13.202	119	192492	23.494	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	226061	23.326	ug/l	99
85) sec-Butylbenzene	13.379	105	292468	23.782	ug/l	100
86) p-Isopropyltoluene	13.495	119	237925	23.475	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	124488	24.086	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	123994	23.438	ug/l	96
89) n-Butylbenzene	13.818	91	226293	22.980	ug/l	100
90) Hexachloroethane	14.086	117	42163	23.059	ug/l	97
91) 1,2-Dichlorobenzene	13.861	146	114797	24.301	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10990	21.940	ug/l	97
93) 1,2,4-Trichlorobenzene	15.123	180	70459	24.185	ug/l	96
94) Hexachlorobutadiene	15.220	225	33007	23.462	ug/l	89
95) Naphthalene	15.360	128	158962	22.256	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	62603	23.386	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031769.D
Acq On : 09 Jul 2025 11:34
Operator : SY/MD
Sample : VW0709SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBS01

Manual Integrations
APPROVED

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

Quant Time: Jul 10 01:21:57 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

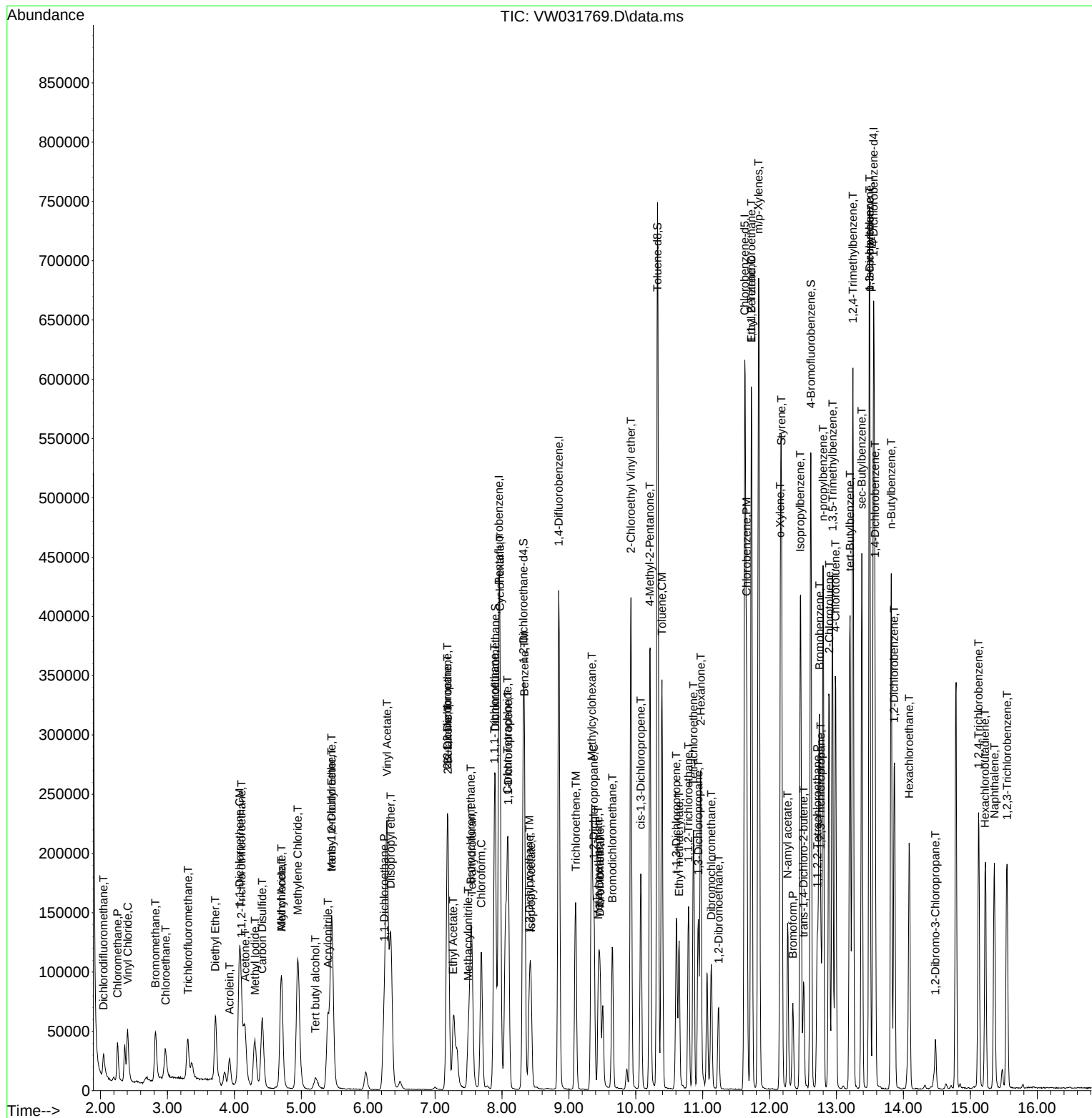
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW070925\
Data File : VW031769.D
Acq On : 09 Jul 2025 11:34
Operator : SY/MD
Sample : VW0709SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0709SBS01

Manual Integrations

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

Quant Time: Jul 10 01:21:57 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



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

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			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2529
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
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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

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0710SBS01

Manual Integrations
 APPROVED

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

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

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

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0710SBS01

Manual Integrations
 APPROVED

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

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

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

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

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations
APPROVED

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

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

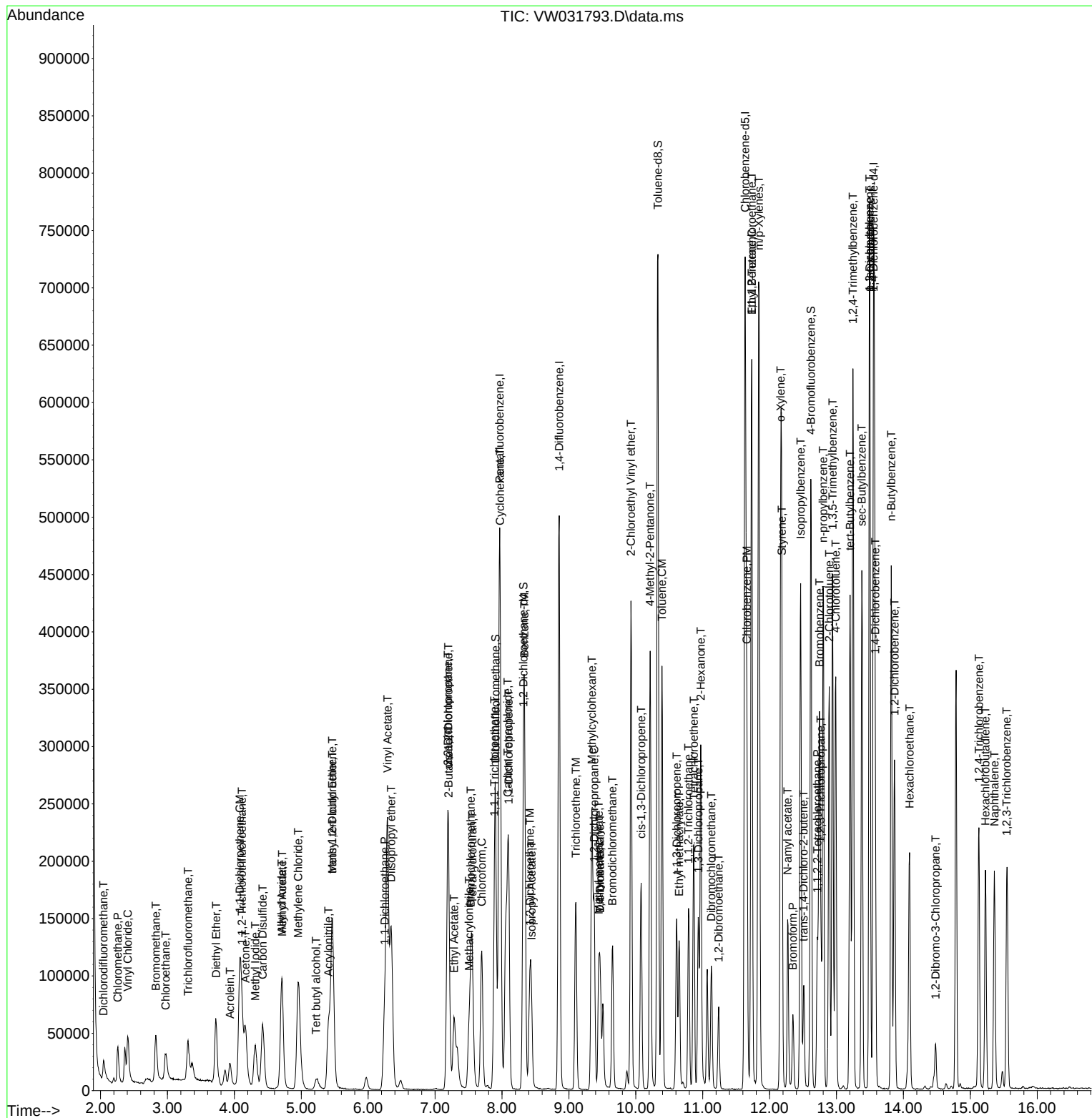
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
Data File : VW031793.D
Acq On : 10 Jul 2025 11:05
Operator : SY/MD
Sample : VW0710SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBS01

Manual Integrations APPROVED

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

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



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0710SBSD01		SDG No.:	Q2529
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			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2529
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
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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 : VW0710SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0710SBS01

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)

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 : VW0710SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0710SBS01

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)
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

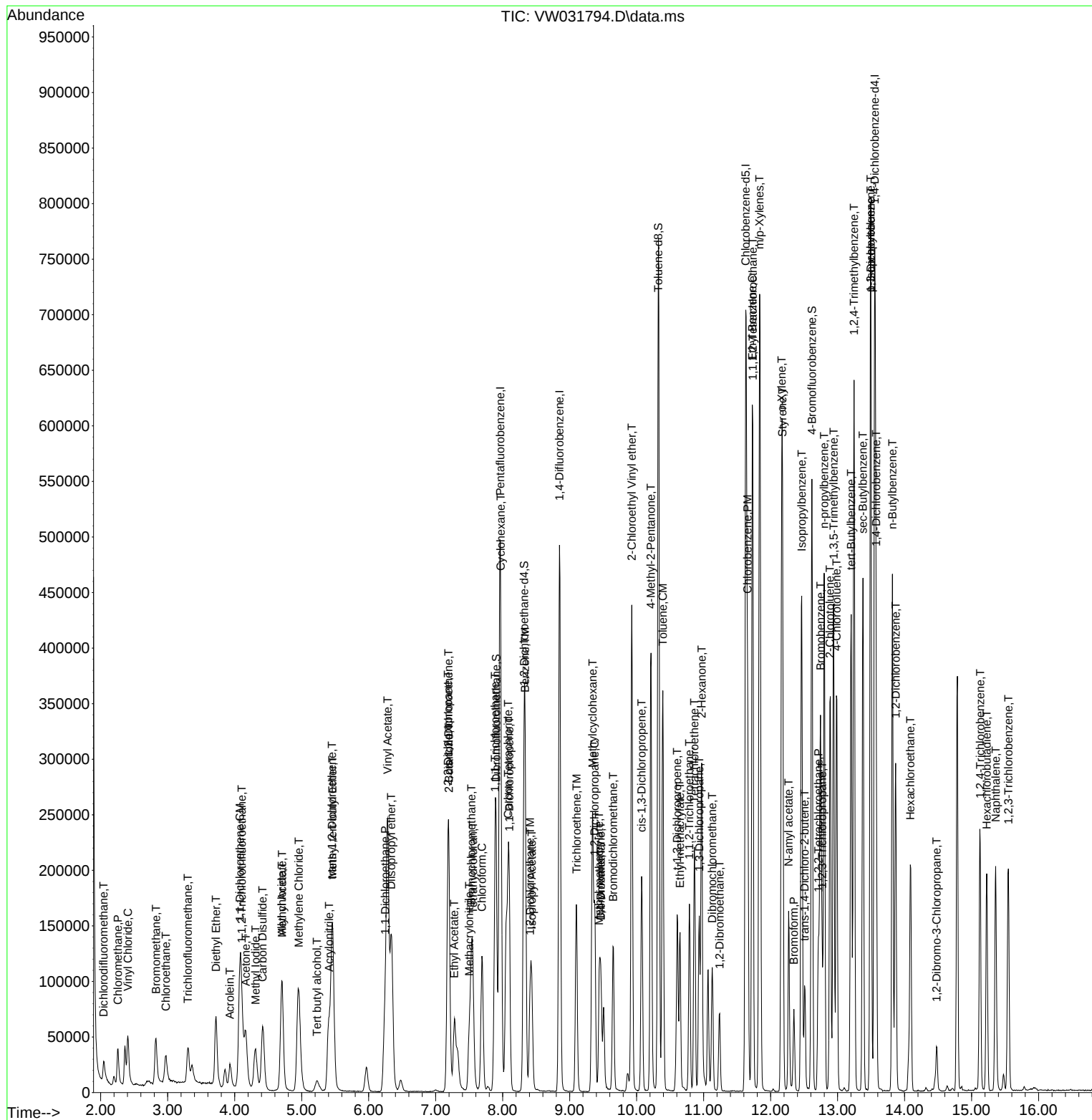
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VW0710SBSD01

Manual Integrations APPROVED

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



Manual Integration Report

Sequence:	VW063025	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VW031729.D	1,2,3-Trichloropropane	MMDadod a	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDIC005	VW031729.D	1,4-Dioxane	MMDadod a	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDIC005	VW031729.D	Acetone	MMDadod a	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDIC005	VW031729.D	Ethyl Acetate	MMDadod a	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDIC005	VW031729.D	Tert butyl alcohol	MMDadod a	7/1/2025 12:21:33 PM	SAM	7/1/2025 12:24:10 PM	Peak Integrated by Software
VSTDIC010	VW031730.D	1,2,3-Trichloropropane	MMDadod a	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDIC010	VW031730.D	1,4-Dioxane	MMDadod a	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDIC010	VW031730.D	Tert butyl alcohol	MMDadod a	7/1/2025 12:21:34 PM	SAM	7/1/2025 12:24:11 PM	Peak Integrated by Software
VSTDIC020	VW031731.D	1,2,3-Trichloropropane	MMDadod a	7/1/2025 12:21:36 PM	SAM	7/1/2025 12:24:13 PM	Peak Integrated by Software
VSTDIC020	VW031731.D	1,4-Dioxane	MMDadod a	7/1/2025 12:21:36 PM	SAM	7/1/2025 12:24:13 PM	Peak Integrated by Software
VSTDIC050	VW031732.D	1,2,3-Trichloropropane	MMDadod a	7/1/2025 12:21:38 PM	SAM	7/1/2025 12:24:15 PM	Peak Integrated by Software
VSTDIC100	VW031733.D	1,2,3-Trichloropropane	MMDadod a	7/1/2025 12:21:40 PM	SAM	7/1/2025 12:24:18 PM	Peak Integrated by Software
VSTDIC150	VW031734.D	1,2,3-Trichloropropane	MMDadod a	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
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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

Manual Integration Report

Sequence:

VW070925

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW031767.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:36:07 AM	Sam	7/14/2025 7:50:38 AM	Peak Integrated by Software
VW0709SBS01	VW031769.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:36:09 AM	Sam	7/14/2025 7:50:40 AM	Peak Integrated by Software
VSTDCCC050	VW031789.D	1,2,3-Trichloropropane	MMDadoda	7/14/2025 7:36:22 AM	Sam	7/14/2025 7:50:50 AM	Peak Integrated by Software

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
Q2529-09	VW031802.D	Acetone	MMDadoda	7/14/2025 7:37:19 AM	Sam	7/14/2025 7:51:38 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

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch 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	VSTDIC005	VW031729.D	30 Jun 2025 09:54	SY/MD	Ok,M
3	VSTDIC010	VW031730.D	30 Jun 2025 10:15	SY/MD	Ok,M
4	VSTDIC020	VW031731.D	30 Jun 2025 10:58	SY/MD	Ok,M
5	VSTDIC050	VW031732.D	30 Jun 2025 11:21	SY/MD	Ok,M
6	VSTDIC100	VW031733.D	30 Jun 2025 12:34	SY/MD	Ok,M
7	VSTDIC150	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

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW070925

Review By	Mahesh Dadoda	Review On	7/14/2025 7:37:29 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:50:58 AM		
SubDirectory	VW070925	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134687			
CCC		VP134688,VP134689			
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	VW031766.D	09 Jul 2025 08:51	SY/MD	Ok
2	VSTDCCC050	VW031767.D	09 Jul 2025 10:00	SY/MD	Ok,M
3	VW0709SBL01	VW031768.D	09 Jul 2025 10:58	SY/MD	Ok
4	VW0709SBS01	VW031769.D	09 Jul 2025 11:34	SY/MD	Ok,M
5	VW0709SBSD01	VW031770.D	09 Jul 2025 11:56	SY/MD	Ok,M
6	VW0709SBS02	VW031771.D	09 Jul 2025 13:29	SY/MD	Not Ok
7	Q2519-03	VW031772.D	09 Jul 2025 13:51	SY/MD	Ok
8	Q2527-01	VW031773.D	09 Jul 2025 14:13	SY/MD	Ok
9	Q2526-04	VW031774.D	09 Jul 2025 14:34	SY/MD	Ok
10	Q2514-06	VW031775.D	09 Jul 2025 14:56	SY/MD	Ok
11	Q2480-06	VW031776.D	09 Jul 2025 15:18	SY/MD	Not Ok
12	Q2480-07	VW031777.D	09 Jul 2025 15:40	SY/MD	Dilution
13	Q2529-01	VW031778.D	09 Jul 2025 16:02	SY/MD	Ok
14	Q2529-02	VW031779.D	09 Jul 2025 16:24	SY/MD	Ok
15	Q2529-03	VW031780.D	09 Jul 2025 16:46	SY/MD	Ok
16	Q2529-04	VW031781.D	09 Jul 2025 17:08	SY/MD	Ok
17	Q2529-05	VW031782.D	09 Jul 2025 17:30	SY/MD	ReRun
18	Q2529-06	VW031783.D	09 Jul 2025 17:52	SY/MD	ReRun
19	Q2529-07	VW031784.D	09 Jul 2025 18:14	SY/MD	ReRun
20	Q2529-08	VW031785.D	09 Jul 2025 18:36	SY/MD	ReRun
21	Q2529-09	VW031786.D	09 Jul 2025 18:57	SY/MD	ReRun

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW070925

Review By	Maresh Dadoda	Review On	7/14/2025 7:37:29 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:50:58 AM		
SubDirectory	VW070925	HP Acquire Method	MSVOA_W	HP Processing Method	82w063025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134687			
CCC		VP134688,VP134689			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2529-10	VW031787.D	09 Jul 2025 19:19	SY/MD	ReRun
23	VIBLK	VW031788.D	09 Jul 2025 20:25	SY/MD	Ok
24	VSTDCCC050	VW031789.D	09 Jul 2025 20:46	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW071025

Review By	Maresh 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 Initial Calibration Stds		VP134704			
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

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW071025

Review By	Maresh 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 Initial Calibration Stds		VP134704			
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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW063025

Review By	Maresh 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#	Sampled	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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW070925

Review By	Mahesh Dadoda	Review On	7/14/2025 7:37:29 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:50:58 AM
SubDirectory	VW070925	HP Acquire Method	MSVOA_W
		HP Processing Method	82w063025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134687
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134688,VP134689 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW031766.D	09 Jul 2025 08:51		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW031767.D	09 Jul 2025 10:00		SY/MD	Ok,M
3	VW0709SBL01	VW0709SBL01	VW031768.D	09 Jul 2025 10:58		SY/MD	Ok
4	VW0709SBS01	VW0709SBS01	VW031769.D	09 Jul 2025 11:34	BS Failed High For Com.#20	SY/MD	Ok,M
5	VW0709SBSD01	VW0709SBSD01	VW031770.D	09 Jul 2025 11:56	BSD Failed High For Comp.#20	SY/MD	Ok,M
6	VW0709SBS02	VW0709SBS02	VW031771.D	09 Jul 2025 13:29	Not Required	SY/MD	Not Ok
7	Q2519-03	TP-15 VOC	VW031772.D	09 Jul 2025 13:51	vial-A	SY/MD	Ok
8	Q2527-01	AR520-0015	VW031773.D	09 Jul 2025 14:13	vial-A	SY/MD	Ok
9	Q2526-04	LAW-25-0102	VW031774.D	09 Jul 2025 14:34	vial-A	SY/MD	Ok
10	Q2514-06	TP-103	VW031775.D	09 Jul 2025 14:56	vial-B	SY/MD	Ok
11	Q2480-06	GPX6	VW031776.D	09 Jul 2025 15:18	Bad purge	SY/MD	Not Ok
12	Q2480-07	GPX7	VW031777.D	09 Jul 2025 15:40	vial-A Surrogate fail;Need MeOH	SY/MD	Dilution
13	Q2529-01	TP-91	VW031778.D	09 Jul 2025 16:02	vial-A	SY/MD	Ok
14	Q2529-02	TP-80	VW031779.D	09 Jul 2025 16:24	vial-A	SY/MD	Ok
15	Q2529-03	TP-79	VW031780.D	09 Jul 2025 16:46	vial-A	SY/MD	Ok
16	Q2529-04	TP-95	VW031781.D	09 Jul 2025 17:08	vial-A	SY/MD	Ok
17	Q2529-05	TP-98	VW031782.D	09 Jul 2025 17:30	vial-A BS,BSD Failed High	SY/MD	ReRun
18	Q2529-06	TP-102	VW031783.D	09 Jul 2025 17:52	vial-A BS,BSD Failed High	SY/MD	ReRun

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW070925

Review By	Maresh Dadoda	Review On	7/14/2025 7:37:29 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/14/2025 7:50:58 AM
SubDirectory	VW070925	HP Acquire Method	MSVOA_W HP Processing Method 82w063025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134687		
CCC	VP134688,VP134689		
Internal Standard/PEM	VP133934		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2529-07	TP-101	VW031784.D	09 Jul 2025 18:14	vial-A BS,BSD Failed High	SY/MD	ReRun
20	Q2529-08	TP-89	VW031785.D	09 Jul 2025 18:36	vial-A BS,BSD Failed High	SY/MD	ReRun
21	Q2529-09	TP-33	VW031786.D	09 Jul 2025 18:57	vial-A BS,BSD Failed High	SY/MD	ReRun
22	Q2529-10	TP-30	VW031787.D	09 Jul 2025 19:19	vial-A BS,BSD Failed High	SY/MD	ReRun
23	VIBLK	VIBLK	VW031788.D	09 Jul 2025 20:25		SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VW031789.D	09 Jul 2025 20:46		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds	VP134704
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134705,VP134706 VP133934

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch 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 Initial Calibration Stds		VP134704			
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: 7/9/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 07/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136392

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
Q2519-01	TP-15	1	1.15	10.19	11.34	9.86	85.5	
Q2519-02	TP-15 EPH	2	1.19	10.75	11.94	10.4	85.7	
Q2519-03	TP-15 VOC	3	1.19	10.57	11.76	10.3	86.2	
Q2521-01	M1A	4	1.00	1.00	2.00	2.00	100.0	PILC
Q2521-02	M1B	5	1.00	1.00	2.00	2.00	100.0	PILC
Q2521-03	M2A	6	1.00	1.00	2.00	2.00	100.0	PILC
Q2521-04	M2B	7	1.00	1.00	2.00	2.00	100.0	PILC
Q2523-01	MOO-25-0190	8	1.15	10.15	11.3	10.95	96.6	
Q2523-02	PAD-070825-1	9	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2523-03	PAD-070825-2	10	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2524-01	OLD RETENTION BASIN 40TH	11	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2526-01	LAW-25-0101	12	1.00	1.00	2.00	2.00	100.0	debris
Q2526-02	LAW-25-0101	13	1.00	1.00	2.00	2.00	100.0	debris
Q2526-03	LAW-25-0102	14	1.15	10.84	11.99	5.76	42.5	
Q2526-04	LAW-25-0102	15	1.15	11.15	12.3	6.73	50.0	
Q2527-01	AR520-0015	16	1.15	10.73	11.88	9.58	78.6	
Q2527-02	AR520-0015	17	1.19	10.03	11.22	10.7	94.8	
Q2527-03	LAW-PAD-070825	18	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2528-01	L4A	19	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-02	L4B	20	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-03	L5A	21	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-04	L5B	22	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-05	L6A	23	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-06	L6B	24	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-07	L7A	25	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-08	L7B	26	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-09	L8A	27	1.00	1.00	2.00	2.00	100.0	PILC
Q2528-10	L8B	28	1.00	1.00	2.00	2.00	100.0	PILC



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/9/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 07/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136392

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
Q2528-11	L9A	29	1.00	1.00	2.00	2.00	100.0	PILC
Q2529-01	TP-91	30	1.18	9.93	11.11	10.21	90.9	
Q2529-02	TP-80	31	1.13	10.34	11.47	10.51	90.7	
Q2529-03	TP-79	32	1.15	10.84	11.99	10.97	90.6	
Q2529-04	TP-95	33	1.14	10.81	11.95	10.19	83.7	
Q2529-05	TP-98	34	1.18	10.80	11.98	10.56	86.9	
Q2529-06	TP-102	35	1.16	10.24	11.4	10.95	95.6	
Q2529-07	TP-101	36	1.18	10.78	11.96	10.85	89.7	
Q2529-08	TP-89	37	1.14	10.39	11.53	10.5	90.1	
Q2529-09	TP-33	38	1.16	10.36	11.52	10.54	90.5	
Q2529-10	TP-30	39	1.17	10.78	11.95	11.02	91.4	

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

WORKLIST(Hardcopy Internal Chain)

131342

WorkList Name : %1-070825

WorkList ID : 190583

Department : Wet-Chemistry

Date : 07-08-2025 09:34:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2519-01	TP-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/08/2025	Chemtech -SO
Q2519-02	TP-15 EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/08/2025	Chemtech -SO
Q2519-03	TP-15 VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/08/2025	Chemtech -SO
Q2521-01	M1A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2521-02	M1B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2521-03	M2A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2521-04	M2B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2523-01	MOO-25-0190	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/08/2025	Chemtech -SO
Q2523-02	PAD-070825-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/08/2025	Chemtech -SO
Q2523-03	PAD-070825-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/08/2025	Chemtech -SO
Q2524-01	OLD RETENTION BASIN 40TH	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/08/2025	Chemtech -SO
Q2526-01	LAW-25-0101	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2526-02	LAW-25-0101	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2526-03	LAW-25-0102	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2526-04	LAW-25-0102	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/08/2025	Chemtech -SO
Q2527-01	AR520-0015	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/08/2025	Chemtech -SO
Q2527-02	AR520-0015	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/08/2025	Chemtech -SO
Q2527-03	LAW-PAD-070825	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/08/2025	Chemtech -SO
Q2528-01	L4A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-02	L4B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-03	L5A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO

Date/Time 07/08/25 15:35

Raw Sample Received by: 886001

Raw Sample Relinquished by: CP SM

Date/Time 07/08/25 17:15

Raw Sample Received by: CP SM

Raw Sample Relinquished by: 2011.011

WORKLIST(Hardcopy Internal Chain)

136392

WorkList Name : %1-070825

WorkList ID : 190583

Department : Wet-Chemistry

Date : 07-08-2025 09:34:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2528-04	L5B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-05	L6A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-06	L6B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-07	L7A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-08	L7B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-09	L8A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-10	L8B	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2528-11	L9A	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2529-01	TP-91	Solid	Percent Solids	Cool 4 deg C	PSEG03	O32	07/08/2025	Chemtech -SO
Q2529-02	TP-80	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/03/2025	Chemtech -SO
Q2529-03	TP-79	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-04	TP-95	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-05	TP-98	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-06	TP-102	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-07	TP-101	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-08	TP-89	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/07/2025	Chemtech -SO
Q2529-09	TP-33	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/08/2025	Chemtech -SO
Q2529-10	TP-30	Solid	Percent Solids	Cool 4 deg C	CAMP02	O11	07/08/2025	Chemtech -SO

Date/Time 07/08/25 15:35

Raw Sample Received by: 88 wec

Raw Sample Relinquished by: OP SM

Date/Time 07/08/25 17:15

Raw Sample Received by: OP SM

Raw Sample Relinquished by: 88 wec



SHIPPING DOCUMENTS

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: ENCINAS.MA@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

ANALYSIS

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) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TCL VOC 2. TCL SVOC 3. TAL METALS 4. PESTICIDES 5. HERBICIDES 6. PCB'S 7. DRUGS 8. GRO

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	TP-91	S	X		7/3/25	1335	6	X	X	X	X	X	X	X			E	
2.	TP-80	S	X		7/7/25	0830	6	X	X	X	X	X	X	X			E	
3.	TP-79	S	X		7/7/25	0930	6	X	X	X	X	X	X	X			E	
4.	TP-95	S	X		7/7/25	1025	6	X	X	X	X	X	X	X			E	
5.	TP-98	S	X		7/7/25	1100	6	X	X	X	X	X	X	X			E	
6.	TP-102	S	X		7/7/25	1200	6	X	X	X	X	X	X	X			E	
7.	TP-101	S	X		7/7/25	1505	6	X	X	X	X	X	X	X			E	
8.	TP-89	S	X		7/8/25	0810	6	X	X	X	X	X	X	X			E	
9.	TP-33	S	X		7/8/25	1015	6	X	X	X	X	X	X	X			E	
10.	TP-30	S	X		7/8/25	1145	6	X	X	X	X	X	X	X			E	

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

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 7/8/25/1422	RECEIVED BY: 1. [Signature] 1422	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 7825	RECEIVED BY: 3.	Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2529 CAMP02

Order Date : 7/8/2025 3:36:00 PM

Project Mgr :

Client Name : CDM Smith

Project Name : South River WM Replacem

Report Type : Level 2 *MR*

Client Contact : Marcie Ann Encinas

Receive DateTime : 7/8/2025 3:30:00 PM

EDD Type : EXCEL NOCLEANUP

Invoice Name : CDM Smith

Purchase Order :

Hard Copy Date :

Invoice Contact : Marcie Ann Encinas

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2529-01	TP-91	Solid	07/03/2025	13:35	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-02	TP-80	Solid	07/07/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-03	TP-79	Solid	07/07/2025	09:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-04	TP-95	Solid	07/07/2025	10:25	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-05	TP-98	Solid	07/07/2025	11:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-06	TP-102	Solid	07/07/2025	12:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-07	TP-101	Solid	07/07/2025	15:05	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-08	TP-89	Solid	07/08/2025	08:10					



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2529 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/8/2025 3:36:00 PM
Project Name : South River WM Replacem
Receive DateTime : 7/8/2025 3:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2 *2.4*
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
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-09	TP-33	Solid	07/08/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-10	TP-30	Solid	07/08/2025	11:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By: *[Signature]*

Date / Time :

7-8-25 1615

Received By :

Date / Time :

JC
7/8/25 1615

Storage Area : VOA Refridgerator Room