

Cover Page

Order ID : Q2032

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2032-01
Q2032-02
Q2032-03
Q2032-04
Q2032-05
Q2032-06
Q2032-07
Q2032-08
Q2032-09
Q2032-11
Q2032-12

Client Sample Number

TP-11
TP-29
TP-29-99
TP-24
Q2032-04MS
Q2032-04MSD
TP-37
TP-32
COMP-1
FB-05132025
TB

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: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2032

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: PRADIP PRAJAPATI

Date: 05/23/2025

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/20/25	05/13/25
Q2032-01ME	TP-11ME	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/21/25	05/13/25
Q2032-02	TP-29	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/20/25	05/13/25
Q2032-03	TP-29-99	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-04	TP-24	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-07	TP-37	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-08	TP-32	SOIL	VOC-TCLVOA-10	8260D	05/13/25		05/16/25	05/13/25
Q2032-09	COMP-1	TCLP	TCLP VOA	8260D	05/13/25		05/15/25	05/13/25
Q2032-11	FB-05132025	Water	VOC-TCLVOA-10	8260-Low	05/13/25		05/15/25	05/13/25
Q2032-12	TB	Water	VOC-TCLVOA-10	8260-Low	05/13/25		05/15/25	05/13/25

Hit Summary Sheet
SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-11							
Q2032-01	TP-11	SOIL	Cyclohexane	42.1		0.84	5.30	ug/Kg
Q2032-01	TP-11	SOIL	Methylcyclohexane	210	E	0.97	5.30	ug/Kg
			Total Voc :			252		
Q2032-01	TP-11	SOIL	unknown14.858	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Pentane, 3-methyl-	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 110	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Pentane, 2,3-dimethyl-	* 130	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Heptane, 4-methyl-	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Cyclopentane, 1,2-dimethyl-, ci	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1-methyl-2-(2-propen	* 110	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 150	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Cyclopentane, 1,3-dimethyl-	* 140	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	Benzene, 1-methyl-4-(1-methyl	* 120	J	0	0	ug/Kg
Q2032-01	TP-11	SOIL	n-Butylbenzene	* 6.60	J	1.50	5.30	ug/Kg
			Total Tics :			1290		
			Total Concentration:			1540		
Client ID:	TP-11ME							
Q2032-01ME	TP-11ME	SOIL	Methylcyclohexane	310	JD	86.6	480	ug/Kg
			Total Voc :			310		
			Total Concentration:			310		
Client ID:	TP-24							
Q2032-04	TP-24	SOIL	Acetone	34.9		5.00	26.4	ug/Kg
			Total Voc :			34.9		
Q2032-04	TP-24	SOIL	Butane, 2-methyl-	* 5.80	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Butane	* 7.10	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Pentane	* 5.70	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	n-Hexane	* 11.9	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Heptane	* 9.50	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Hexane, 3-methyl-	* 11.2	J	0	0	ug/Kg
Q2032-04	TP-24	SOIL	Heptane, 3-methyl-	* 6.40	J	0	0	ug/Kg
			Total Tics :			57.6		
			Total Concentration:			92.5		
Client ID:	TP-37							
Q2032-07	TP-37	SOIL	Acetone	25.2		3.50	18.6	ug/Kg
Q2032-07	TP-37	SOIL	2-Butanone	4.90	J	4.90	18.6	ug/Kg
			Total Voc :			30.1		
			Total Concentration:			30.1		

Hit Summary Sheet
SW-846

SDG No.: Q2032

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

Surrogate Summary

SDG No.: **Q2032**

Client: **CDM Smith**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2032-01	TP-11	1,2-Dichloroethane-d4	50	49.2	98	63	155
		Dibromofluoromethane	50	51.3	103	70	134
		Toluene-d8	50	62.4	125 *	74	123
		4-Bromofluorobenzene	50	56.0	112	38	136
Q2032-01ME	TP-11ME	1,2-Dichloroethane-d4	50	43.6	87	63	155
		Dibromofluoromethane	50	49.1	98	70	134
		Toluene-d8	50	51.6	103	74	123
		4-Bromofluorobenzene	50	49.2	98	38	136
Q2032-02	TP-29	1,2-Dichloroethane-d4	50	48.7	97	63	155
		Dibromofluoromethane	50	49.4	99	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	46.2	92	38	136
Q2032-03	TP-29-99	1,2-Dichloroethane-d4	50	50.2	100	63	155
		Dibromofluoromethane	50	50.6	101	70	134
		Toluene-d8	50	49.4	99	74	123
		4-Bromofluorobenzene	50	40.9	82	38	136
Q2032-04	TP-24	1,2-Dichloroethane-d4	50	51.9	104	63	155
		Dibromofluoromethane	50	51.2	102	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	43.4	87	38	136
Q2032-05MS	TP-24MS	1,2-Dichloroethane-d4	50	66.5	133	63	155
		Dibromofluoromethane	50	60.6	121	70	134
		Toluene-d8	50	59.2	118	74	123
		4-Bromofluorobenzene	50	57.0	114	38	136
Q2032-06MSD	TP-24MSD	1,2-Dichloroethane-d4	50	47.0	94	63	155
		Dibromofluoromethane	50	50.5	101	70	134
		Toluene-d8	50	52.1	104	74	123
		4-Bromofluorobenzene	50	41.9	84	38	136
Q2032-07	TP-37	1,2-Dichloroethane-d4	50	50.4	101	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	40.5	81	38	136
Q2032-08	TP-32	1,2-Dichloroethane-d4	50	48.8	98	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	38.8	78	38	136
VN0521MBL01	VN0521MBL01	1,2-Dichloroethane-d4	50	52.5	105	63	155
		Dibromofluoromethane	50	53.1	106	70	134
		Toluene-d8	50	52.0	104	74	123
		4-Bromofluorobenzene	50	51.3	103	38	136
VN0521MBS01	VN0521MBS01	1,2-Dichloroethane-d4	50	51.7	103	63	155
		Dibromofluoromethane	50	52.5	105	70	134
		Toluene-d8	50	52.3	105	74	123
		4-Bromofluorobenzene	50	50.0	100	38	136
VY0516SBL01	VY0516SBL01	1,2-Dichloroethane-d4	50	43.9	88	63	155
		Dibromofluoromethane	50	48.0	96	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	48.5	97	38	136
VY0516SBS01	VY0516SBS01	1,2-Dichloroethane-d4	50	51.1	102	63	155
		Dibromofluoromethane	50	50.8	102	70	134

Surrogate Summary

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VY0516SBS01	VY0516SBS01	Toluene-d8	50	50.9	102	74	123
		4-Bromofluorobenzene	50	49.4	99	38	136
VY0520SBL01	VY0520SBL01	1,2-Dichloroethane-d4	50	45.7	91	63	155
		Dibromofluoromethane	50	48.4	97	70	134
		Toluene-d8	50	48.6	97	74	123
		4-Bromofluorobenzene	50	52.5	105	38	136
VY0520SBS01	VY0520SBS01	1,2-Dichloroethane-d4	50	52.8	106	63	155
		Dibromofluoromethane	50	52.0	104	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	47.7	95	38	136

Surrogate Summary

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2032-11	FB-05132025	1,2-Dichloroethane-d4	50	54.8	110	74	125
		Dibromofluoromethane	50	52.9	106	75	124
		Toluene-d8	50	50.8	102	86	113
		4-Bromofluorobenzene	50	49.4	99	77	121
Q2032-12	TB	1,2-Dichloroethane-d4	50	55.0	110	74	125
		Dibromofluoromethane	50	51.7	103	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	49.3	99	77	121
VX0515WBL01	VX0515WBL01	1,2-Dichloroethane-d4	50	54.2	108	74	125
		Dibromofluoromethane	50	51.5	103	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	49.0	98	77	121
VX0515WBS01	VX0515WBS01	1,2-Dichloroethane-d4	50	50.7	101	74	125
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	49.7	99	86	113
		4-Bromofluorobenzene	50	48.9	98	77	121
VX0515WBSD0	VX0515WBSD01	1,2-Dichloroethane-d4	50	49.4	99	74	125
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	48.5	97	86	113
		4-Bromofluorobenzene	50	47.9	96	77	121

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

					Rec			RPD		Limits	
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID :	Q2032-05MS	Client Sample ID :	TP-24MS					Datafile :	VY022348.D		
Dichlorodifluoromethane	53.9	0	57.1	ug/Kg	106				40	150	
Chloromethane	53.9	0	48.6	ug/Kg	90				24	175	
Vinyl chloride	53.9	0	62.4	ug/Kg	116				21	175	
Bromomethane	53.9	0	60.4	ug/Kg	112				46	150	
Chloroethane	53.9	0	69.2	ug/Kg	128				30	175	
Trichlorofluoromethane	53.9	0	59.5	ug/Kg	110				53	150	
1,1,2-Trichlorotrifluoroethane	53.9	0	59.9	ug/Kg	111				60	135	
1,1-Dichloroethene	53.9	0	57.7	ug/Kg	107				63	136	
Acetone	270	0	450	ug/Kg	167				41	175	
Carbon disulfide	53.9	0	54.6	ug/Kg	101				45	126	
Methyl tert-butyl Ether	53.9	0	61.7	ug/Kg	114				56	175	
Methyl Acetate	53.9	0	90.7	ug/Kg	168				32	175	
Methylene Chloride	53.9	0	52.5	ug/Kg	97				59	175	
trans-1,2-Dichloroethene	53.9	0	55.5	ug/Kg	103				63	137	
1,1-Dichloroethane	53.9	0	54.3	ug/Kg	101				62	154	
Cyclohexane	53.9	0	51.5	ug/Kg	96				41	131	
2-Butanone	270	0	320	ug/Kg	119				48	174	
Carbon Tetrachloride	53.9	0	53.0	ug/Kg	98				48	149	
cis-1,2-Dichloroethene	53.9	0	55.9	ug/Kg	104				59	153	
Bromochloromethane	53.9	0	56.3	ug/Kg	104				54	172	
Chloroform	53.9	0	56.5	ug/Kg	105				60	159	
1,1,1-Trichloroethane	53.9	0	56.0	ug/Kg	104				60	149	
Methylcyclohexane	53.9	0	53.8	ug/Kg	100				19	135	
Benzene	53.9	0	52.4	ug/Kg	97				59	140	
1,2-Dichloroethane	53.9	0	57.5	ug/Kg	107				63	153	
Trichloroethene	53.9	0	53.7	ug/Kg	100				45	154	
1,2-Dichloropropane	53.9	0	52.7	ug/Kg	98				67	141	
Bromodichloromethane	53.9	0	55.0	ug/Kg	102				54	160	
4-Methyl-2-Pentanone	270	0	300	ug/Kg	111				54	164	
Toluene	53.9	0	52.1	ug/Kg	97				61	134	
t-1,3-Dichloropropene	53.9	0	53.8	ug/Kg	100				47	155	
cis-1,3-Dichloropropene	53.9	0	52.5	ug/Kg	97				56	141	
1,1,2-Trichloroethane	53.9	0	61.0	ug/Kg	113				69	148	
2-Hexanone	270	0	290	ug/Kg	107				43	164	
Dibromochloromethane	53.9	0	57.2	ug/Kg	106				65	143	
1,2-Dibromoethane	53.9	0	61.7	ug/Kg	114				63	144	
Tetrachloroethene	53.9	0	51.0	ug/Kg	95				27	175	
Chlorobenzene	53.9	0	48.5	ug/Kg	90				66	127	
Ethyl Benzene	53.9	0	47.9	ug/Kg	89				54	134	
m/p-Xylenes	110	0	95.8	ug/Kg	87				51	137	
o-Xylene	53.9	0	47.9	ug/Kg	89				57	139	
Styrene	53.9	0	47.4	ug/Kg	88				47	136	
Bromoform	53.9	0	54.0	ug/Kg	100				64	144	
Isopropylbenzene	53.9	0	48.3	ug/Kg	90				44	160	
1,1,2,2-Tetrachloroethane	53.9	0	57.4	ug/Kg	106				18	175	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	53.9	0	45.0	ug/Kg	83				55	131	
1,4-Dichlorobenzene	53.9	0	45.8	ug/Kg	85				57	129	
1,2-Dichlorobenzene	53.9	0	48.0	ug/Kg	89				54	140	
1,2-Dibromo-3-Chloropropane	53.9	0	57.0	ug/Kg	106				46	175	
1,2,4-Trichlorobenzene	53.9	0	40.4	ug/Kg	75				12	127	
1,2,3-Trichlorobenzene	53.9	0	42.3	ug/Kg	78				10	160	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Limits											
Parameter	Spike	Sample	Result	Units	Rec		RPD		Low	High	RPD
		Result			Qual	RPD	Qual				
Lab Sample ID :	Q2032-06MSD	Client Sample ID :	TP-24MSD					Datafile :	VY022349.D		
Dichlorodifluoromethane	54.1	0	67.9	ug/Kg	126		17		40	150	20
Chloromethane	54.1	0	45.9	ug/Kg	85		6		24	175	20
Vinyl chloride	54.1	0	72.2	ug/Kg	133		14		21	175	20
Bromomethane	54.1	0	40.4	ug/Kg	75		40	*	46	150	20
Chloroethane	54.1	0	68.0	ug/Kg	126		2		30	175	20
Trichlorofluoromethane	54.1	0	57.0	ug/Kg	105		5		53	150	20
1,1,2-Trichlorotrifluoroethane	54.1	0	80.3	ug/Kg	148	*	29	*	60	135	20
1,1-Dichloroethene	54.1	0	68.0	ug/Kg	126		16		63	136	20
Acetone	270	0	500	ug/Kg	185	*	11		41	175	20
Carbon disulfide	54.1	0	57.7	ug/Kg	107		5		45	126	20
Methyl tert-butyl Ether	54.1	0	47.0	ug/Kg	87		27	*	56	175	20
Methyl Acetate	54.1	0	120	ug/Kg	222	*	27	*	32	175	20
Methylene Chloride	54.1	0	40.2	ug/Kg	74		27	*	59	175	20
trans-1,2-Dichloroethene	54.1	0	52.0	ug/Kg	96		7		63	137	20
1,1-Dichloroethane	54.1	0	46.5	ug/Kg	86		16		62	154	20
Cyclohexane	54.1	0	66.4	ug/Kg	123		25	*	41	131	20
2-Butanone	270	0	330	ug/Kg	122		3		48	174	20
Carbon Tetrachloride	54.1	0	76.2	ug/Kg	141		36	*	48	149	20
cis-1,2-Dichloroethene	54.1	0	45.5	ug/Kg	84		21	*	59	153	20
Bromochloromethane	54.1	0	45.9	ug/Kg	85		21	*	54	172	20
Chloroform	54.1	0	44.4	ug/Kg	82		24	*	60	159	20
1,1,1-Trichloroethane	54.1	0	60.7	ug/Kg	112		8		60	149	20
Methylcyclohexane	54.1	0	81.2	ug/Kg	150	*	40	*	19	135	20
Benzene	54.1	0	53.7	ug/Kg	99		2		59	140	20
1,2-Dichloroethane	54.1	0	51.3	ug/Kg	95		12		63	153	20
Trichloroethene	54.1	0	61.5	ug/Kg	114		13		45	154	20
1,2-Dichloropropane	54.1	0	49.9	ug/Kg	92		6		67	141	20
Bromodichloromethane	54.1	0	48.3	ug/Kg	89		13		54	160	20
4-Methyl-2-Pentanone	270	0	320	ug/Kg	119		6		54	164	20
Toluene	54.1	0	49.3	ug/Kg	91		6		61	134	20
t-1,3-Dichloropropene	54.1	0	42.8	ug/Kg	79		23	*	47	155	20
cis-1,3-Dichloropropene	54.1	0	40.9	ug/Kg	76		25	*	56	141	20
1,1,2-Trichloroethane	54.1	0	56.7	ug/Kg	105		8		69	148	20
2-Hexanone	270	0	290	ug/Kg	107		0		43	164	20
Dibromochloromethane	54.1	0	46.4	ug/Kg	86		21	*	65	143	20
1,2-Dibromoethane	54.1	0	52.9	ug/Kg	98		16		63	144	20
Tetrachloroethene	54.1	0	73.6	ug/Kg	136		36	*	27	175	20
Chlorobenzene	54.1	0	53.7	ug/Kg	99		10		66	127	20
Ethyl Benzene	54.1	0	58.8	ug/Kg	109		20		54	134	20
m/p-Xylenes	110	0	110	ug/Kg	100		14		51	137	20
o-Xylene	54.1	0	55.0	ug/Kg	102		13		57	139	20
Styrene	54.1	0	43.6	ug/Kg	81		9		47	136	20
Bromoform	54.1	0	54.0	ug/Kg	100		0		64	144	20
Isopropylbenzene	54.1	0	77.5	ug/Kg	143		46	*	44	160	20
1,1,2,2-Tetrachloroethane	54.1	0	81.8	ug/Kg	151		35	*	18	175	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec		RPD		Limits		
		Result			Qual	RPD	Qual	Low	High	RPD	
1,3-Dichlorobenzene	54.1	0	46.9	ug/Kg	87		4		55	131	20
1,4-Dichlorobenzene	54.1	0	44.4	ug/Kg	82		3		57	129	20
1,2-Dichlorobenzene	54.1	0	47.3	ug/Kg	87		2		54	140	20
1,2-Dibromo-3-Chloropropane	54.1	0	62.1	ug/Kg	115		8		46	175	20
1,2,4-Trichlorobenzene	54.1	0	24.3	ug/Kg	45		50	*	12	127	20
1,2,3-Trichlorobenzene	54.1	0	22.1	ug/Kg	41		63	*	10	160	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VN086725.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0521MBS01	Dichlorodifluoromethane	2000	2100	ug/Kg	105			64	136	
	Chloromethane	2000	2000	ug/Kg	100			70	130	
	Vinyl chloride	2000	2000	ug/Kg	100			72	129	
	Bromomethane	2000	1900	ug/Kg	95			58	141	
	Chloroethane	2000	1900	ug/Kg	95			69	130	
	Trichlorofluoromethane	2000	2000	ug/Kg	100			69	134	
	1,1,2-Trichlorotrifluoroethane	2000	2100	ug/Kg	105			81	123	
	1,1-Dichloroethene	2000	1900	ug/Kg	95			79	121	
	Acetone	10000	9000	ug/Kg	90			60	131	
	Carbon disulfide	2000	2000	ug/Kg	100			45	154	
	Methyl tert-butyl Ether	2000	2000	ug/Kg	100			77	129	
	Methyl Acetate	2000	1900	ug/Kg	95			69	149	
	Methylene Chloride	2000	1900	ug/Kg	95			56	174	
	trans-1,2-Dichloroethene	2000	1900	ug/Kg	95			80	123	
	1,1-Dichloroethane	2000	2000	ug/Kg	100			82	123	
	Cyclohexane	2000	1900	ug/Kg	95			76	122	
	2-Butanone	10000	9500	ug/Kg	95			69	131	
	Carbon Tetrachloride	2000	1900	ug/Kg	95			76	129	
	cis-1,2-Dichloroethene	2000	1900	ug/Kg	95			82	123	
	Bromochloromethane	2000	2000	ug/Kg	100			80	127	
	Chloroform	2000	1900	ug/Kg	95			82	125	
	1,1,1-Trichloroethane	2000	2000	ug/Kg	100			80	126	
	Methylcyclohexane	2000	1900	ug/Kg	95			77	123	
	Benzene	2000	1900	ug/Kg	95			84	121	
	1,2-Dichloroethane	2000	1900	ug/Kg	95			81	126	
	Trichloroethene	2000	1900	ug/Kg	95			83	122	
	1,2-Dichloropropane	2000	2000	ug/Kg	100			83	122	
	Bromodichloromethane	2000	2000	ug/Kg	100			82	123	
	4-Methyl-2-Pentanone	10000	9500	ug/Kg	95			70	135	
	Toluene	2000	1900	ug/Kg	95			83	122	
	t-1,3-Dichloropropene	2000	2000	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	2000	2000	ug/Kg	100			81	122	
	1,1,2-Trichloroethane	2000	1900	ug/Kg	95			82	125	
	2-Hexanone	10000	9300	ug/Kg	93			66	138	
	Dibromochloromethane	2000	1900	ug/Kg	95			79	125	
	1,2-Dibromoethane	2000	1900	ug/Kg	95			80	125	
	Tetrachloroethene	2000	2100	ug/Kg	105			83	125	
	Chlorobenzene	2000	2000	ug/Kg	100			84	122	
	Ethyl Benzene	2000	2000	ug/Kg	100			82	124	
	m/p-Xylenes	4000	4000	ug/Kg	100			83	124	
	o-Xylene	2000	1900	ug/Kg	95			83	123	
	Styrene	2000	2000	ug/Kg	100			82	124	
	Bromoform	2000	2000	ug/Kg	100			75	127	
	Isopropylbenzene	2000	1900	ug/Kg	95			82	124	
	1,1,2,2-Tetrachloroethane	2000	1900	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	2000	1900	ug/Kg	95			83	122	
	1,4-Dichlorobenzene	2000	2000	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	2000	2000	ug/Kg	100			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VN086725.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0521MBS01	1,2-Dibromo-3-Chloropropane	2000	1900	ug/Kg	95			66	134	
	1,2,4-Trichlorobenzene	2000	1900	ug/Kg	95			78	127	
	1,2,3-Trichlorobenzene	2000	1900	ug/Kg	95			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046206.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0515WBS01	Dichlorodifluoromethane	20	20.2	ug/L	101			69	116	
	Chloromethane	20	19.5	ug/L	98			65	116	
	Vinyl chloride	20	19.1	ug/L	96			65	117	
	Bromomethane	20	18.9	ug/L	95			58	125	
	Chloroethane	20	22.5	ug/L	113			56	128	
	Trichlorofluoromethane	20	20.4	ug/L	102			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			80	112	
	1,1-Dichloroethene	20	19.0	ug/L	95			74	110	
	Acetone	100	100	ug/L	100			60	125	
	Carbon disulfide	20	16.7	ug/L	84			64	112	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			78	114	
	Methyl Acetate	20	22.7	ug/L	114			67	125	
	Methylene Chloride	20	19.0	ug/L	95			72	114	
	trans-1,2-Dichloroethene	20	19.5	ug/L	98			75	108	
	1,1-Dichloroethane	20	20.2	ug/L	101			78	112	
	Cyclohexane	20	19.1	ug/L	96			75	110	
	2-Butanone	100	110	ug/L	110			65	122	
	Carbon Tetrachloride	20	19.5	ug/L	98			77	113	
	cis-1,2-Dichloroethene	20	20.2	ug/L	101			77	110	
	Bromochloromethane	20	22.6	ug/L	113			70	124	
	Chloroform	20	21.0	ug/L	105			79	113	
	1,1,1-Trichloroethane	20	20.2	ug/L	101			80	108	
	Methylcyclohexane	20	18.3	ug/L	92			72	115	
	Benzene	20	20.1	ug/L	101			82	109	
	1,2-Dichloroethane	20	20.6	ug/L	103			80	115	
	Trichloroethene	20	19.3	ug/L	97			77	113	
	1,2-Dichloropropane	20	20.9	ug/L	104			83	111	
	Bromodichloromethane	20	20.6	ug/L	103			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	20.0	ug/L	100			82	110	
	t-1,3-Dichloropropene	20	18.5	ug/L	93			79	110	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			82	110	
	1,1,2-Trichloroethane	20	20.7	ug/L	104			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	20.7	ug/L	104			82	110	
	1,2-Dibromoethane	20	20.4	ug/L	102			81	110	
	Tetrachloroethene	20	19.5	ug/L	98			67	123	
	Chlorobenzene	20	19.5	ug/L	98			82	109	
	Ethyl Benzene	20	19.8	ug/L	99			83	109	
	m/p-Xylenes	40	39.4	ug/L	99			82	110	
	o-Xylene	20	20.3	ug/L	102			83	109	
	Styrene	20	20.5	ug/L	103			80	111	
	Bromoform	20	19.1	ug/L	96			79	109	
	Isopropylbenzene	20	20.1	ug/L	101			83	112	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/L	99			76	118	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			82	108	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			82	107	
	1,2-Dichlorobenzene	20	20.3	ug/L	102			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046206.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VX0515WBS01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100			68	112	
	1,2,4-Trichlorobenzene	20	17.9	ug/L	90			75	113	
	1,2,3-Trichlorobenzene	20	18.2	ug/L	91			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046207.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0515WBSD01	Dichlorodifluoromethane	20	19.3	ug/L	97	4		69	116	20
	Chloromethane	20	19.3	ug/L	97	1		65	116	20
	Vinyl chloride	20	18.2	ug/L	91	5		65	117	20
	Bromomethane	20	17.8	ug/L	89	7		58	125	20
	Chloroethane	20	19.8	ug/L	99	13		56	128	20
	Trichlorofluoromethane	20	19.8	ug/L	99	3		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	3		80	112	20
	1,1-Dichloroethene	20	17.9	ug/L	90	5		74	110	20
	Acetone	100	100	ug/L	100	0		60	125	20
	Carbon disulfide	20	16.1	ug/L	81	4		64	112	20
	Methyl tert-butyl Ether	20	20.1	ug/L	101	1		78	114	20
	Methyl Acetate	20	23.9	ug/L	119	4		67	125	20
	Methylene Chloride	20	18.7	ug/L	94	1		72	114	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	3		75	108	20
	1,1-Dichloroethane	20	20.0	ug/L	100	1		78	112	20
	Cyclohexane	20	18.7	ug/L	94	2		75	110	20
	2-Butanone	100	110	ug/L	110	0		65	122	20
	Carbon Tetrachloride	20	19.2	ug/L	96	2		77	113	20
	cis-1,2-Dichloroethene	20	19.3	ug/L	97	4		77	110	20
	Bromochloromethane	20	22.6	ug/L	113	0		70	124	20
	Chloroform	20	20.6	ug/L	103	2		79	113	20
	1,1,1-Trichloroethane	20	19.8	ug/L	99	2		80	108	20
	Methylcyclohexane	20	17.9	ug/L	90	2		72	115	20
	Benzene	20	19.7	ug/L	99	2		82	109	20
	1,2-Dichloroethane	20	20.7	ug/L	104	1		80	115	20
	Trichloroethene	20	18.8	ug/L	94	3		77	113	20
	1,2-Dichloropropane	20	21.3	ug/L	106	2		83	111	20
	Bromodichloromethane	20	20.3	ug/L	102	1		83	110	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		74	118	20
	Toluene	20	20.1	ug/L	101	1		82	110	20
	t-1,3-Dichloropropene	20	18.8	ug/L	94	1		79	110	20
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	0		82	110	20
	1,1,2-Trichloroethane	20	21.5	ug/L	108	4		83	112	20
	2-Hexanone	100	110	ug/L	110	0		73	117	20
	Dibromochloromethane	20	20.7	ug/L	104	0		82	110	20
	1,2-Dibromoethane	20	21.0	ug/L	105	3		81	110	20
	Tetrachloroethene	20	19.3	ug/L	97	1		67	123	20
	Chlorobenzene	20	19.5	ug/L	98	0		82	109	20
	Ethyl Benzene	20	19.7	ug/L	99	0		83	109	20
	m/p-Xylenes	40	39.6	ug/L	99	0		82	110	20
	o-Xylene	20	20.0	ug/L	100	2		83	109	20
	Styrene	20	20.5	ug/L	103	0		80	111	20
	Bromoform	20	19.9	ug/L	100	4		79	109	20
	Isopropylbenzene	20	20.1	ug/L	101	0		83	112	20
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103	4		76	118	20
	1,3-Dichlorobenzene	20	19.5	ug/L	98	1		82	108	20
	1,4-Dichlorobenzene	20	18.8	ug/L	94	3		82	107	20
	1,2-Dichlorobenzene	20	20.5	ug/L	103	1		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046207.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0515WBSD01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/L	104	4		68	112	20
	1,2,4-Trichlorobenzene	20	19.1	ug/L	96	6		75	113	20
	1,2,3-Trichlorobenzene	20	19.3	ug/L	97	6		76	114	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022279.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0516SBS01	Dichlorodifluoromethane	20	21.1	ug/Kg	106			64	136	
	Chloromethane	20	24.4	ug/Kg	122			70	130	
	Vinyl chloride	20	24.1	ug/Kg	121			72	129	
	Bromomethane	20	26.5	ug/Kg	133			58	141	
	Chloroethane	20	24.7	ug/Kg	124			69	130	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			81	123	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			79	121	
	Acetone	100	85.5	ug/Kg	86			60	131	
	Carbon disulfide	20	20.7	ug/Kg	104			45	154	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			77	129	
	Methyl Acetate	20	19.8	ug/Kg	99			69	149	
	Methylene Chloride	20	20.0	ug/Kg	100			56	174	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	19.8	ug/Kg	99			76	122	
	2-Butanone	100	91.5	ug/Kg	92			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			82	123	
	Bromochloromethane	20	19.7	ug/Kg	99			80	127	
	Chloroform	20	20.9	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			80	126	
	Methylcyclohexane	20	19.6	ug/Kg	98			77	123	
	Benzene	20	20.1	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	19.4	ug/Kg	97			83	122	
	Bromodichloromethane	20	20.2	ug/Kg	101			82	123	
	4-Methyl-2-Pentanone	100	90.9	ug/Kg	91			70	135	
	Toluene	20	19.5	ug/Kg	98			83	122	
	t-1,3-Dichloropropene	20	18.9	ug/Kg	95			78	124	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			81	122	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			82	125	
	2-Hexanone	100	89.2	ug/Kg	89			66	138	
	Dibromochloromethane	20	19.6	ug/Kg	98			79	125	
	1,2-Dibromoethane	20	19.8	ug/Kg	99			80	125	
	Tetrachloroethene	20	19.8	ug/Kg	99			83	125	
	Chlorobenzene	20	19.7	ug/Kg	99			84	122	
	Ethyl Benzene	20	19.0	ug/Kg	95			82	124	
	m/p-Xylenes	40	38.4	ug/Kg	96			83	124	
	o-Xylene	20	19.4	ug/Kg	97			83	123	
	Styrene	20	18.9	ug/Kg	95			82	124	
	Bromoform	20	18.4	ug/Kg	92			75	127	
	Isopropylbenzene	20	19.3	ug/Kg	97			82	124	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/Kg	96			77	127	
	1,3-Dichlorobenzene	20	18.4	ug/Kg	92			83	122	
	1,4-Dichlorobenzene	20	18.9	ug/Kg	95			84	121	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022279.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0516SBS01	1,2-Dibromo-3-Chloropropane	20	19.0	ug/Kg	95			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.7	ug/Kg	94			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022280.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0516SBSD01	Dichlorodifluoromethane	20	21.3	ug/Kg	106	0		64	136	20
	Chloromethane	20	20.1	ug/Kg	101	19		70	130	20
	Vinyl chloride	20	22.7	ug/Kg	114	6		72	129	20
	Bromomethane	20	24.7	ug/Kg	124	7		58	141	20
	Chloroethane	20	24.5	ug/Kg	123	1		69	130	20
	Trichlorofluoromethane	20	22.4	ug/Kg	112	1		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/Kg	106	1		81	123	20
	1,1-Dichloroethene	20	21.0	ug/Kg	105	1		79	121	20
	Acetone	100	87.6	ug/Kg	88	2		60	131	20
	Carbon disulfide	20	20.9	ug/Kg	104	0		45	154	20
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102	0		77	129	20
	Methyl Acetate	20	19.1	ug/Kg	96	3		69	149	20
	Methylene Chloride	20	19.9	ug/Kg	100	0		56	174	20
	trans-1,2-Dichloroethene	20	20.8	ug/Kg	104	1		80	123	20
	1,1-Dichloroethane	20	20.5	ug/Kg	103	1		82	123	20
	Cyclohexane	20	20.3	ug/Kg	102	3		76	122	20
	2-Butanone	100	92.5	ug/Kg	93	1		69	131	20
	Carbon Tetrachloride	20	20.4	ug/Kg	102	3		76	129	20
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102	1		82	123	20
	Bromochloromethane	20	20.1	ug/Kg	101	2		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102	1		80	126	20
	Methylcyclohexane	20	20.3	ug/Kg	102	4		77	123	20
	Benzene	20	20.6	ug/Kg	103	2		84	121	20
	1,2-Dichloroethane	20	19.9	ug/Kg	100	1		81	126	20
	Trichloroethene	20	20.8	ug/Kg	104	2		83	122	20
	1,2-Dichloropropane	20	20.3	ug/Kg	102	5		83	122	20
	Bromodichloromethane	20	20.3	ug/Kg	102	1		82	123	20
	4-Methyl-2-Pentanone	100	94.9	ug/Kg	95	4		70	135	20
	Toluene	20	20.1	ug/Kg	101	3		83	122	20
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98	3		78	124	20
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100	3		81	122	20
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100	1		82	125	20
	2-Hexanone	100	92.8	ug/Kg	93	4		66	138	20
	Dibromochloromethane	20	20.3	ug/Kg	102	4		79	125	20
	1,2-Dibromoethane	20	19.8	ug/Kg	99	0		80	125	20
	Tetrachloroethene	20	20.4	ug/Kg	102	3		83	125	20
	Chlorobenzene	20	20.2	ug/Kg	101	2		84	122	20
	Ethyl Benzene	20	19.9	ug/Kg	100	5		82	124	20
	m/p-Xylenes	40	39.5	ug/Kg	99	3		83	124	20
	o-Xylene	20	19.7	ug/Kg	99	2		83	123	20
	Styrene	20	19.4	ug/Kg	97	2		82	124	20
	Bromoform	20	19.2	ug/Kg	96	4		75	127	20
	Isopropylbenzene	20	20.7	ug/Kg	104	7		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.0	ug/Kg	105	9		77	127	20
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100	8		83	122	20
	1,4-Dichlorobenzene	20	20.2	ug/Kg	101	6		84	121	20
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101	5		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022280.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0516SBSD01	1,2-Dibromo-3-Chloropropane	20	20.3	ug/Kg	102	7		66	134	20
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	2		78	127	20
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96	2		70	137	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022331.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0520SBS01	Dichlorodifluoromethane	20	21.2	ug/Kg	106			64	136	
	Chloromethane	20	29.7	ug/Kg	149	*		70	130	
	Vinyl chloride	20	30.5	ug/Kg	153	*		72	129	
	Bromomethane	20	37.9	ug/Kg	190	*		58	141	
	Chloroethane	20	35.1	ug/Kg	175	*		69	130	
	Trichlorofluoromethane	20	28.6	ug/Kg	143	*		69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.4	ug/Kg	112			81	123	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			79	121	
	Acetone	100	100	ug/Kg	100			60	131	
	Carbon disulfide	20	21.4	ug/Kg	107			45	154	
	Methyl tert-butyl Ether	20	22.0	ug/Kg	110			77	129	
	Methyl Acetate	20	21.2	ug/Kg	106			69	149	
	Methylene Chloride	20	20.1	ug/Kg	101			56	174	
	trans-1,2-Dichloroethene	20	21.6	ug/Kg	108			80	123	
	1,1-Dichloroethane	20	21.4	ug/Kg	107			82	123	
	Cyclohexane	20	20.6	ug/Kg	103			76	122	
	2-Butanone	100	100	ug/Kg	100			69	131	
	Carbon Tetrachloride	20	20.7	ug/Kg	104			76	129	
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109			82	123	
	Bromochloromethane	20	21.3	ug/Kg	106			80	127	
	Chloroform	20	22.3	ug/Kg	112			82	125	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			80	126	
	Methylcyclohexane	20	20.4	ug/Kg	102			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	21.3	ug/Kg	106			81	126	
	Trichloroethene	20	20.6	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	20.4	ug/Kg	102			83	122	
	Bromodichloromethane	20	20.9	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101			78	124	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	21.1	ug/Kg	106			82	125	
	2-Hexanone	100	97.7	ug/Kg	98			66	138	
	Dibromochloromethane	20	20.4	ug/Kg	102			79	125	
	1,2-Dibromoethane	20	21.3	ug/Kg	106			80	125	
	Tetrachloroethene	20	21.6	ug/Kg	108			83	125	
	Chlorobenzene	20	20.5	ug/Kg	103			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.6	ug/Kg	99			83	124	
	o-Xylene	20	20.2	ug/Kg	101			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	20.7	ug/Kg	104			75	127	
	Isopropylbenzene	20	20.1	ug/Kg	101			82	124	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	19.3	ug/Kg	97			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100			83	124	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8260D

Datafile : VY022331.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0520SBS01	1,2-Dibromo-3-Chloropropane	20	22.0	ug/Kg	110			66	134	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0521MBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: VN086723.D

Lab Sample ID: VN0521MBL01

Date Analyzed: 05/21/2025

Time Analyzed: 11:44

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0521MBS01	VN0521MBS01	VN086725.D	05/21/2025
TP-11ME	Q2032-01ME	VN086744.D	05/21/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0515WBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: VX046202.D

Lab Sample ID: VX0515WBL01

Date Analyzed: 05/15/2025

Time Analyzed: 10:38

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-05132025	Q2032-11	VX046204.D	05/15/2025
TB	Q2032-12	VX046205.D	05/15/2025
VX0515WBS01	VX0515WBS01	VX046206.D	05/15/2025
VX0515WBSD01	VX0515WBSD01	VX046207.D	05/15/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0516SBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: VY022278.D

Lab Sample ID: VY0516SBL01

Date Analyzed: 05/16/2025

Time Analyzed: 09:37

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0516SBS01	VY0516SBS01	VY022279.D	05/16/2025
TP-29-99	Q2032-03	VY022294.D	05/16/2025
TP-24	Q2032-04	VY022295.D	05/16/2025
TP-37	Q2032-07	VY022296.D	05/16/2025
TP-32	Q2032-08	VY022297.D	05/16/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0520SBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: VY022330.D

Lab Sample ID: VY0520SBL01

Date Analyzed: 05/20/2025

Time Analyzed: 09:48

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0520SBS01	VY0520SBS01	VY022331.D	05/20/2025
TP-29	Q2032-02	VY022342.D	05/20/2025
TP-11	Q2032-01	VY022347.D	05/20/2025
TP-24MS	Q2032-05MS	VY022348.D	05/20/2025
TP-24MSD	Q2032-06MSD	VY022349.D	05/20/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VN086668.D BFB Injection Date: 05/16/2025
Instrument ID: MSVOA_N BFB Injection Time: 15:33
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	50
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.9
175	5.0 - 9.0% of mass 174	5.7 (7.6) 1
176	95.0 - 101.0% of mass 174	73.6 (98.2) 1
177	5.0 - 9.0% of mass 176	4.5 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN086669.D	05/16/2025	16:31
VSTDIC005	VSTDIC005	VN086670.D	05/16/2025	16:55
VSTDIC010	VSTDIC010	VN086671.D	05/16/2025	17:19
VSTDIC020	VSTDIC020	VN086672.D	05/16/2025	17:43
VSTDIC050	VSTDIC050	VN086673.D	05/16/2025	18:08
VSTDIC100	VSTDIC100	VN086674.D	05/16/2025	18:32



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VN086721.D BFB Injection Date: 05/21/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:37
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	67.9 (96.8) 1
177	5.0 - 9.0% of mass 176	4.4 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086722.D	05/21/2025	11:10
VN0521MBL01	VN0521MBL01	VN086723.D	05/21/2025	11:44
VN0521MBS01	VN0521MBS01	VN086725.D	05/21/2025	12:32
TP-11ME	Q2032-01ME	VN086744.D	05/21/2025	20:18



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VX046038.D BFB Injection Date: 05/05/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:37
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC020	VSTDIC020	VX046041.D	05/05/2025	11:35
VSTDIC050	VSTDIC050	VX046042.D	05/05/2025	11:58
VSTDIC100	VSTDIC100	VX046043.D	05/05/2025	12:21
VSTDIC150	VSTDIC150	VX046044.D	05/05/2025	12:45
VSTDIC005	VSTDIC005	VX046046.D	05/05/2025	16:04
VSTDIC001	VSTDIC001	VX046047.D	05/05/2025	16:27



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VX046199.D BFB Injection Date: 05/15/2025
Instrument ID: MSVOA_X BFB Injection Time: 08:47
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	58.6
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	0.7 (1.1) 1
174	50.0 - 100.0% of mass 95	67.5
175	5.0 - 9.0% of mass 174	5.3 (7.8) 1
176	95.0 - 101.0% of mass 174	65.6 (97.2) 1
177	5.0 - 9.0% of mass 176	4 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046200.D	05/15/2025	09:52
VX0515WBL01	VX0515WBL01	VX046202.D	05/15/2025	10:38
FB-05132025	Q2032-11	VX046204.D	05/15/2025	11:25
TB	Q2032-12	VX046205.D	05/15/2025	11:48
VX0515WBS01	VX0515WBS01	VX046206.D	05/15/2025	12:11
VX0515WBSD01	VX0515WBSD01	VX046207.D	05/15/2025	12:38



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VY022252.D BFB Injection Date: 05/15/2025
Instrument ID: MSVOA_Y BFB Injection Time: 07:52
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	24
75	30.0 - 60.0% of mass 95	55.9
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022253.D	05/15/2025	09:46
VSTDIC010	VSTDIC010	VY022254.D	05/15/2025	10:16
VSTDIC020	VSTDIC020	VY022255.D	05/15/2025	10:39
VSTDIC050	VSTDIC050	VY022256.D	05/15/2025	11:02
VSTDIC100	VSTDIC100	VY022257.D	05/15/2025	11:24
VSTDIC150	VSTDIC150	VY022258.D	05/15/2025	11:47



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VY022276.D BFB Injection Date: 05/16/2025
Instrument ID: MSVOA_Y BFB Injection Time: 07:54
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	25.1
75	30.0 - 60.0% of mass 95	58.3
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	0.9 (1) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.2 (7.4) 1
176	95.0 - 101.0% of mass 174	81.9 (98.3) 1
177	5.0 - 9.0% of mass 176	5.6 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022277.D	05/16/2025	08:24
VY0516SBL01	VY0516SBL01	VY022278.D	05/16/2025	09:37
VY0516SBS01	VY0516SBS01	VY022279.D	05/16/2025	10:09
TP-29-99	Q2032-03	VY022294.D	05/16/2025	16:25
TP-24	Q2032-04	VY022295.D	05/16/2025	16:48
TP-37	Q2032-07	VY022296.D	05/16/2025	17:12
TP-32	Q2032-08	VY022297.D	05/16/2025	17:35



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VY022328.D BFB Injection Date: 05/20/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:09
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	24.5
75	30.0 - 60.0% of mass 95	58.5
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	1 (1.2) 1
174	50.0 - 100.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	80.3 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022329.D	05/20/2025	08:40
VY0520SBL01	VY0520SBL01	VY022330.D	05/20/2025	09:48
VY0520SBS01	VY0520SBS01	VY022331.D	05/20/2025	10:21
TP-29	Q2032-02	VY022342.D	05/20/2025	14:59
TP-11	Q2032-01	VY022347.D	05/20/2025	16:56
TP-24MS	Q2032-05MS	VY022348.D	05/20/2025	17:19
TP-24MSD	Q2032-06MSD	VY022349.D	05/20/2025	17:41

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VN086722.D Date Analyzed: 05/21/2025
Instrument ID: MSVOA_N Time Analyzed: 11:10
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	182299	8.22	331408	9.10	299657	11.87
UPPER LIMIT	364598	8.724	662816	9.6	599314	12.365
LOWER LIMIT	91149.5	7.724	165704	8.6	149829	11.365
EPA SAMPLE NO.						
TP-11ME	228680	8.22	425329	9.09	398917	11.87
VN0521MBL01	158233	8.22	315437	9.10	297842	11.87
VN0521MBS01	187953	8.22	345557	9.10	296696	11.87

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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 Lab File ID: VN086722.D Date Analyzed: 05/21/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:10
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	144979	13.788				
UPPER LIMIT	289958	14.288				
LOWER LIMIT	72489.5	13.288				
EPA SAMPLE NO.						
TP-11ME	172654	13.79				
VN0521MBL01	126400	13.79				
VN0521MBS01	133846	13.79				

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: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VX046200.D Date Analyzed: 05/15/2025
Instrument ID: MSVOA_X Time Analyzed: 09:52
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	79845	5.54	140483	6.75	127630	10.05
UPPER LIMIT	159690	6.044	280966	7.251	255260	10.549
LOWER LIMIT	39922.5	5.044	70241.5	6.251	63815	9.549
EPA SAMPLE NO.						
FB-05132025	61853	5.55	121497	6.76	116697	10.05
TB	61806	5.55	123845	6.76	117264	10.05
VX0515WBL01	65765	5.54	130899	6.76	122283	10.05
VX0515WBS01	89041	5.54	157824	6.76	139362	10.05
VX0515WBSD01	86433	5.54	151750	6.76	132818	10.05

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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 Lab File ID: VX046200.D Date Analyzed: 05/15/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:52
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	62876	12.018				
UPPER LIMIT	125752	12.518				
LOWER LIMIT	31438	11.518				
EPA SAMPLE NO.						
FB-05132025	46318	12.02				
TB	46824	12.02				
VX0515WBL01	51360	12.02				
VX0515WBS01	65777	12.02				
VX0515WBSD01	63406	12.02				

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: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
Lab File ID: VY022277.D Date Analyzed: 05/16/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:24
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	212993	7.71	356583	8.62	305829	11.42
UPPER LIMIT	425986	8.207	713166	9.115	611658	11.92
LOWER LIMIT	106497	7.207	178292	8.115	152915	10.92
EPA SAMPLE NO.						
TP-29-99	265101	7.71	475372	8.61	384945	11.41
TP-24	265542	7.71	477294	8.62	397008	11.41
TP-37	264744	7.71	474666	8.61	382466	11.41
TP-32	262305	7.71	463101	8.61	367604	11.41
VY0516SBL01	314347	7.71	555500	8.62	426459	11.42
VY0516SBS01	205076	7.71	351708	8.62	300126	11.42

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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 Lab File ID: VY022277.D Date Analyzed: 05/16/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:24
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	144477	13.346				
UPPER LIMIT	288954	13.846				
LOWER LIMIT	72238.5	12.846				
EPA SAMPLE NO.						
TP-29-99	141625	13.35				
TP-24	154080	13.35				
TP-37	139806	13.35				
TP-32	125957	13.35				
VY0516SBL01	151389	13.35				
VY0516SBS01	141210	13.35				

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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 Lab File ID: VY022329.D Date Analyzed: 05/20/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:40
 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	180374	7.71	298369	8.62	252391	11.41
UPPER LIMIT	360748	8.207	596738	9.116	504782	11.914
LOWER LIMIT	90187	7.207	149185	8.116	126196	10.914
EPA SAMPLE NO.						
TP-11	244067	7.71	428249	8.62	381188	11.41
TP-29	242950	7.71	438802	8.62	347338	11.41
TP-24MS	98597	7.71	170765	8.62	154458	11.41
TP-24MSD	16153 *	7.71	22646 *	8.62	16045 *	11.41
VY0520SBL01	253729	7.71	453295	8.62	355808	11.42
VY0520SBS01	162404	7.71	280923	8.62	236555	11.42

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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 Lab File ID: VY022329.D Date Analyzed: 05/20/2025
 Instrument ID: MSVOA_Y Time Analyzed: 08:40
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	120747	13.346				
UPPER LIMIT	241494	13.846				
LOWER LIMIT	60373.5	12.846				
EPA SAMPLE NO.						
TP-11	160799	13.35				
TP-29	124373	13.35				
TP-24MS	73453	13.35				
TP-24MSD	6318 *	13.35				
VY0520SBL01	124571	13.35				
VY0520SBS01	111469	13.35				

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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

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	UQ	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.84	UQ	0.84	5.30	ug/Kg
74-83-9	Bromomethane	1.10	UQ	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	UQ	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	UQ	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	5.10	U	5.10	26.7	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	42.1		0.84	5.30	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	26.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.90	U	0.90	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	210	E	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.7	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.7	ug/Kg
124-48-1	Dibromochloromethane	0.93	U	0.93	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.72	U	0.72	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.7	ug/Kg
95-47-6	o-Xylene	0.88	U	0.88	5.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	5.30	ug/Kg
75-25-2	Bromoform	0.92	U	0.92	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	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	1.70	U	1.70	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	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.2	63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3	70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	62.4	* 74 - 123	125%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0	38 - 136	112%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	244000	7.707
540-36-3	1,4-Difluorobenzene	428000	8.616
3114-55-4	Chlorobenzene-d5	381000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.14 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022347.D	1		05/20/25 16:56	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000096-14-0	Pentane, 3-methyl-	140	J		5.13	ug/Kg
000565-59-3	Pentane, 2,3-dimethyl-	130	J		7.79	ug/Kg
002453-00-1	Cyclopentane, 1,3-dimethyl-	140	J		8.20	ug/Kg
001192-18-3	Cyclopentane, 1,2-dimethyl-, cis-	140	J		8.26	ug/Kg
000589-53-7	Heptane, 4-methyl-	120	J		9.68	ug/Kg
104-51-8	n-Butylbenzene	6.60	J		13.6	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	150	J		13.9	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	110	J		14.2	ug/Kg
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	110	J		14.6	ug/Kg
	unknown14.858	120	J		14.9	ug/Kg
097664-18-1	Benzene, 1-methyl-4-(1-methyl-2-pr	120	J		15.0	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_Y\Data\VY052025\
 Data File : VY022347.D
 Acq On : 20 May 2025 16:56
 Operator : SY/MD
 Sample : Q2032-01
 Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-11

Quant Time: May 21 01:52:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

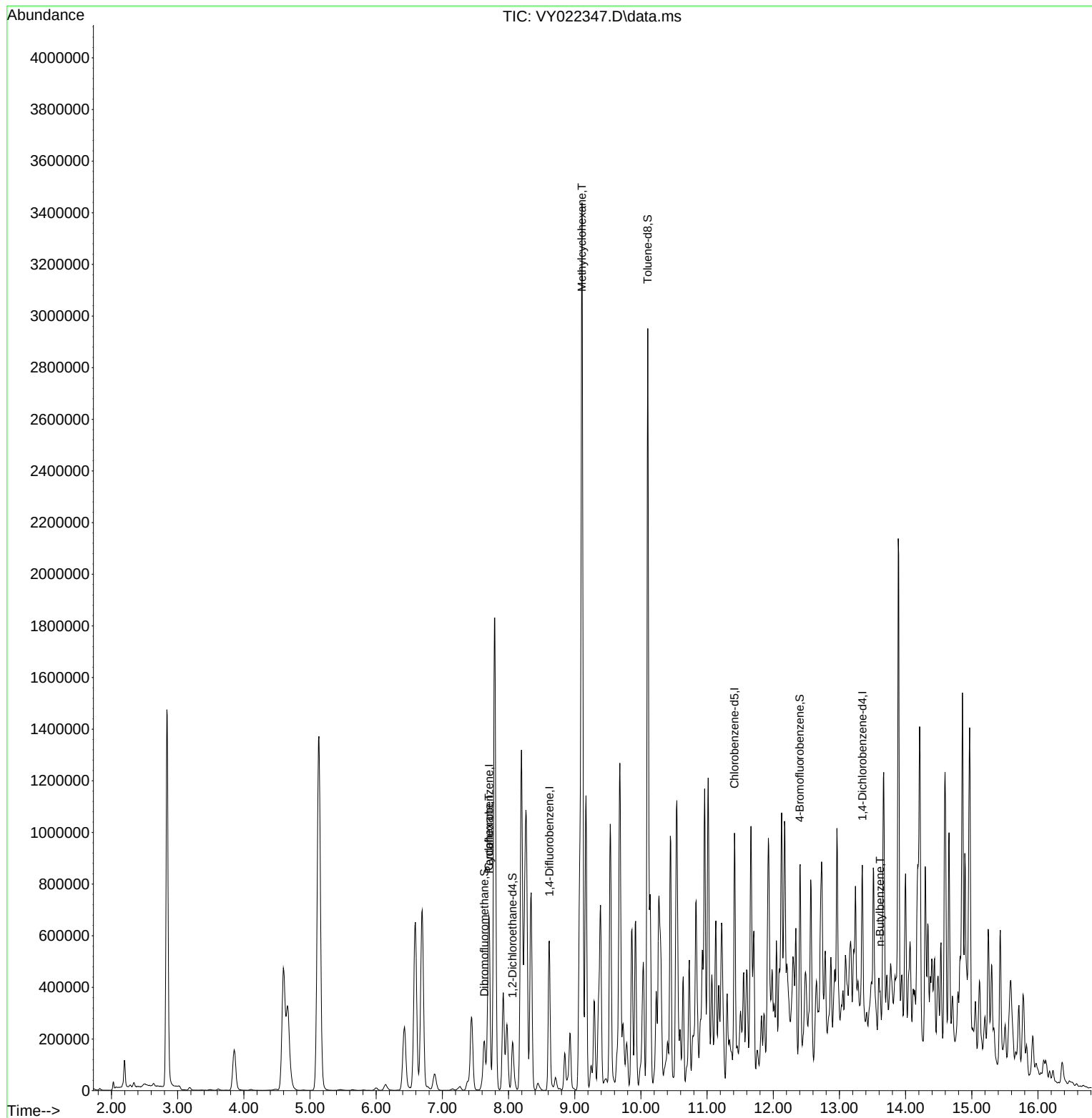
Internal Standards						
1) Pentafluorobenzene	7.707	168	244067	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	428249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	381188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	160799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	131143	49.165	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.320%
35) Dibromofluoromethane	7.634	113	131050	51.271	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.540%
50) Toluene-d8	10.103	98	653457	62.422	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	124.840%
62) 4-Bromofluorobenzene	12.402	95	185871	56.017	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	112.040%
Target Compounds						
					Qvalue	
31) Cyclohexane	7.701	56	212648	39.408	ug/l	94
39) Methylcyclohexane	9.109	83	1115808	197.270	ug/l	97
89) n-Butylbenzene	13.615	91	69404	6.148	ug/l #	65

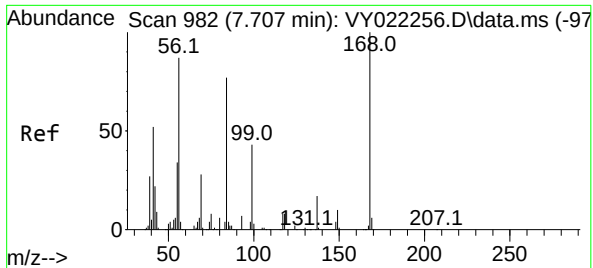
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

Quant Time: May 21 01:52:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

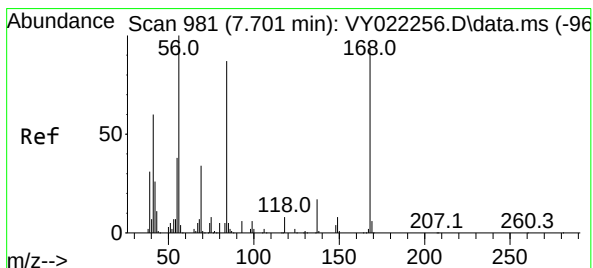
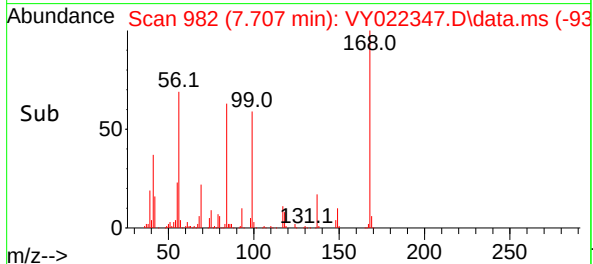
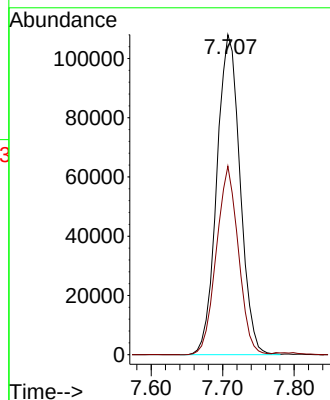
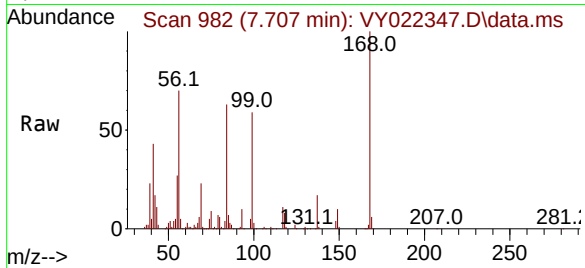




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022347.D
Acq: 20 May 2025 16:56

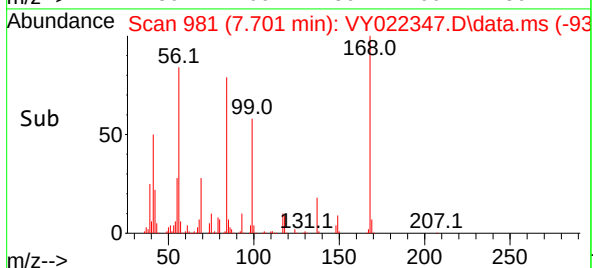
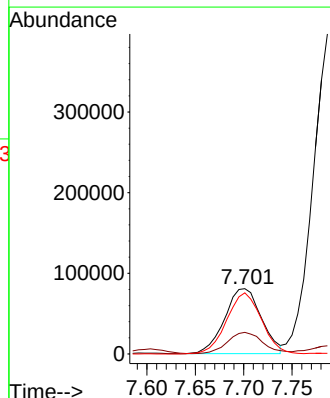
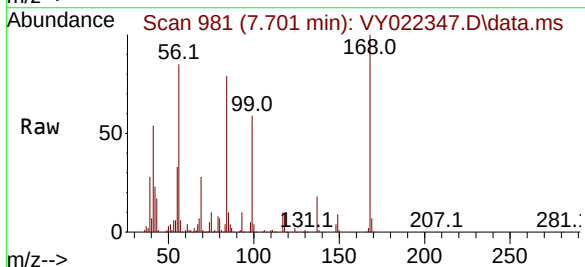
Instrument :
MSVOA_Y
ClientSampleId :
TP-11

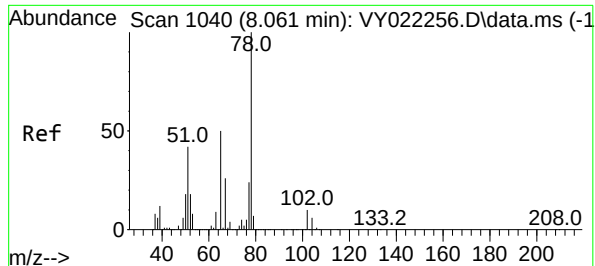
Tgt Ion:168 Resp: 244067
Ion Ratio Lower Upper
168 100
99 58.9 44.2 66.4



#31
Cyclohexane
Concen: 39.408 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY022347.D
Acq: 20 May 2025 16:56

Tgt Ion: 56 Resp: 212648
Ion Ratio Lower Upper
56 100
69 31.9 27.4 41.2
84 94.0 70.0 105.0





#33

1,2-Dichloroethane-d4

Concen: 49.165 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

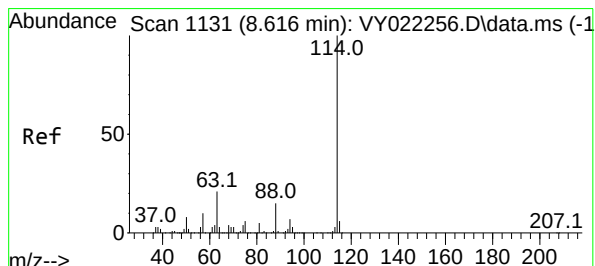
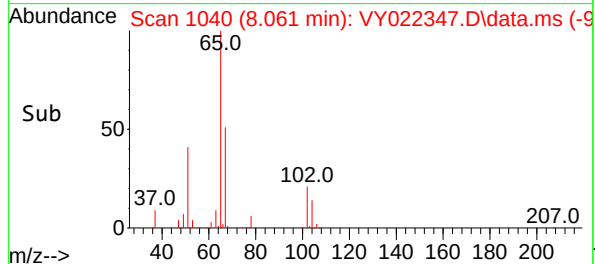
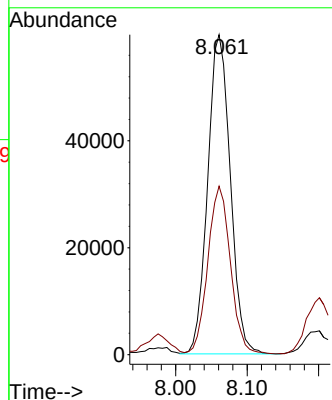
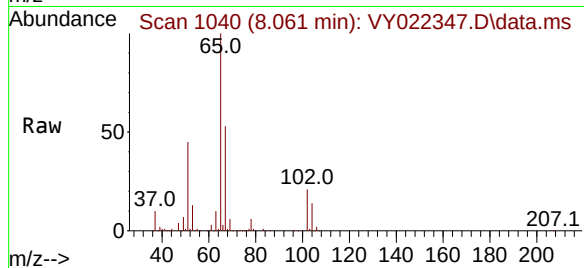
TP-11

Tgt Ion: 65 Resp: 131143

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

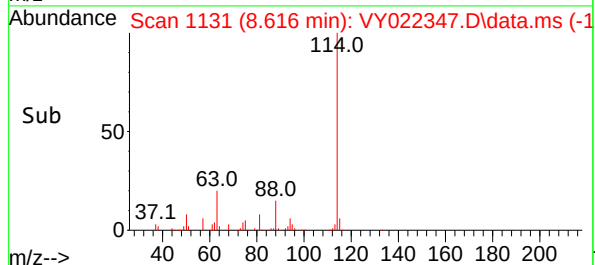
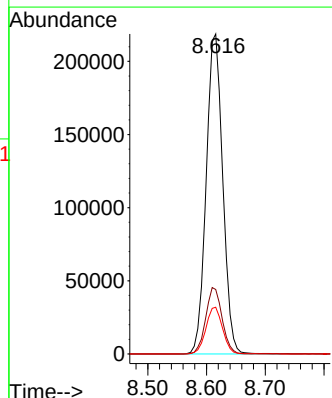
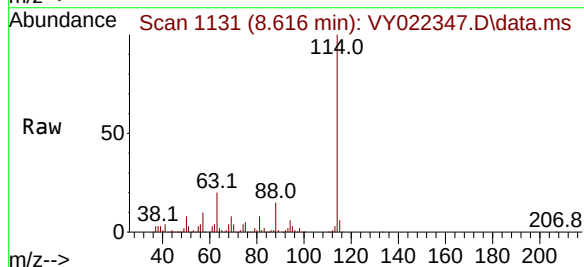
Tgt Ion: 114 Resp: 428249

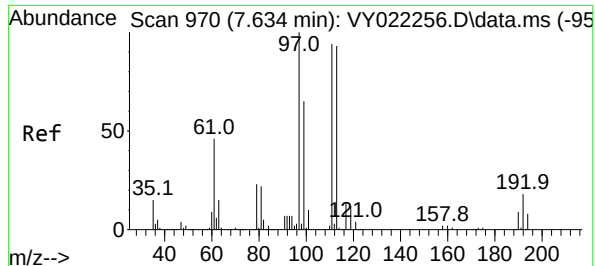
Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.0

88 14.6 0.0 29.4





#35

Dibromofluoromethane

Concen: 51.271 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-11

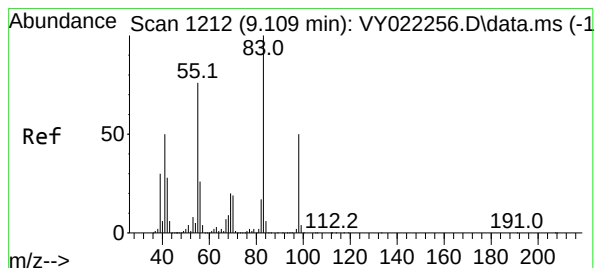
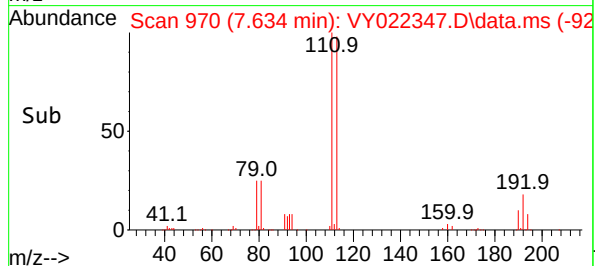
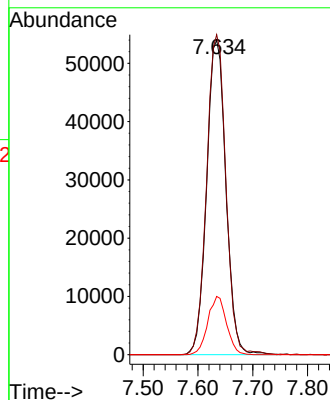
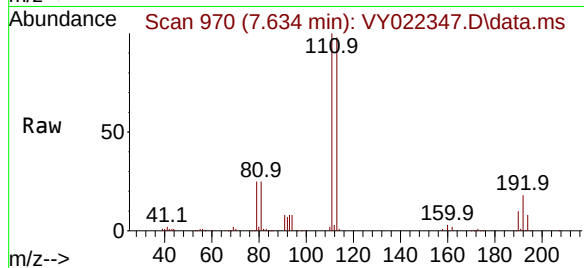
Tgt Ion:113 Resp: 131050

Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

192 18.1 15.2 22.8



#39

Methylcyclohexane

Concen: 197.270 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

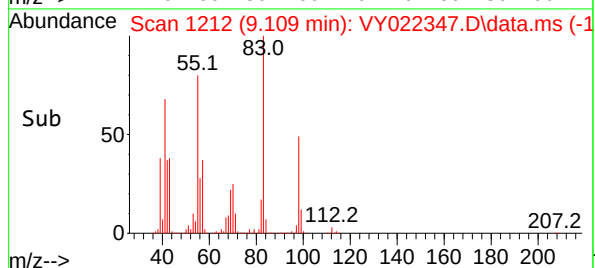
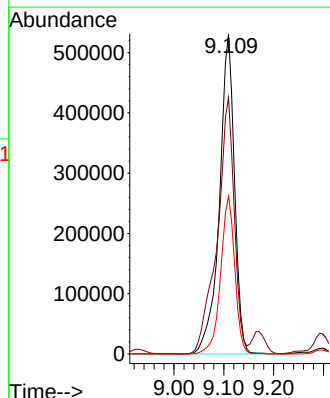
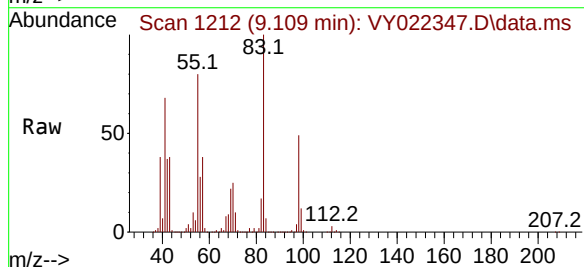
Tgt Ion: 83 Resp: 1115808

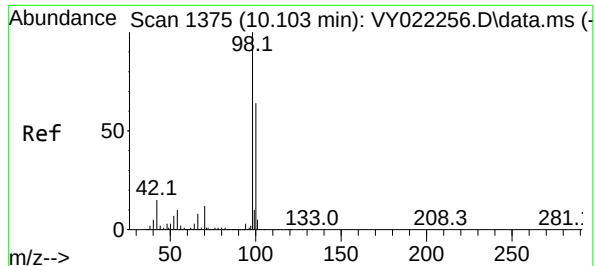
Ion Ratio Lower Upper

83 100

55 80.1 60.6 90.8

98 49.3 40.0 60.0





#50

Toluene-d8

Concen: 62.422 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

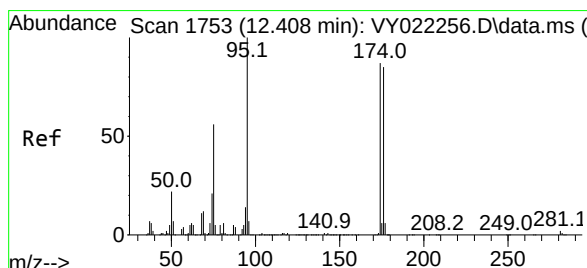
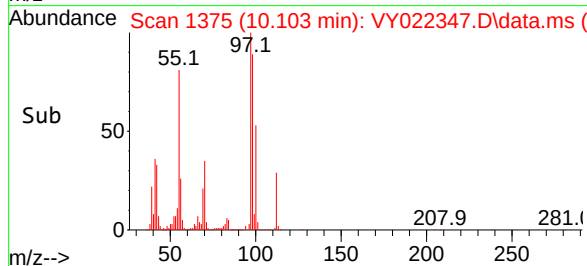
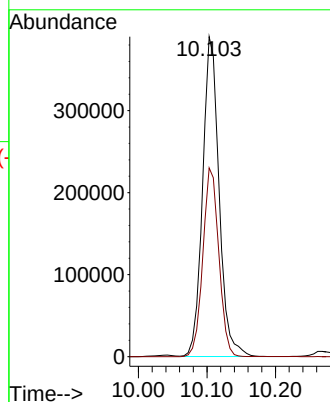
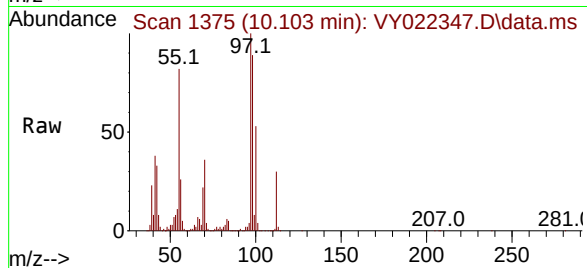
TP-11

Tgt Ion: 98 Resp: 653457

Ion Ratio Lower Upper

98 100

100 57.1 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 56.017 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

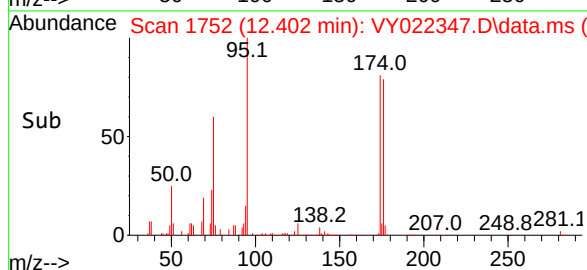
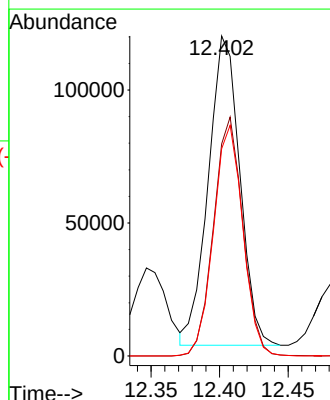
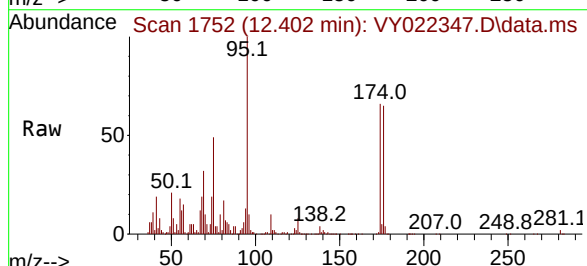
Tgt Ion: 95 Resp: 185871

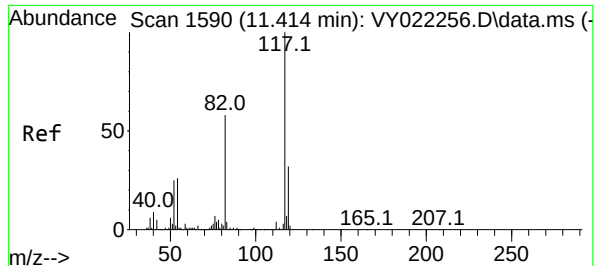
Ion Ratio Lower Upper

95 100

174 71.8 0.0 166.8

176 69.6 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

TP-11

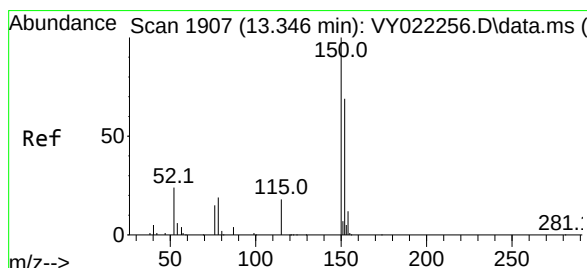
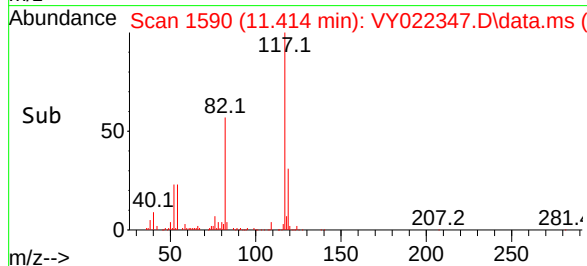
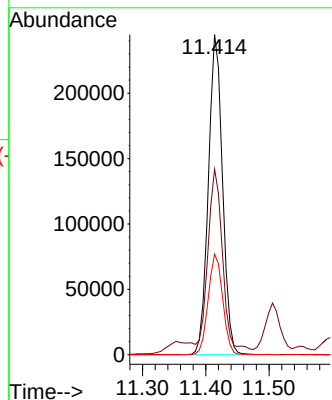
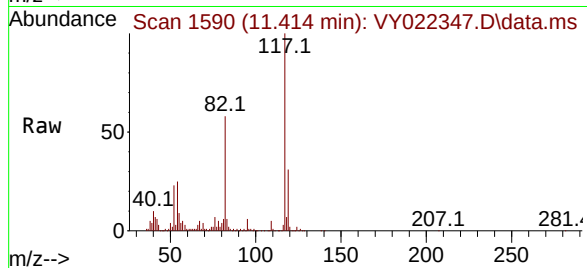
Tgt Ion:117 Resp: 381188

Ion Ratio Lower Upper

117 100

82 54.2 46.6 70.0

119 31.4 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022347.D

Acq: 20 May 2025 16:56

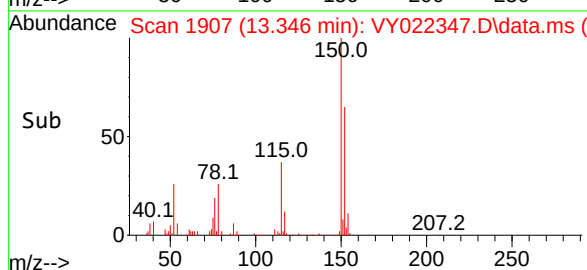
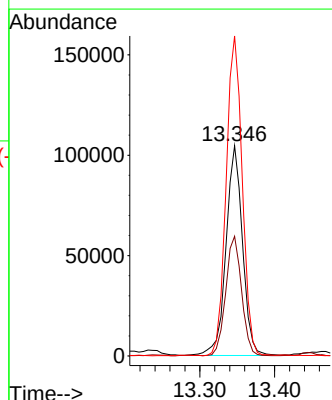
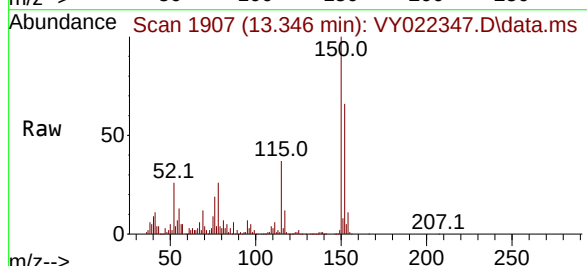
Tgt Ion:152 Resp: 160799

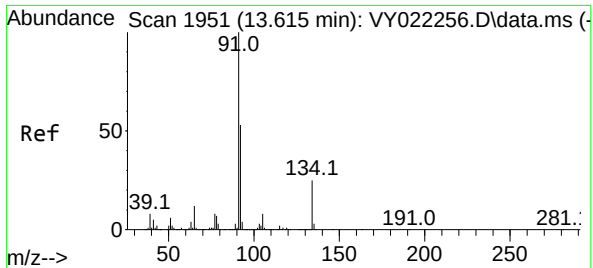
Ion Ratio Lower Upper

152 100

115 54.4 29.4 88.2

150 148.3 0.0 353.8





#89

n-Butylbenzene

Concen: 6.148 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY022347.D

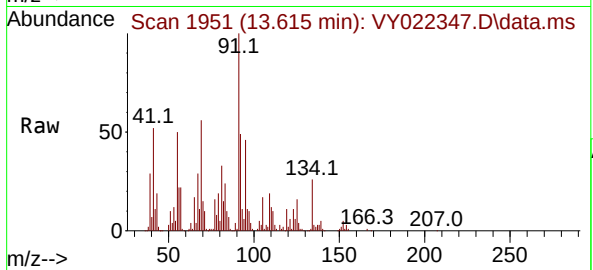
Acq: 20 May 2025 16:56

Instrument :

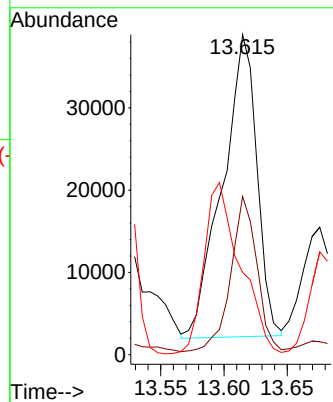
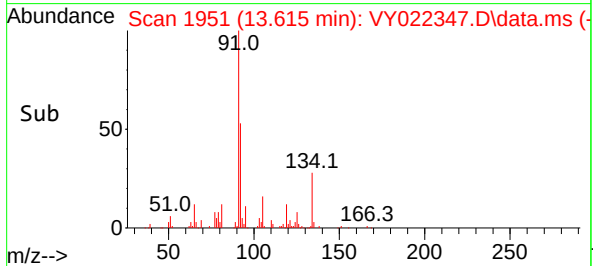
MSVOA_Y

ClientSampleId :

TP-11



Tgt Ion:	91	Resp:	69404
Ion	Ratio	Lower	Upper
91	100		
92	39.5	26.3	78.9
134	59.9	12.4	37.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022347.D
 Acq On : 20 May 2025 16:56
 Operator : SY/MD
 Sample : Q2032-01
 Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-11

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_Y\methods\82Y051525S.M
 Title : SW846 8260

Signal : TIC: VY022347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.836	174	183	200	rBV	1459317	3170424	38.50%	2.451%
2	3.854	337	350	365	rBV2	156862	520376	6.32%	0.402%
3	4.598	458	472	478	rBV	472026	1652111	20.06%	1.277%
4	5.135	543	560	579	rBV	1370225	4788440	58.15%	3.702%
5	6.427	757	772	785	rBV	244491	841750	10.22%	0.651%
6	6.592	787	799	807	rVV	642425	1996481	24.24%	1.543%
7	6.695	807	816	827	rVB	684854	2060479	25.02%	1.593%
8	7.439	930	938	951	rVB	281279	826215	10.03%	0.639%
9	7.634	957	970	974	rBV2	188849	520175	6.32%	0.402%
10	7.701	974	981	988	rVV3	676635	1805851	21.93%	1.396%
11	7.786	988	995	1008	rVB	1827443	4504937	54.70%	3.482%
12	7.921	1008	1017	1022	rBV	376062	901434	10.95%	0.697%
13	7.975	1022	1026	1034	rVV	251535	573485	6.96%	0.443%
14	8.061	1034	1040	1051	rVV2	183463	453445	5.51%	0.351%
15	8.195	1051	1062	1067	rVV2	1314633	3248782	39.45%	2.511%
16	8.262	1067	1073	1080	rVV3	1081104	3230165	39.22%	2.497%
17	8.341	1080	1086	1096	rVB	764413	1700145	20.65%	1.314%
18	8.616	1121	1131	1141	rBV	578694	1219142	14.80%	0.942%
19	8.927	1175	1182	1197	rVB	220161	518569	6.30%	0.401%
20	9.109	1197	1212	1218	rBV2	3437108	8234996	100.00%	6.366%
21	9.170	1218	1222	1229	rVB	1128867	2016474	24.49%	1.559%
22	9.292	1237	1242	1248	rVB	301600	544973	6.62%	0.421%
23	9.390	1248	1258	1265	rVB2	689090	1815588	22.05%	1.404%
24	9.536	1275	1282	1293	rVB2	1000227	2028948	24.64%	1.568%
25	9.682	1293	1306	1311	rBV3	1236228	2817291	34.21%	2.178%
26	9.786	1319	1323	1329	rVB3	163615	346038	4.20%	0.268%
27	9.865	1329	1336	1340	rBV	602278	1165347	14.15%	0.901%
28	9.920	1340	1345	1352	rVB	634338	1180464	14.33%	0.913%
29	10.036	1352	1364	1369	rBV2	475570	1165326	14.15%	0.901%
30	10.103	1369	1375	1379	rBV	2894750	4909980	59.62%	3.796%
31	10.231	1388	1396	1399	rBV	355186	692327	8.41%	0.535%
32	10.274	1399	1403	1414	rVV4	714588	2126540	25.82%	1.644%
33	10.402	1414	1424	1427	rVV6	136685	346152	4.20%	0.268%
34	10.445	1427	1431	1439	rVB	935418	1571299	19.08%	1.215%
35	10.542	1439	1447	1453	rBV4	1073296	2446190	29.70%	1.891%
36	10.640	1458	1463	1468	rVB2	405316	683254	8.30%	0.528%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

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_Y\methods\82Y051525S.M
Title : SW846 8260

37	10.731	1468	1478	1483	rBV2	469344	911611	11.07%	0.705%
38	10.835	1490	1495	1502	rVV	618243	1238020	15.03%	0.957%
39	10.926	1507	1510	1512	rVV	416757	618897	7.52%	0.478%
40	10.963	1512	1516	1520	rVV	1036709	1736647	21.09%	1.342%
41	11.018	1520	1525	1530	rVV	1071204	1857985	22.56%	1.436%
42	11.072	1530	1534	1538	rVV3	301516	477337	5.80%	0.369%
43	11.133	1538	1544	1548	rVV2	502578	858831	10.43%	0.664%
44	11.176	1548	1551	1554	rVV	247288	373901	4.54%	0.289%
45	11.219	1554	1558	1567	rVB6	602146	1400286	17.00%	1.082%
46	11.304	1567	1572	1576	rBV	327704	607557	7.38%	0.470%
47	11.414	1585	1590	1595	rBV	878607	1396038	16.95%	1.079%
48	11.554	1609	1613	1616	rVV2	289651	418692	5.08%	0.324%
49	11.597	1616	1620	1625	rVB4	301689	529674	6.43%	0.409%
50	11.664	1625	1631	1635	rBV2	858120	1613912	19.60%	1.248%
51	11.707	1635	1638	1643	rVB	534049	792170	9.62%	0.612%
52	11.822	1651	1657	1660	rBV2	193115	348145	4.23%	0.269%
53	11.926	1667	1674	1680	rBV4	828458	1896658	23.03%	1.466%
54	12.048	1691	1694	1697	rVB	352681	412489	5.01%	0.319%
55	12.127	1702	1707	1710	rVV2	642148	953676	11.58%	0.737%
56	12.170	1710	1714	1718	rVB2	587972	878146	10.66%	0.679%
57	12.298	1729	1735	1739	rBV6	251776	568867	6.91%	0.440%
58	12.341	1739	1742	1747	rVB3	487236	723476	8.79%	0.559%
59	12.408	1747	1753	1758	rBV3	734511	1285315	15.61%	0.994%
60	12.487	1758	1766	1772	rBV4	283174	757342	9.20%	0.585%
61	12.566	1775	1779	1786	rVB2	698562	1290778	15.67%	0.998%
62	12.651	1786	1793	1797	rBV4	305439	757837	9.20%	0.586%
63	12.731	1799	1806	1811	rVV4	657928	1629296	19.79%	1.260%
64	12.786	1811	1815	1820	rVB5	317299	523109	6.35%	0.404%
65	12.871	1825	1829	1833	rVB4	271683	407244	4.95%	0.315%
66	12.932	1833	1839	1840	rBV2	223900	377577	4.59%	0.292%
67	12.962	1840	1844	1852	rVB	741872	1207577	14.66%	0.934%
68	13.090	1861	1865	1872	rBV7	211379	444152	5.39%	0.343%
69	13.170	1872	1878	1882	rVB5	237582	509709	6.19%	0.394%
70	13.243	1887	1890	1894	rVB2	403703	512817	6.23%	0.396%
71	13.346	1902	1907	1914	rVB	606020	1001197	12.16%	0.774%
72	13.487	1921	1930	1931	rBV6	171226	398670	4.84%	0.308%
73	13.511	1931	1934	1944	rVB2	628486	1161446	14.10%	0.898%
74	13.596	1944	1948	1954	rBV2	201953	440626	5.35%	0.341%
75	13.670	1954	1960	1965	rVV3	984256	1808205	21.96%	1.398%
76	13.773	1973	1977	1984	rVV6	245187	654759	7.95%	0.506%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022347.D
 Acq On : 20 May 2025 16:56
 Operator : SY/MD
 Sample : Q2032-01
 Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-11

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_Y\methods\82Y051525S.M
 Title : SW846 8260

77	13.889	1992	1996	2001	rVV	1891839	2896010	35.17%	2.239%
78	13.944	2001	2005	2008	rVV2	201781	360826	4.38%	0.279%
79	13.999	2008	2014	2018	rVV3	594806	1044085	12.68%	0.807%
80	14.066	2018	2025	2030	rVV3	331966	773292	9.39%	0.598%
81	14.182	2039	2044	2045	rVV3	631876	954477	11.59%	0.738%
82	14.212	2046	2049	2057	rVB2	1218547	2021306	24.55%	1.563%
83	14.298	2058	2063	2067	rBV2	676021	1137942	13.82%	0.880%
84	14.334	2067	2069	2073	rVV3	404319	593317	7.20%	0.459%
85	14.395	2077	2079	2082	rVV2	268557	392627	4.77%	0.304%
86	14.438	2083	2086	2090	rVB2	286063	382811	4.65%	0.296%
87	14.487	2090	2094	2098	rBV4	217828	422831	5.13%	0.327%
88	14.535	2098	2102	2106	rVB2	370642	533776	6.48%	0.413%
89	14.596	2106	2112	2117	rBV3	1031304	2011699	24.43%	1.555%
90	14.657	2117	2122	2127	rVV	759263	1177442	14.30%	0.910%
91	14.858	2150	2155	2159	rVV3	1302986	2267076	27.53%	1.753%
92	14.895	2159	2161	2167	rVV2	681352	1159755	14.08%	0.897%
93	14.968	2167	2173	2179	rVB2	1168867	2266320	27.52%	1.752%
94	15.114	2192	2197	2205	rVB4	263564	538284	6.54%	0.416%
95	15.249	2214	2219	2223	rBV	423367	684736	8.31%	0.529%
96	15.297	2223	2227	2231	rVB	252037	376217	4.57%	0.291%
97	15.431	2242	2249	2255	rBV	520059	975818	11.85%	0.754%
98	15.590	2265	2275	2284	rVB4	304703	1025415	12.45%	0.793%
99	15.712	2290	2295	2300	rVB	215829	371502	4.51%	0.287%
100	15.773	2300	2305	2311	rVV3	265284	587486	7.13%	0.454%

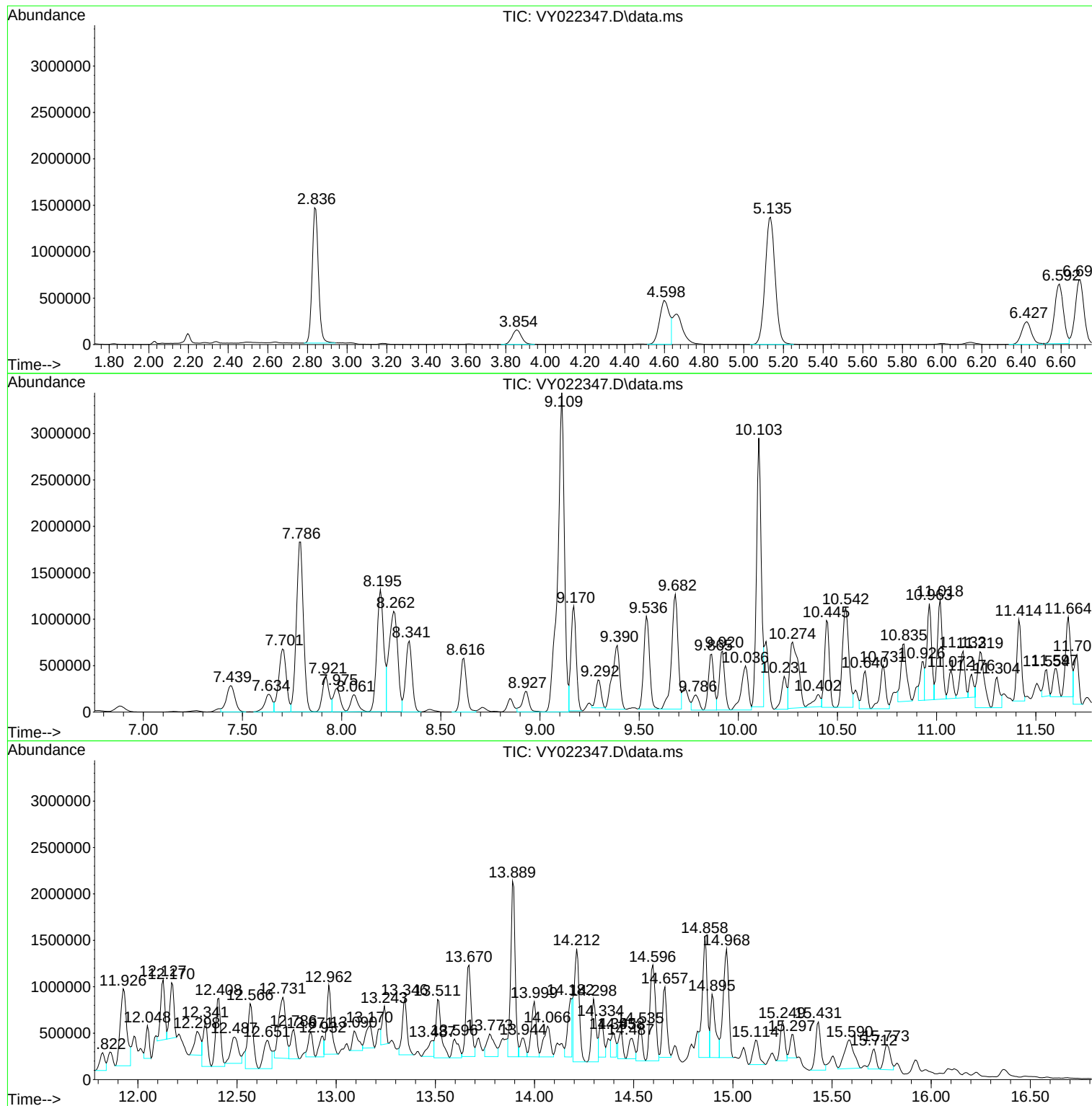
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

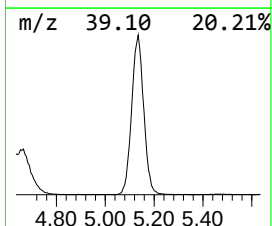
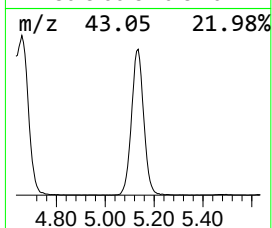
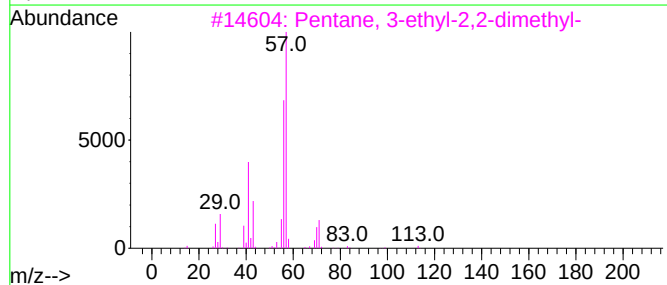
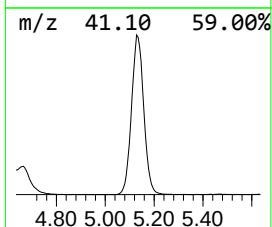
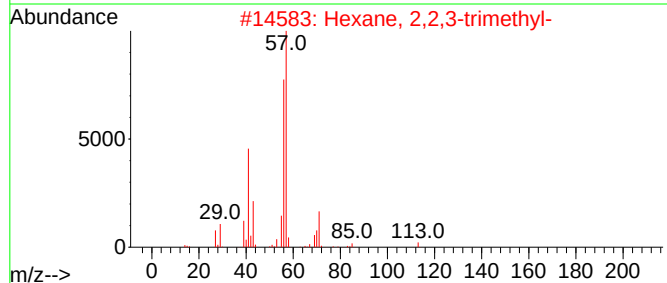
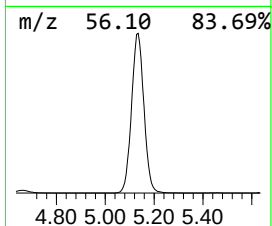
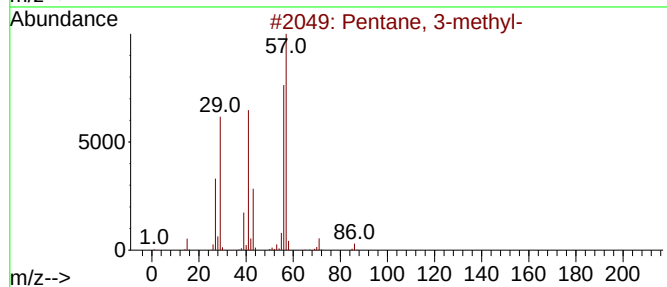
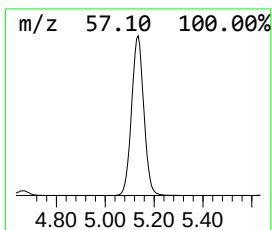
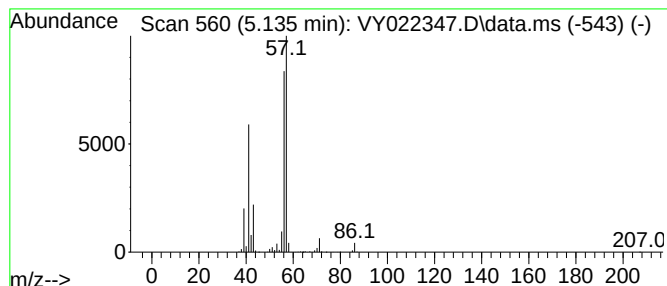
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 1 Pentane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.135	132.58 ug/l	4788440	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	83
3			Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	43
4			3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	42
5			1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

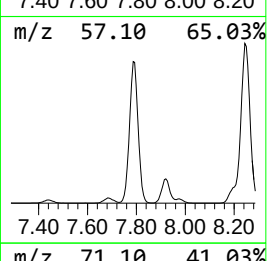
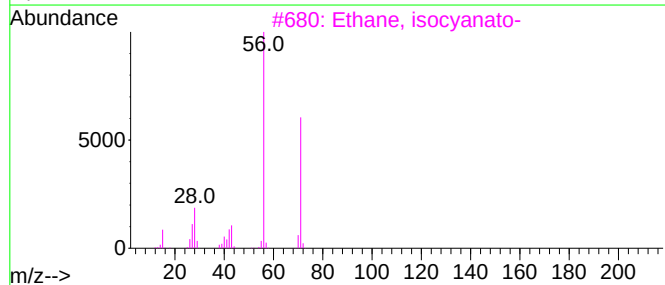
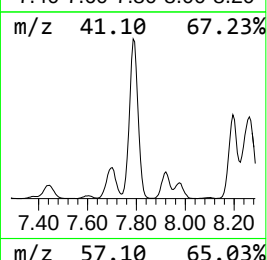
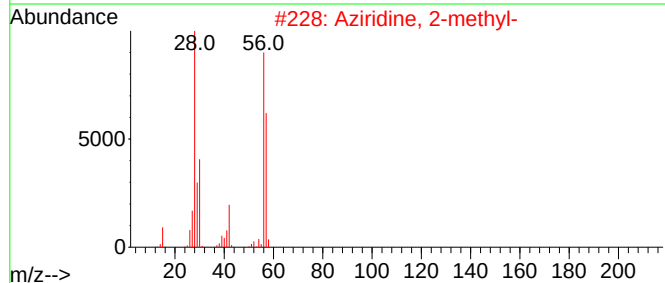
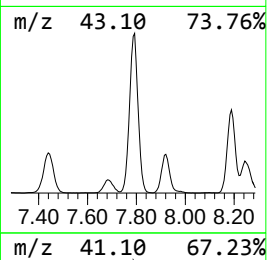
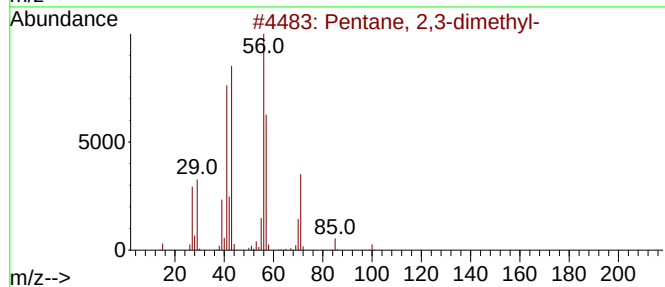
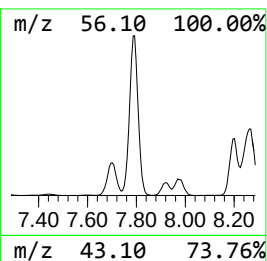
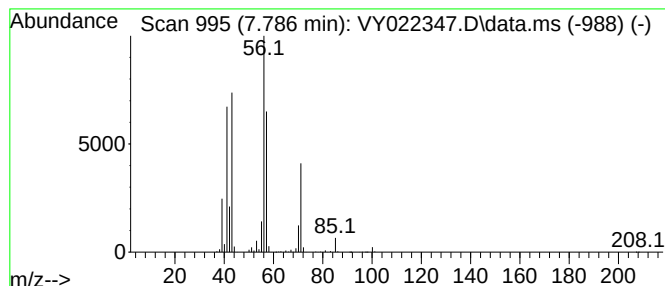
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 2 Pentane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.786	124.73 ug/l	4504940	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2			Aziridine, 2-methyl-	57	C3H7N	000075-55-8	43
3			Ethane, isocyanato-	71	C3H5NO	000109-90-0	42
4			Hexane, 3-methyl-	100	C7H16	000589-34-4	38
5			Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

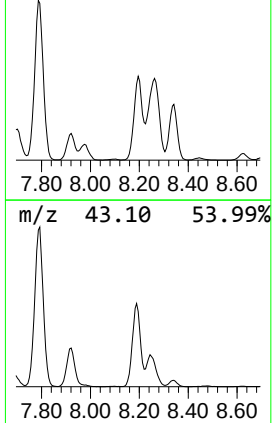
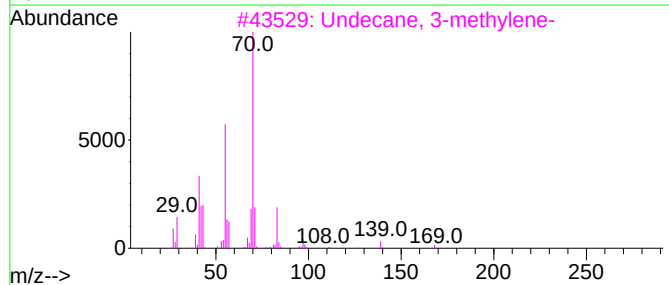
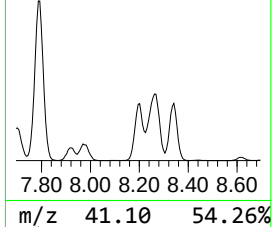
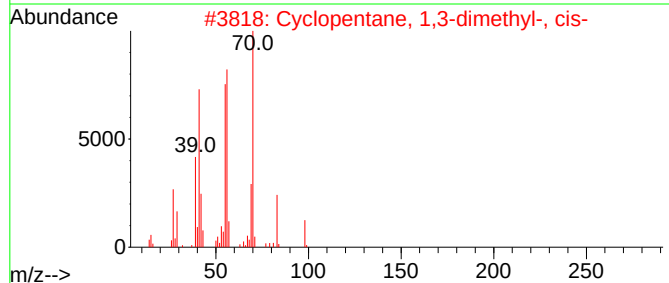
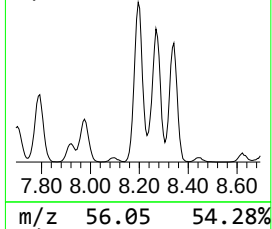
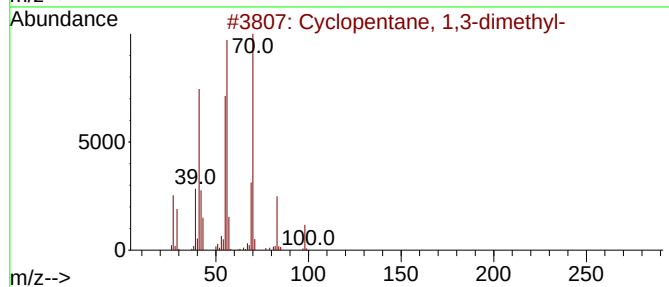
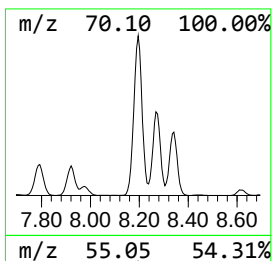
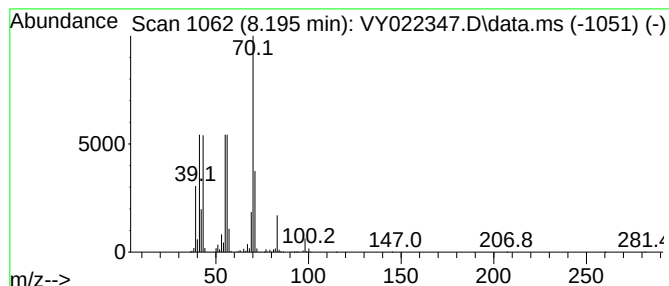
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.195	133.24 ug/l	3248780	1,4-Difluorobenzene	8.616

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	70
2			Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	64
3			Undecane, 3-methylene-	168	C12H24	071138-64-2	59
4			Octane, 3-methyl-6-methylene-	140	C10H20	074630-07-2	59
5			Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

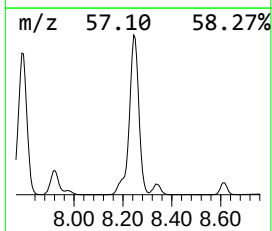
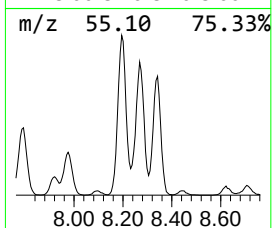
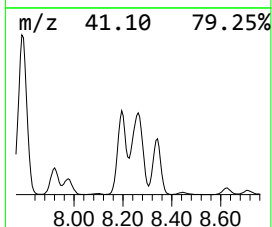
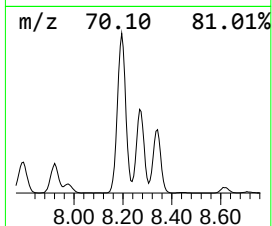
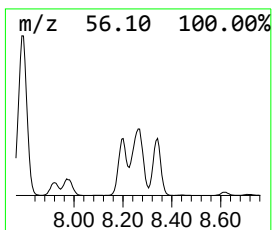
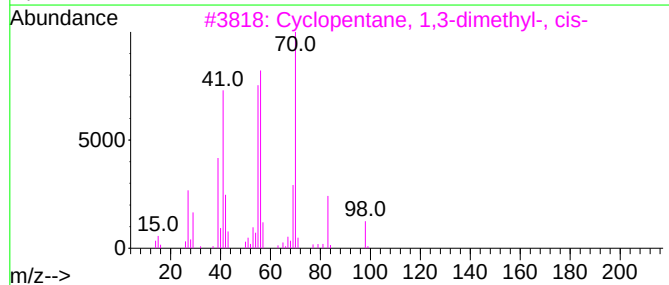
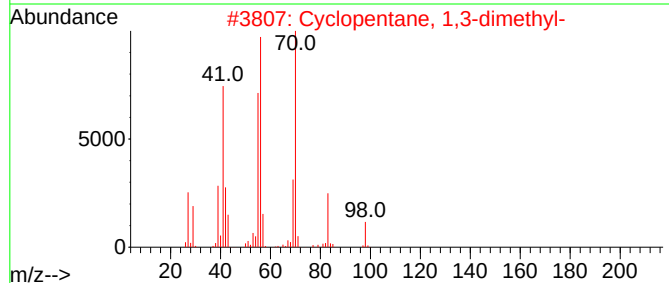
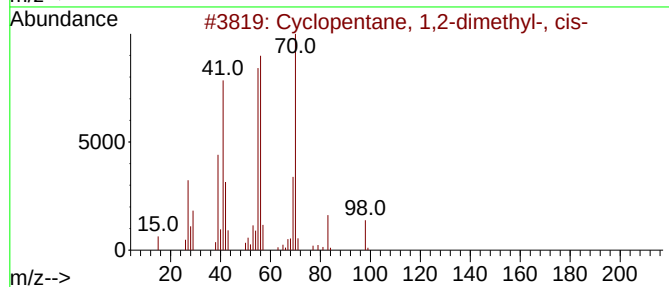
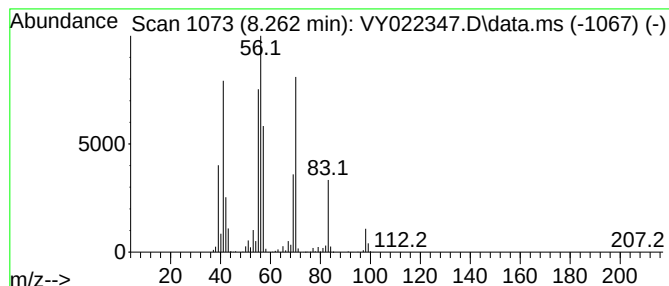
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 4 Cyclopentane, 1,2-dimethyl-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.262	132.48 ug/l	3230170	1,4-Difluorobenzene	8.616

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	91
2			Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	87
3			Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	83
4			Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	76
5			2H-Pyran-2,6(3H)-dione, dihydro-...	142	C7H10O3	004160-82-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

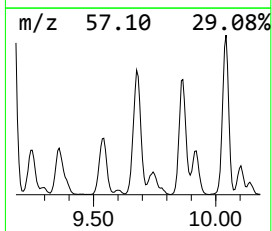
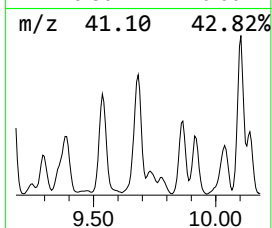
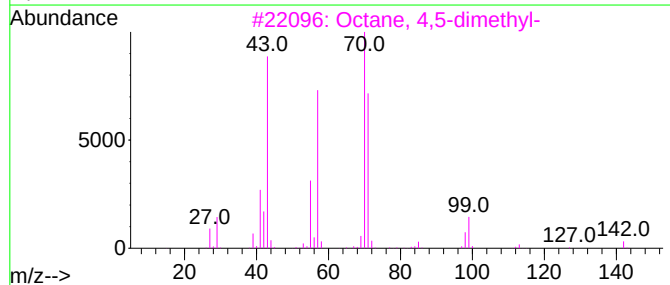
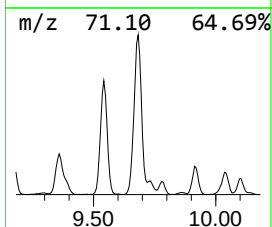
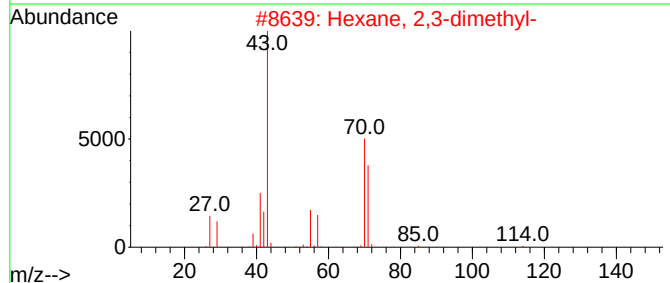
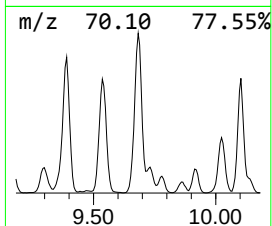
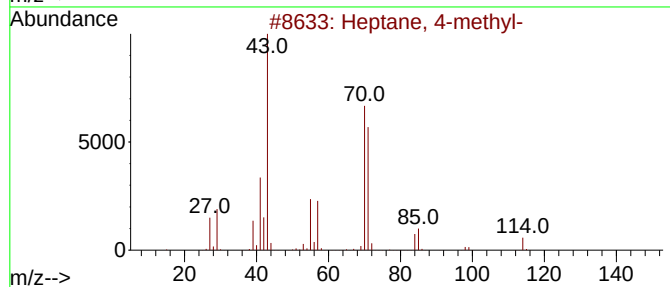
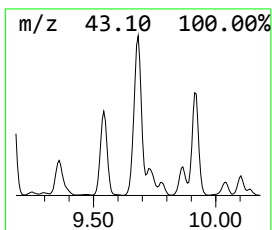
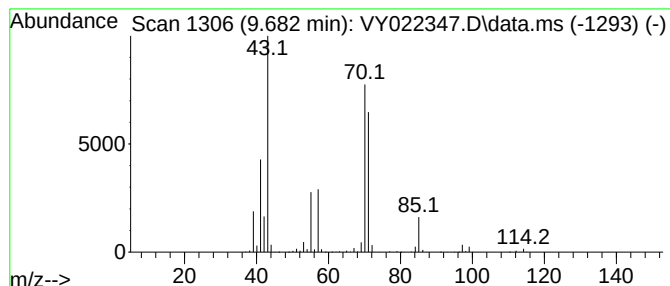
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 5 Heptane, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.682	115.54 ug/l	2817290	1,4-Difluorobenzene	8.616

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 4-methyl-	114	C8H18	000589-53-7	78
2			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
3			Octane, 4,5-dimethyl-	142	C10H22	015869-96-2	72
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
5			Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

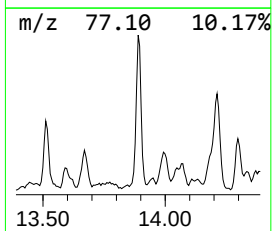
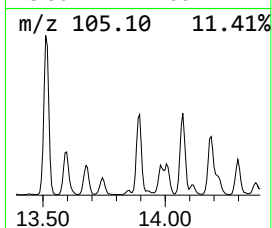
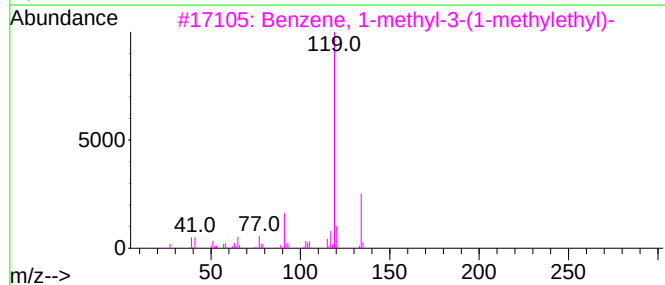
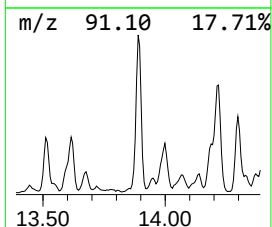
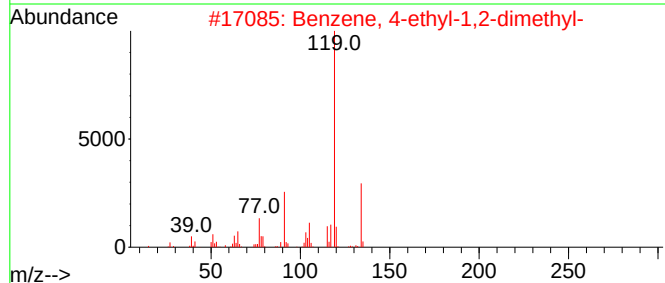
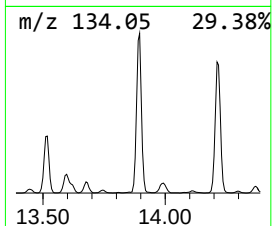
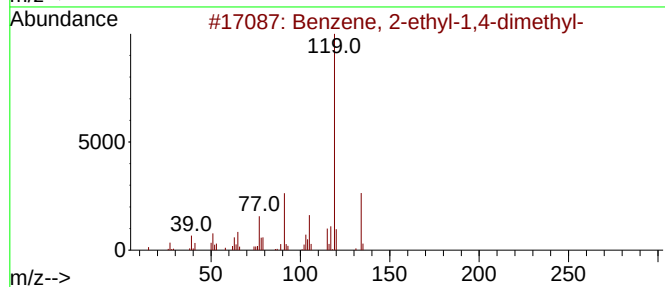
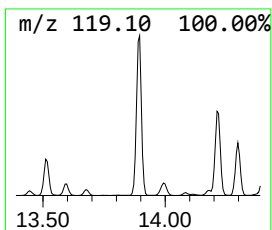
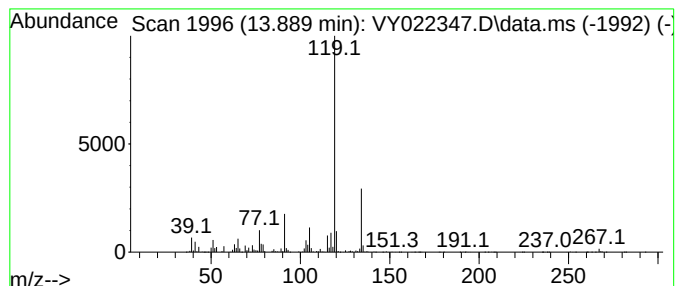
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 6 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	144.63 ug/l	2896010	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4			o-Cymene	134	C10H14	000527-84-4	95
5			p-Cymene	134	C10H14	000099-87-6	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

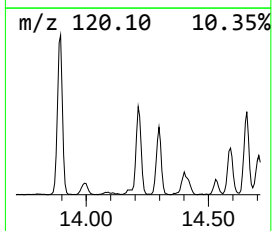
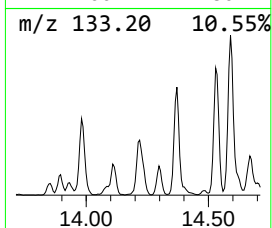
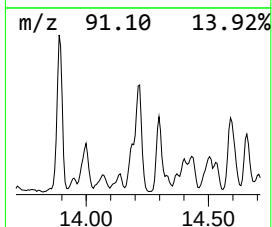
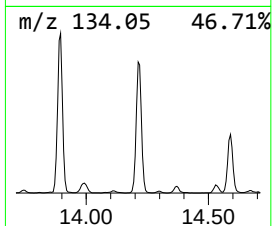
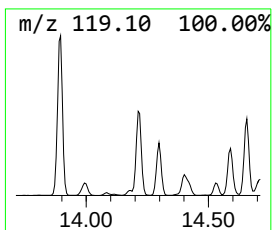
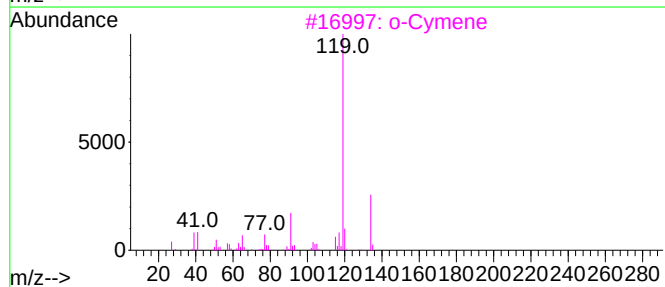
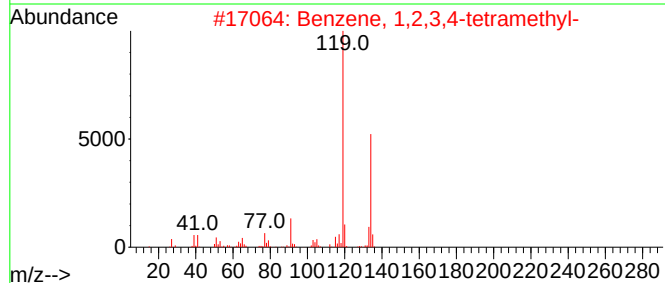
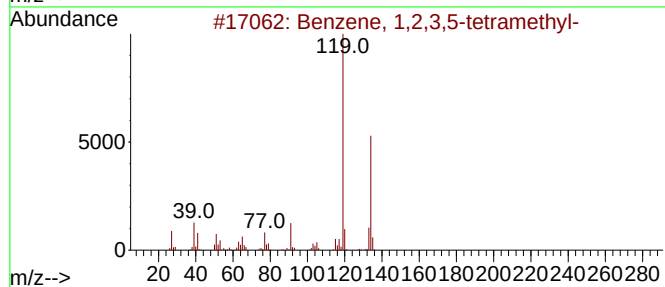
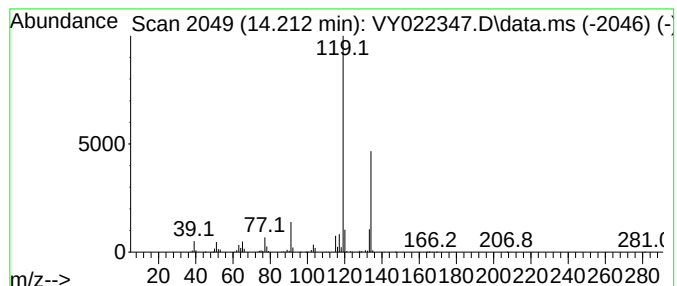
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.212	100.94 ug/l	2021310	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
2			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
3			o-Cymene	134	C10H14	000527-84-4	94
4			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5			p-Cymene	134	C10H14	000099-87-6	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

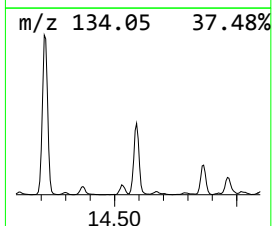
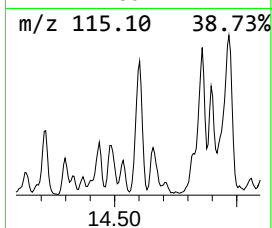
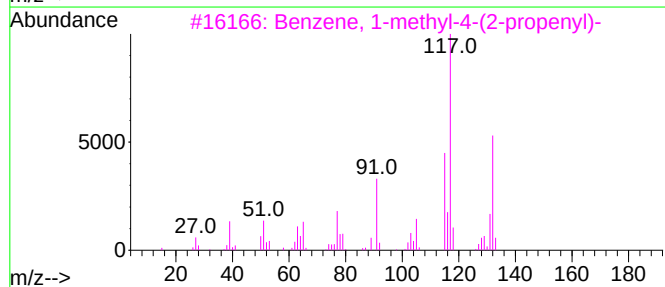
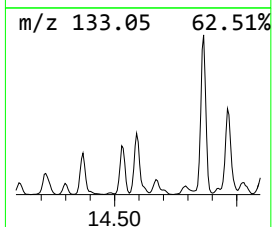
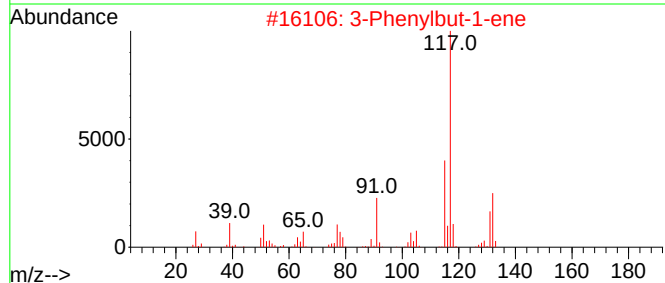
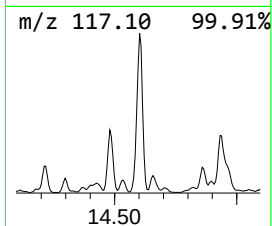
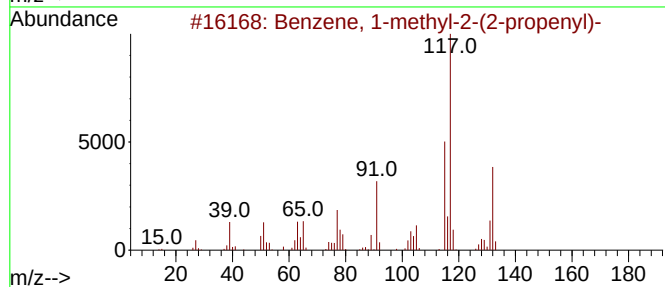
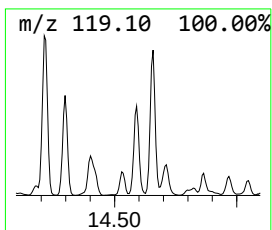
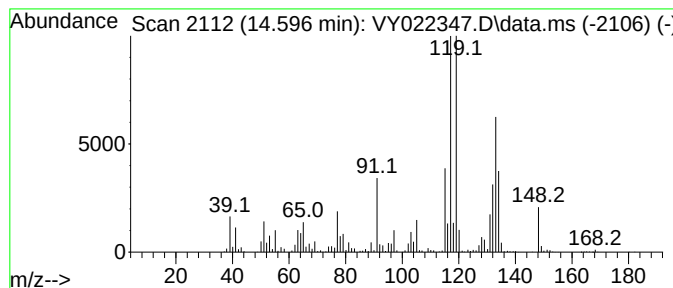
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Quant Title : SW846 8260

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

Peak Number 8 Benzene, 1-methyl-2-(2-prop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	100.47 ug/l	2011700	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	87
2			3-Phenylbut-1-ene	132	C10H12	000934-10-1	86
3			Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	64
4			Benzene, 2-butenyl-	132	C10H12	001560-06-1	64
5			Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

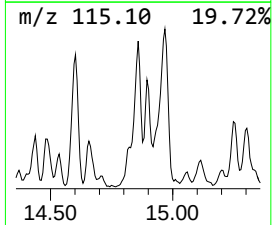
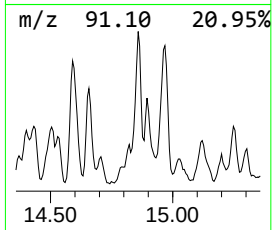
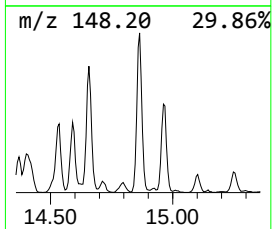
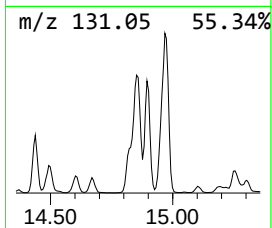
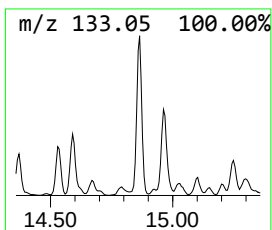
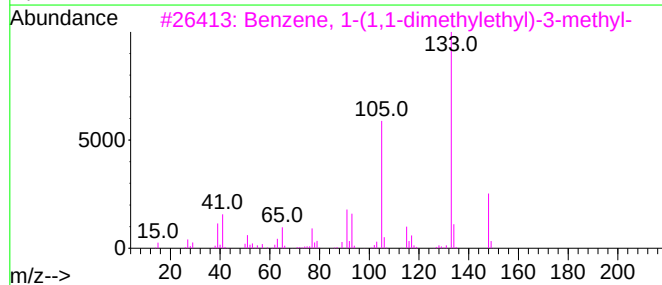
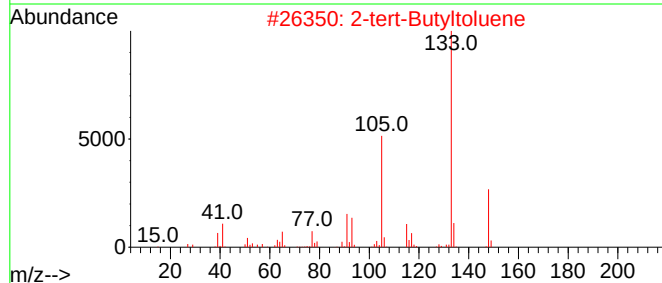
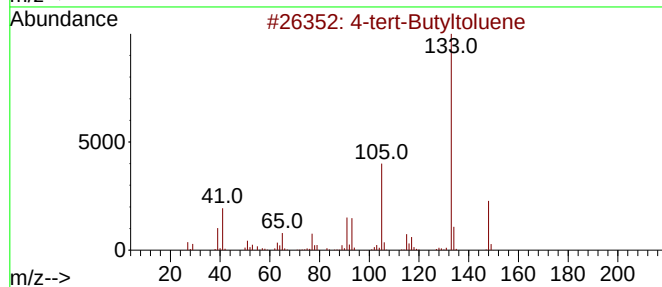
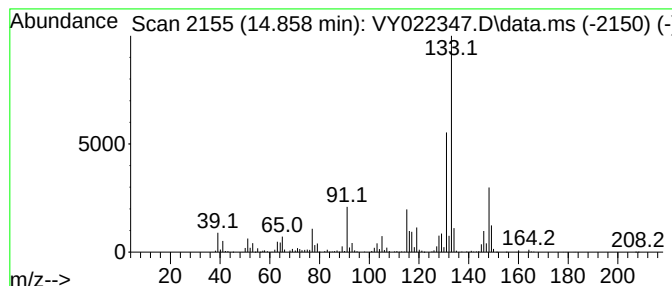
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 9 unknown14.858 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.858	113.22 ug/l	2267080	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4-tert-Butyltoluene	148	C11H16	000098-51-1	49
2			2-tert-Butyltoluene	148	C11H16	001074-92-6	49
3			Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	49
4			Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	49
5			1,5,6,7-Tetramethylbicyclo[3.2.0...	148	C11H16	134329-46-7	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

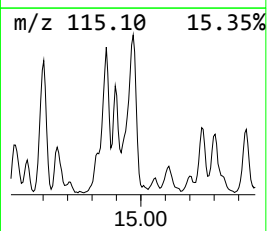
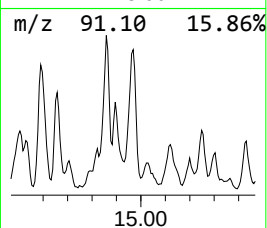
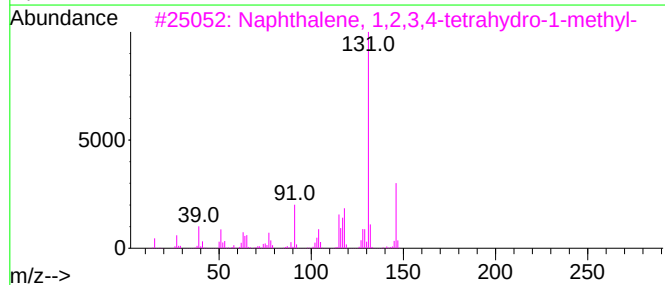
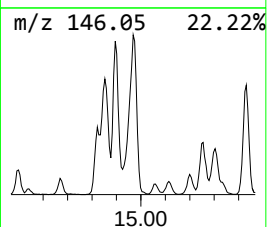
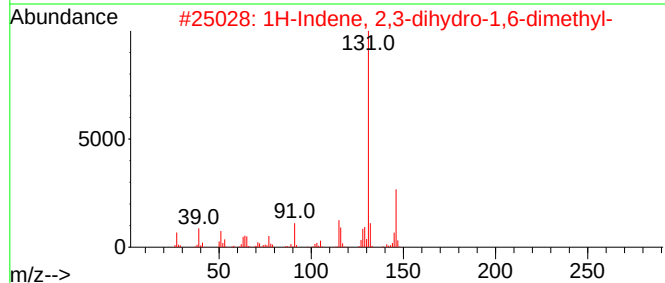
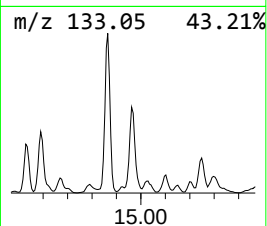
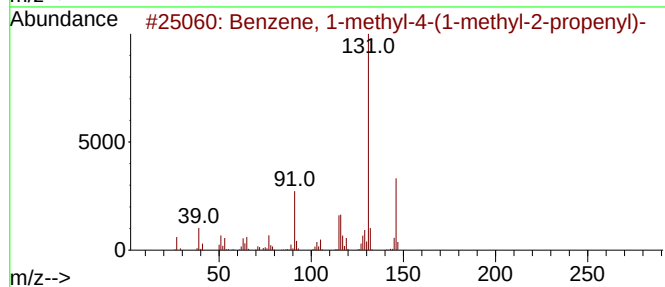
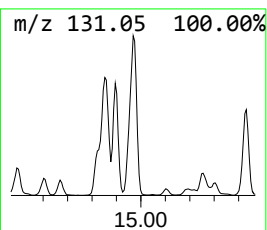
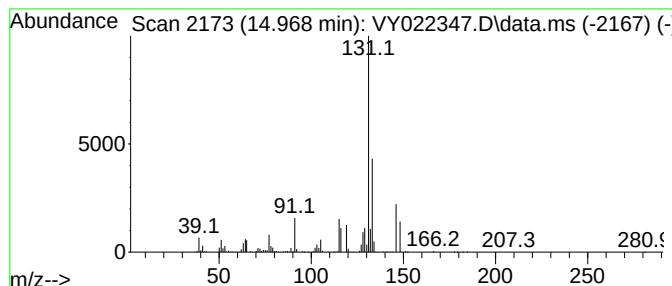
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 10 Benzene, 1-methyl-4-(1-meth... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.968	113.18 ug/l	2266320	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	70
2			1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	64
3			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	64
4			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	64
5			Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022347.D
Acq On : 20 May 2025 16:56
Operator : SY/MD
Sample : Q2032-01
Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Pentane, 3-methyl-	5.135	132.6	ug/l	4788440	1	7.707	1805850	50.0
Pentane, 2,3-di...	7.786	124.7	ug/l	4504940	1	7.707	1805850	50.0
Cyclopentane, 1...	8.195	133.2	ug/l	3248780	2	8.616	1219140	50.0
Cyclopentane, 1...	8.262	132.5	ug/l	3230170	2	8.616	1219140	50.0
Heptane, 4-methyl-	9.682	115.5	ug/l	2817290	2	8.616	1219140	50.0
Benzene, 2-ethy...	13.889	144.6	ug/l	2896010	4	13.347	1001200	50.0
Benzene, 1,2,3,...	14.212	100.9	ug/l	2021310	4	13.347	1001200	50.0
Benzene, 1-meth...	14.596	100.5	ug/l	2011700	4	13.347	1001200	50.0
unknown14.858	14.858	113.2	ug/l	2267080	4	13.347	1001200	50.0
Benzene, 1-meth...	14.968	113.2	ug/l	2266320	4	13.347	1001200	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11ME	SDG No.:	Q2032
Lab Sample ID:	Q2032-01ME	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.89 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	110	UD	110	480	ug/Kg
74-87-3	Chloromethane	110	UD	110	480	ug/Kg
75-01-4	Vinyl Chloride	75.1	UD	75.1	480	ug/Kg
74-83-9	Bromomethane	100	UD	100	480	ug/Kg
75-00-3	Chloroethane	120	UD	120	480	ug/Kg
75-69-4	Trichlorofluoromethane	120	UD	120	480	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	100	UD	100	480	ug/Kg
75-35-4	1,1-Dichloroethene	95.1	UD	95.1	480	ug/Kg
67-64-1	Acetone	450	UD	450	2400	ug/Kg
75-15-0	Carbon Disulfide	100	UD	100	480	ug/Kg
1634-04-4	Methyl tert-butyl Ether	69.4	UD	69.4	480	ug/Kg
79-20-9	Methyl Acetate	150	UD	150	480	ug/Kg
75-09-2	Methylene Chloride	340	UD	340	950	ug/Kg
156-60-5	trans-1,2-Dichloroethene	81.8	UD	81.8	480	ug/Kg
75-34-3	1,1-Dichloroethane	76.1	UD	76.1	480	ug/Kg
110-82-7	Cyclohexane	75.1	UD	75.1	480	ug/Kg
78-93-3	2-Butanone	620	UD	620	2400	ug/Kg
56-23-5	Carbon Tetrachloride	92.3	UD	92.3	480	ug/Kg
156-59-2	cis-1,2-Dichloroethene	71.3	UD	71.3	480	ug/Kg
74-97-5	Bromochloromethane	110	UD	110	480	ug/Kg
67-66-3	Chloroform	79.9	UD	79.9	480	ug/Kg
71-55-6	1,1,1-Trichloroethane	88.5	UD	88.5	480	ug/Kg
108-87-2	Methylcyclohexane	310	JD	86.6	480	ug/Kg
71-43-2	Benzene	75.1	UD	75.1	480	ug/Kg
107-06-2	1,2-Dichloroethane	75.1	UD	75.1	480	ug/Kg
79-01-6	Trichloroethene	77.0	UD	77.0	480	ug/Kg
78-87-5	1,2-Dichloropropane	86.6	UD	86.6	480	ug/Kg
75-27-4	Bromodichloromethane	74.2	UD	74.2	480	ug/Kg
108-10-1	4-Methyl-2-Pentanone	340	UD	340	2400	ug/Kg
108-88-3	Toluene	74.2	UD	74.2	480	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11ME	SDG No.:	Q2032
Lab Sample ID:	Q2032-01ME	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.89 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	61.8	UD	61.8	480	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	59.0	UD	59.0	480	ug/Kg
79-00-5	1,1,2-Trichloroethane	87.5	UD	87.5	480	ug/Kg
591-78-6	2-Hexanone	350	UD	350	2400	ug/Kg
124-48-1	Dibromochloromethane	82.7	UD	82.7	480	ug/Kg
106-93-4	1,2-Dibromoethane	83.7	UD	83.7	480	ug/Kg
127-18-4	Tetrachloroethene	99.9	UD	99.9	480	ug/Kg
108-90-7	Chlorobenzene	86.6	UD	86.6	480	ug/Kg
100-41-4	Ethyl Benzene	63.7	UD	63.7	480	ug/Kg
179601-23-1	m/p-Xylenes	120	UD	120	950	ug/Kg
95-47-6	o-Xylene	78.0	UD	78.0	480	ug/Kg
100-42-5	Styrene	67.5	UD	67.5	480	ug/Kg
75-25-2	Bromoform	81.8	UD	81.8	480	ug/Kg
98-82-8	Isopropylbenzene	74.2	UD	74.2	480	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	120	UD	120	480	ug/Kg
541-73-1	1,3-Dichlorobenzene	160	UD	160	480	ug/Kg
106-46-7	1,4-Dichlorobenzene	150	UD	150	480	ug/Kg
95-50-1	1,2-Dichlorobenzene	140	UD	140	480	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	180	UD	180	480	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	280	UD	280	480	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	300	UD	300	480	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.6		63 - 155	87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	51.6		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		38 - 136	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	229000	8.218			
540-36-3	1,4-Difluorobenzene	425000	9.094			
3114-55-4	Chlorobenzene-d5	399000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	173000	13.788			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11ME	SDG No.:	Q2032
Lab Sample ID:	Q2032-01ME	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.3
Sample Wt/Vol:	6.89 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086744.D	1		05/21/25 20:18	VN052125

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_N\Data\VN052125\
 Data File : VN086744.D
 Acq On : 21 May 2025 20:18
 Operator : JC\MD
 Sample : Q2032-01ME
 Misc : 6.89g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11ME

Quant Time: May 22 01:31:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

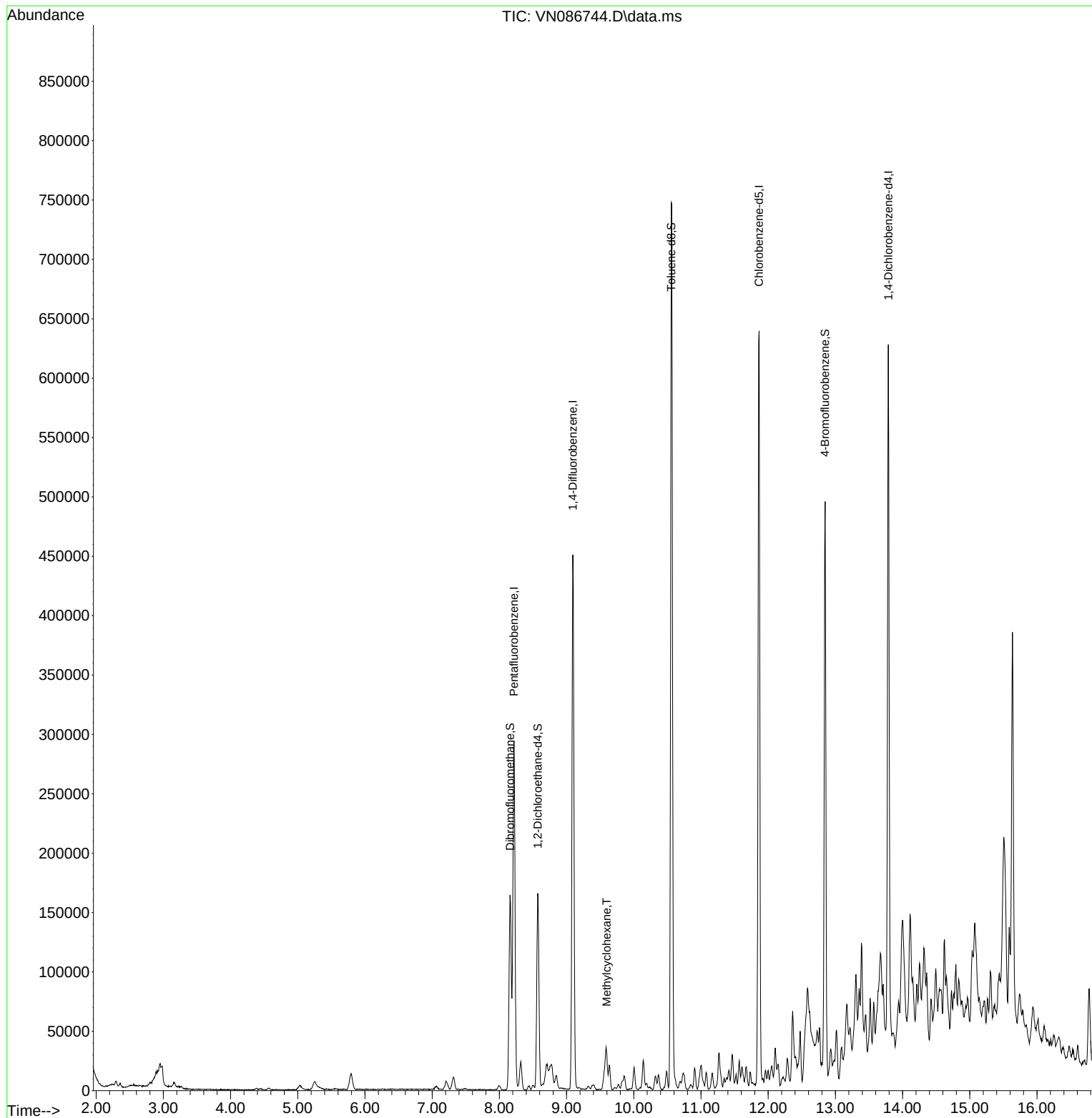
Internal Standards						
1) Pentafluorobenzene	8.218	168	228680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	425329	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	398917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	172654	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	137758	43.595	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.200%		
35) Dibromofluoromethane	8.159	113	124487	49.146	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.300%		
50) Toluene-d8	10.559	98	542032	51.637	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.280%		
62) 4-Bromofluorobenzene	12.847	95	182379	49.206	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.420%		
Target Compounds						
39) Methylcyclohexane	9.594	83	13149	3.252	ug/l	98

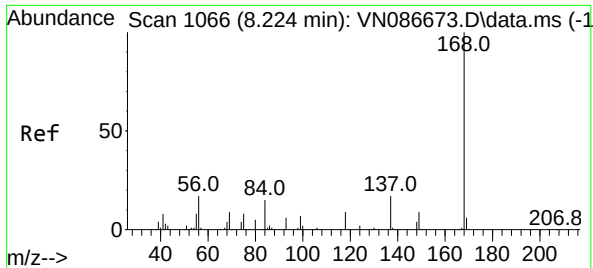
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086744.D
Acq On : 21 May 2025 20:18
Operator : JC\MD
Sample : Q2032-01ME
Misc : 6.89g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-11ME

Quant Time: May 22 01:31:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086744.D

Acq: 21 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

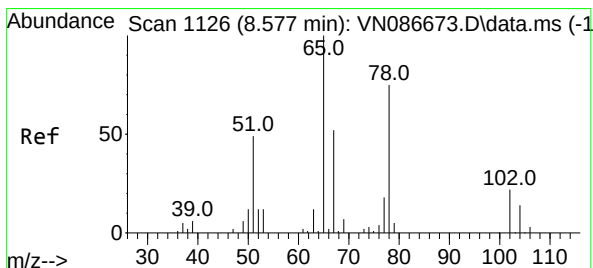
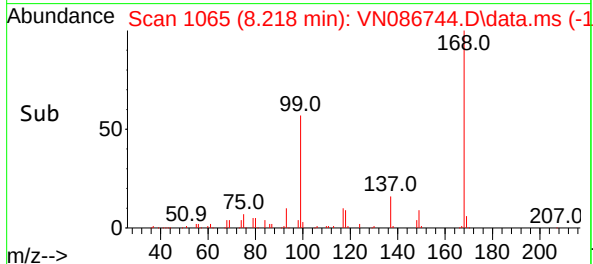
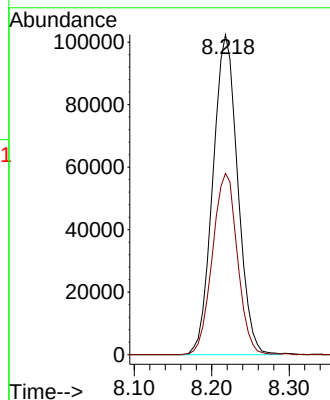
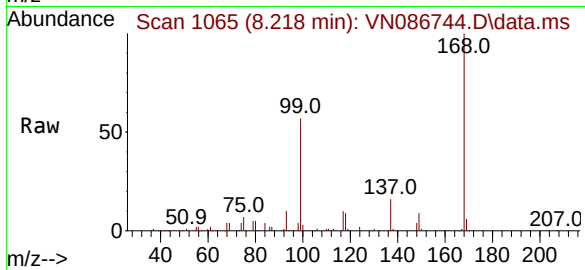
TP-11ME

Tgt Ion:168 Resp: 228680

Ion Ratio Lower Upper

168 100

99 56.6 47.0 70.4



#33

1,2-Dichloroethane-d4

Concen: 43.595 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VN086744.D

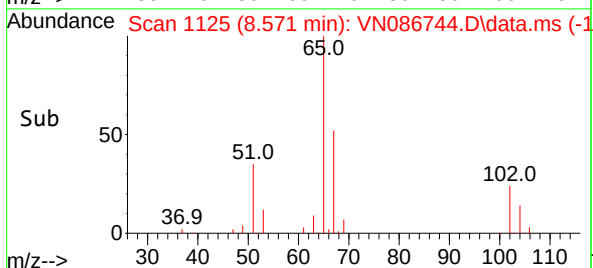
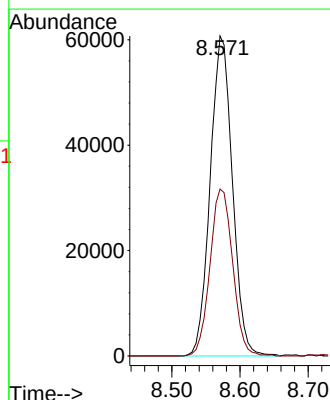
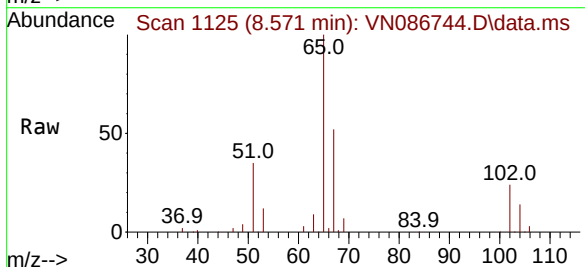
Acq: 21 May 2025 20:18

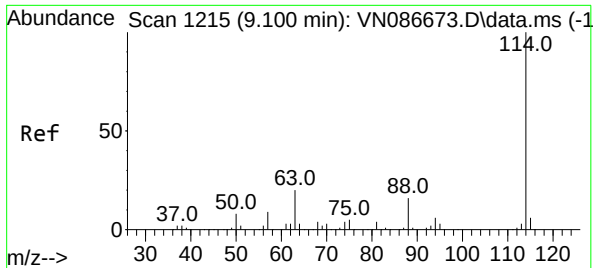
Tgt Ion: 65 Resp: 137758

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086744.D

Acq: 21 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-11ME

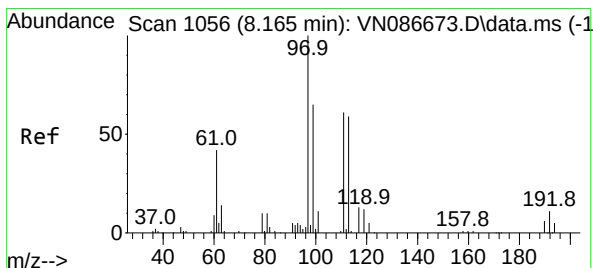
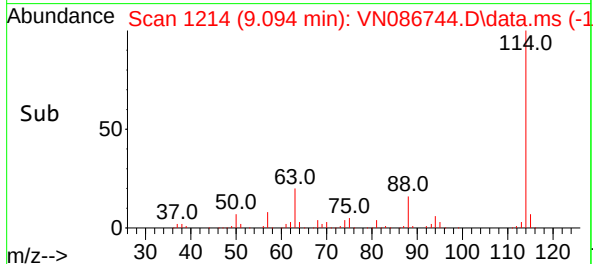
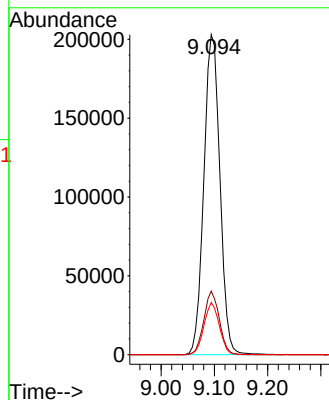
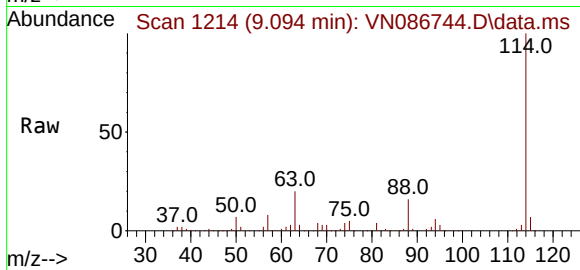
Tgt Ion:114 Resp: 425329

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.2

88 16.3 0.0 31.2



#35

Dibromofluoromethane

Concen: 49.146 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086744.D

Acq: 21 May 2025 20:18

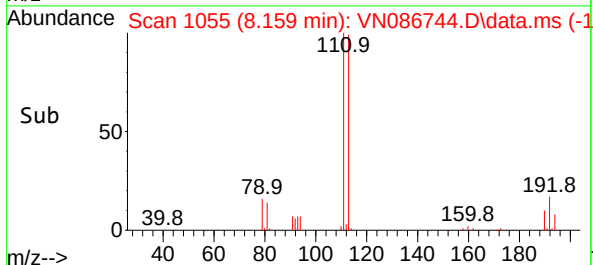
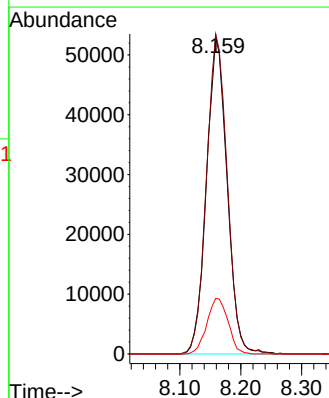
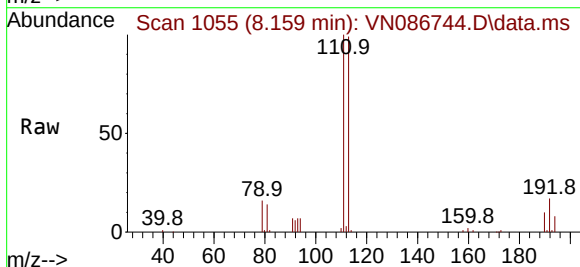
Tgt Ion:113 Resp: 124487

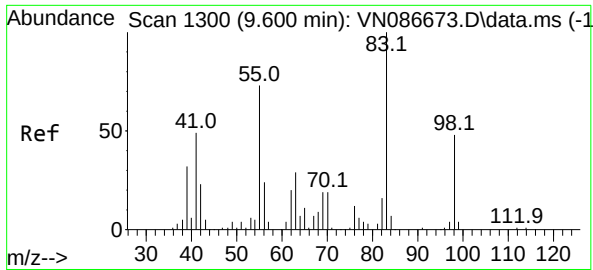
Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.2

192 18.0 13.8 20.8





#39

Methylcyclohexane

Concen: 3.252 ug/l

RT: 9.594 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086744.D

Acq: 21 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-11ME

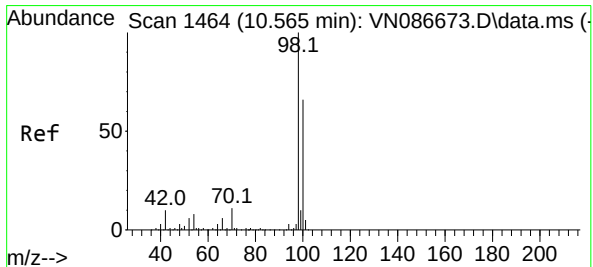
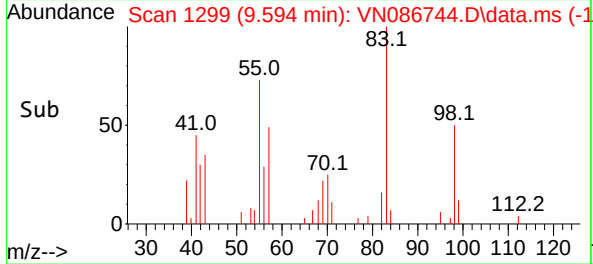
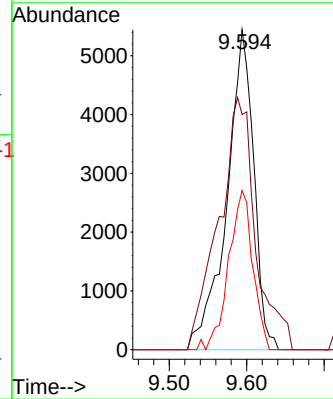
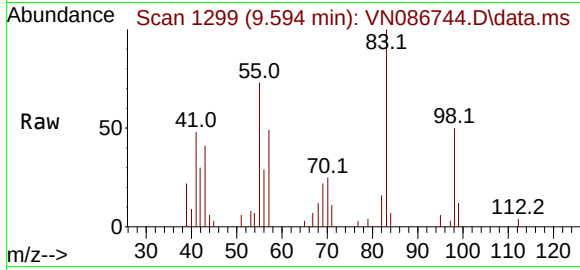
Tgt Ion: 83 Resp: 13149

Ion Ratio Lower Upper

83 100

55 73.5 58.2 87.4

98 49.8 38.4 57.6



#50

Toluene-d8

Concen: 51.637 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN086744.D

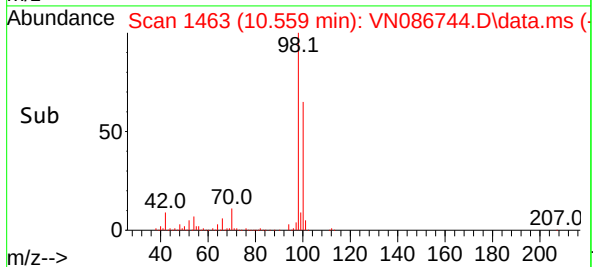
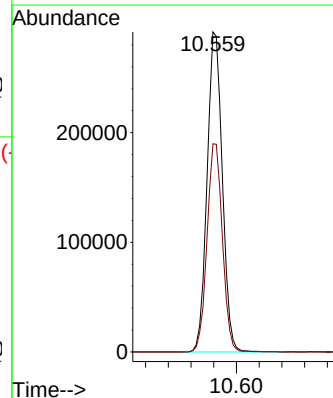
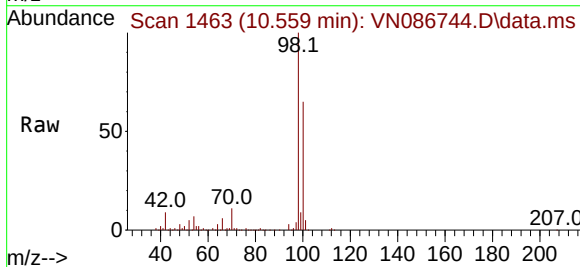
Acq: 21 May 2025 20:18

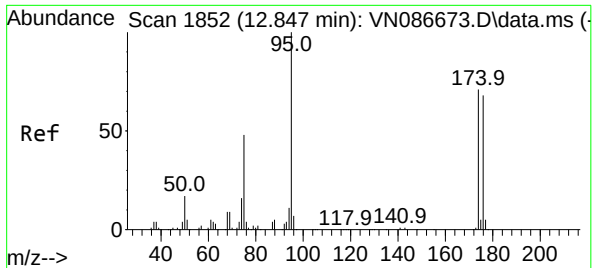
Tgt Ion: 98 Resp: 542032

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3

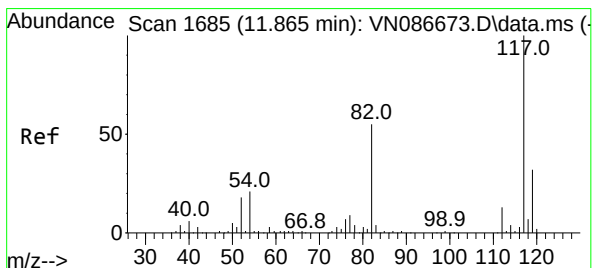
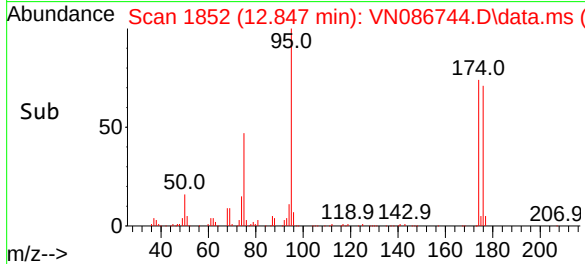
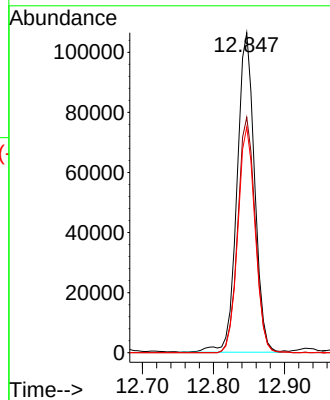
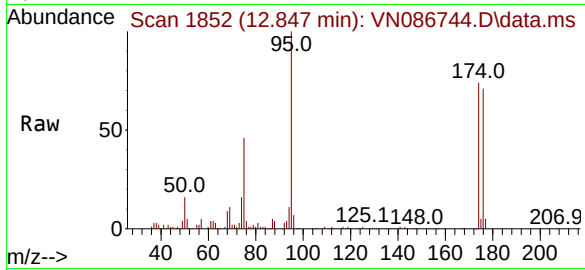




#62
4-Bromofluorobenzene
Concen: 49.206 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086744.D
Acq: 21 May 2025 20:18

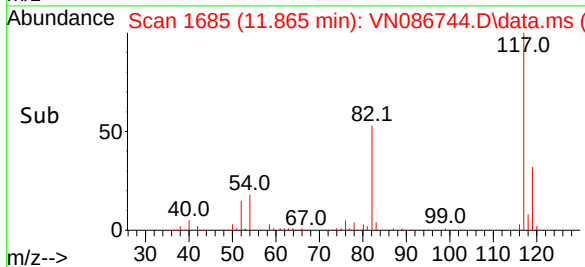
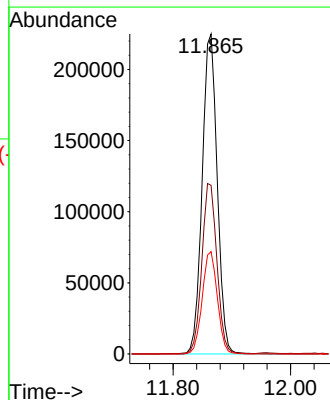
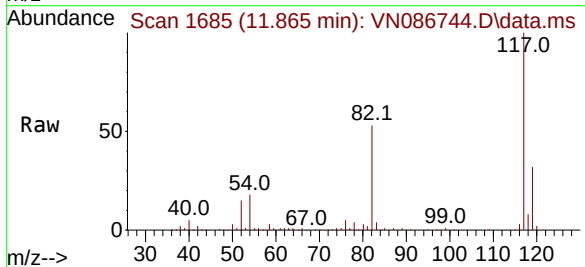
Instrument :
MSVOA_N
ClientSampleId :
TP-11ME

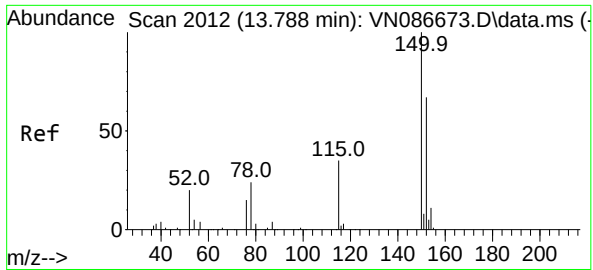
Tgt Ion: 95 Resp: 182379
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.4
176 69.6 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086744.D
Acq: 21 May 2025 20:18

Tgt Ion: 117 Resp: 398917
Ion Ratio Lower Upper
117 100
82 52.5 44.2 66.2
119 32.0 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086744.D

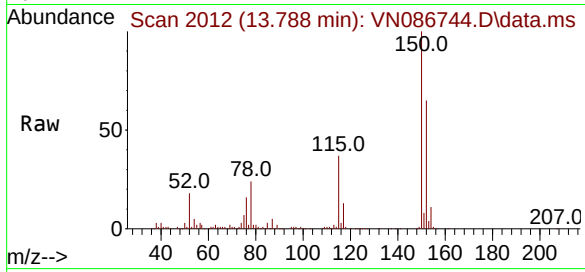
Acq: 21 May 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

TP-11ME



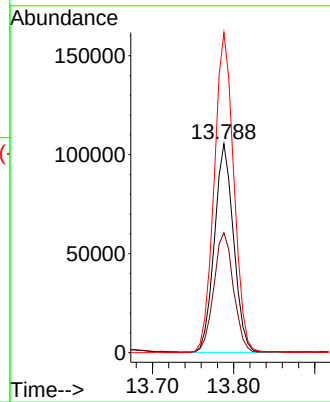
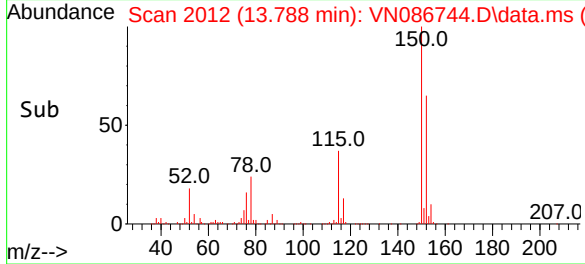
Tgt Ion:152 Resp: 172654

Ion Ratio Lower Upper

152 100

115 58.6 30.0 90.1

150 157.4 0.0 347.8



Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.80	U	0.80	3.50	ug/Kg
74-87-3	Chloromethane	0.80	UQ	0.80	3.50	ug/Kg
75-01-4	Vinyl Chloride	0.56	UQ	0.56	3.50	ug/Kg
74-83-9	Bromomethane	0.76	UQ	0.76	3.50	ug/Kg
75-00-3	Chloroethane	0.89	UQ	0.89	3.50	ug/Kg
75-69-4	Trichlorofluoromethane	0.85	UQ	0.85	3.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.75	U	0.75	3.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.71	U	0.71	3.50	ug/Kg
67-64-1	Acetone	3.30	U	3.30	17.6	ug/Kg
75-15-0	Carbon Disulfide	0.75	U	0.75	3.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.50	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.50	ug/Kg
75-09-2	Methylene Chloride	2.50	U	2.50	7.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.61	U	0.61	3.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.56	U	0.56	3.50	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	3.50	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	17.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.68	U	0.68	3.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	3.50	ug/Kg
74-97-5	Bromochloromethane	0.81	U	0.81	3.50	ug/Kg
67-66-3	Chloroform	0.59	U	0.59	3.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.66	U	0.66	3.50	ug/Kg
108-87-2	Methylcyclohexane	0.64	U	0.64	3.50	ug/Kg
71-43-2	Benzene	0.56	U	0.56	3.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	3.50	ug/Kg
79-01-6	Trichloroethene	0.57	U	0.57	3.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.64	U	0.64	3.50	ug/Kg
75-27-4	Bromodichloromethane	0.55	U	0.55	3.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.50	U	2.50	17.6	ug/Kg
108-88-3	Toluene	0.55	U	0.55	3.50	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.46	U	0.46	3.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.44	3.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.50	ug/Kg
591-78-6	2-Hexanone	2.60	U	2.60	17.6	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	3.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.62	U	0.62	3.50	ug/Kg
127-18-4	Tetrachloroethene	0.74	U	0.74	3.50	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	3.50	ug/Kg
100-41-4	Ethyl Benzene	0.47	U	0.47	3.50	ug/Kg
179601-23-1	m/p-Xylenes	0.87	U	0.87	7.10	ug/Kg
95-47-6	o-Xylene	0.58	U	0.58	3.50	ug/Kg
100-42-5	Styrene	0.50	U	0.50	3.50	ug/Kg
75-25-2	Bromoform	0.61	U	0.61	3.50	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	3.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.85	3.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	3.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.10	U	1.10	3.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.00	U	1.00	3.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	3.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.10	U	2.10	3.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.20	U	2.20	3.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		38 - 136	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	7.707			
540-36-3	1,4-Difluorobenzene	439000	8.616			
3114-55-4	Chlorobenzene-d5	347000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.1
Sample Wt/Vol:	8.23	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022342.D	1		05/20/25 14:59	VY052025

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_Y\Data\VY052025\
 Data File : VY022342.D
 Acq On : 20 May 2025 14:59
 Operator : SY/MD
 Sample : Q2003-02
 Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-29

Quant Time: May 21 01:49:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	242950	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	438802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	347338	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	124373	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129306	48.699	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.400%
35) Dibromofluoromethane	7.634	113	129394	49.405	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.820%
50) Toluene-d8	10.103	98	519822	48.462	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.920%
62) 4-Bromofluorobenzene	12.408	95	157109	46.210	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	92.420%

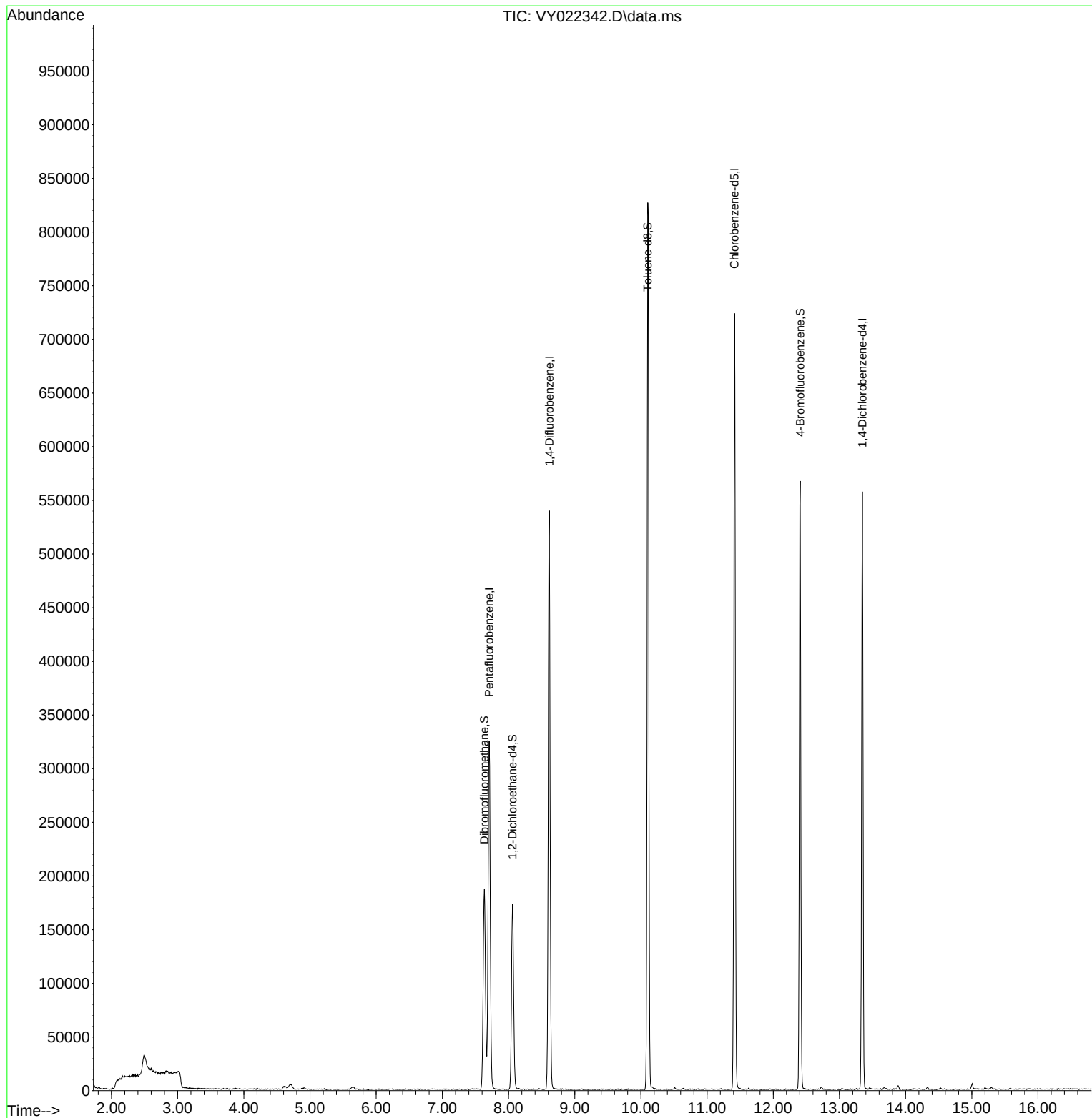
Target Compounds	Qvalue

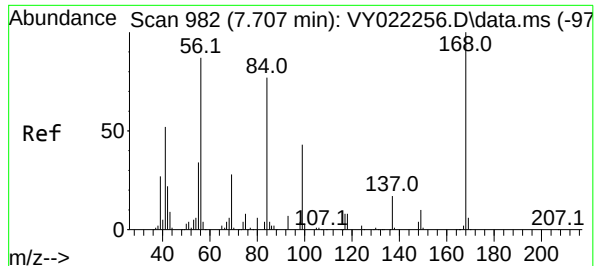
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022342.D
Acq On : 20 May 2025 14:59
Operator : SY/MD
Sample : Q2003-02
Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29

Quant Time: May 21 01:49:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

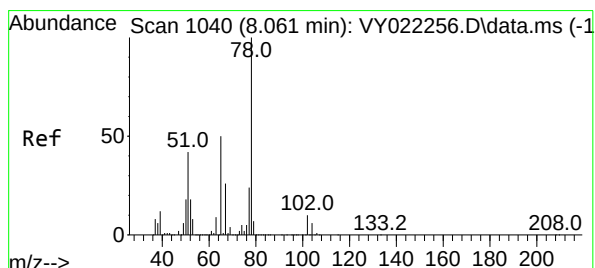
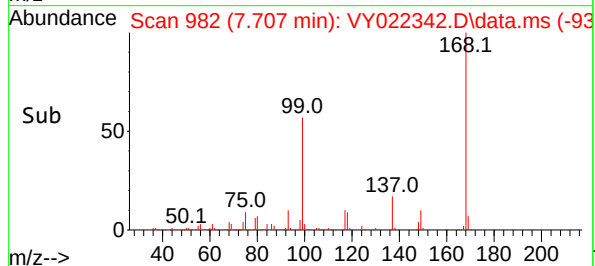
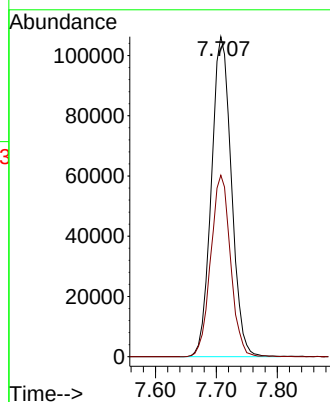
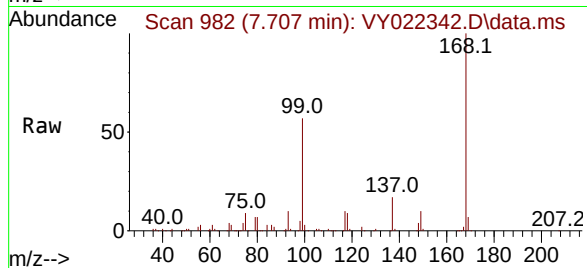




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. 0.000 min
 Lab File: VY022342.D
 Acq: 20 May 2025 14:59

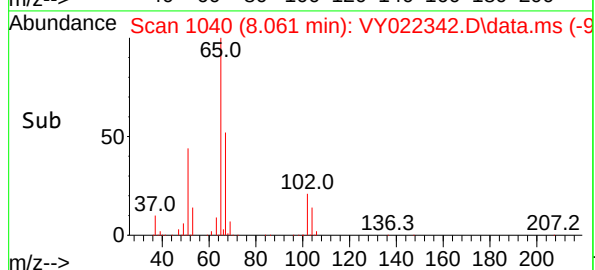
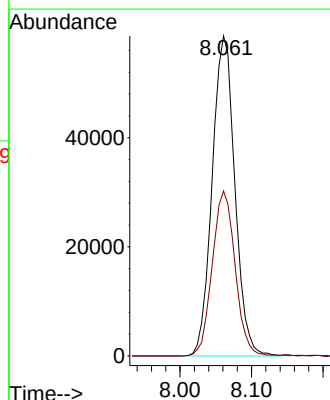
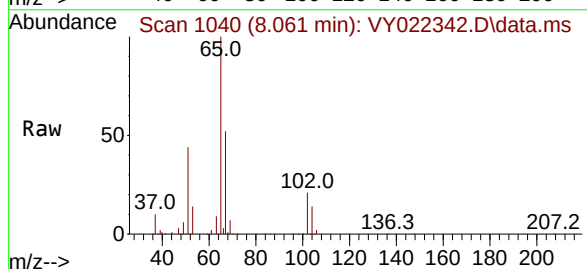
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-29

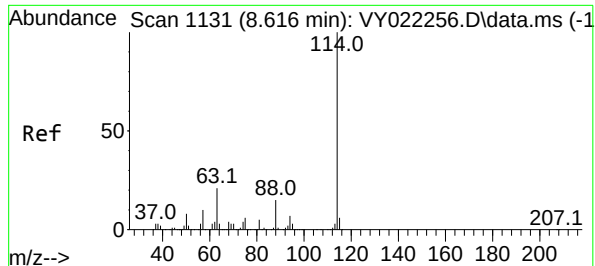
Tgt Ion:168 Resp: 242950
 Ion Ratio Lower Upper
 168 100
 99 56.7 44.2 66.4



#33
 1,2-Dichloroethane-d4
 Concen: 48.699 ug/l
 RT: 8.061 min Scan# 1040
 Delta R.T. -0.000 min
 Lab File: VY022342.D
 Acq: 20 May 2025 14:59

Tgt Ion: 65 Resp: 129306
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022342.D

Acq: 20 May 2025 14:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-29

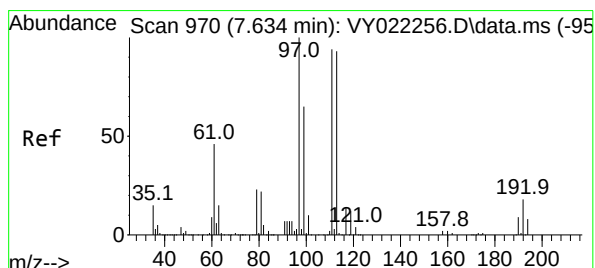
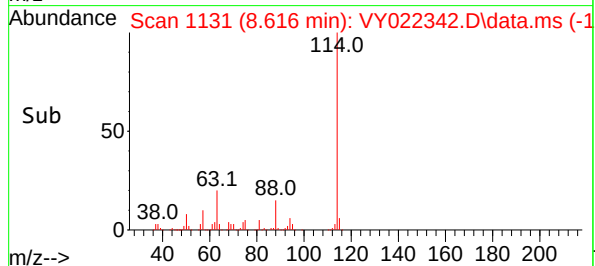
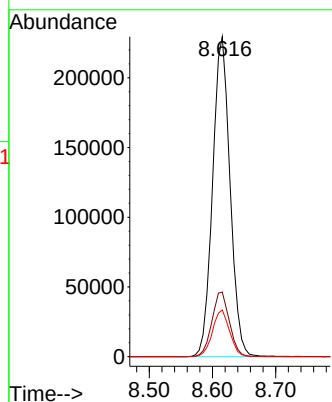
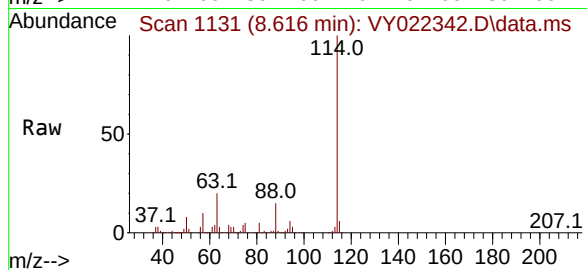
Tgt Ion:114 Resp: 438802

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.0

88 14.6 0.0 29.4



#35

Dibromofluoromethane

Concen: 49.405 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022342.D

Acq: 20 May 2025 14:59

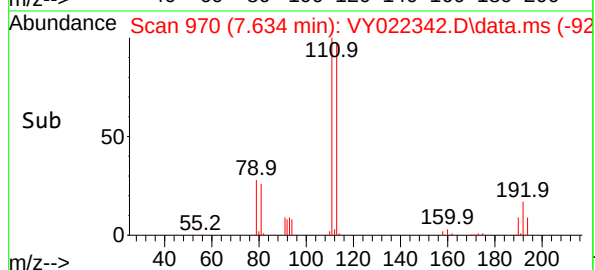
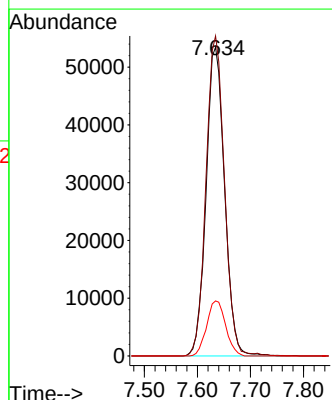
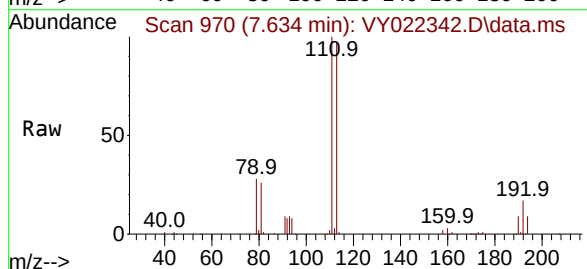
Tgt Ion:113 Resp: 129394

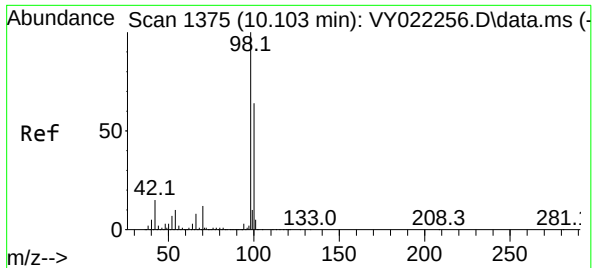
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 18.3 15.2 22.8

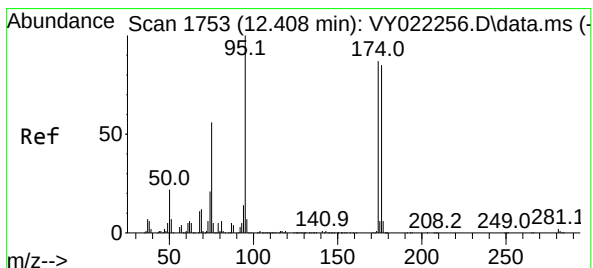
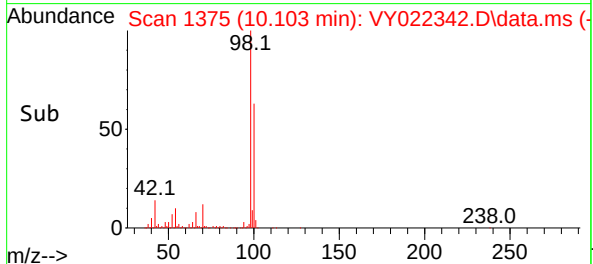
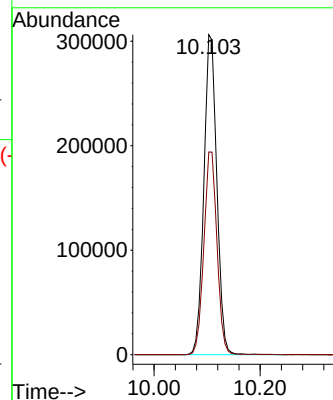
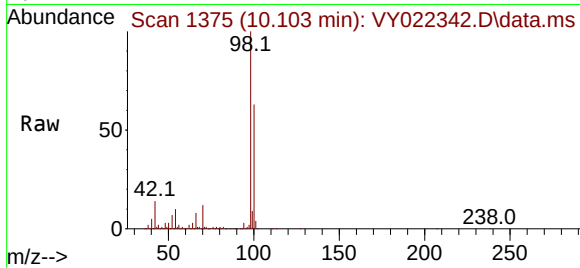




#50
Toluene-d8
Concen: 48.462 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022342.D
Acq: 20 May 2025 14:59

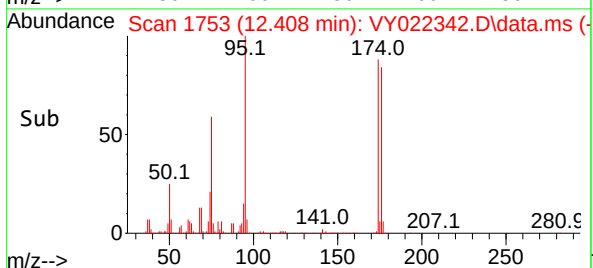
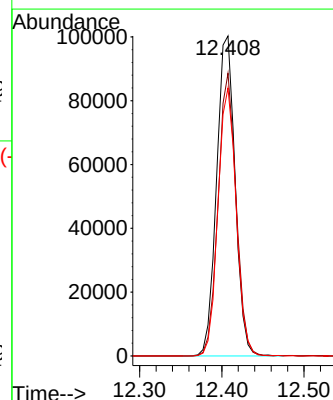
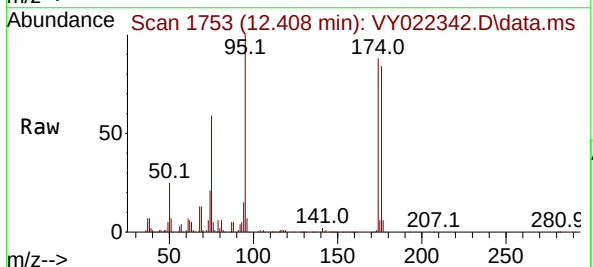
Instrument :
MSVOA_Y
ClientSampleId :
TP-29

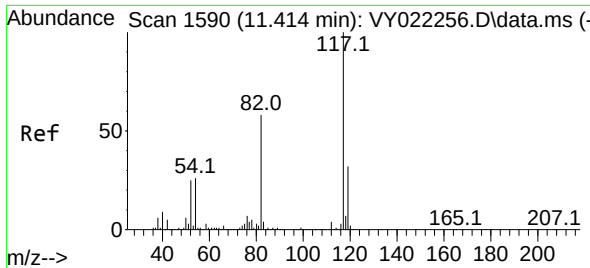
Tgt Ion: 98 Resp: 519822
Ion Ratio Lower Upper
98 100
100 64.2 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 46.210 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022342.D
Acq: 20 May 2025 14:59

Tgt Ion: 95 Resp: 157109
Ion Ratio Lower Upper
95 100
174 85.8 0.0 166.8
176 82.3 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022342.D

Acq: 20 May 2025 14:59

Instrument :

MSVOA_Y

ClientSampleId :

TP-29

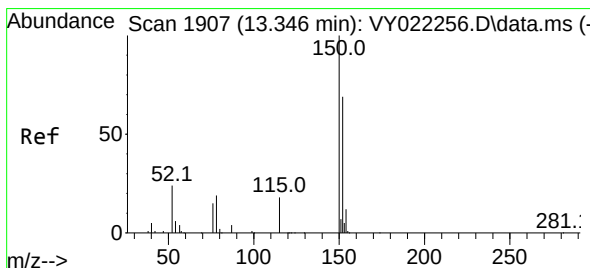
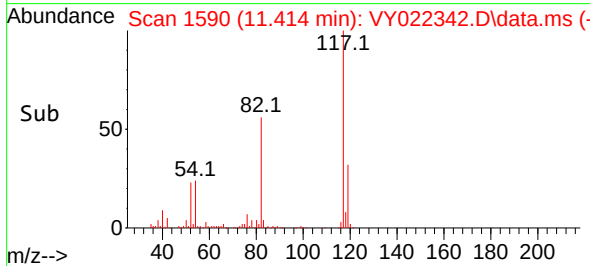
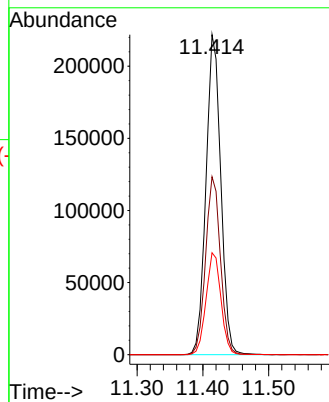
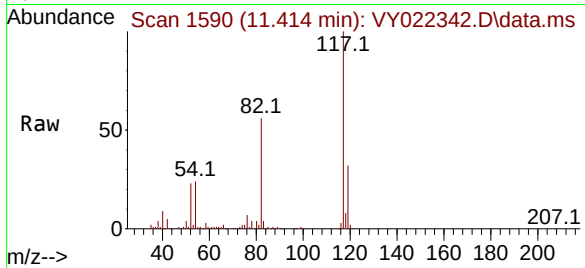
Tgt Ion:117 Resp: 347338

Ion Ratio Lower Upper

117 100

82 55.6 46.6 70.0

119 31.9 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022342.D

Acq: 20 May 2025 14:59

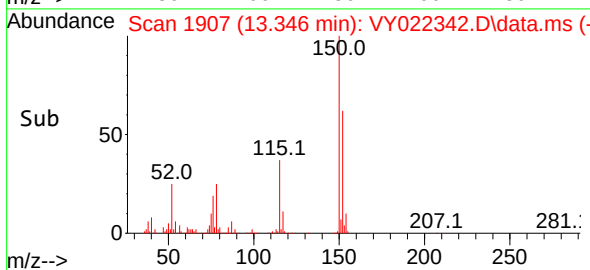
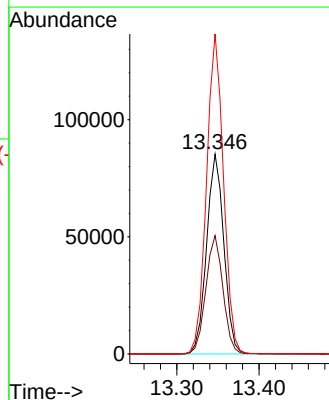
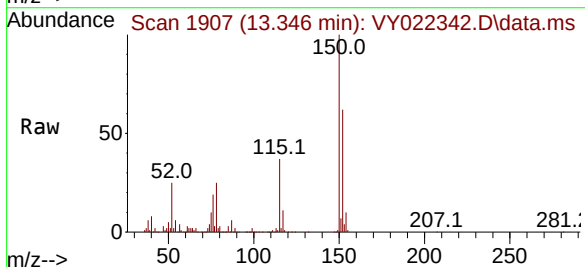
Tgt Ion:152 Resp: 124373

Ion Ratio Lower Upper

152 100

115 58.9 29.4 88.2

150 157.5 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022342.D
Acq On : 20 May 2025 14:59
Operator : SY/MD
Sample : Q2003-02
Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022342.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	51	64	66	rBV6	8697	31886	2.25%	0.458%
2	2.489	120	126	139	rBV6	14386	53952	3.80%	0.775%
3	7.634	960	970	976	rBV	187128	451863	31.82%	6.493%
4	7.707	976	982	992	rVB	323461	731261	51.49%	10.508%
5	8.061	1030	1040	1054	rBV	173275	389449	27.42%	5.596%
6	8.616	1122	1131	1141	rBV	538709	1035711	72.93%	14.882%
7	10.103	1367	1375	1384	rBV	826501	1420206	100.00%	20.407%
8	11.414	1582	1590	1603	rBV	723097	1140224	80.29%	16.384%
9	12.408	1744	1753	1762	rBV	566887	884977	62.31%	12.716%
10	13.346	1898	1907	1916	rBV	556878	819767	57.72%	11.779%

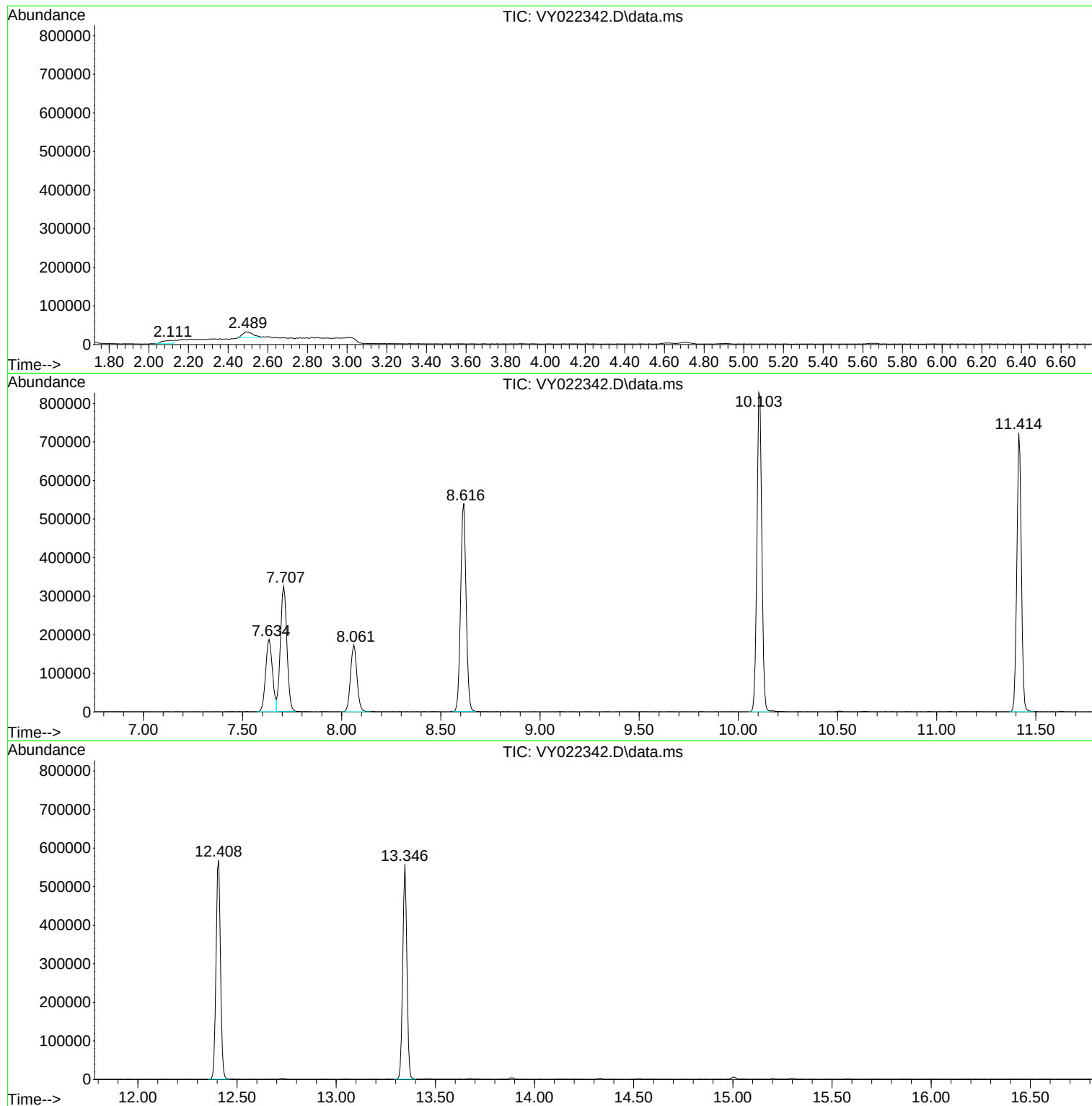
Sum of corrected areas: 6959296

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022342.D
Acq On : 20 May 2025 14:59
Operator : SY/MD
Sample : Q2003-02
Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022342.D
Acq On : 20 May 2025 14:59
Operator : SY/MD
Sample : Q2003-02
Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY052025\
Data File : VY022342.D
Acq On : 20 May 2025 14:59
Operator : SY/MD
Sample : Q2003-02
Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.33 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.90	U	0.90	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.99	U	0.99	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.79	U	0.79	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.6	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.6	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.33 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.6	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	3.90	ug/Kg
108-90-7	Chlorobenzene	0.72	U	0.72	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.90	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.56	U	0.56	3.90	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		38 - 136	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	7.707			
540-36-3	1,4-Difluorobenzene	475000	8.61			
3114-55-4	Chlorobenzene-d5	385000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	7.33	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022294.D	1		05/16/25 16:25	VY051625

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_Y\Data\VY051625\
 Data File : VY022294.D
 Acq On : 16 May 2025 16:25
 Operator : SY/MD
 Sample : Q2032-03
 Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-29-99

Quant Time: May 17 01:35:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

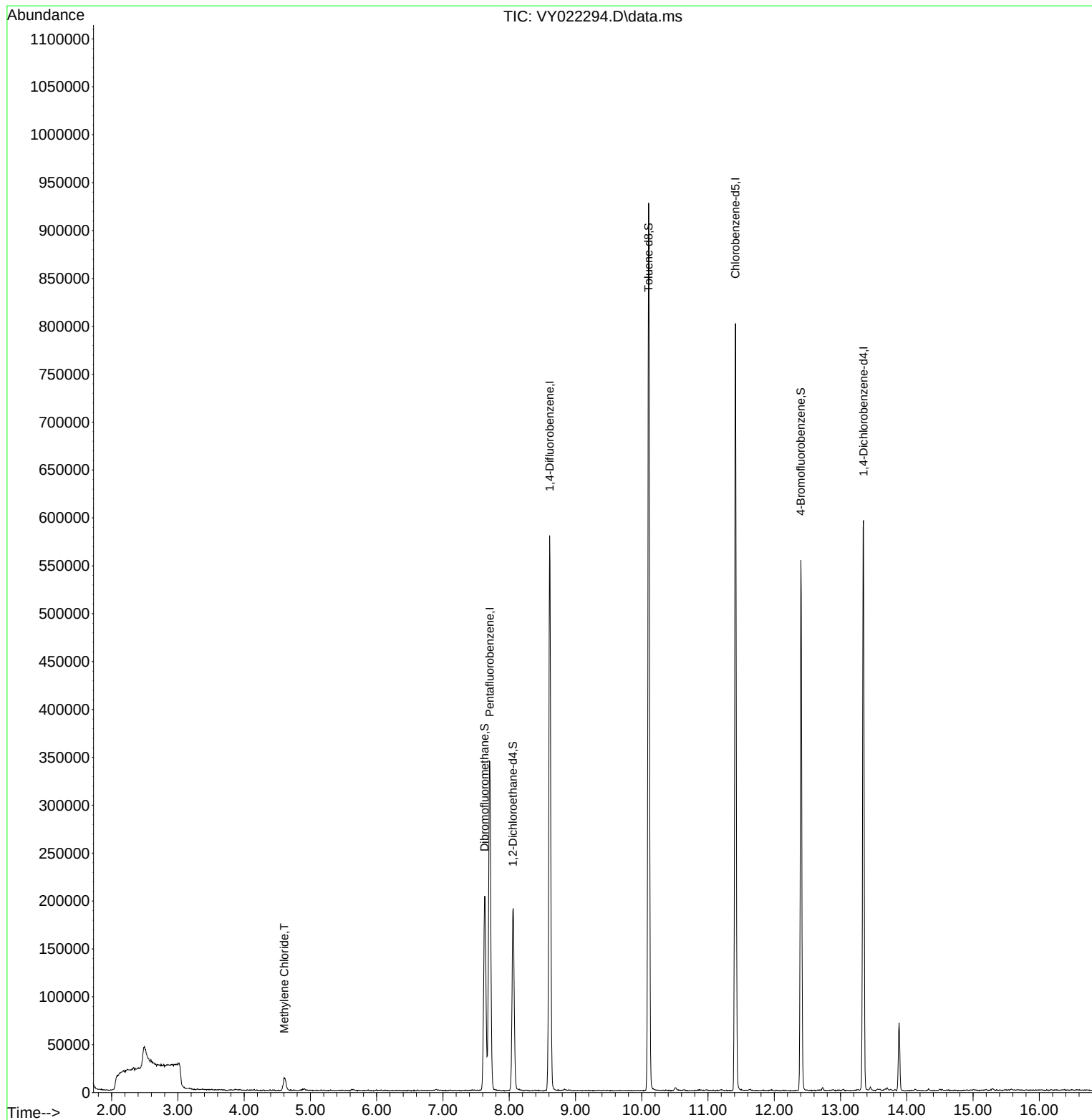
Internal Standards						
1) Pentafluorobenzene	7.707	168	265101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	475372	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	384945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	141625	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	145390	50.181	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.360%	
35) Dibromofluoromethane	7.628	113	143715	50.652	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.300%	
50) Toluene-d8	10.103	98	573451	49.349	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.700%	
62) 4-Bromofluorobenzene	12.402	95	150514	40.864	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 81.720%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.604	84	8682	2.473	ug/l	92

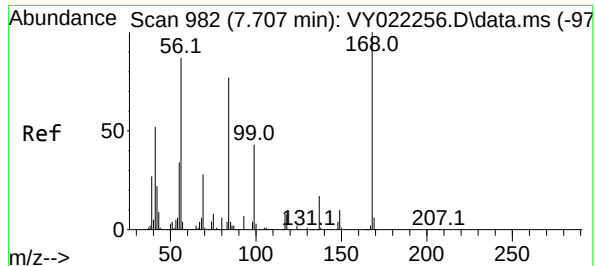
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022294.D
Acq On : 16 May 2025 16:25
Operator : SY/MD
Sample : Q2032-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29-99

Quant Time: May 17 01:35:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

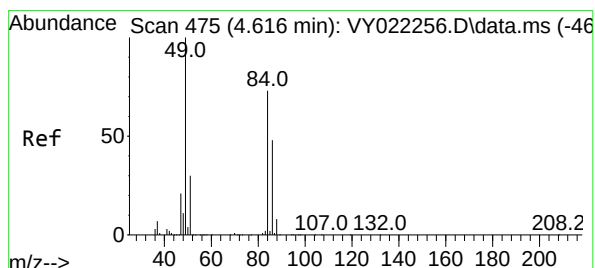
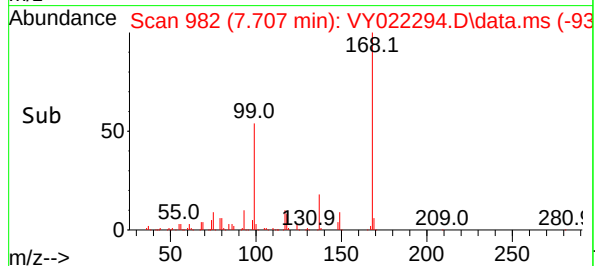
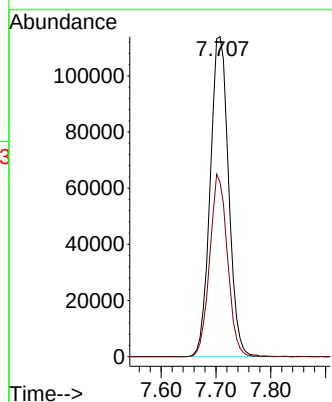
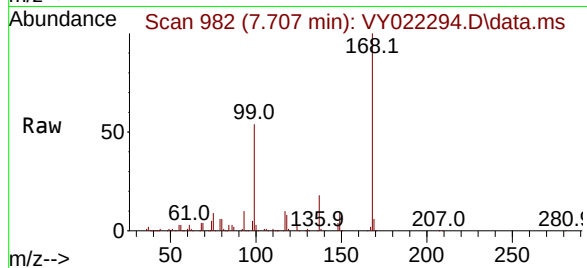




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022294.D
Acq: 16 May 2025 16:25

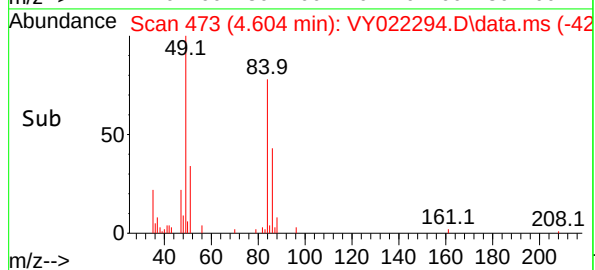
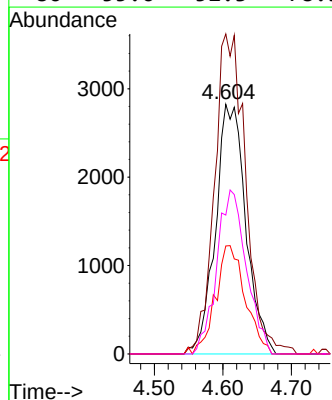
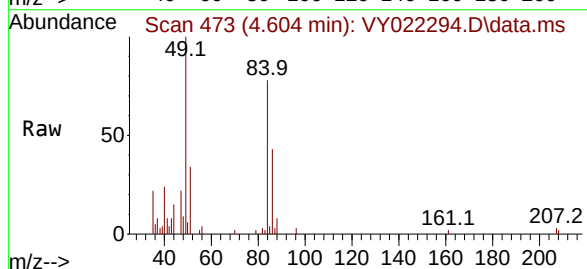
Instrument :
MSVOA_Y
ClientSampleId :
TP-29-99

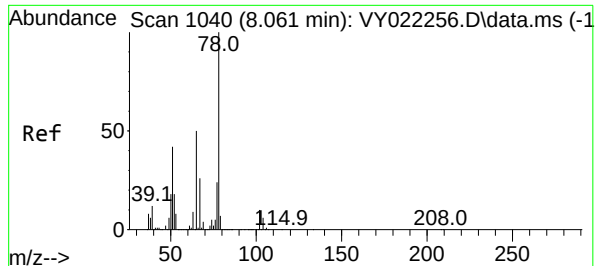
Tgt Ion:168 Resp: 265101
Ion Ratio Lower Upper
168 100
99 54.4 44.2 66.4



#20
Methylene Chloride
Concen: 2.473 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY022294.D
Acq: 16 May 2025 16:25

Tgt Ion: 84 Resp: 8682
Ion Ratio Lower Upper
84 100
49 128.2 109.6 164.4
51 43.3 32.4 48.6
86 55.6 52.3 78.5





#33

1,2-Dichloroethane-d4

Concen: 50.181 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022294.D

Acq: 16 May 2025 16:25

Instrument :

MSVOA_Y

ClientSampleId :

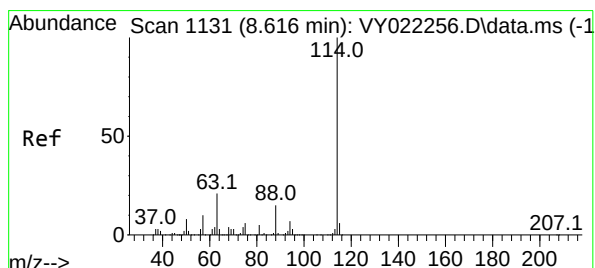
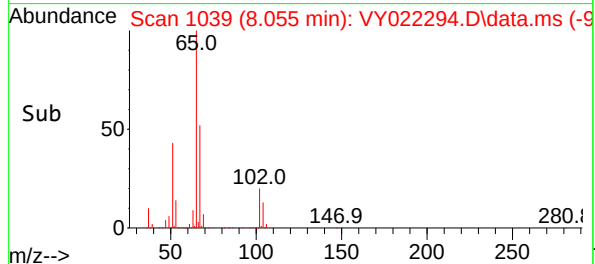
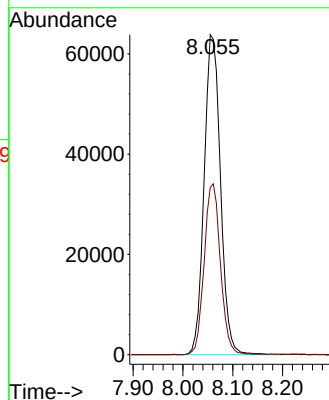
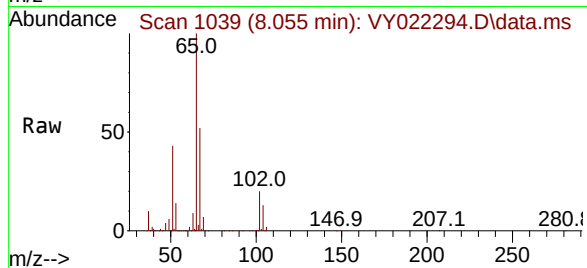
TP-29-99

Tgt Ion: 65 Resp: 145390

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022294.D

Acq: 16 May 2025 16:25

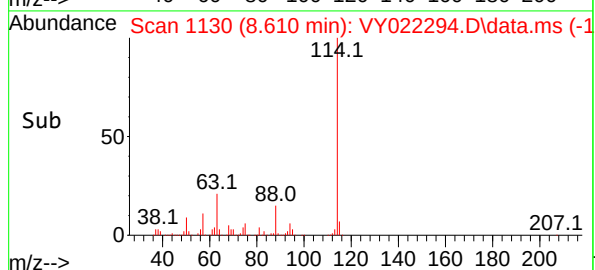
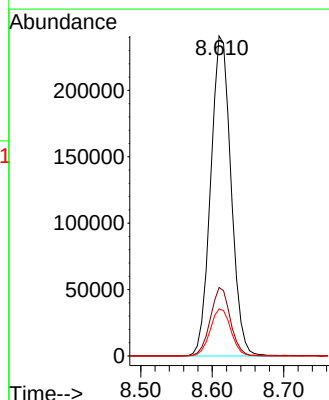
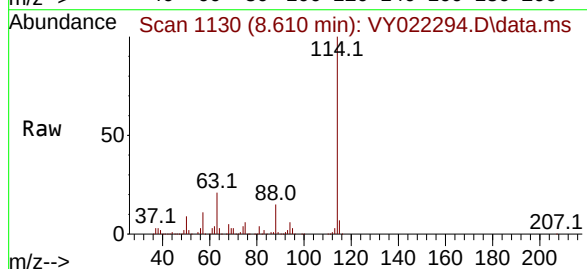
Tgt Ion: 114 Resp: 475372

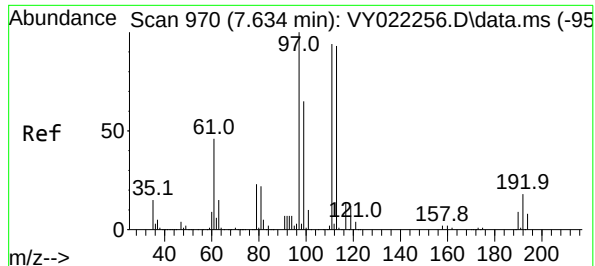
Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.0

88 14.7 0.0 29.4





#35

Dibromofluoromethane

Concen: 50.652 ug/l

RT: 7.628 min Scan# 9

Delta R.T. -0.006 min

Lab File: VY022294.D

Acq: 16 May 2025 16:25

Instrument :

MSVOA_Y

ClientSampleId :

TP-29-99

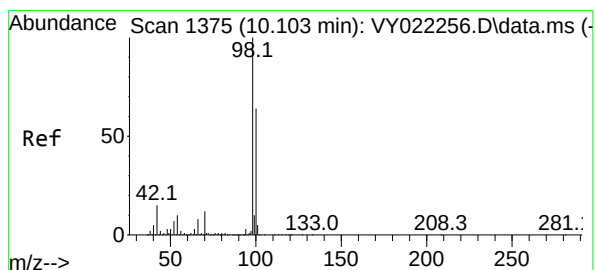
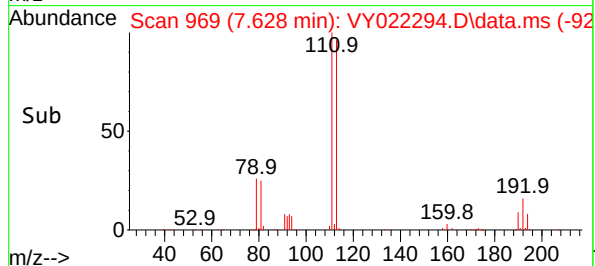
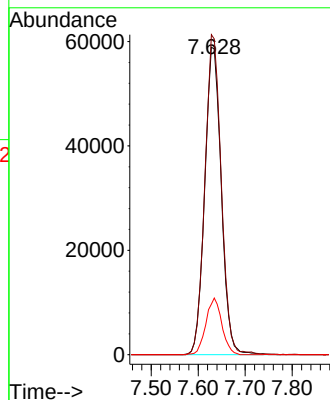
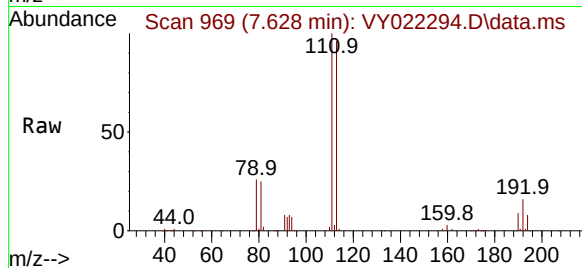
Tgt Ion:113 Resp: 143715

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 17.8 15.2 22.8



#50

Toluene-d8

Concen: 49.349 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY022294.D

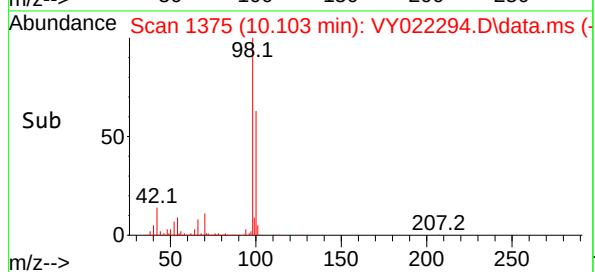
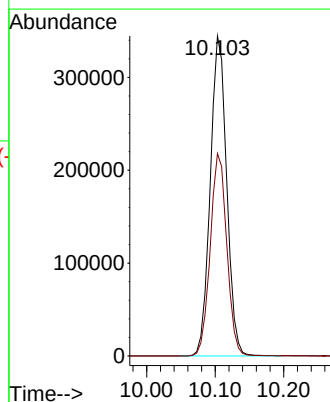
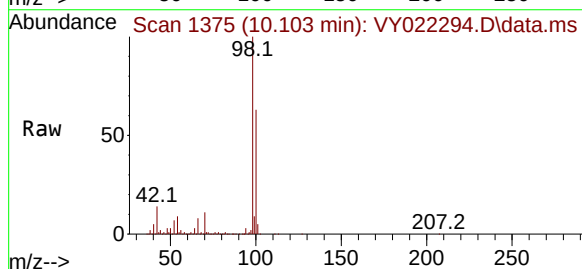
Acq: 16 May 2025 16:25

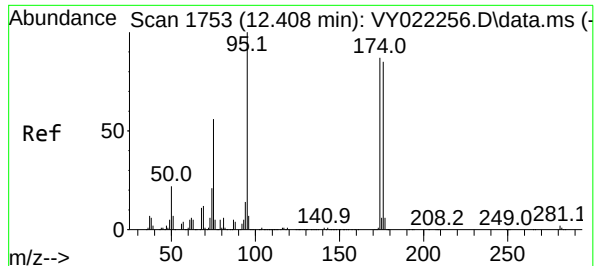
Tgt Ion: 98 Resp: 573451

Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.8





#62

4-Bromofluorobenzene

Concen: 40.864 ug/l

RT: 12.402 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022294.D

Acq: 16 May 2025 16:25

Instrument :

MSVOA_Y

ClientSampleId :

TP-29-99

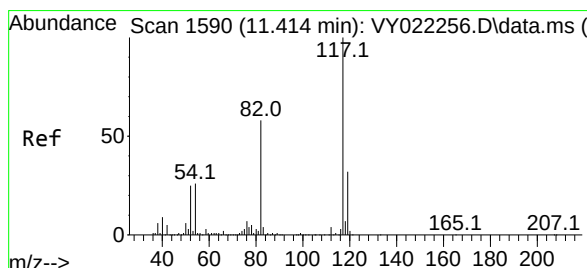
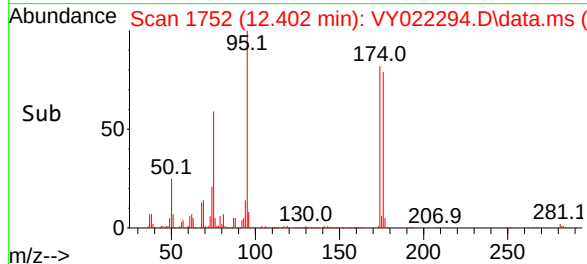
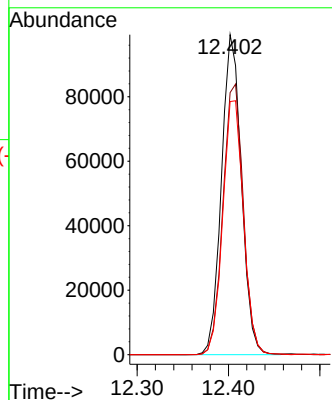
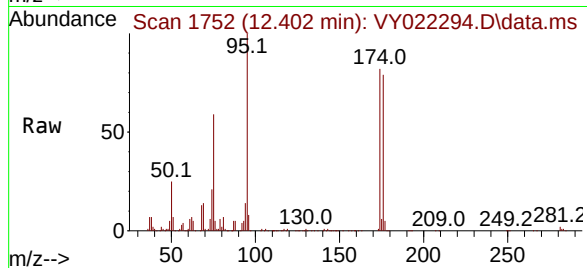
Tgt Ion: 95 Resp: 150514

Ion Ratio Lower Upper

95 100

174 86.9 0.0 166.8

176 82.5 0.0 160.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY022294.D

Acq: 16 May 2025 16:25

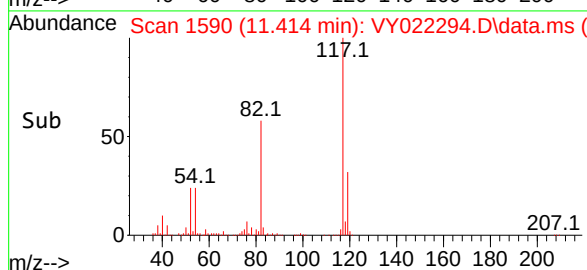
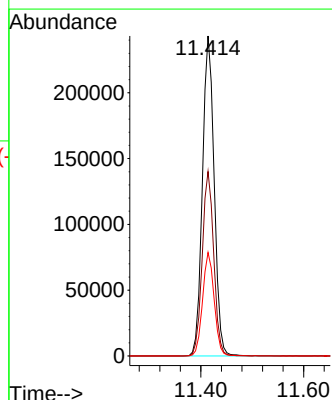
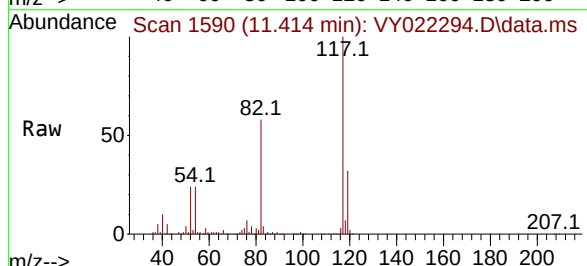
Tgt Ion: 117 Resp: 384945

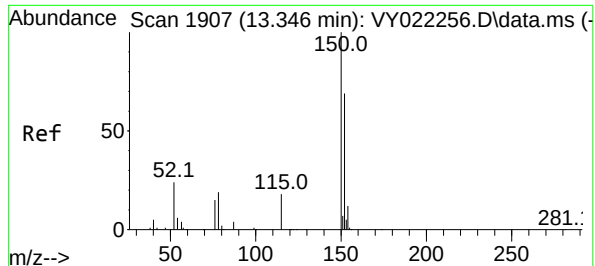
Ion Ratio Lower Upper

117 100

82 57.7 46.6 70.0

119 32.4 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022294.D

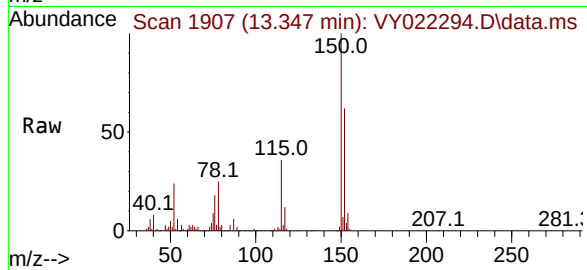
Acq: 16 May 2025 16:25

Instrument :

MSVOA_Y

ClientSampleId :

TP-29-99



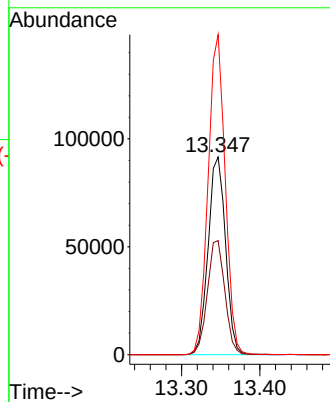
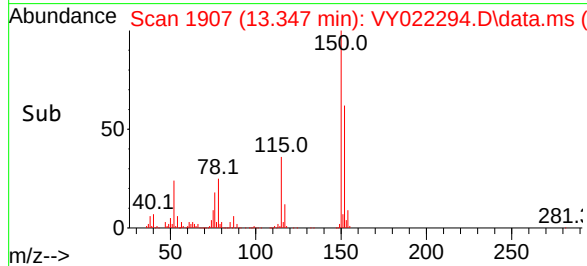
Tgt Ion:152 Resp: 141625

Ion Ratio Lower Upper

152 100

115 57.9 29.4 88.2

150 158.3 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022294.D
 Acq On : 16 May 2025 16:25
 Operator : SY/MD
 Sample : Q2032-03
 Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-29-99

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022294.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	51	60	61	rBV3	14849	33654	2.15%	0.434%
2	2.495	120	127	136	rBV5	19331	73711	4.71%	0.951%
3	4.604	465	473	486	rVB2	13533	40572	2.59%	0.523%
4	7.628	960	969	975	rBV	202557	487123	31.13%	6.282%
5	7.701	975	981	994	rVB	343465	798915	51.06%	10.304%
6	8.061	1031	1040	1054	rBV	190029	431849	27.60%	5.570%
7	8.610	1121	1130	1146	rBV	579440	1137722	72.72%	14.673%
8	10.103	1366	1375	1386	rBV	926672	1564628	100.00%	20.179%
9	11.414	1583	1590	1603	rBV	800821	1265352	80.87%	16.319%
10	12.402	1745	1752	1763	rBV	553485	870137	55.61%	11.222%
11	13.347	1896	1907	1918	rBV	594970	935714	59.80%	12.068%
12	13.883	1989	1995	2003	rBV2	71040	114358	7.31%	1.475%

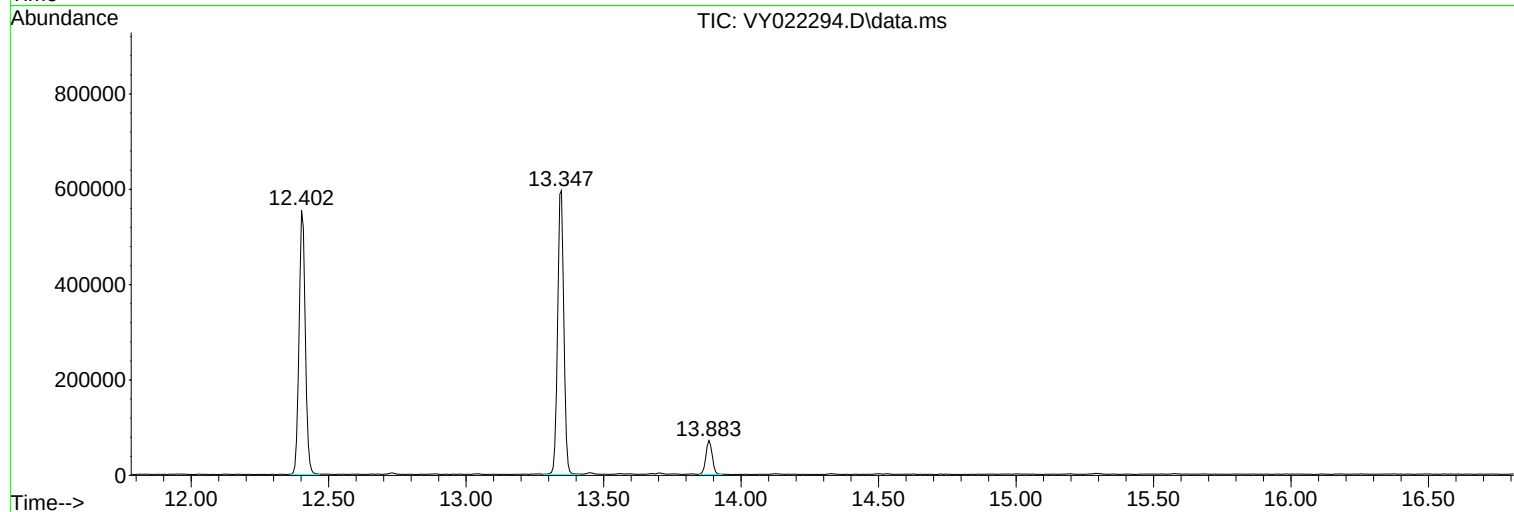
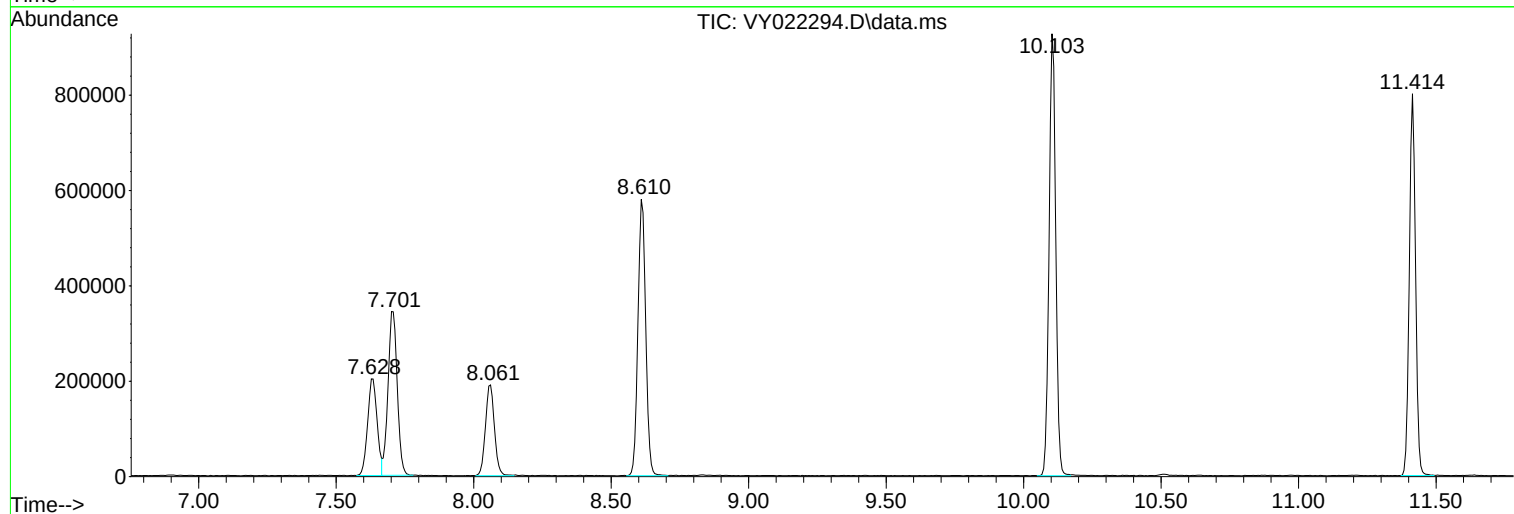
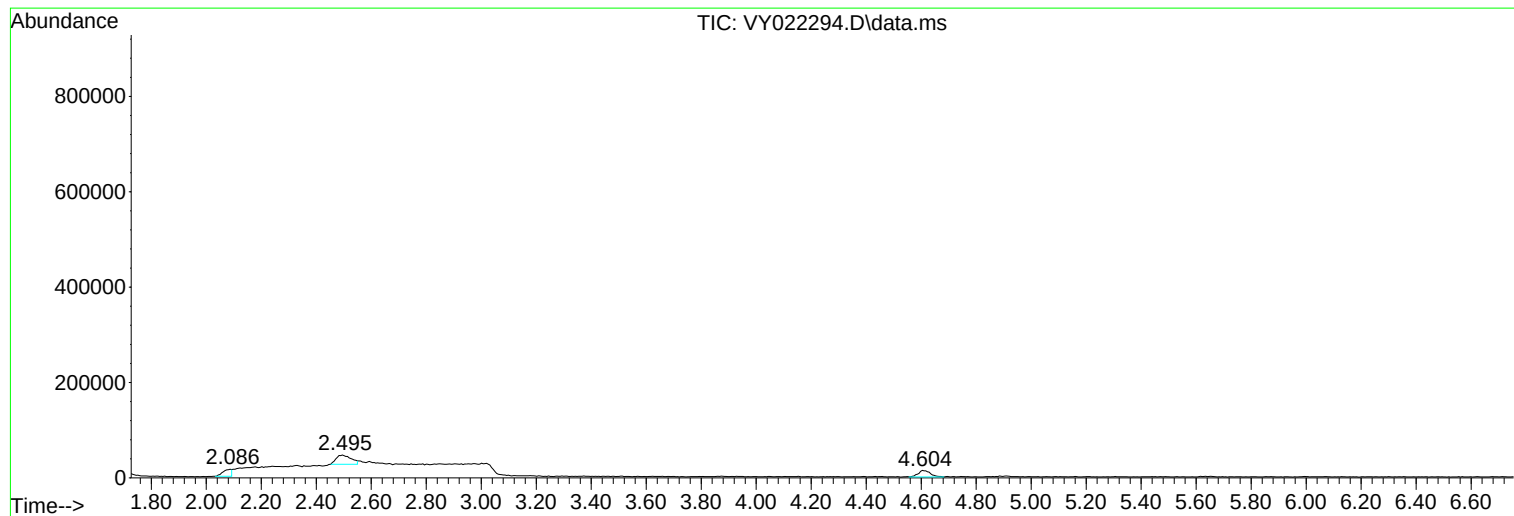
Sum of corrected areas: 7753735

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022294.D
Acq On : 16 May 2025 16:25
Operator : SY/MD
Sample : Q2032-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022294.D
Acq On : 16 May 2025 16:25
Operator : SY/MD
Sample : Q2032-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY051625\
Data File : VY022294.D
Acq On : 16 May 2025 16:25
Operator : SY/MD
Sample : Q2032-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-29-99

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

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	34.9		5.00	26.4	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	0.91	U	0.91	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	26.4	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	0.89	U	0.89	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	26.4	ug/Kg
108-88-3	Toluene	0.82	U	0.82	5.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	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	26.4	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	0.71	U	0.71	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	0.91	U	0.91	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	3.40	U	3.40	5.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.9	63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2	70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.1	74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4	38 - 136	87%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	266000	7.707
540-36-3	1,4-Difluorobenzene	477000	8.616
3114-55-4	Chlorobenzene-d5	397000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.39 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022295.D	1		05/16/25 16:48	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	7.10	J		2.20	ug/Kg
000078-78-4	Butane, 2-methyl-	5.80	J		2.84	ug/Kg
000109-66-0	Pentane	5.70	J		3.18	ug/Kg
000110-54-3	n-Hexane	11.9	J		5.64	ug/Kg
000589-34-4	Hexane, 3-methyl-	11.2	J		7.92	ug/Kg
000142-82-5	Heptane	9.50	J		8.47	ug/Kg
000589-81-1	Heptane, 3-methyl-	6.40	J		9.89	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_Y\Data\VY051625\
 Data File : VY022295.D
 Acq On : 16 May 2025 16:48
 Operator : SY/MD
 Sample : Q2032-04
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24

Quant Time: May 17 01:36:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

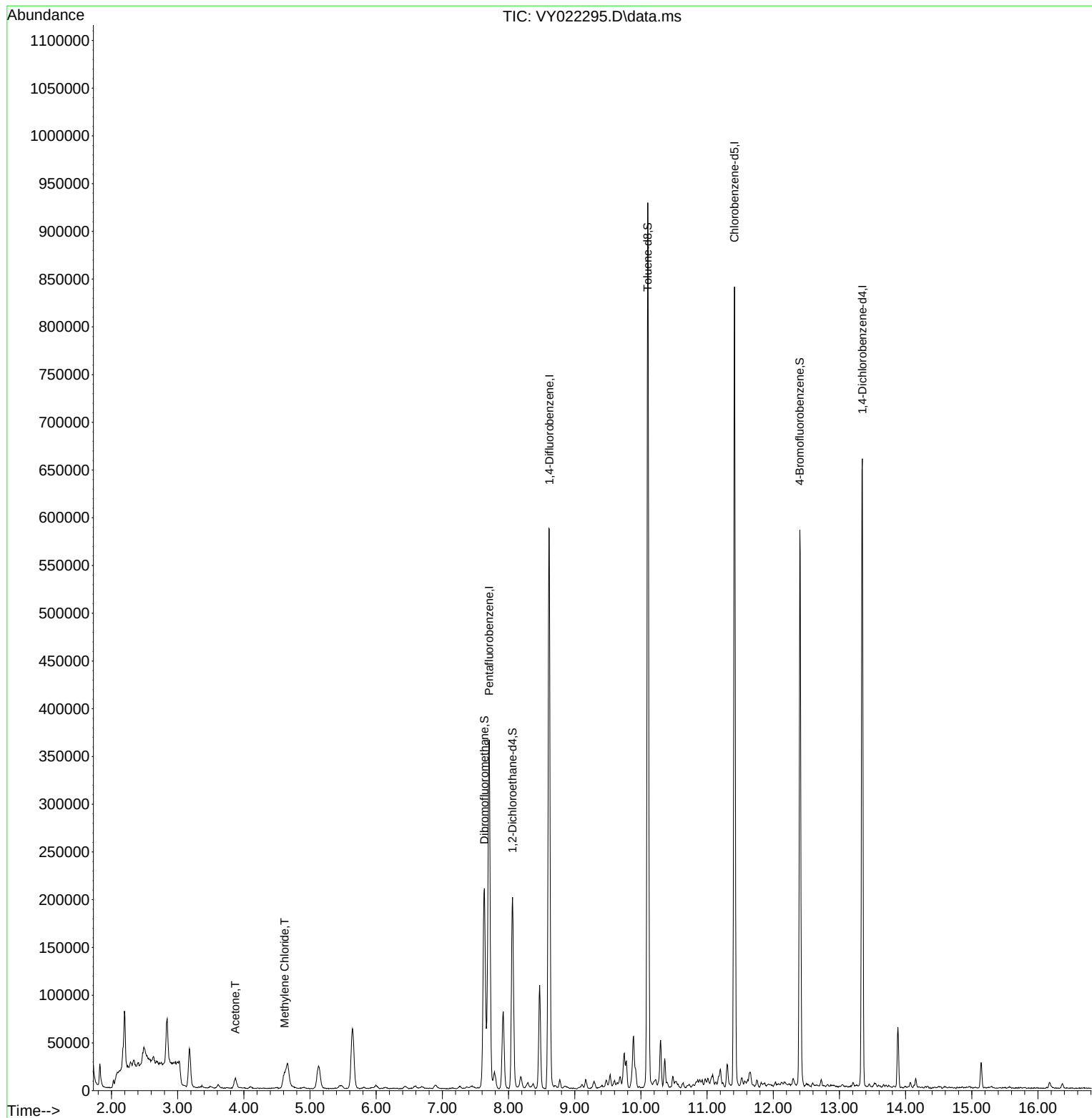
Internal Standards						
1) Pentafluorobenzene	7.707	168	265542	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	477294	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	397008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154080	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150720	51.934	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.860%	
35) Dibromofluoromethane	7.634	113	145964	51.238	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.480%	
50) Toluene-d8	10.103	98	573315	49.138	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.280%	
62) 4-Bromofluorobenzene	12.401	95	160374	43.366	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 86.740%	
Target Compounds						Qvalue
16) Acetone	3.872	43	17993	33.065	ug/l	97
20) Methylene Chloride	4.616	84	8521	2.423	ug/l	92

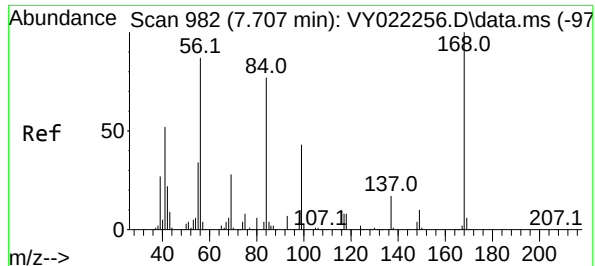
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

Quant Time: May 17 01:36:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

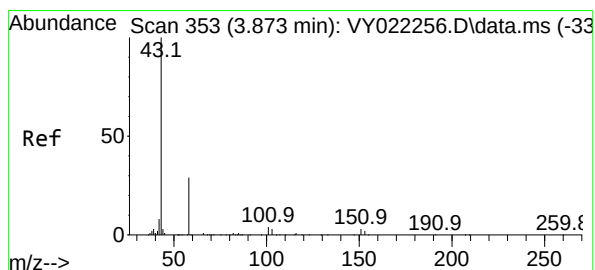
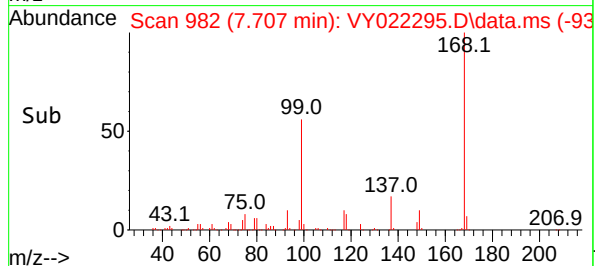
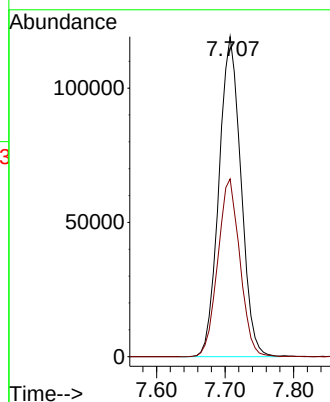
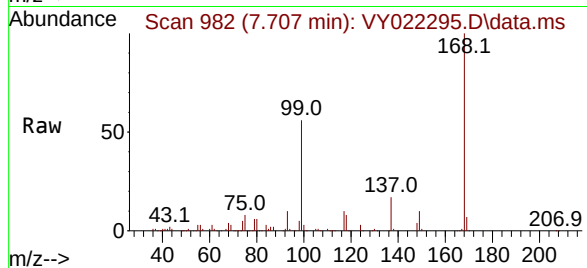




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022295.D
Acq: 16 May 2025 16:48

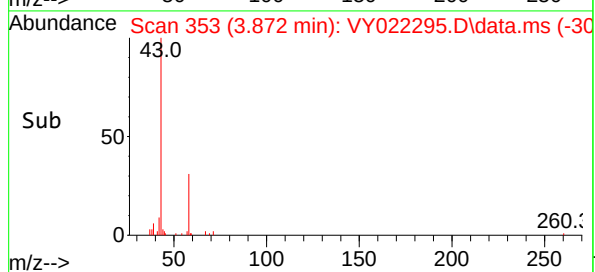
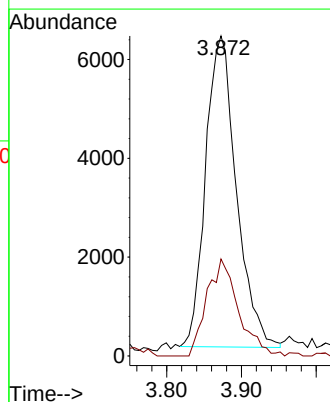
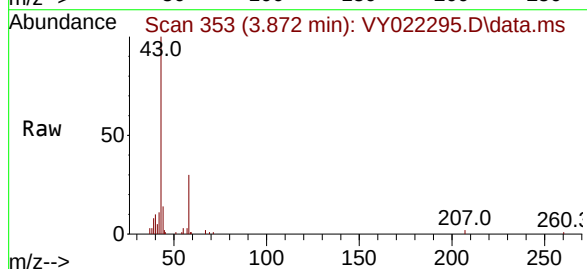
Instrument :
MSVOA_Y
ClientSampleId :
TP-24

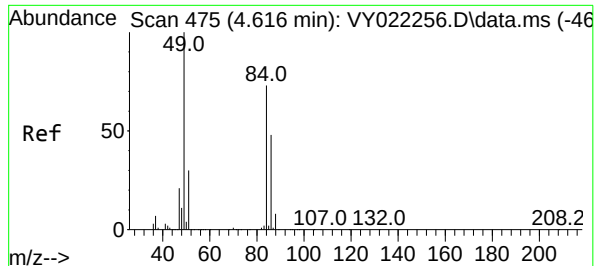
Tgt Ion:168 Resp: 265542
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#16
Acetone
Concen: 33.065 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022295.D
Acq: 16 May 2025 16:48

Tgt Ion: 43 Resp: 17993
Ion Ratio Lower Upper
43 100
58 31.2 23.6 35.4





#20

Methylene Chloride

Concen: 2.423 ug/l

RT: 4.616 min Scan# 41

Delta R.T. -0.000 min

Lab File: VY022295.D

Acq: 16 May 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

TP-24

Tgt Ion: 84 Resp: 8521

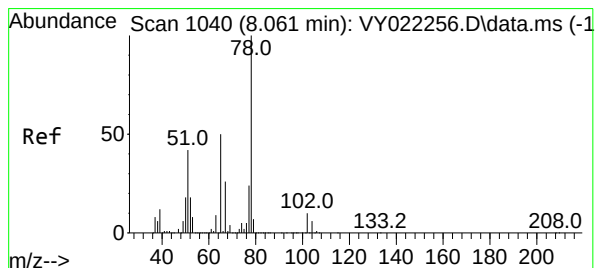
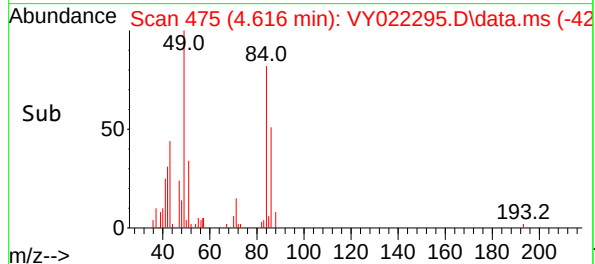
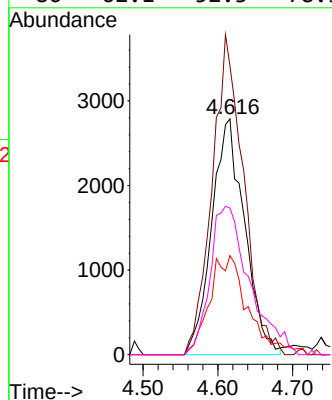
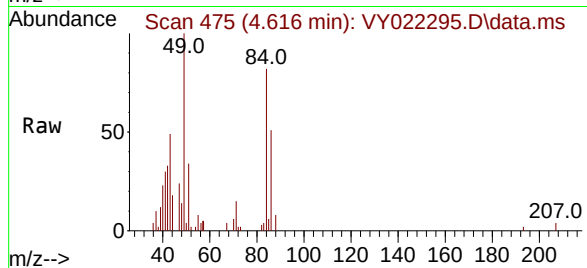
Ion Ratio Lower Upper

84 100

49 122.4 109.6 164.4

51 42.0 32.4 48.6

86 62.1 52.3 78.5



#33

1,2-Dichloroethane-d4

Concen: 51.934 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY022295.D

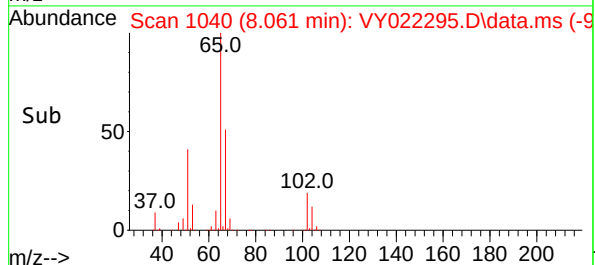
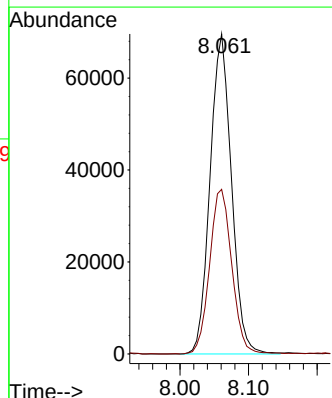
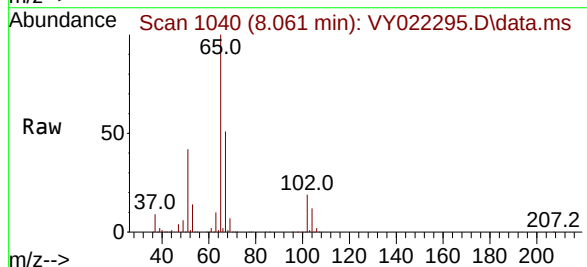
Acq: 16 May 2025 16:48

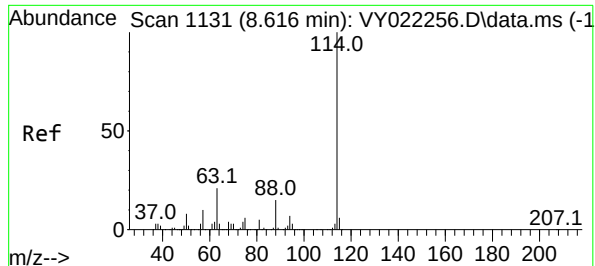
Tgt Ion: 65 Resp: 150720

Ion Ratio Lower Upper

65 100

67 53.4 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022295.D

Acq: 16 May 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

TP-24

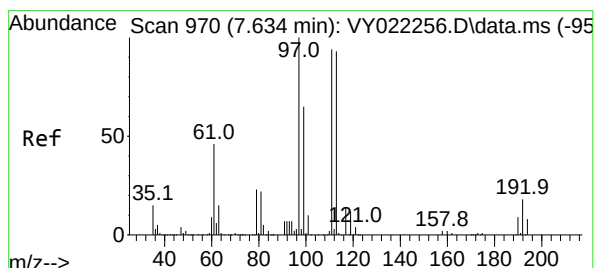
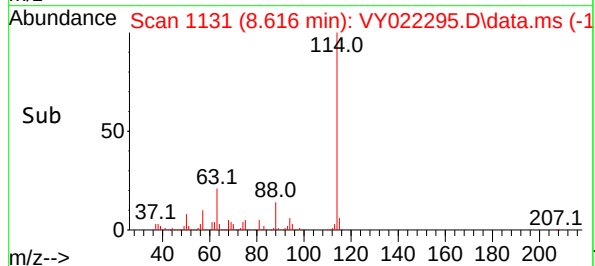
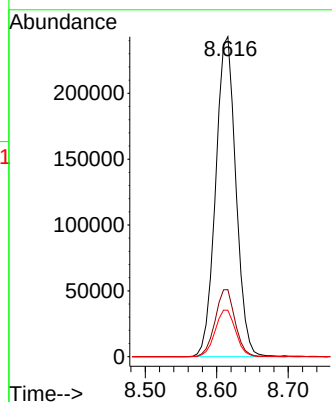
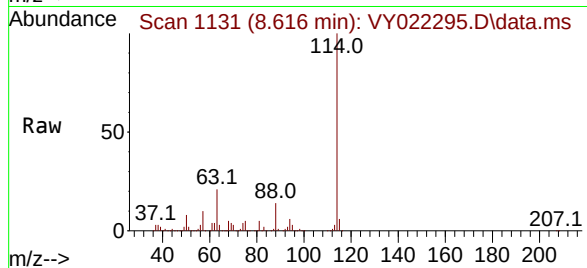
Tgt Ion:114 Resp: 477294

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.0

88 14.5 0.0 29.4



#35

Dibromofluoromethane

Concen: 51.238 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022295.D

Acq: 16 May 2025 16:48

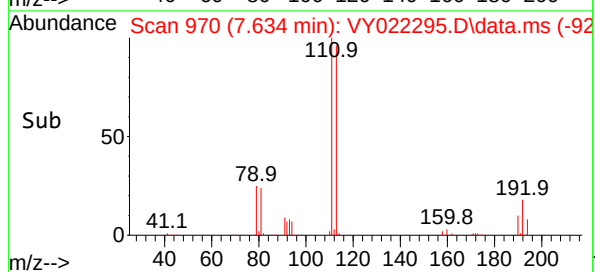
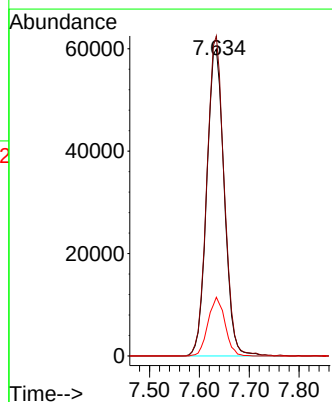
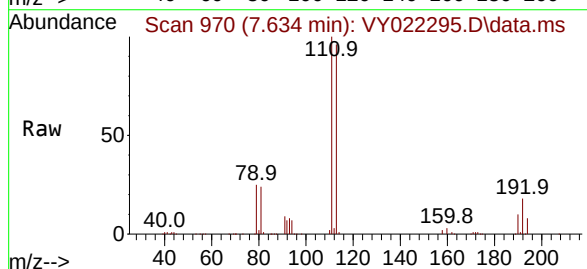
Tgt Ion:113 Resp: 145964

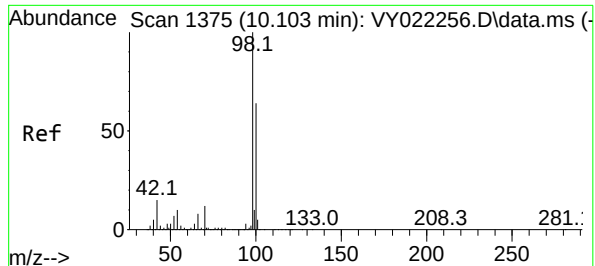
Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

192 18.5 15.2 22.8





#50

Toluene-d8

Concen: 49.138 ug/l

RT: 10.103 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022295.D

Acq: 16 May 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

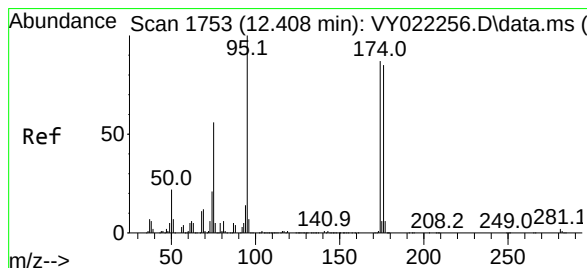
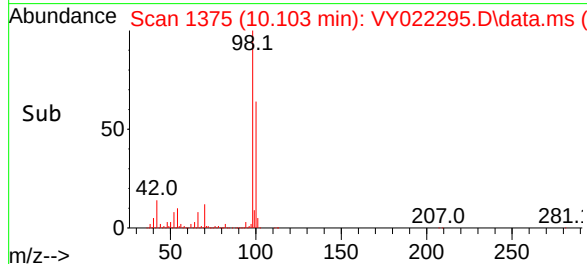
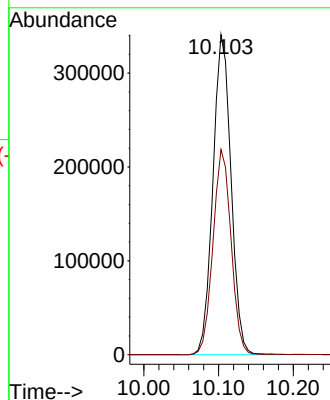
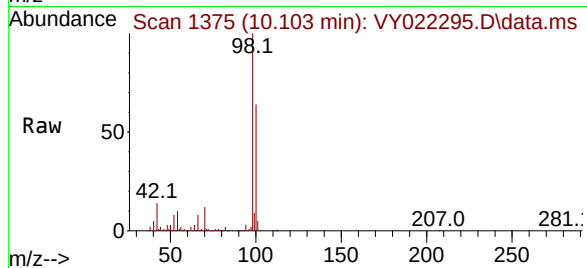
TP-24

Tgt Ion: 98 Resp: 573315

Ion Ratio Lower Upper

98 100

100 64.1 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 43.366 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022295.D

Acq: 16 May 2025 16:48

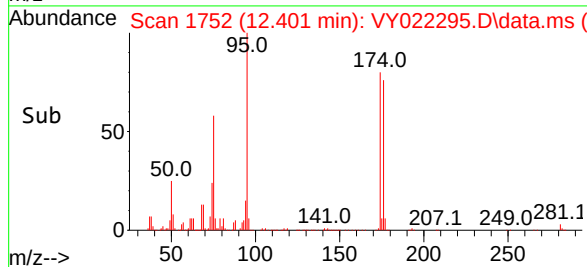
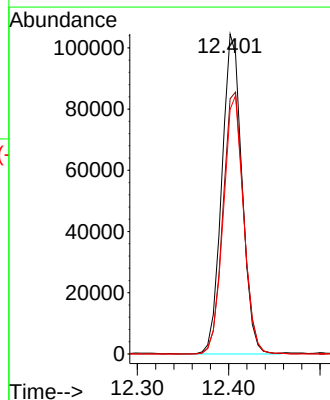
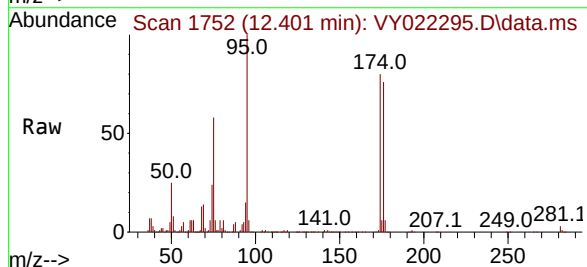
Tgt Ion: 95 Resp: 160374

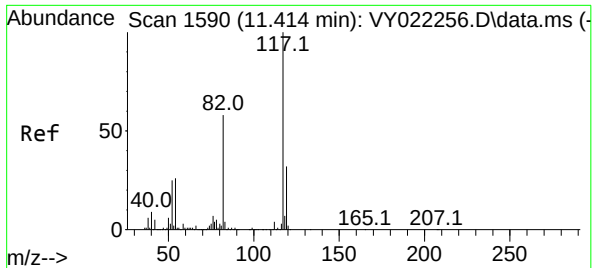
Ion Ratio Lower Upper

95 100

174 83.8 0.0 166.8

176 81.0 0.0 160.8

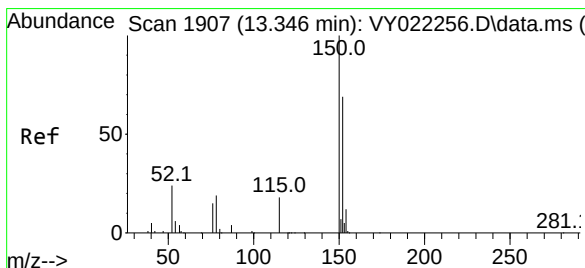
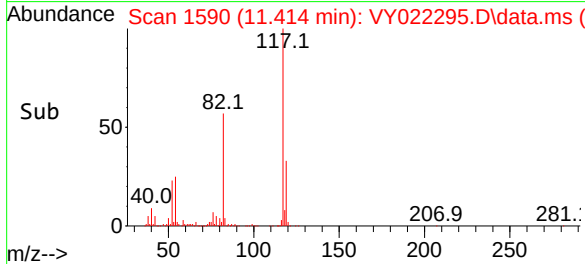
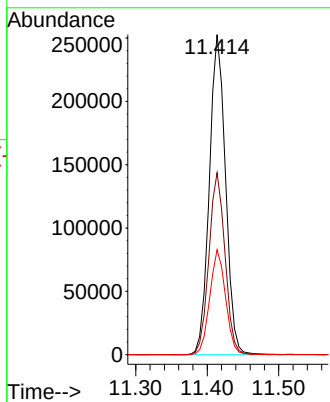
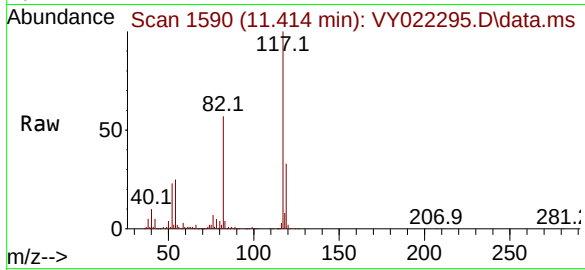




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY022295.D
Acq: 16 May 2025 16:48

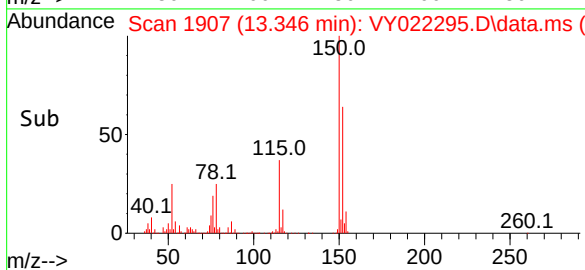
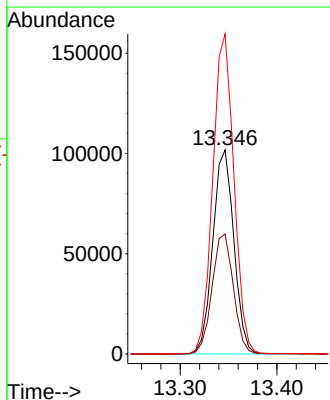
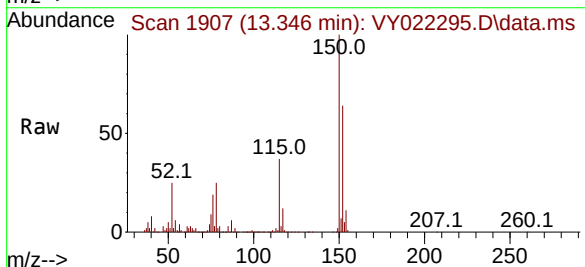
Instrument :
MSVOA_Y
ClientSampleId :
TP-24

Tgt Ion:117 Resp: 397008
Ion Ratio Lower Upper
117 100
82 56.8 46.6 70.0
119 32.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022295.D
Acq: 16 May 2025 16:48

Tgt Ion:152 Resp: 154080
Ion Ratio Lower Upper
152 100
115 59.4 29.4 88.2
150 157.1 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022295.D
 Acq On : 16 May 2025 16:48
 Operator : SY/MD
 Sample : Q2032-04
 Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24

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_Y\methods\82Y051525S.M
 Title : SW846 8260

Signal : TIC: VY022295.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	27	rVB3	24313	39501	2.49%	0.395%
2	2.086	53	60	63	rBV4	11894	30952	1.95%	0.310%
3	2.196	70	78	85	rBV	59720	118282	7.46%	1.183%
4	2.489	120	126	137	rBV8	16462	58980	3.72%	0.590%
5	2.842	178	184	193	rVB	46192	97136	6.12%	0.972%
6	3.177	231	239	249	rVB2	40090	96175	6.06%	0.962%
7	3.872	345	353	362	rBV	10714	29665	1.87%	0.297%
8	4.616	465	475	476	rBV2	16666	36824	2.32%	0.368%
9	5.128	545	559	571	rBV3	23930	87146	5.49%	0.872%
10	5.640	629	643	656	rBV3	62686	199425	12.57%	1.995%
11	7.634	956	970	975	rBV	209105	528531	33.32%	5.286%
12	7.707	975	982	991	rVV	364808	883854	55.73%	8.840%
13	7.786	991	995	1007	rVB4	17794	43317	2.73%	0.433%
14	7.921	1007	1017	1026	rBV	80876	188454	11.88%	1.885%
15	8.061	1031	1040	1053	rBV	200707	455117	28.70%	4.552%
16	8.183	1053	1060	1070	rVB2	11851	27862	1.76%	0.279%
17	8.469	1096	1107	1119	rVB	108249	214731	13.54%	2.148%
18	8.609	1122	1130	1143	rBV	586839	1185961	74.78%	11.862%
19	9.164	1216	1221	1228	rVV2	9369	18097	1.14%	0.181%
20	9.292	1232	1242	1248	rBV4	7637	18085	1.14%	0.181%
21	9.536	1277	1282	1287	rVB2	11957	19582	1.23%	0.196%
22	9.689	1301	1307	1310	rVV2	10917	22960	1.45%	0.230%
23	9.749	1310	1317	1320	rVV	35383	78028	4.92%	0.780%
24	9.780	1320	1322	1328	rVB	27853	36809	2.32%	0.368%
25	9.890	1329	1340	1351	rBV	53739	143756	9.06%	1.438%
26	10.103	1363	1375	1387	rBV	926998	1586038	100.00%	15.864%
27	10.298	1399	1407	1412	rVB	47992	84270	5.31%	0.843%
28	10.359	1412	1417	1421	rBV2	28732	45736	2.88%	0.457%
29	10.481	1433	1437	1441	rBV2	10860	18558	1.17%	0.186%
30	11.085	1529	1536	1541	rVB8	10281	23257	1.47%	0.233%
31	11.200	1547	1555	1559	rBV3	15752	35283	2.22%	0.353%
32	11.304	1566	1572	1578	rBV3	23545	45970	2.90%	0.460%
33	11.414	1583	1590	1602	rVB	836745	1313362	82.81%	13.136%
34	11.524	1602	1608	1612	rBV4	8347	15998	1.01%	0.160%
35	11.652	1624	1629	1636	rVB5	13525	31668	2.00%	0.317%
36	12.401	1743	1752	1763	rVB	582837	947151	59.72%	9.473%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

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_Y\methods\82Y051525S.M

Title : SW846 8260

37	13.346	1897	1907	1916	rVB	657566	1026270	64.71%	10.265%
38	13.883	1989	1995	2001	rVB2	63469	102584	6.47%	1.026%
39	14.151	2032	2039	2044	rBV4	9660	16989	1.07%	0.170%
40	15.139	2193	2201	2208	rBV	26696	45557	2.87%	0.456%

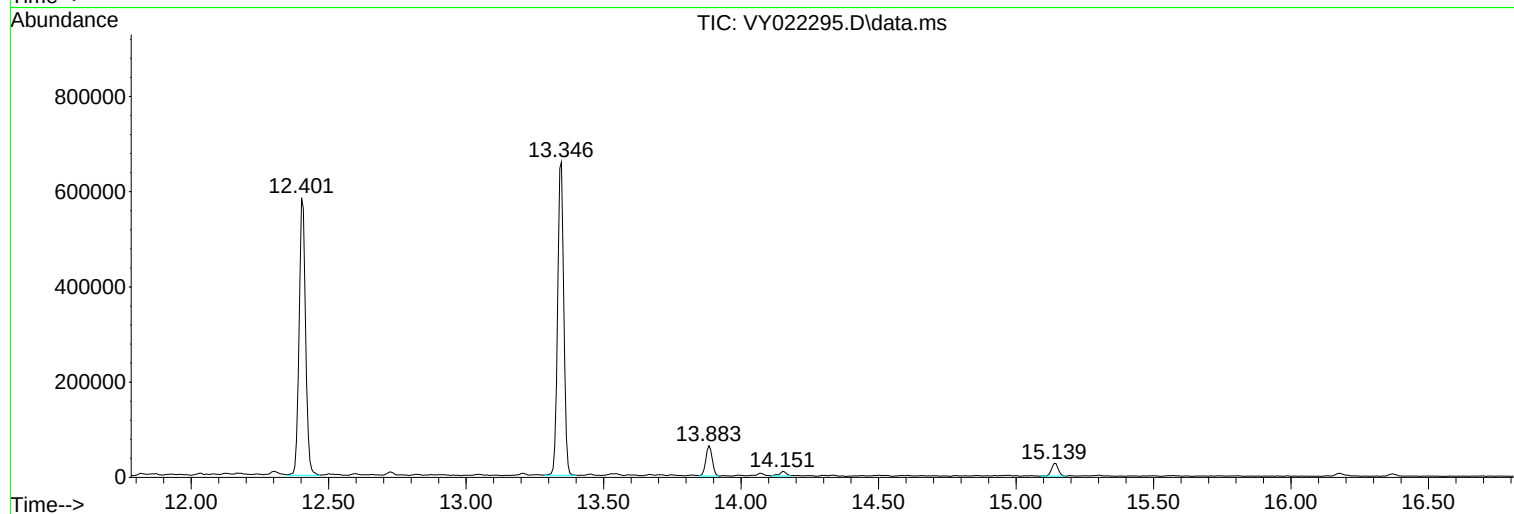
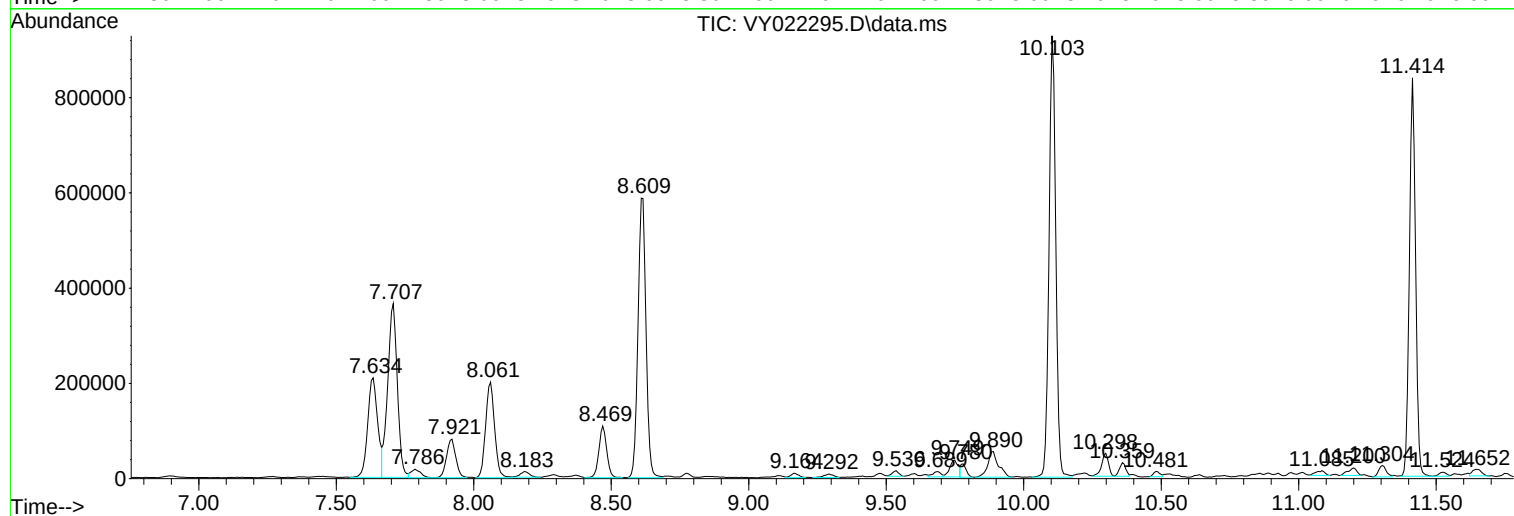
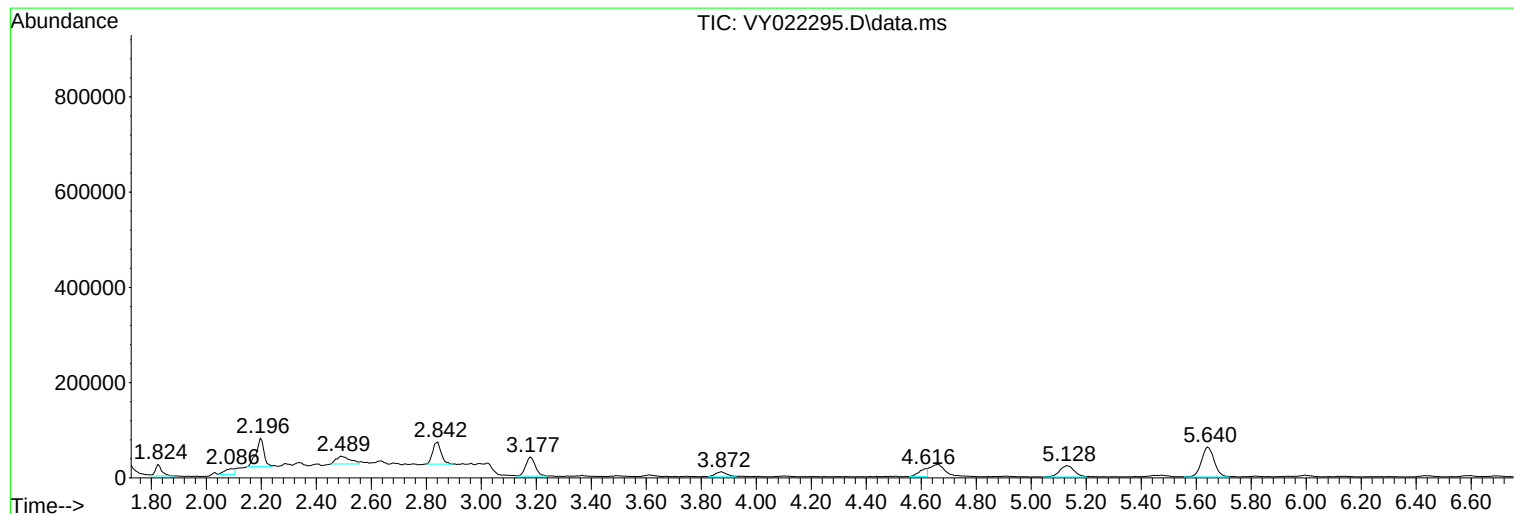
Sum of corrected areas: 9997921

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

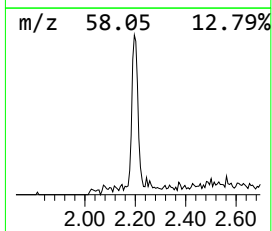
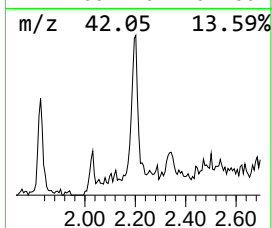
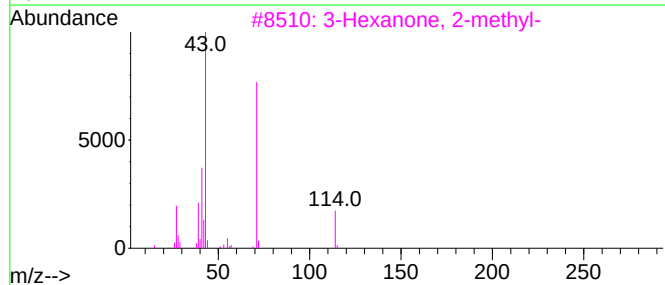
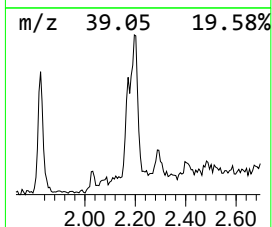
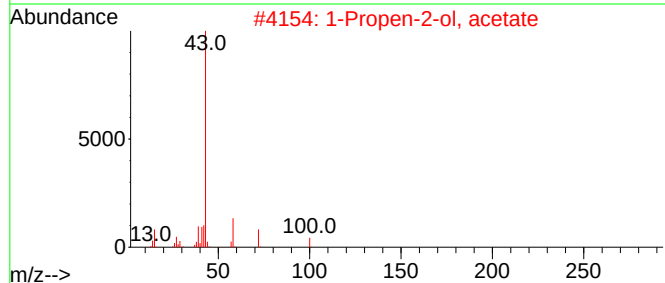
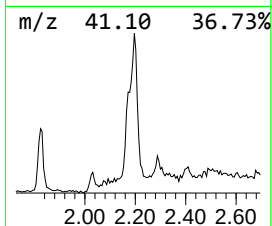
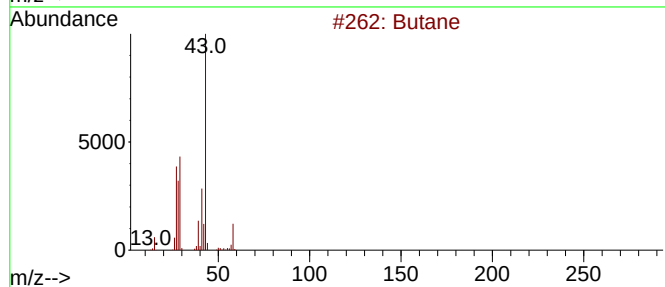
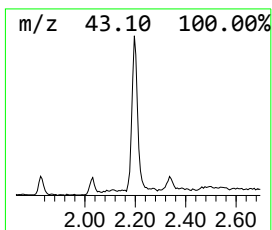
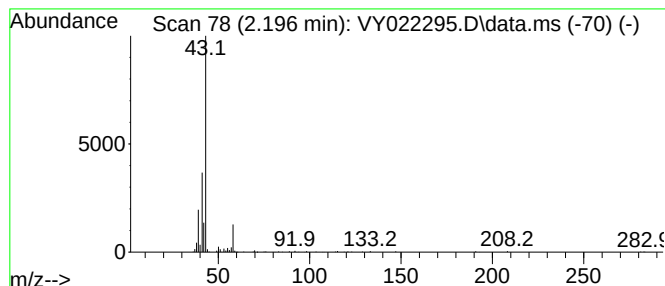
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 1 Butane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.196	6.69 ug/l	118282	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane	58	C4H10	000106-97-8	50
2			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	39
3			3-Hexanone, 2-methyl-	114	C7H14O	007379-12-6	25
4			Propane, 2-nitro-	89	C3H7NO2	000079-46-9	9
5			Formic acid, chloro-, (3,4,4-tri...	194	C7H11ClO4	107323-92-2	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

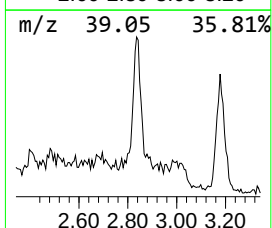
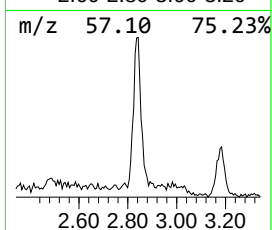
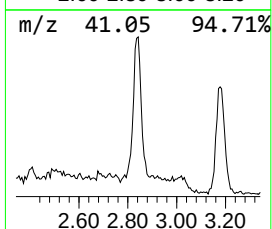
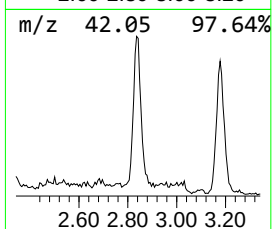
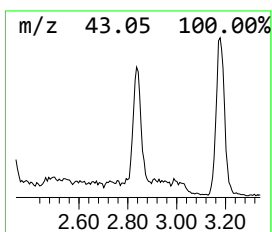
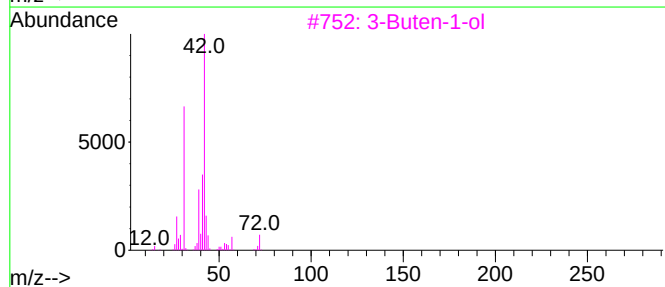
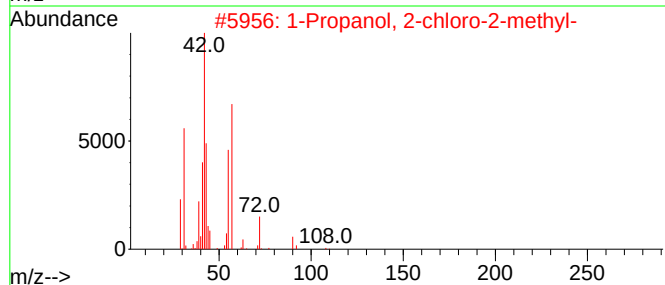
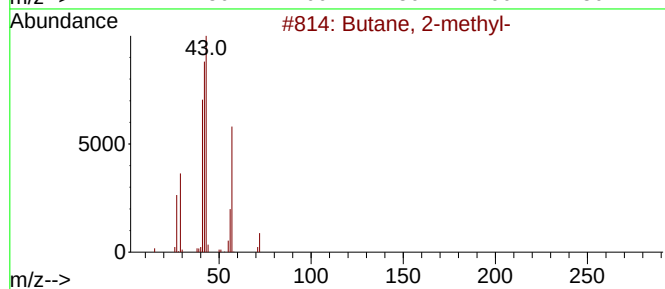
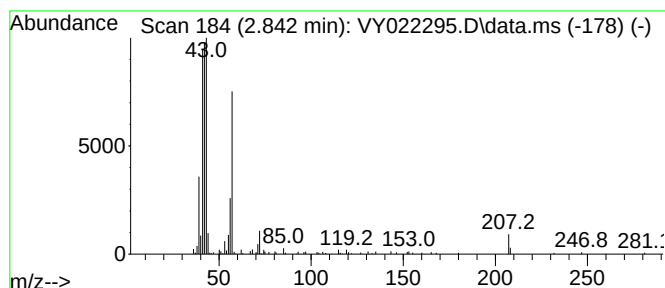
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 2 Butane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.842	5.50 ug/l	97136	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methyl-	72	C5H12	000078-78-4	86
2			1-Propanol, 2-chloro-2-methyl-	108	C4H9ClO	000558-38-3	38
3			3-Buten-1-ol	72	C4H8O	000627-27-0	37
4			Pentane	72	C5H12	000109-66-0	28
5			Oxalic acid, butyl propyl ester	188	C9H16O4	1000309-25-6	10



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

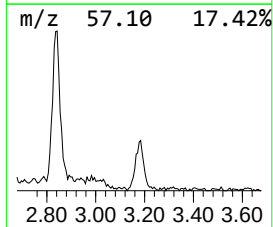
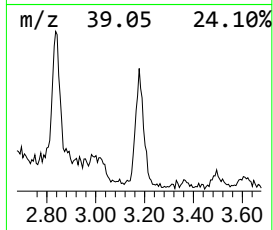
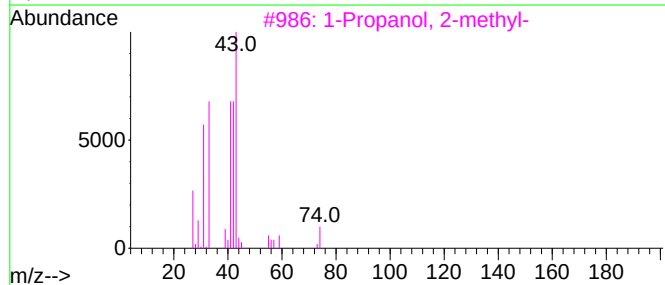
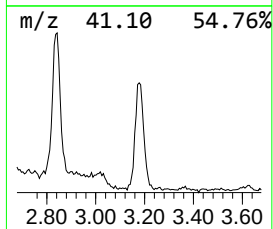
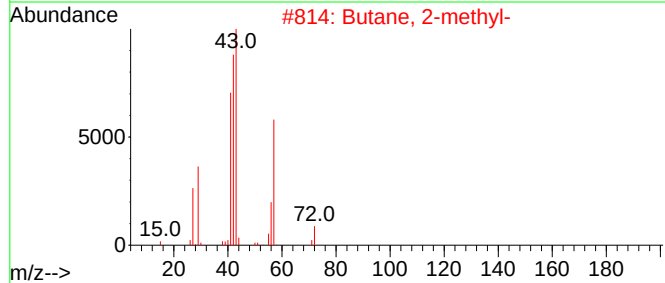
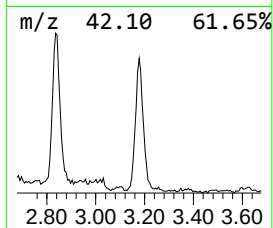
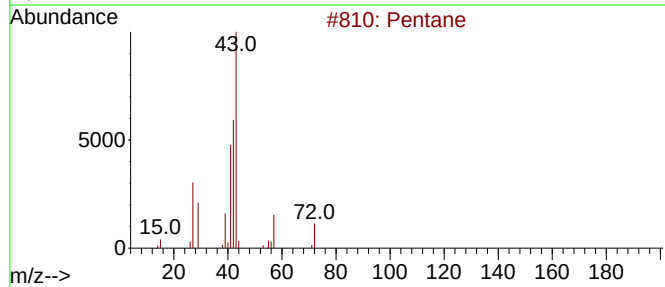
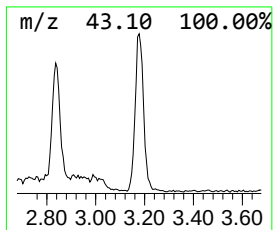
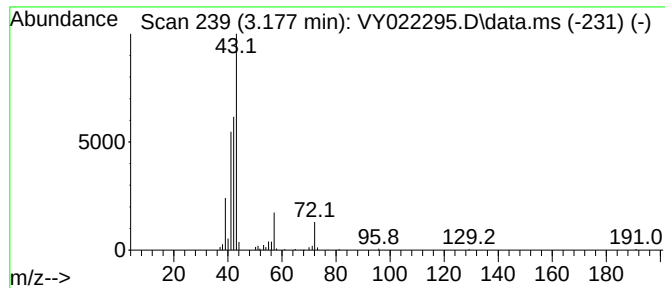
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 3 Pentane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.177	5.44 ug/l	96175	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane	72	C5H12	000109-66-0	91
2			Butane, 2-methyl-	72	C5H12	000078-78-4	50
3			1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	50
4			Oxirane, ethyl-	72	C4H8O	000106-88-7	40
5			Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

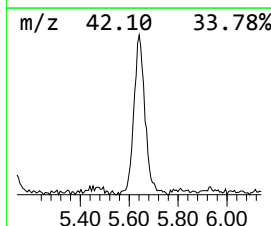
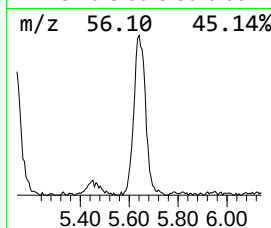
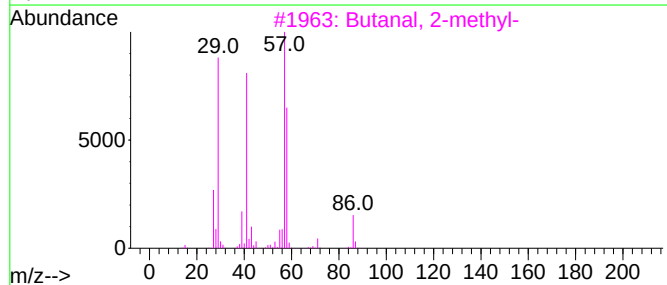
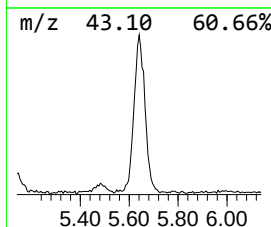
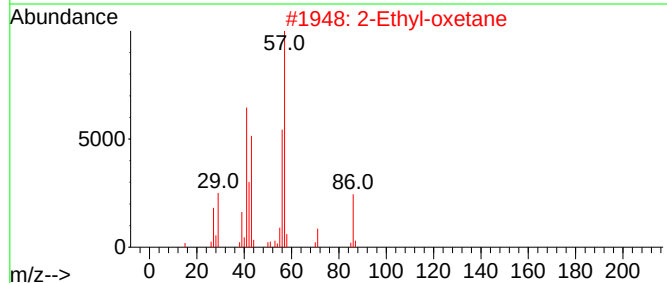
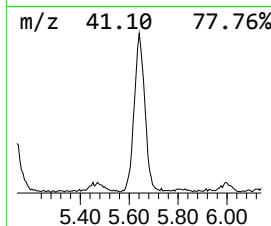
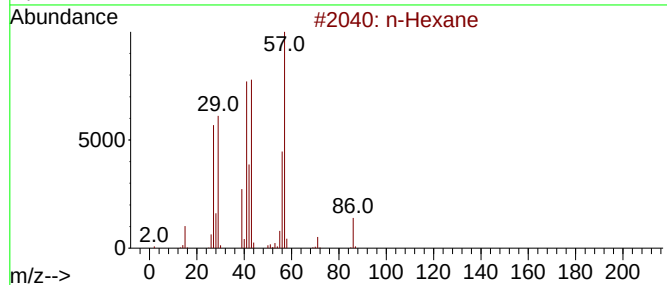
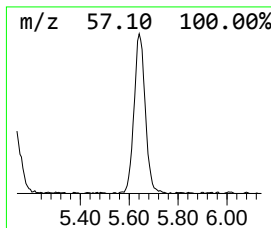
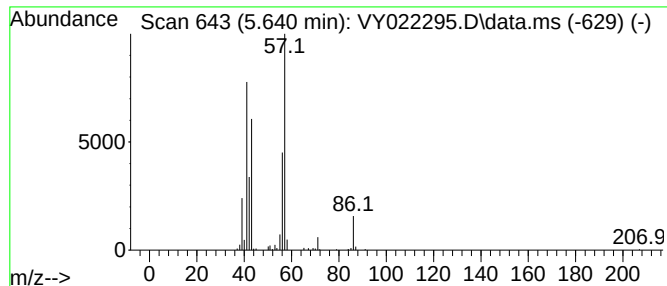
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Quant Title : SW846 8260

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

Peak Number 4 n-Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.640	11.28 ug/l	199425	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexane	86	C6H14	000110-54-3	91
2			2-Ethyl-oxetane	86	C5H10O	1010386-40-2	91
3			Butanal, 2-methyl-	86	C5H10O	000096-17-3	38
4			Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	38
5			Diazene, bis(1,1-dimethylethyl)-	142	C8H18N2	000927-83-3	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

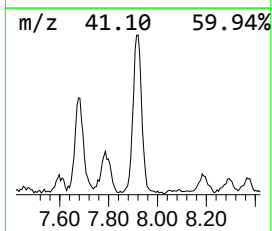
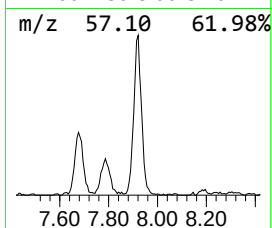
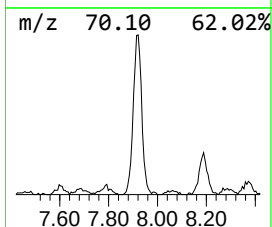
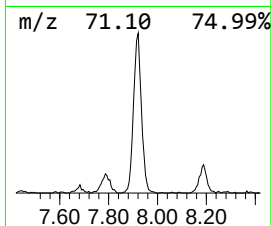
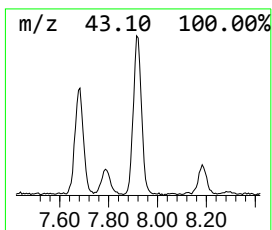
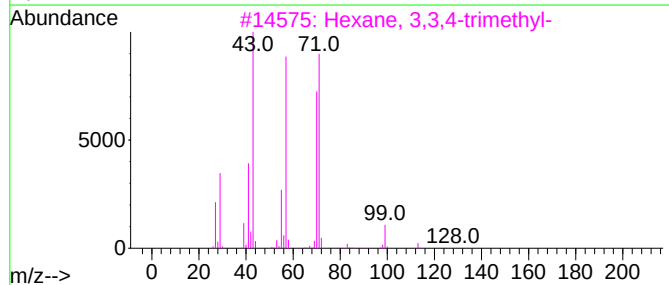
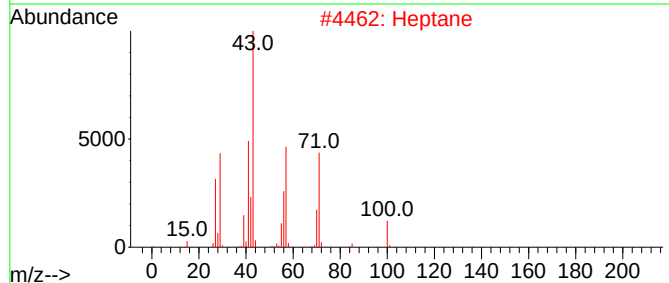
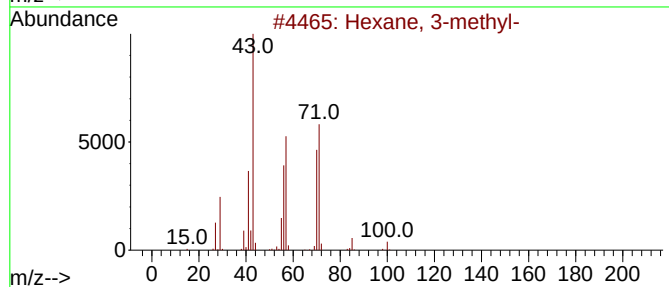
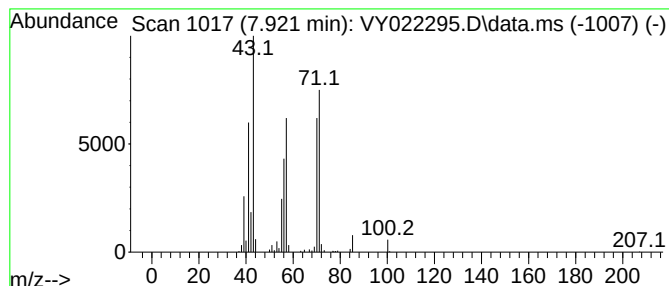
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 5 Hexane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.921	10.66 ug/l	188454	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2			Heptane	100	C7H16	000142-82-5	80
3			Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	59
4			Heptane, 3,3,4-trimethyl-	142	C10H22	020278-87-9	59
5			Heptane, 4-methyl-	114	C8H18	000589-53-7	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

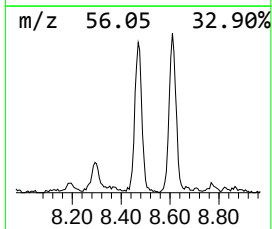
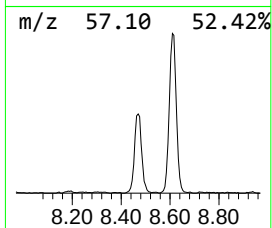
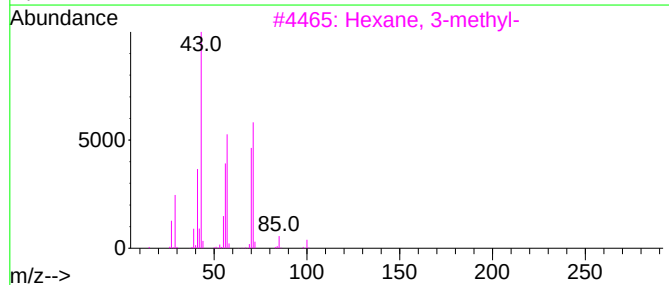
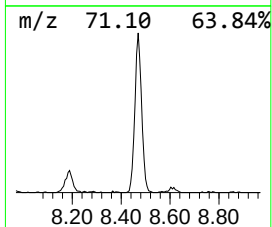
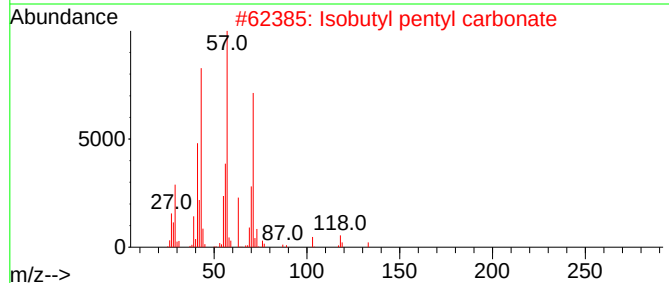
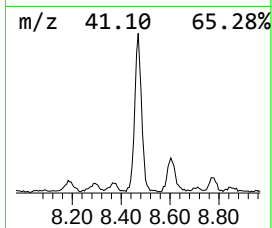
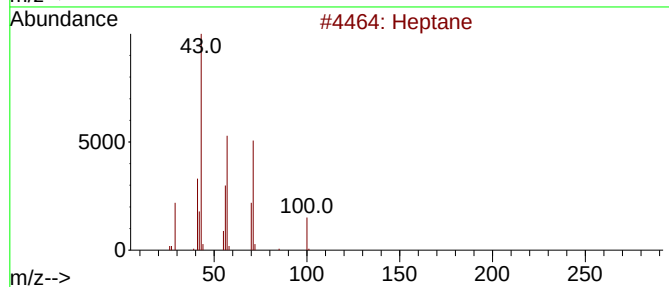
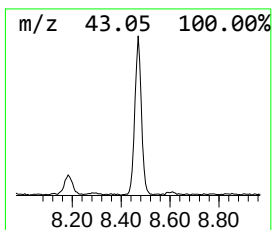
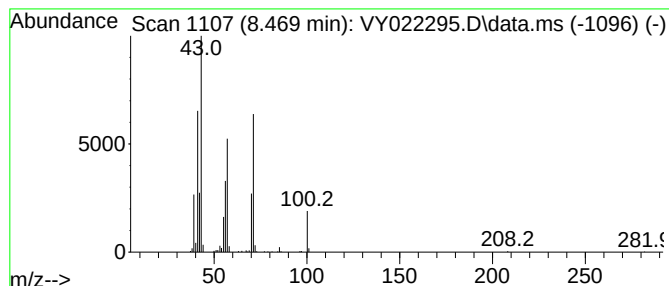
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 6 Heptane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.469	9.05 ug/l	214731	1,4-Difluorobenzene	8.616

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heptane	100	C7H16	000142-82-5	83
2		Isobutyl pentyl carbonate	188	C10H20O3	178442-32-5	50
3		Hexane, 3-methyl-	100	C7H16	000589-34-4	40
4		Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	40
5		Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

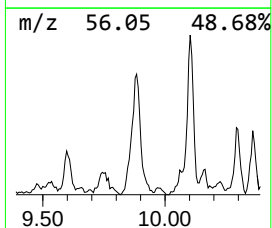
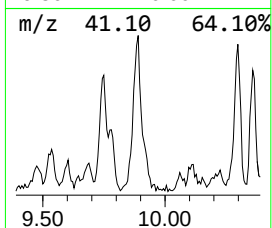
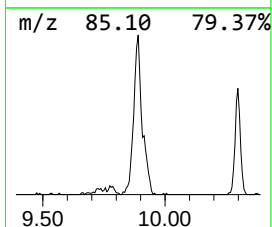
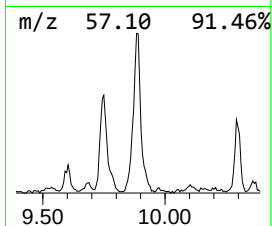
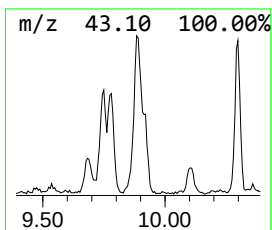
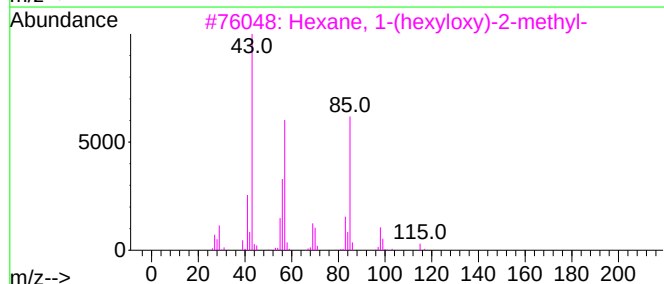
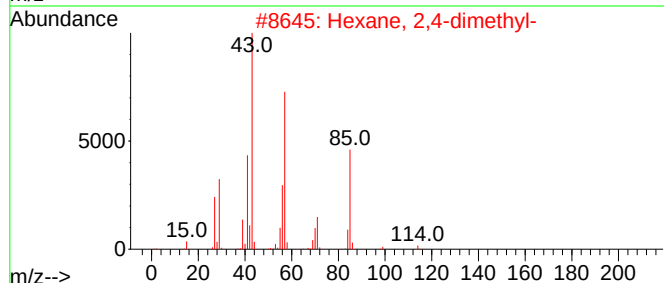
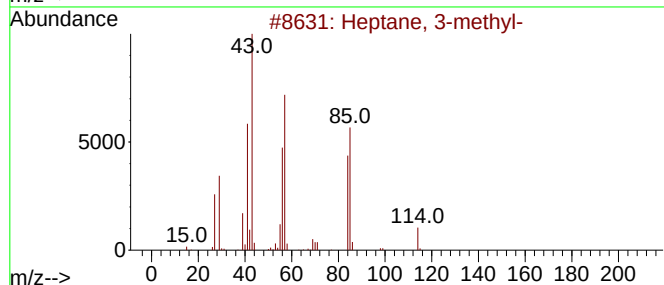
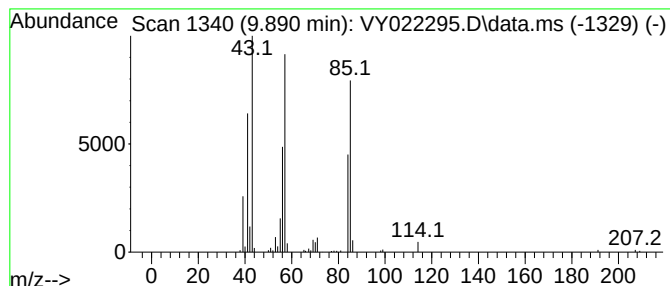
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 7 Heptane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.890	6.06 ug/l	143756	1,4-Difluorobenzene	8.616

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3-methyl-	114	C8H18	000589-81-1	94
2			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
3			Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	64
4			Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64
5			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022295.D
Acq On : 16 May 2025 16:48
Operator : SY/MD
Sample : Q2032-04
Misc : 6.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	2.196	6.7	ug/l	118282	1	7.707	883854	50.0
Butane, 2-methyl-	2.842	5.5	ug/l	97136	1	7.707	883854	50.0
Pentane	3.177	5.4	ug/l	96175	1	7.707	883854	50.0
n-Hexane	5.640	11.3	ug/l	199425	1	7.707	883854	50.0
Hexane, 3-methyl-	7.921	10.7	ug/l	188454	1	7.707	883854	50.0
Heptane	8.469	9.1	ug/l	214731	2	8.616	1185960	50.0
Heptane, 3-methyl-	9.890	6.1	ug/l	143756	2	8.616	1185960	50.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.85	U	0.85	3.70	ug/Kg
74-87-3	Chloromethane	0.85	U	0.85	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.70	ug/Kg
74-83-9	Bromomethane	0.80	U	0.80	3.70	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.90	U	0.90	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.79	U	0.79	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	3.70	ug/Kg
67-64-1	Acetone	25.2		3.50	18.6	ug/Kg
75-15-0	Carbon Disulfide	0.79	U	0.79	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	3.70	ug/Kg
79-20-9	Methyl Acetate	1.10	U	1.10	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	0.64	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	3.70	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	3.70	ug/Kg
78-93-3	2-Butanone	4.90	J	4.90	18.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.72	U	0.72	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	3.70	ug/Kg
74-97-5	Bromochloromethane	0.86	U	0.86	3.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.69	U	0.69	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.68	U	0.68	3.70	ug/Kg
71-43-2	Benzene	0.59	U	0.59	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	3.70	ug/Kg
79-01-6	Trichloroethene	0.60	U	0.60	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.68	U	0.68	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.58	U	0.58	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	18.6	ug/Kg
108-88-3	Toluene	0.58	U	0.58	3.70	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.48	U	0.48	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	3.70	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	18.6	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.78	U	0.78	3.70	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.92	U	0.92	7.50	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	3.70	ug/Kg
100-42-5	Styrene	0.53	U	0.53	3.70	ug/Kg
75-25-2	Bromoform	0.64	U	0.64	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		38 - 136	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	7.707			
540-36-3	1,4-Difluorobenzene	475000	8.609			
3114-55-4	Chlorobenzene-d5	382000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	140000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.5
Sample Wt/Vol:	8.13	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022296.D	1		05/16/25 17:12	VY051625

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_Y\Data\VY051625\
 Data File : VY022296.D
 Acq On : 16 May 2025 17:12
 Operator : SY/MD
 Sample : Q2032-07
 Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-37

Quant Time: May 17 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

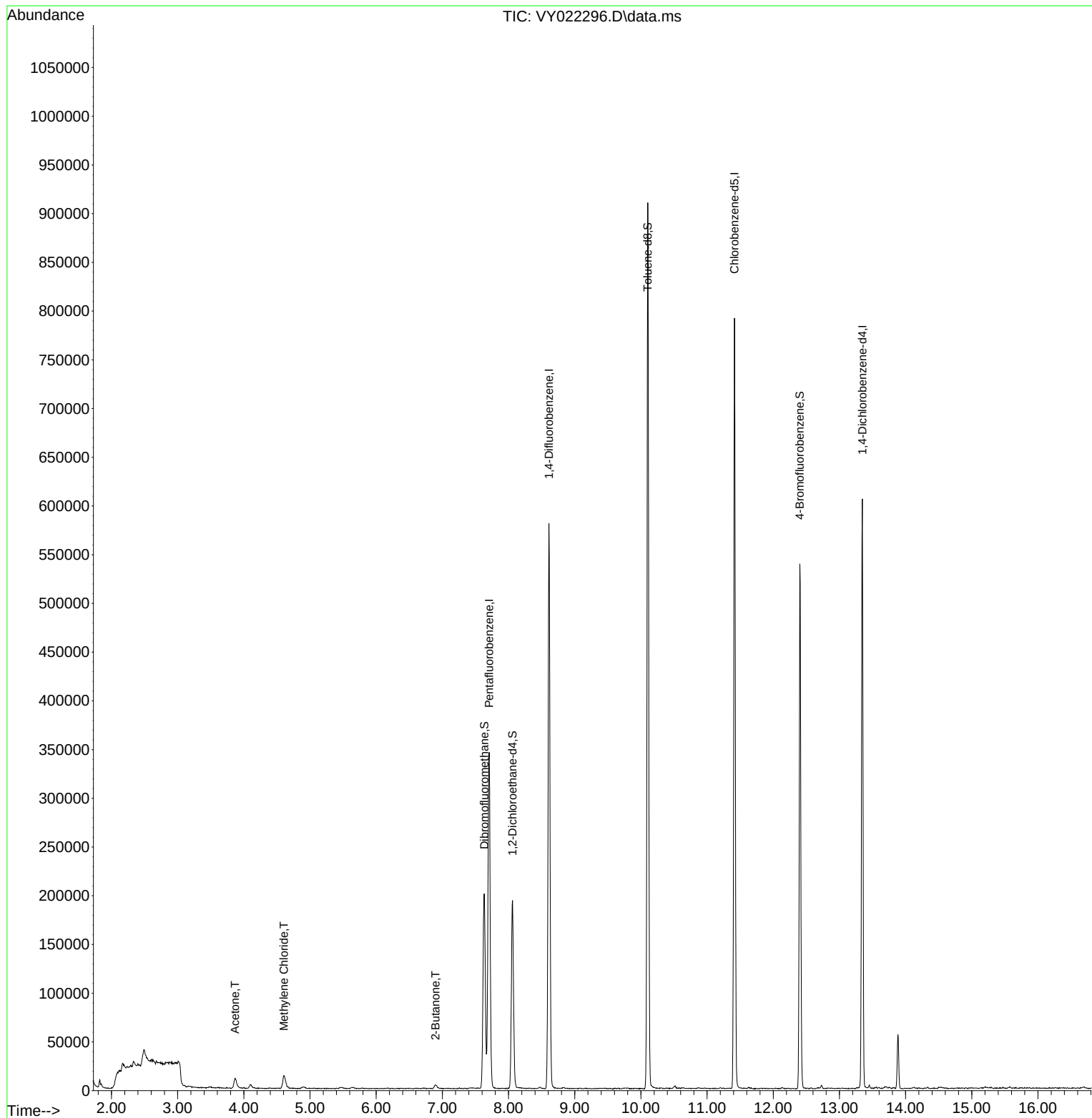
Internal Standards						
1) Pentafluorobenzene	7.707	168	264744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	474666	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	382466	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	139806	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	145755	50.375	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.740%	
35) Dibromofluoromethane	7.634	113	140960	49.755	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.500%	
50) Toluene-d8	10.103	98	565113	48.704	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.400%	
62) 4-Bromofluorobenzene	12.401	95	148783	40.455	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 80.900%	
Target Compounds						
						Qvalue
16) Acetone	3.866	43	18365	33.850	ug/l	93
20) Methylene Chloride	4.604	84	9091	2.593	ug/l	96
25) 2-Butanone	6.896	43	5961	6.569	ug/l #	88

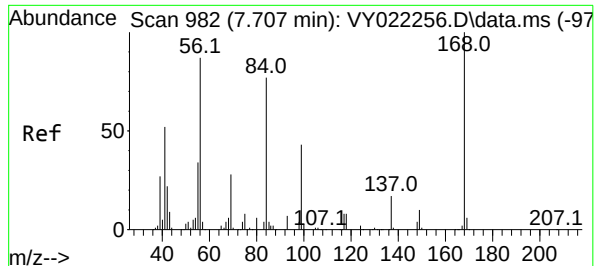
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022296.D
Acq On : 16 May 2025 17:12
Operator : SY/MD
Sample : Q2032-07
Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-37

Quant Time: May 17 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

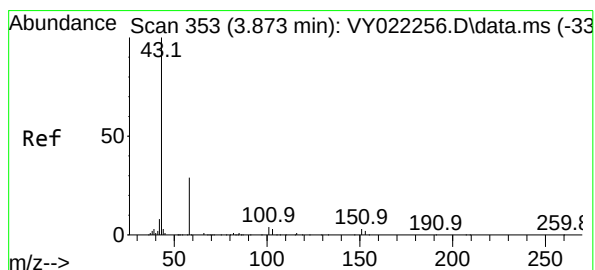
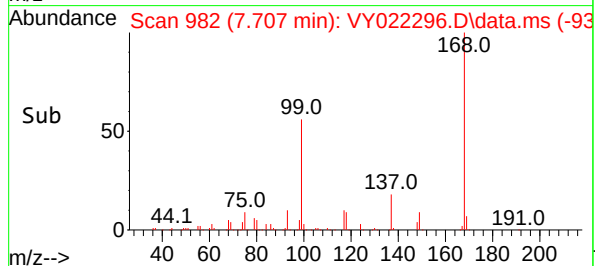
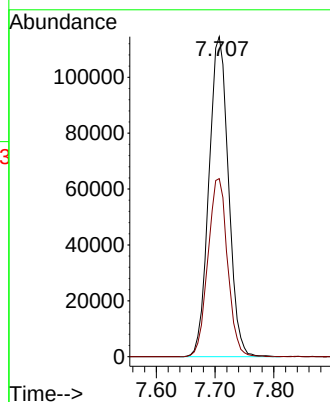
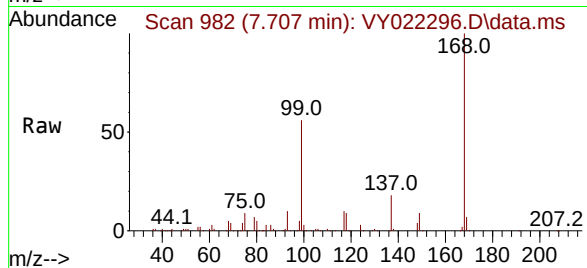




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022296.D
Acq: 16 May 2025 17:12

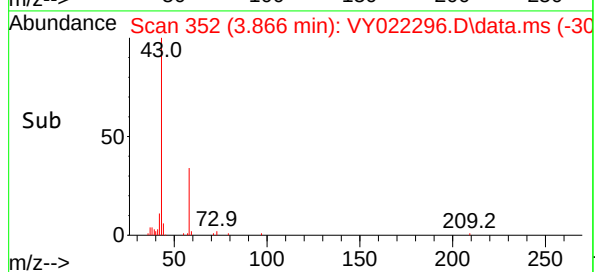
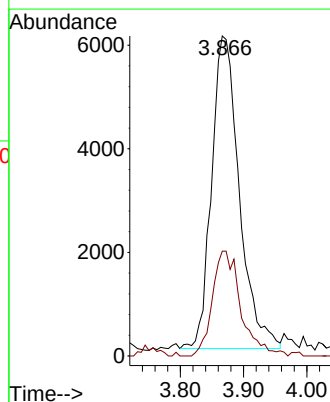
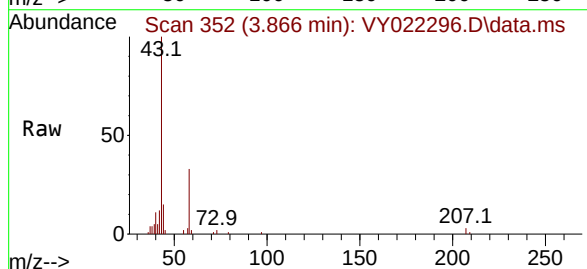
Instrument :
MSVOA_Y
ClientSampleId :
TP-37

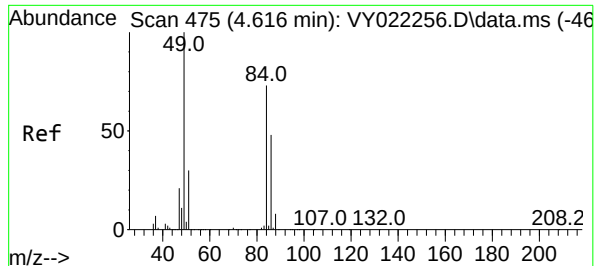
Tgt Ion:168 Resp: 264744
Ion Ratio Lower Upper
168 100
99 55.6 44.2 66.4



#16
Acetone
Concen: 33.850 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.006 min
Lab File: VY022296.D
Acq: 16 May 2025 17:12

Tgt Ion: 43 Resp: 18365
Ion Ratio Lower Upper
43 100
58 33.5 23.6 35.4





#20

Methylene Chloride

Concen: 2.593 ug/l

RT: 4.604 min Scan# 41

Delta R.T. -0.012 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

Instrument :

MSVOA_Y

ClientSampleId :

TP-37

Tgt Ion: 84 Resp: 9091

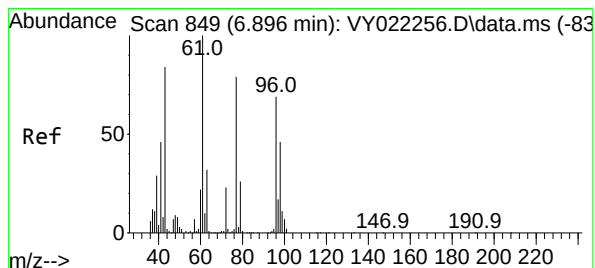
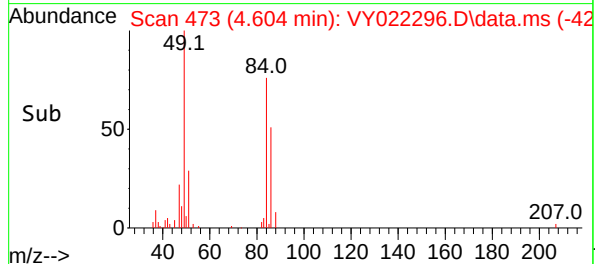
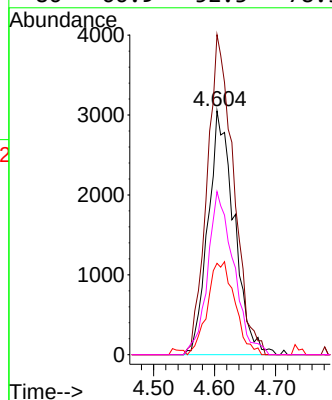
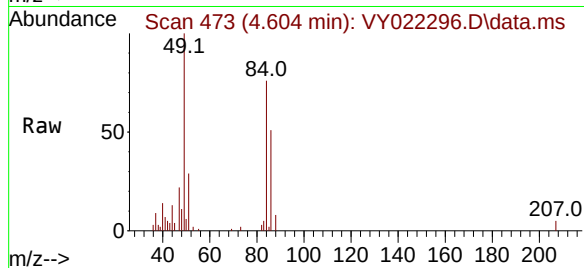
Ion Ratio Lower Upper

84 100

49 131.3 109.6 164.4

51 37.5 32.4 48.6

86 66.9 52.3 78.5



#25

2-Butanone

Concen: 6.569 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.000 min

Lab File: VY022296.D

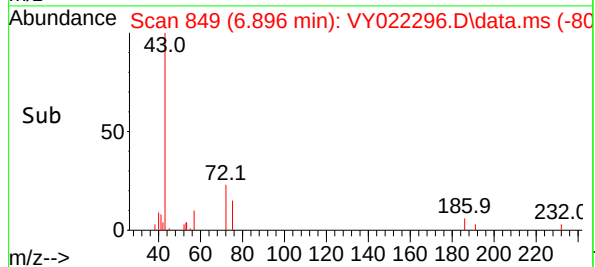
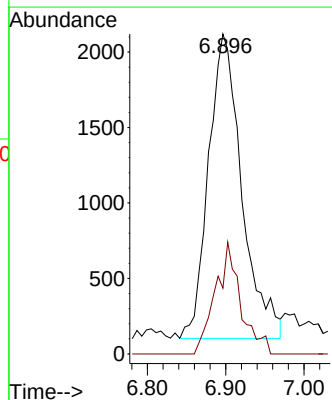
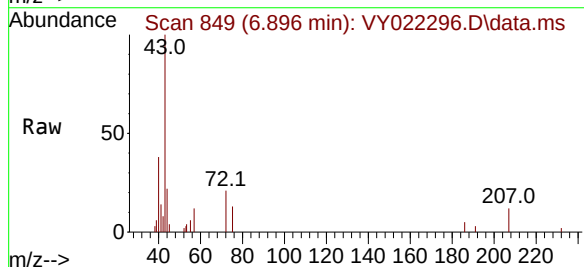
Acq: 16 May 2025 17:12

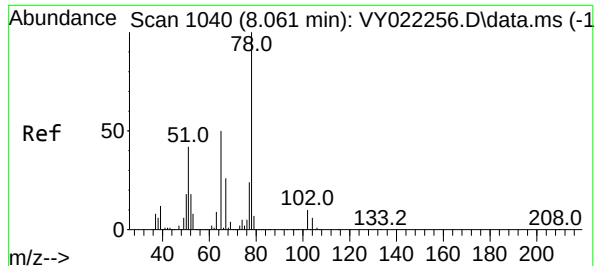
Tgt Ion: 43 Resp: 5961

Ion Ratio Lower Upper

43 100

72 21.6 22.1 33.1#





#33

1,2-Dichloroethane-d4

Concen: 50.375 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

Instrument :

MSVOA_Y

ClientSampleId :

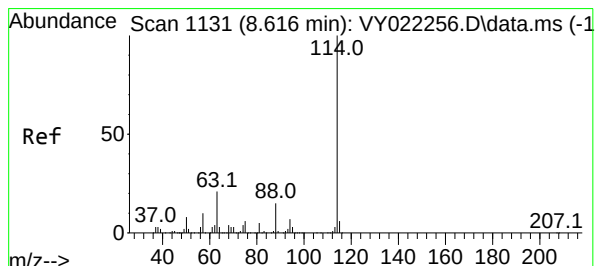
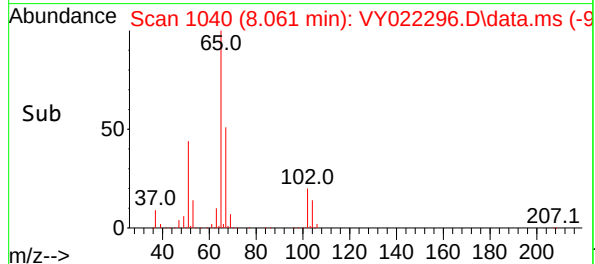
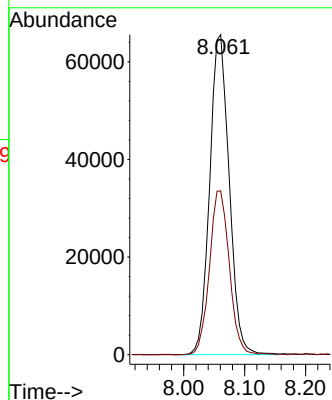
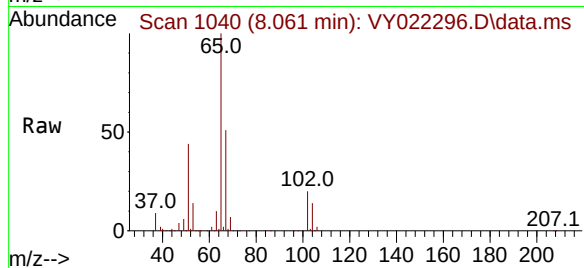
TP-37

Tgt Ion: 65 Resp: 145755

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

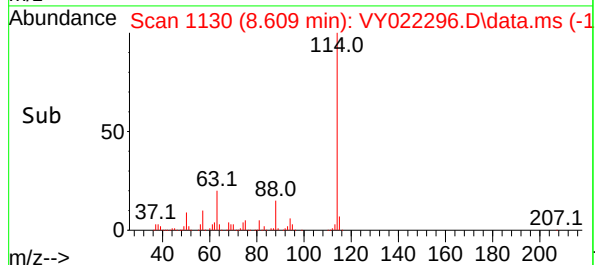
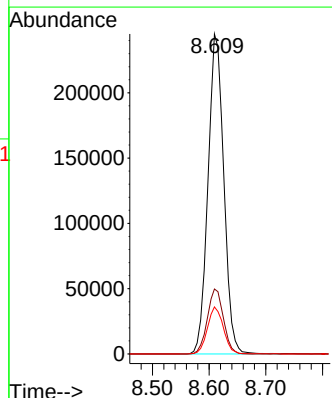
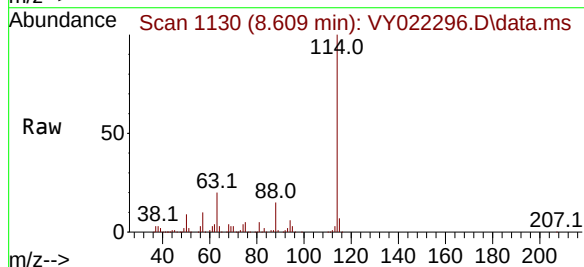
Tgt Ion: 114 Resp: 474666

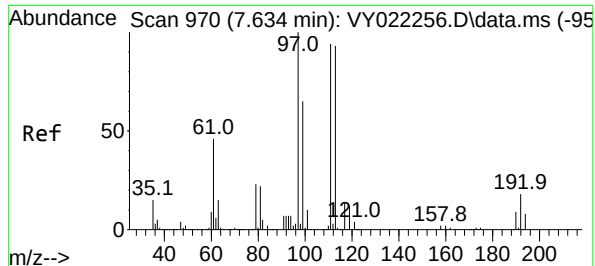
Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.0

88 14.7 0.0 29.4





#35

Dibromofluoromethane

Concen: 49.755 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

Instrument :

MSVOA_Y

ClientSampleId :

TP-37

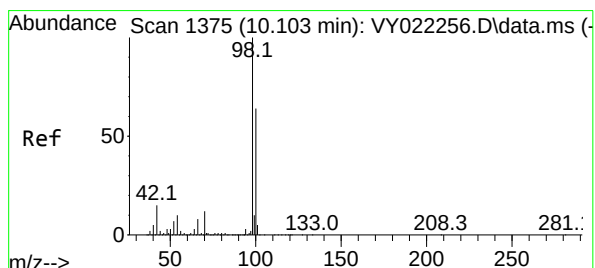
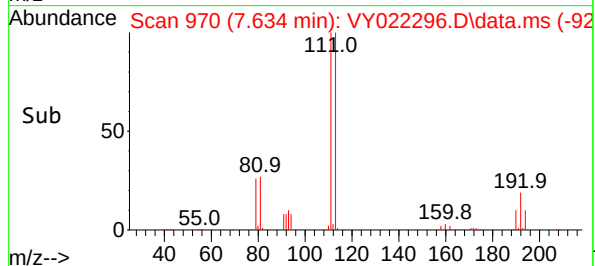
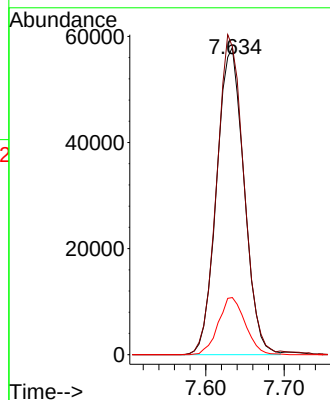
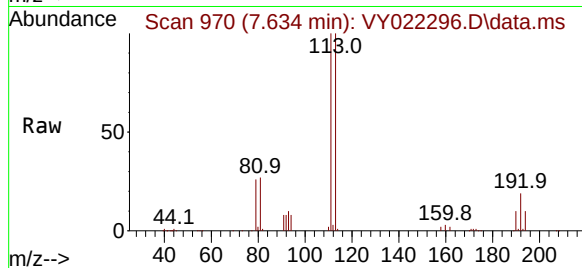
Tgt Ion:113 Resp: 140960

Ion Ratio Lower Upper

113 100

111 103.5 82.6 123.8

192 18.3 15.2 22.8



#50

Toluene-d8

Concen: 48.704 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022296.D

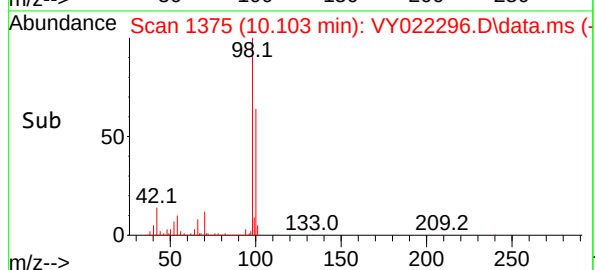
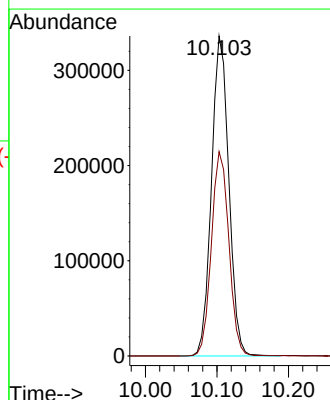
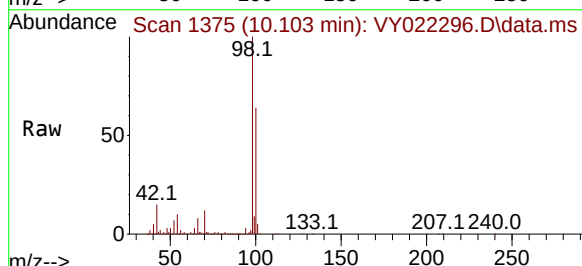
Acq: 16 May 2025 17:12

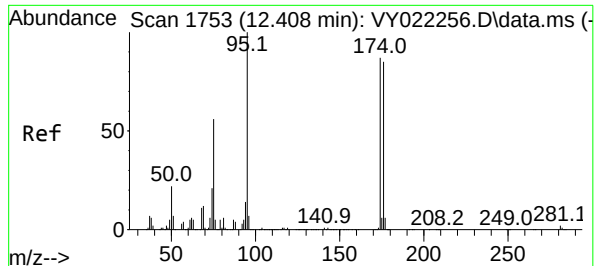
Tgt Ion: 98 Resp: 565113

Ion Ratio Lower Upper

98 100

100 64.6 51.8 77.8





#62

4-Bromofluorobenzene

Concen: 40.455 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

Instrument :

MSVOA_Y

ClientSampleId :

TP-37

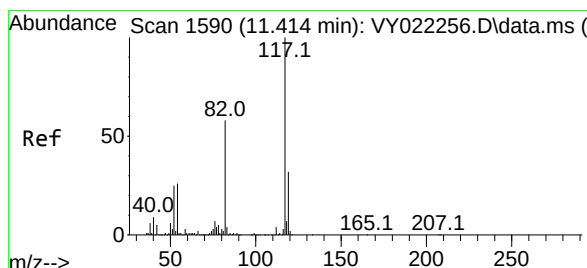
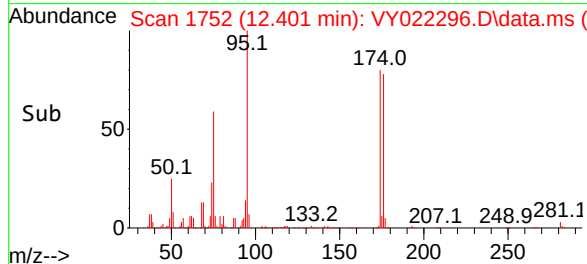
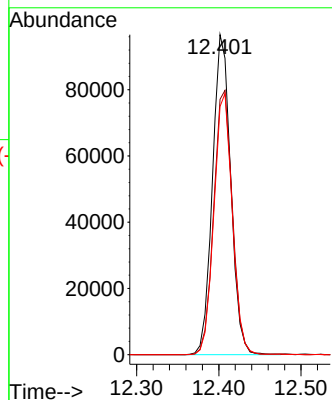
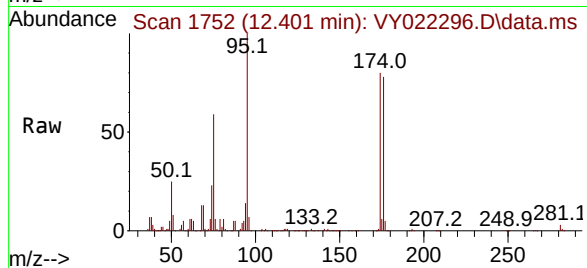
Tgt Ion: 95 Resp: 148783

Ion Ratio Lower Upper

95 100

174 84.6 0.0 166.8

176 82.4 0.0 160.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022296.D

Acq: 16 May 2025 17:12

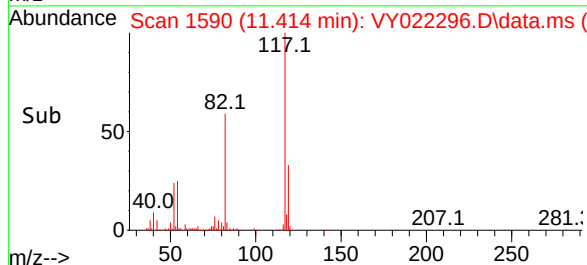
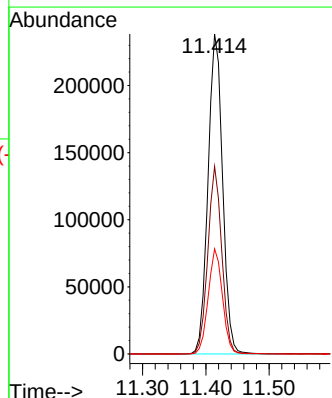
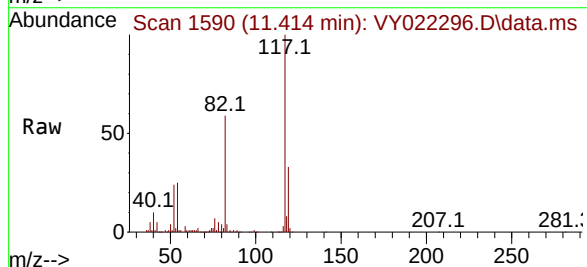
Tgt Ion: 117 Resp: 382466

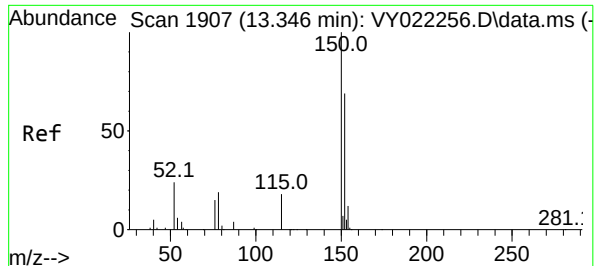
Ion Ratio Lower Upper

117 100

82 58.6 46.6 70.0

119 32.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 19

Delta R.T. -0.000 min

Lab File: VY022296.D

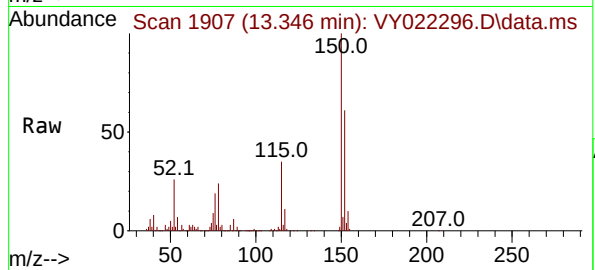
Acq: 16 May 2025 17:12

Instrument :

MSVOA_Y

ClientSampleId :

TP-37



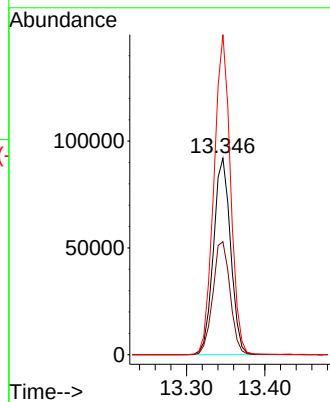
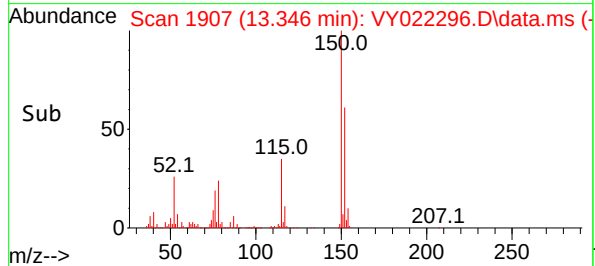
Tgt Ion:152 Resp: 139806

Ion Ratio Lower Upper

152 100

115 57.9 29.4 88.2

150 157.7 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022296.D
 Acq On : 16 May 2025 17:12
 Operator : SY/MD
 Sample : Q2032-07
 Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-37

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022296.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	47	61	62	rBV3	16537	45757	2.95%	0.598%
2	3.866	341	352	366	rBV	10615	34064	2.20%	0.445%
3	4.604	464	473	482	rBV3	13416	41538	2.68%	0.543%
4	7.634	959	970	975	rBV	199461	481917	31.06%	6.295%
5	7.707	975	982	995	rVB	344657	802555	51.73%	10.483%
6	8.061	1031	1040	1051	rBV	192993	433714	27.95%	5.665%
7	8.609	1120	1130	1145	rBV	580315	1133136	73.03%	14.801%
8	10.103	1367	1375	1389	rBV	909472	1551567	100.00%	20.266%
9	11.414	1583	1590	1604	rBV	790460	1252509	80.73%	16.360%
10	12.401	1745	1752	1762	rBV	538565	871748	56.19%	11.387%
11	13.346	1899	1907	1914	rBV	604313	918317	59.19%	11.995%
12	13.883	1989	1995	2001	rBV	55645	89001	5.74%	1.163%

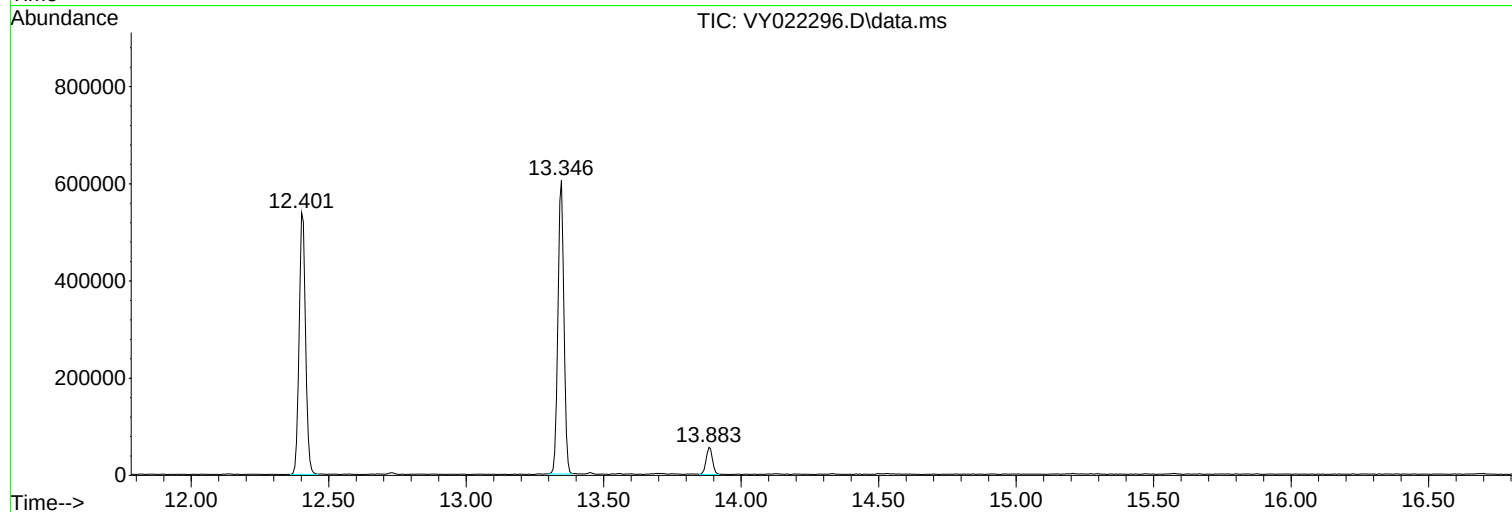
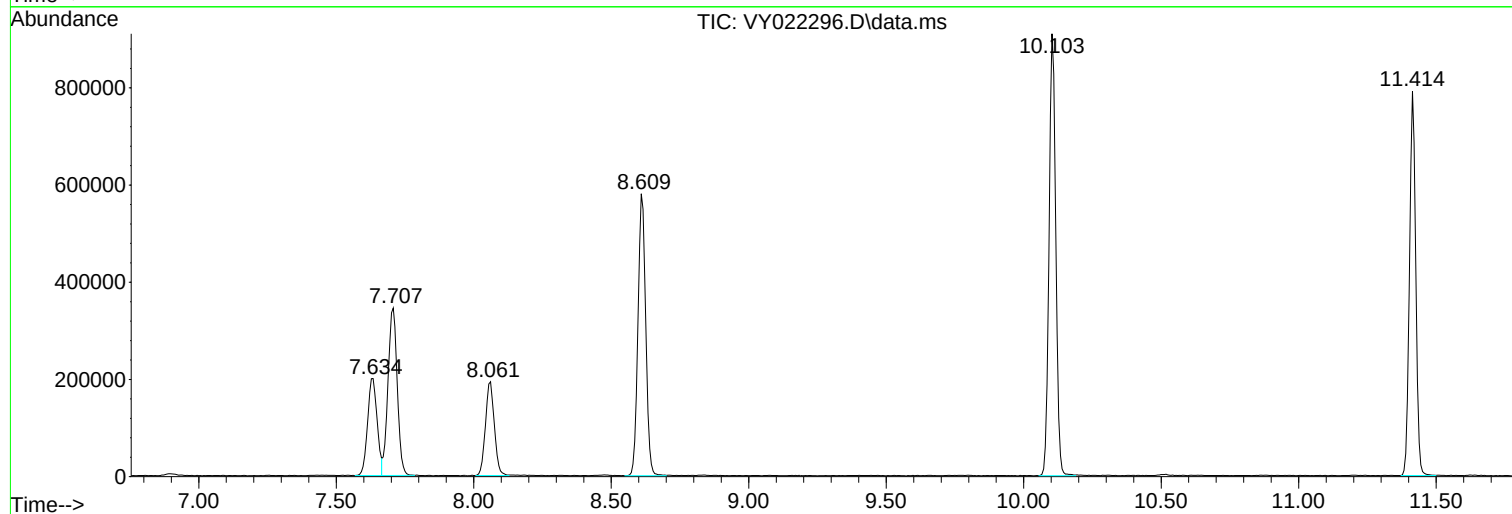
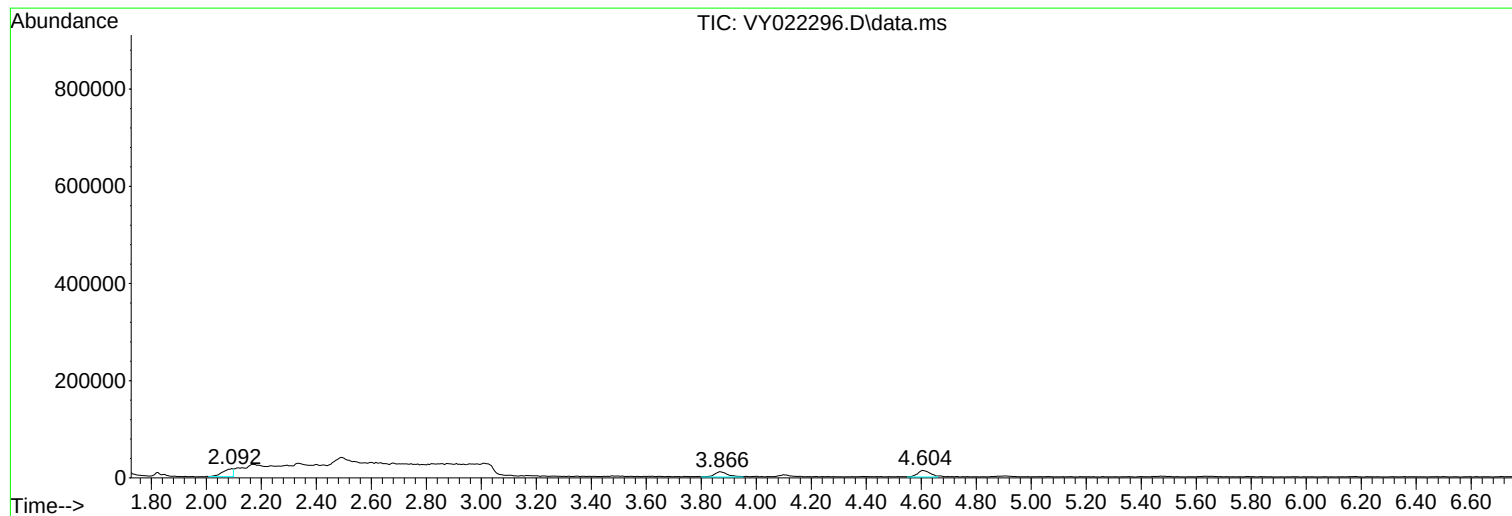
Sum of corrected areas: 7655823

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022296.D
Acq On : 16 May 2025 17:12
Operator : SY/MD
Sample : Q2032-07
Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-37

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022296.D
Acq On : 16 May 2025 17:12
Operator : SY/MD
Sample : Q2032-07
Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-37

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY051625\
Data File : VY022296.D
Acq On : 16 May 2025 17:12
Operator : SY/MD
Sample : Q2032-07
Misc : 8.13g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-37

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

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	0.92	U	0.92	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.9	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	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	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	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.69	U	0.69	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	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	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.9	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	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	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.80	U	0.80	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.81	U	0.81	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	9.20	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	0.79	U	0.79	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	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	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.8		38 - 136	78%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	7.707			
540-36-3	1,4-Difluorobenzene	463000	8.61			
3114-55-4	Chlorobenzene-d5	368000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.347			



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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.28	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022297.D	1		05/16/25 17:35	VY051625

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_Y\Data\VY051625\
 Data File : VY022297.D
 Acq On : 16 May 2025 17:35
 Operator : SY/MD
 Sample : Q2032-08
 Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-32

Quant Time: May 17 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

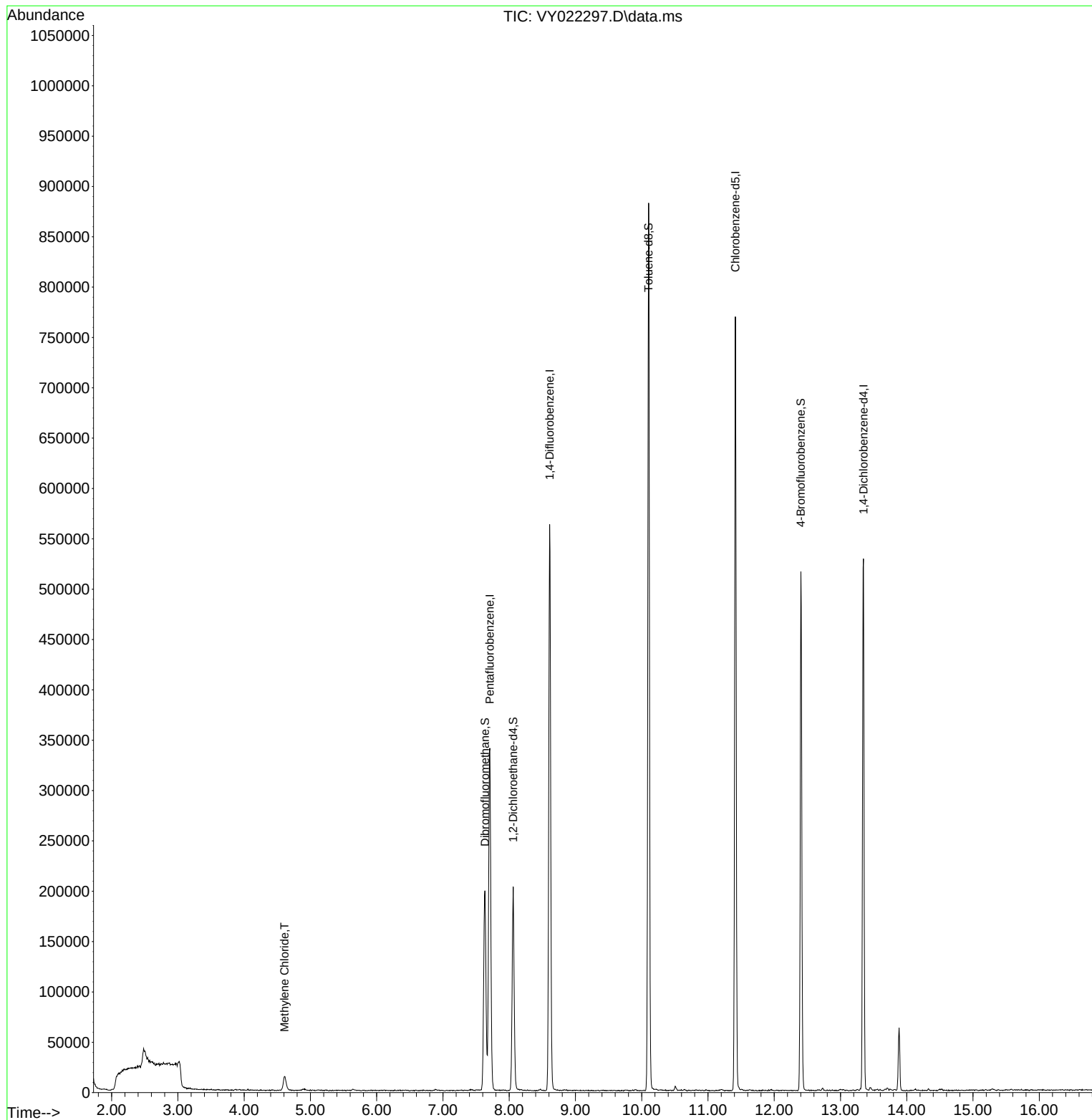
Internal Standards						
1) Pentafluorobenzene	7.707	168	262305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	463101	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	367604	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	125957	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	140017	48.842	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.680%
35) Dibromofluoromethane	7.634	113	137514	49.751	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.500%
50) Toluene-d8	10.103	98	552649	48.819	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.640%
62) 4-Bromofluorobenzene	12.402	95	139275	38.815	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	77.640%
Target Compounds						
20) Methylene Chloride	4.610	84	9798	2.821	ug/l	83

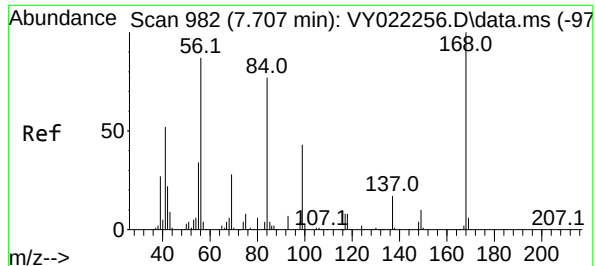
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022297.D
Acq On : 16 May 2025 17:35
Operator : SY/MD
Sample : Q2032-08
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-32

Quant Time: May 17 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

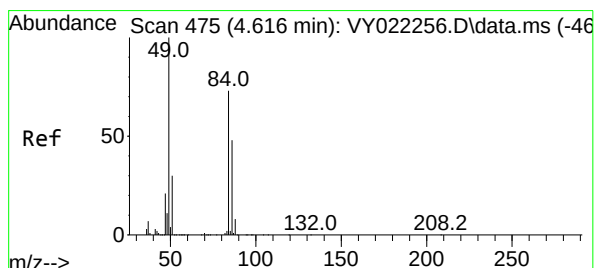
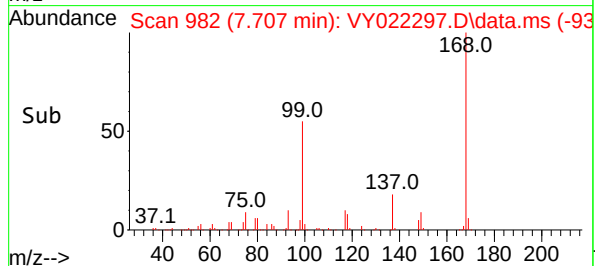
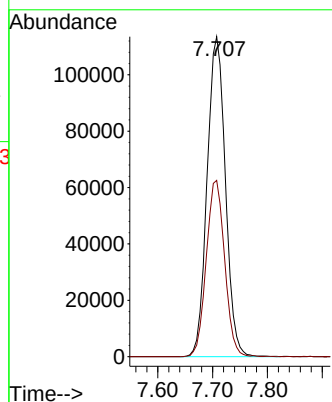
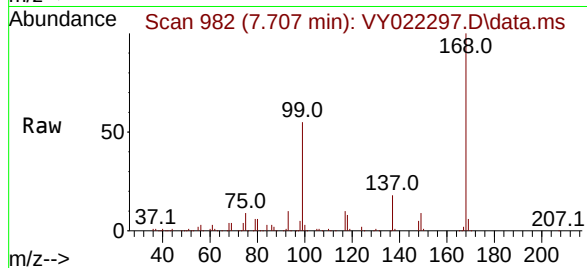




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022297.D
Acq: 16 May 2025 17:35

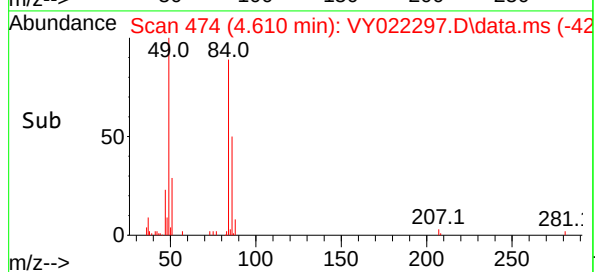
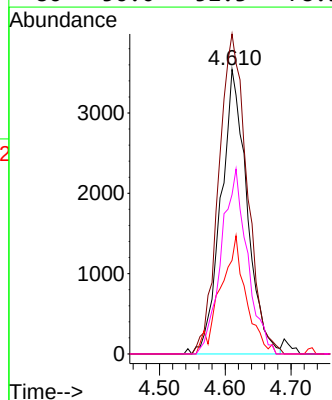
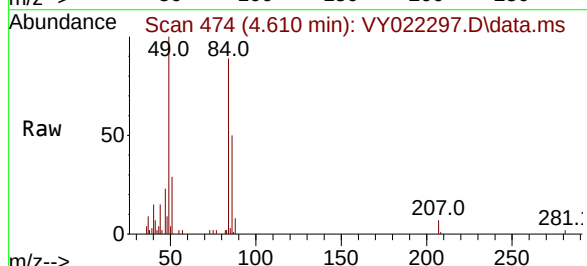
Instrument :
MSVOA_Y
ClientSampleId :
TP-32

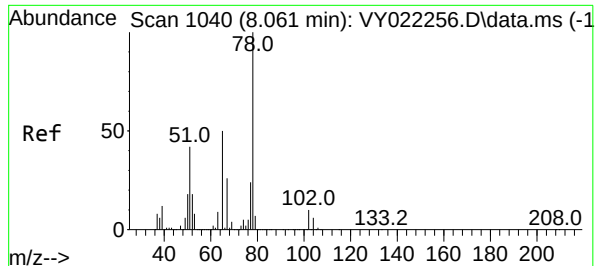
Tgt Ion:168 Resp: 262305
Ion Ratio Lower Upper
168 100
99 55.1 44.2 66.4



#20
Methylene Chloride
Concen: 2.821 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022297.D
Acq: 16 May 2025 17:35

Tgt Ion: 84 Resp: 9798
Ion Ratio Lower Upper
84 100
49 112.5 109.6 164.4
51 32.9 32.4 48.6
86 56.0 52.3 78.5





#33

1,2-Dichloroethane-d4

Concen: 48.842 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY022297.D

Acq: 16 May 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

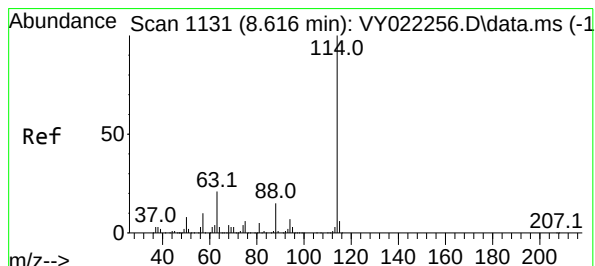
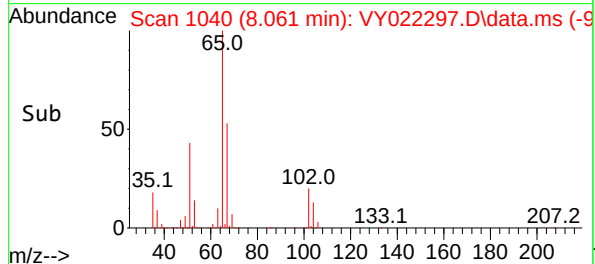
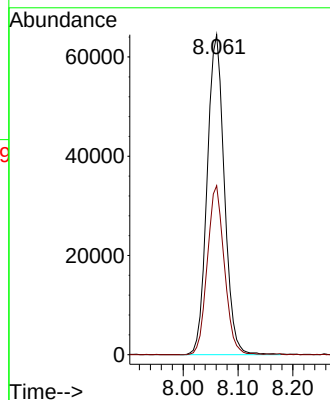
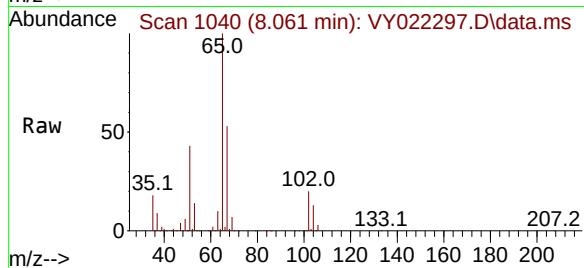
TP-32

Tgt Ion: 65 Resp: 140017

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022297.D

Acq: 16 May 2025 17:35

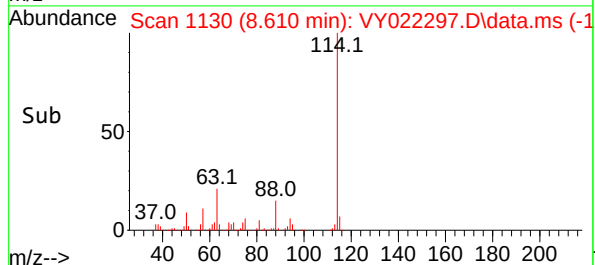
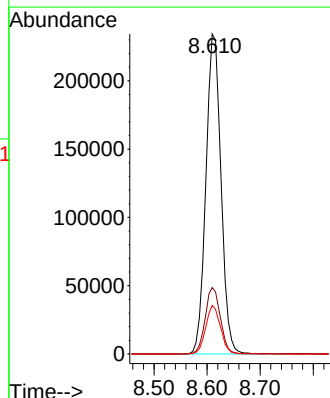
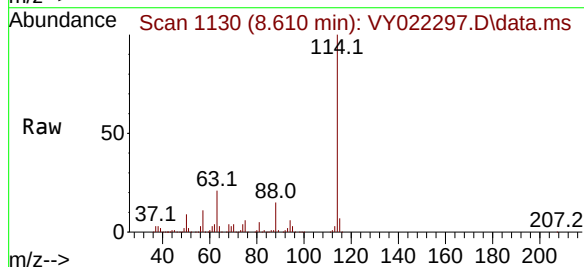
Tgt Ion: 114 Resp: 463101

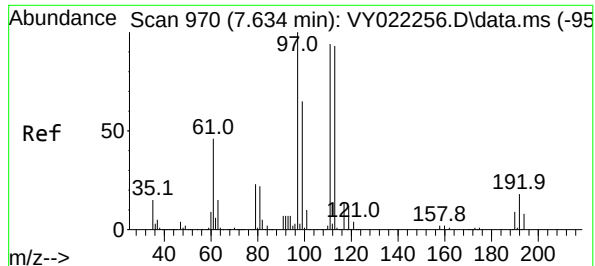
Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.0

88 15.1 0.0 29.4





#35

Dibromofluoromethane

Concen: 49.751 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY022297.D

Acq: 16 May 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-32

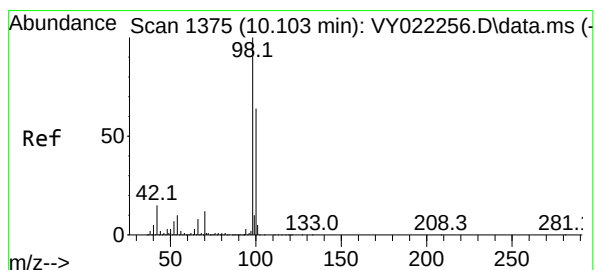
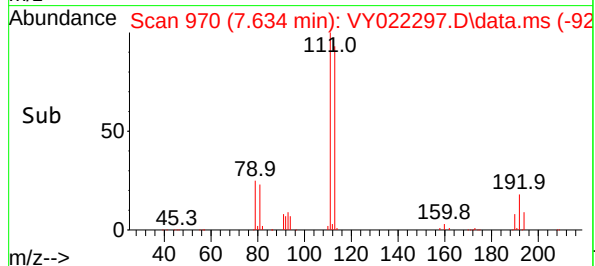
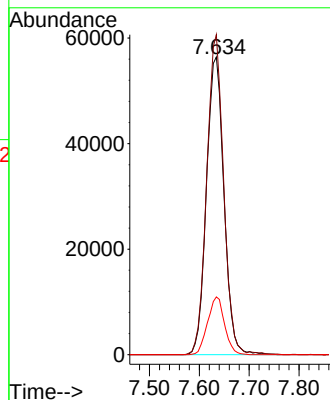
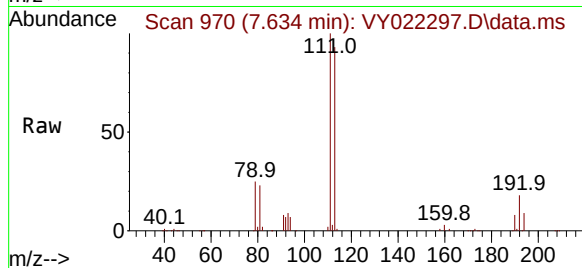
Tgt Ion:113 Resp: 137514

Ion Ratio Lower Upper

113 100

111 104.2 82.6 123.8

192 18.8 15.2 22.8



#50

Toluene-d8

Concen: 48.819 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY022297.D

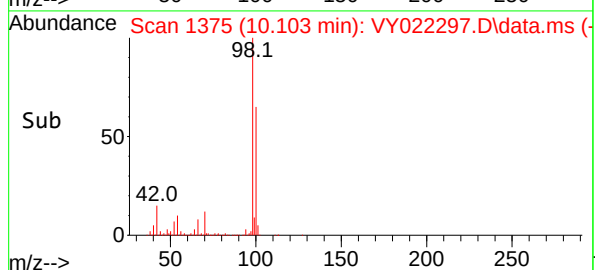
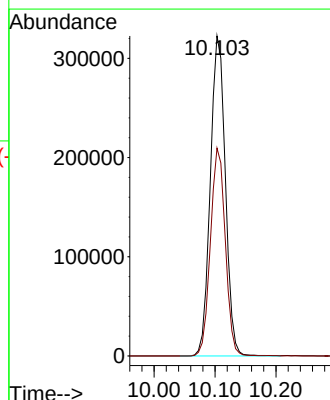
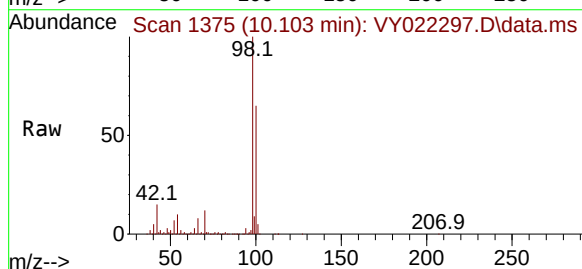
Acq: 16 May 2025 17:35

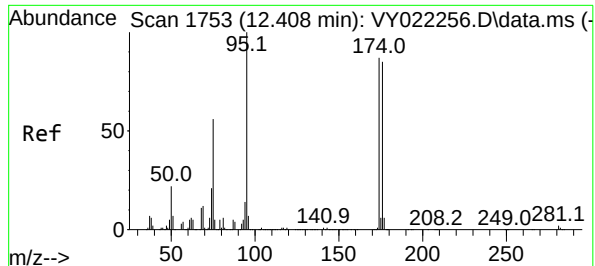
Tgt Ion: 98 Resp: 552649

Ion Ratio Lower Upper

98 100

100 64.2 51.8 77.8





#62

4-Bromofluorobenzene

Concen: 38.815 ug/l

RT: 12.402 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022297.D

Acq: 16 May 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-32

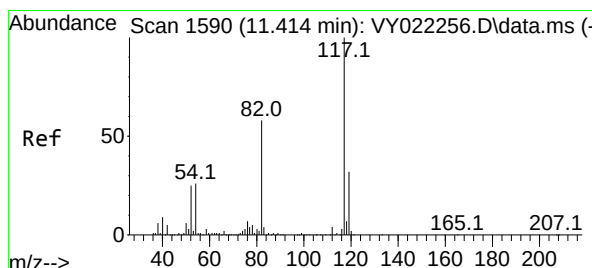
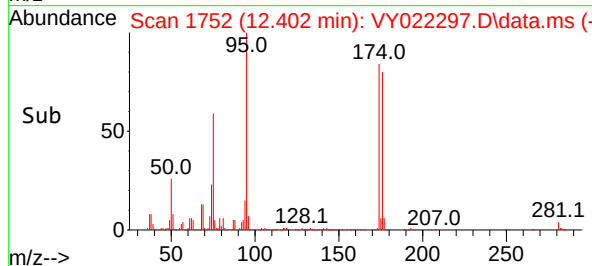
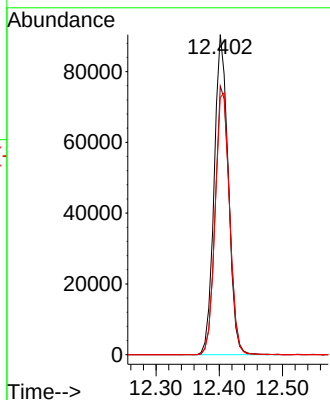
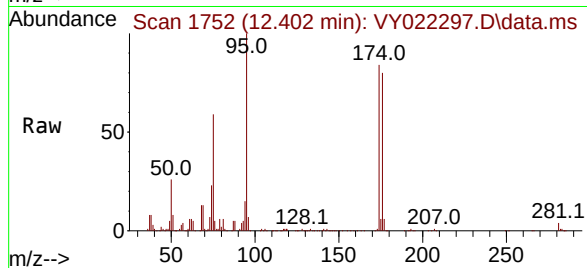
Tgt Ion: 95 Resp: 139275

Ion Ratio Lower Upper

95 100

174 84.8 0.0 166.8

176 83.4 0.0 160.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY022297.D

Acq: 16 May 2025 17:35

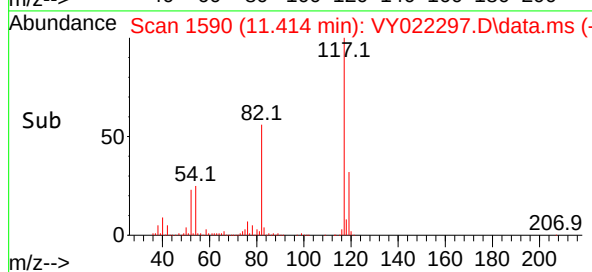
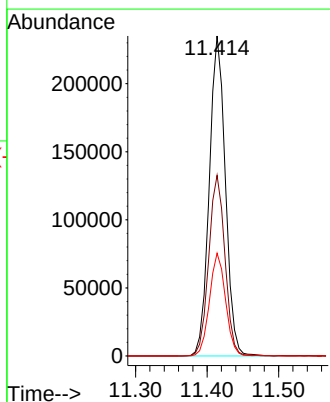
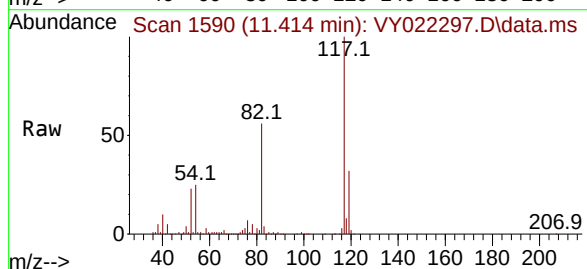
Tgt Ion: 117 Resp: 367604

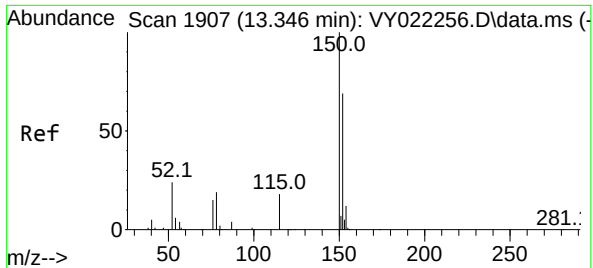
Ion Ratio Lower Upper

117 100

82 56.5 46.6 70.0

119 32.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 19

Delta R.T. 0.000 min

Lab File: VY022297.D

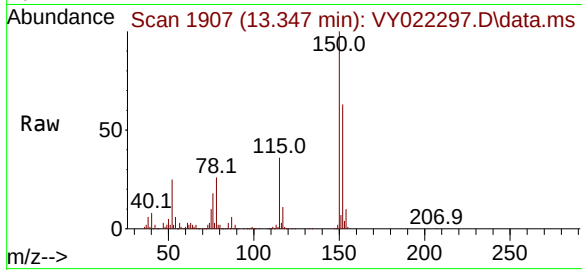
Acq: 16 May 2025 17:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-32



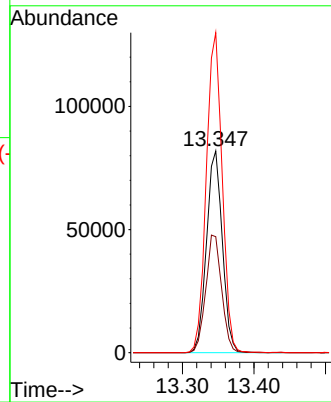
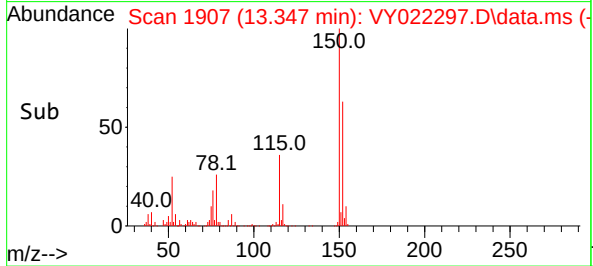
Tgt Ion:152 Resp: 125957

Ion Ratio Lower Upper

152 100

115 58.7 29.4 88.2

150 158.9 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022297.D
 Acq On : 16 May 2025 17:35
 Operator : SY/MD
 Sample : Q2032-08
 Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-32

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022297.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.117	49	65	66	rBV8	16556	62933	4.16%	0.847%
2	2.483	121	125	127	rBV5	13169	20989	1.39%	0.282%
3	4.610	465	474	486	rBV2	13679	43038	2.84%	0.579%
4	7.634	961	970	976	rBV2	197796	481875	31.82%	6.484%
5	7.707	976	982	996	rVB	339741	784122	51.79%	10.551%
6	8.061	1030	1040	1053	rBV	202317	423737	27.99%	5.702%
7	8.610	1119	1130	1142	rBV	562427	1108218	73.19%	14.912%
8	10.103	1366	1375	1384	rBV	881887	1514155	100.00%	20.375%
9	11.414	1581	1590	1603	rBV	768708	1215523	80.28%	16.356%
10	12.402	1744	1752	1765	rBV2	515777	840189	55.49%	11.306%
11	13.347	1897	1907	1917	rBV	527940	836945	55.27%	11.262%
12	13.883	1988	1995	2001	rBV2	62076	99761	6.59%	1.342%

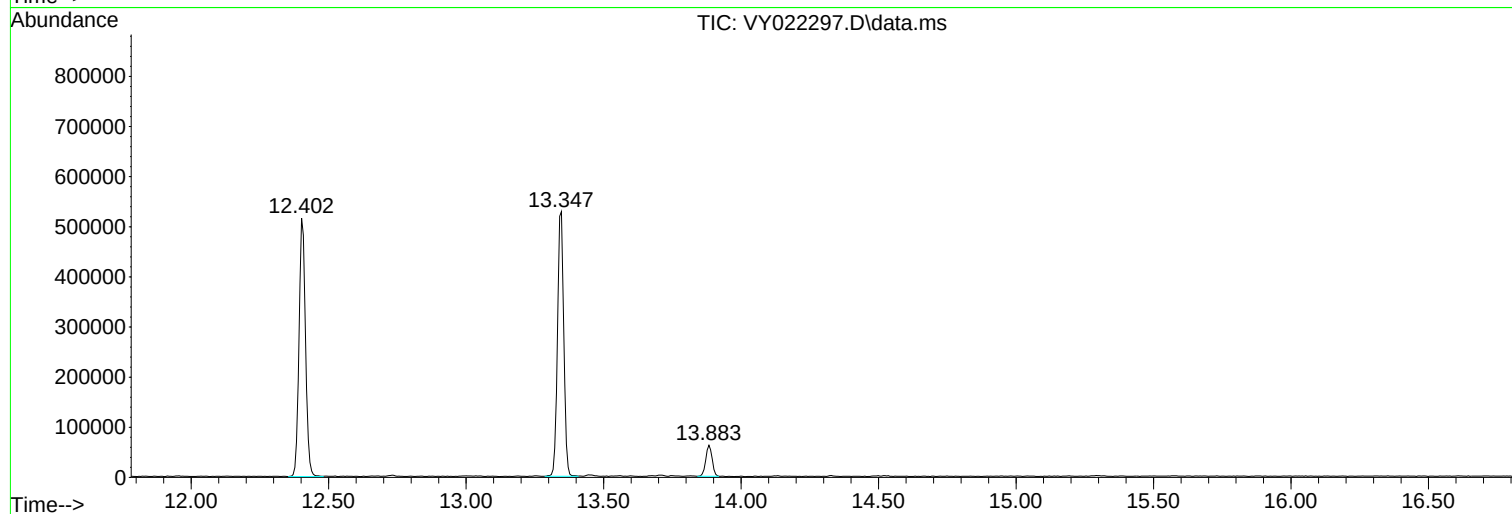
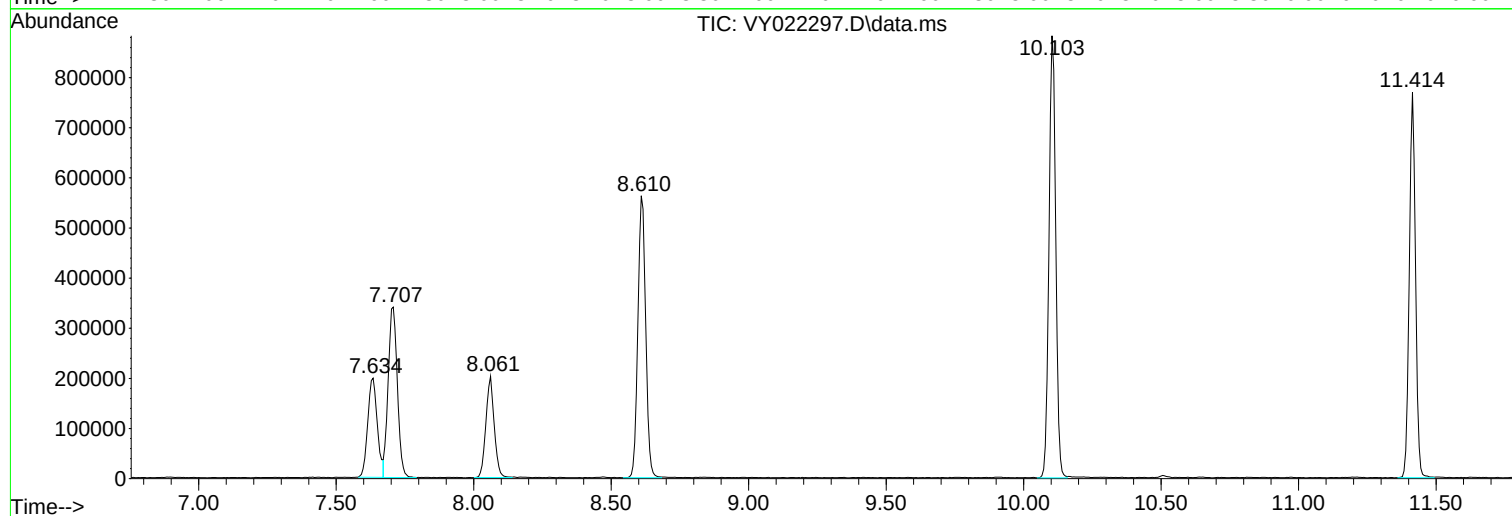
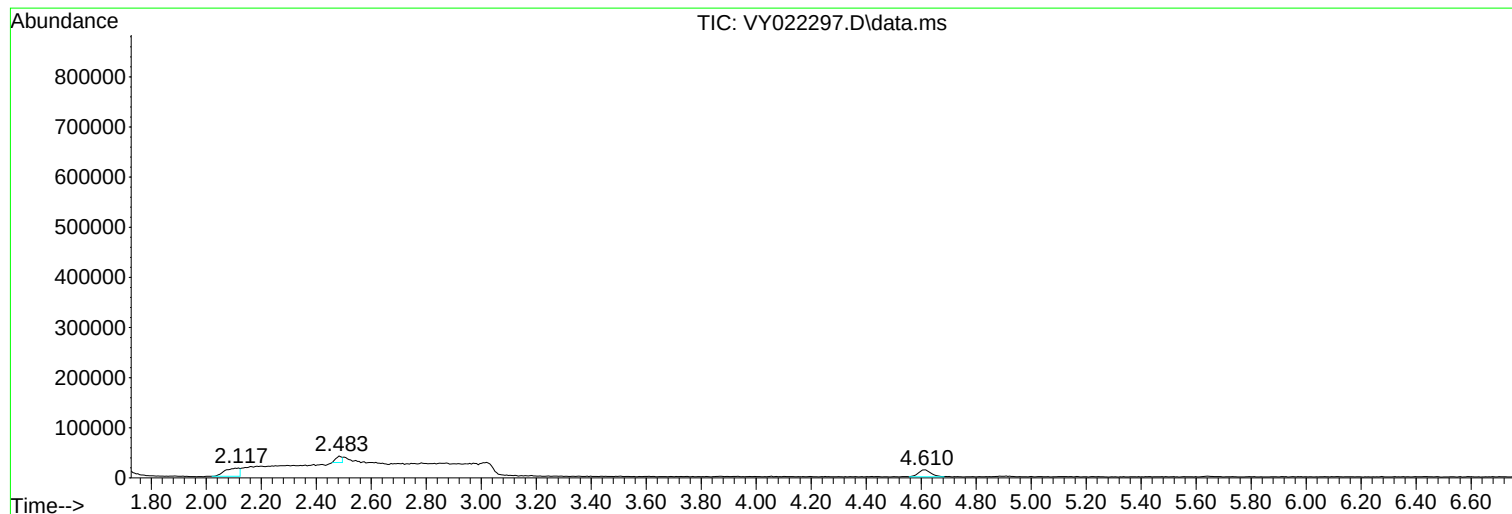
Sum of corrected areas: 7431485

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022297.D
Acq On : 16 May 2025 17:35
Operator : SY/MD
Sample : Q2032-08
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-32

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022297.D
Acq On : 16 May 2025 17:35
Operator : SY/MD
Sample : Q2032-08
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-32

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY051625\
Data File : VY022297.D
Acq On : 16 May 2025 17:35
Operator : SY/MD
Sample : Q2032-08
Misc : 6.28g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-32

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.8		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61900	5.55			
540-36-3	1,4-Difluorobenzene	121000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	46300	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046204.D	1		05/15/25 11:25	VX051525

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_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

Quant Time: May 16 01:02:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	61853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	121497	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	46318	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63210	54.816	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	109.640%
35) Dibromofluoromethane	5.379	113	46246	52.858	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.720%
50) Toluene-d8	8.647	98	153864	50.811	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.620%
62) 4-Bromofluorobenzene	11.079	95	57377	49.396	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.800%

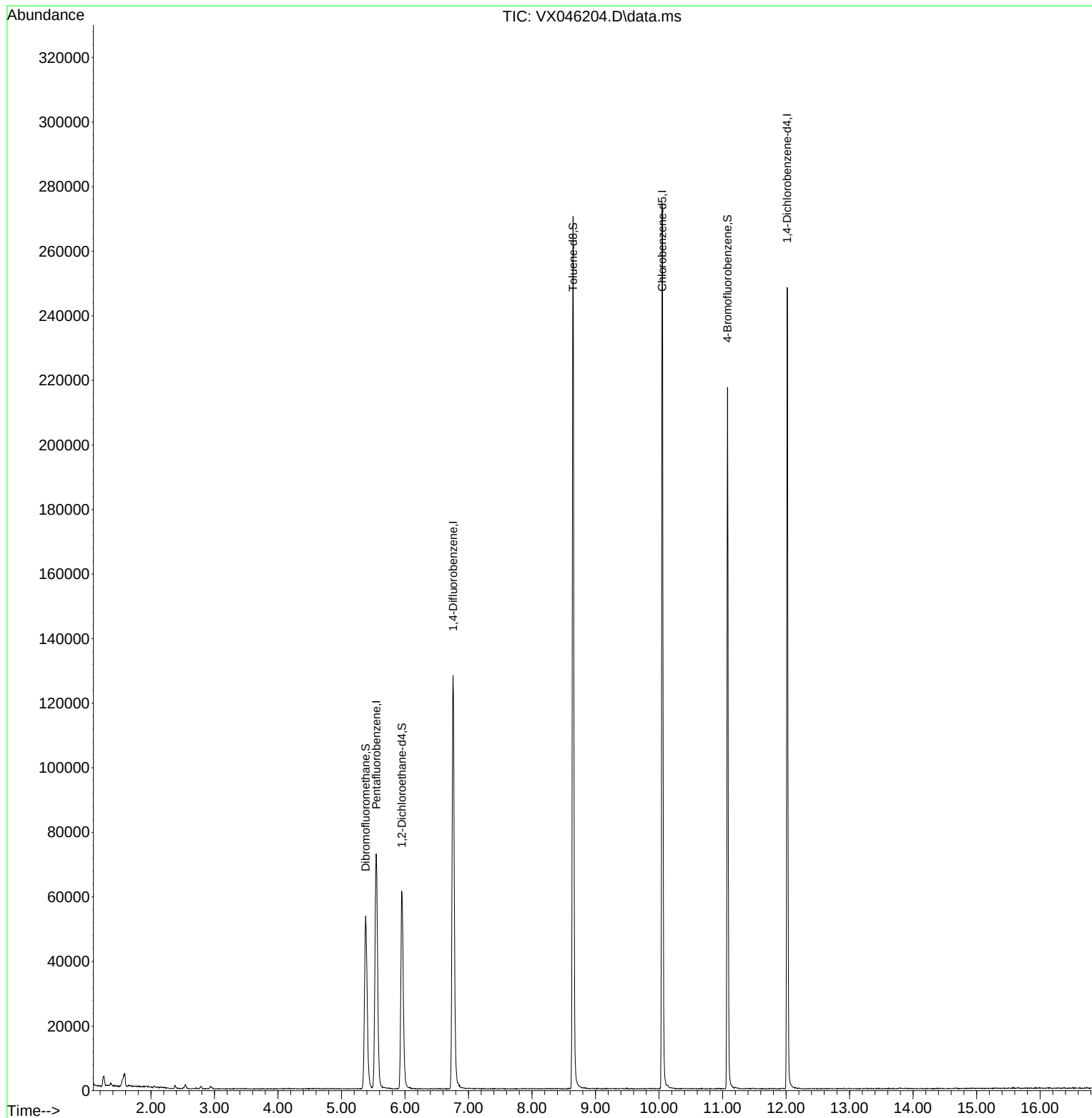
Target Compounds	Qvalue

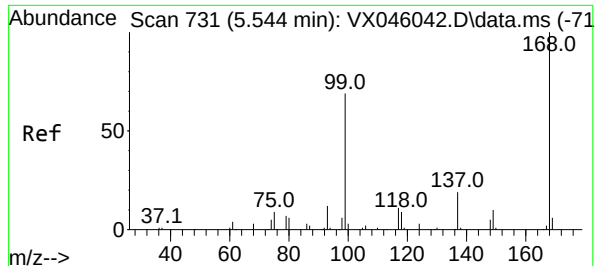
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

Quant Time: May 16 01:02:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

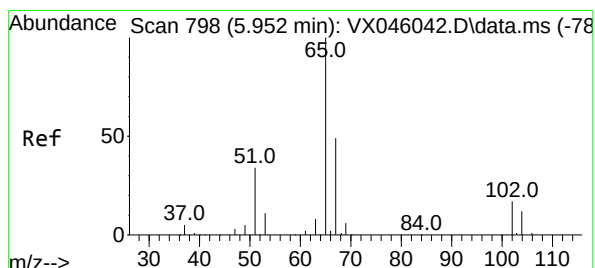
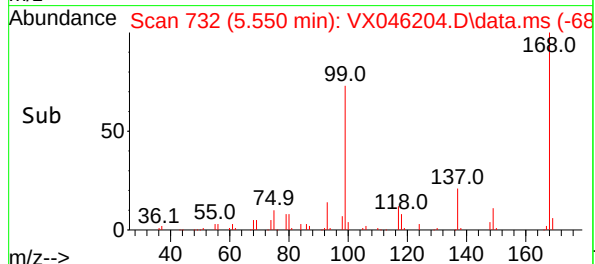
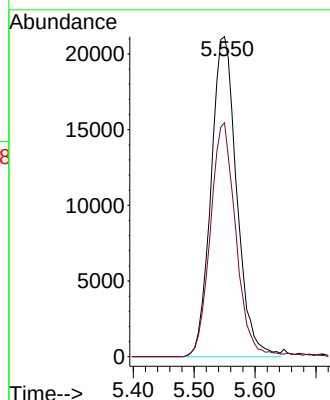
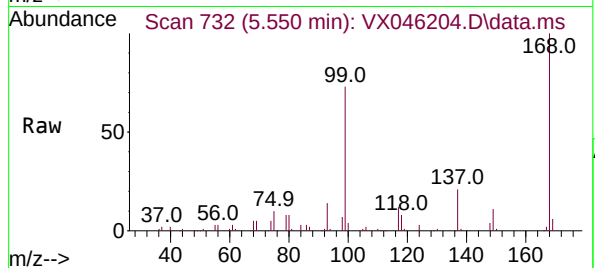




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046204.D
Acq: 15 May 2025 11:25

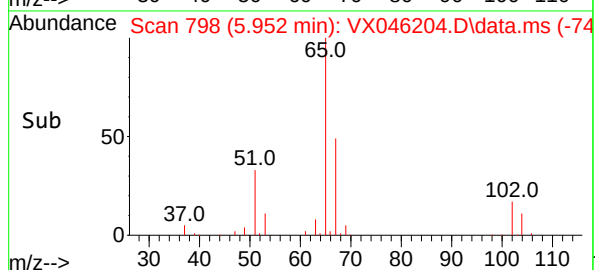
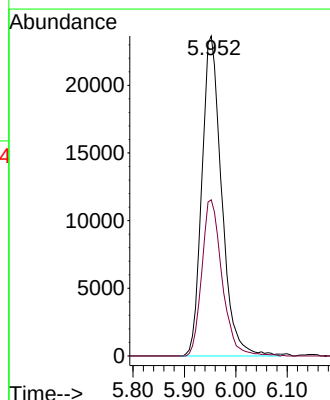
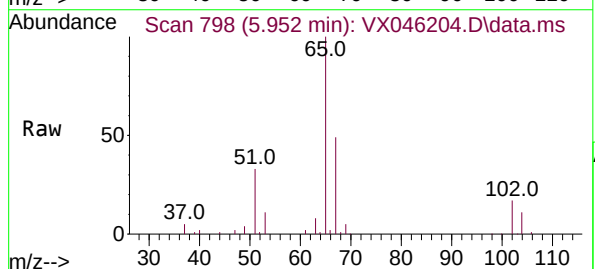
Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

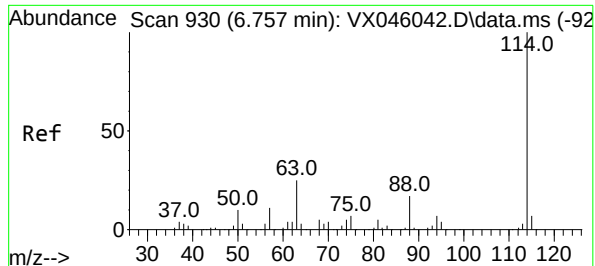
Tgt Ion:168 Resp: 61853
Ion Ratio Lower Upper
168 100
99 73.1 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 54.816 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046204.D
Acq: 15 May 2025 11:25

Tgt Ion: 65 Resp: 63210
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

FB-05132025

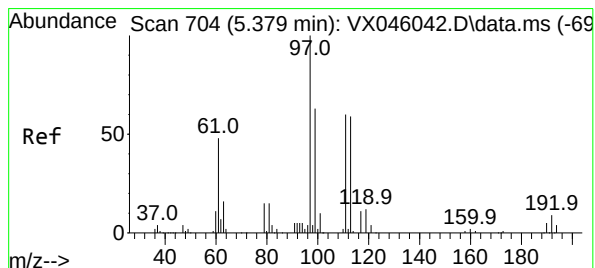
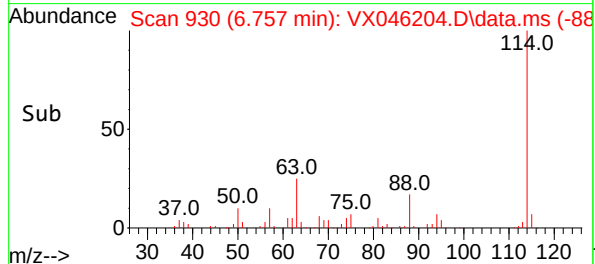
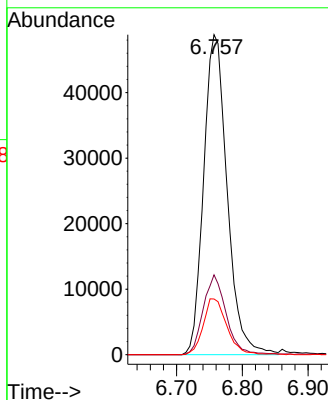
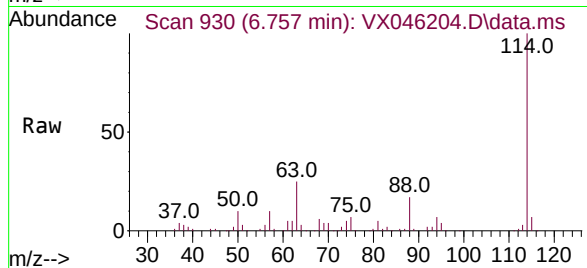
Tgt Ion:114 Resp: 121497

Ion Ratio Lower Upper

114 100

63 25.0 0.0 49.2

88 17.4 0.0 33.6



#35

Dibromofluoromethane

Concen: 52.858 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

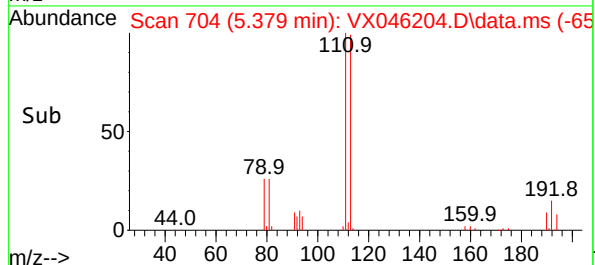
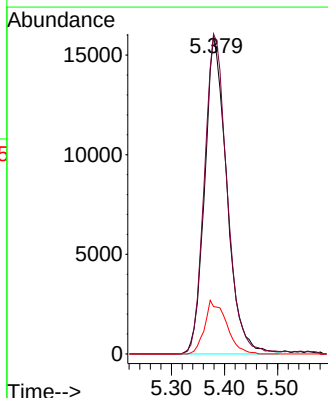
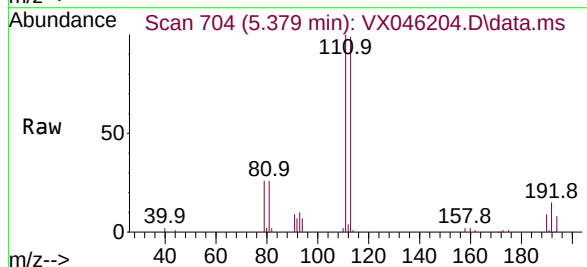
Tgt Ion:113 Resp: 46246

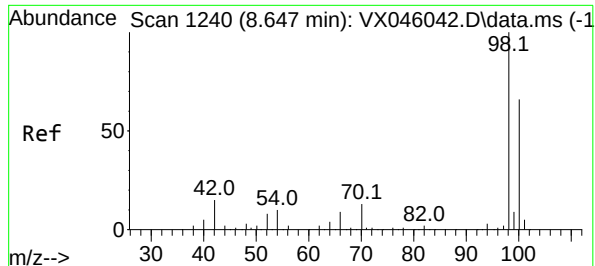
Ion Ratio Lower Upper

113 100

111 103.4 83.1 124.7

192 16.5 13.3 19.9





#50

Toluene-d8

Concen: 50.811 ug/l

RT: 8.647 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

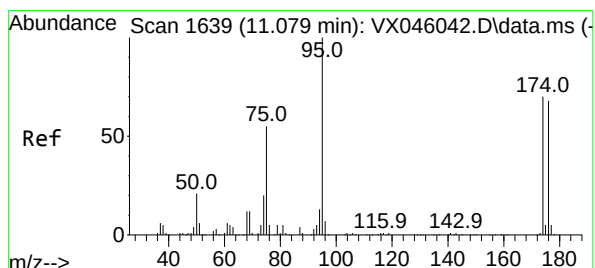
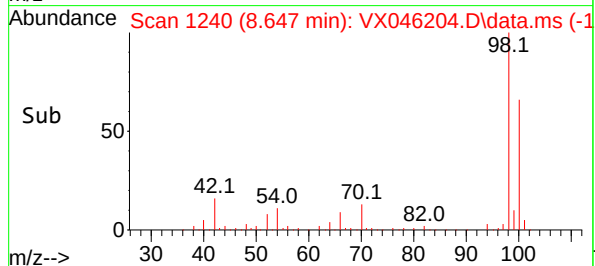
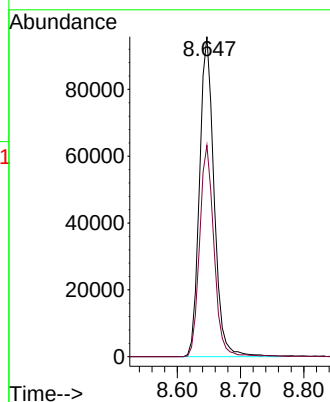
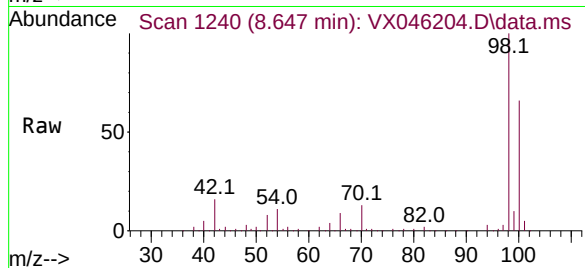
FB-05132025

Tgt Ion: 98 Resp: 153864

Ion Ratio Lower Upper

98 100

100 65.2 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 49.396 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

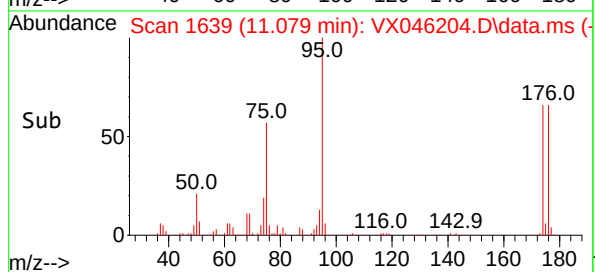
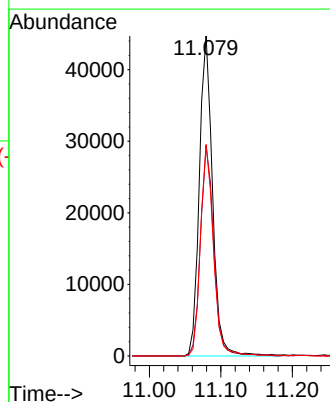
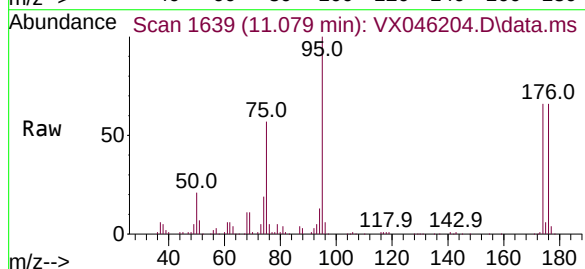
Tgt Ion: 95 Resp: 57377

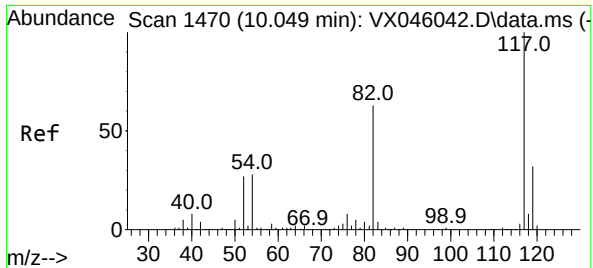
Ion Ratio Lower Upper

95 100

174 66.1 0.0 135.8

176 64.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

FB-05132025

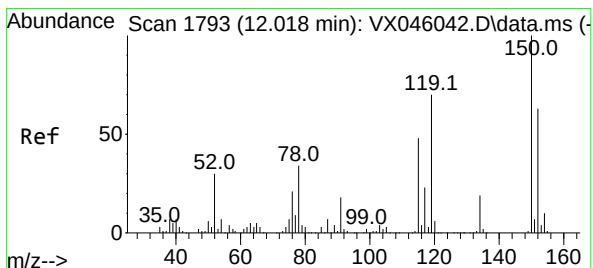
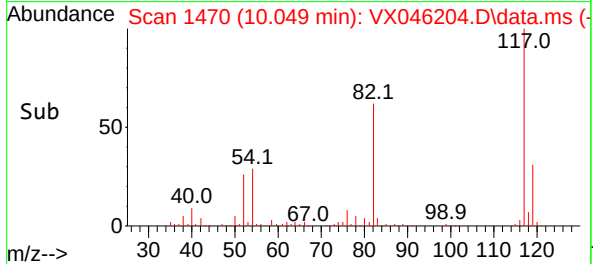
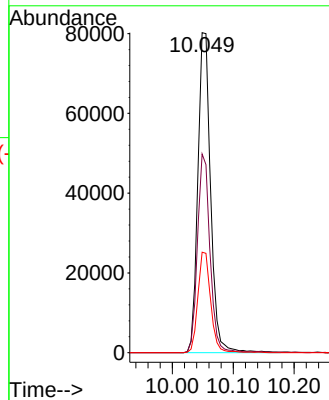
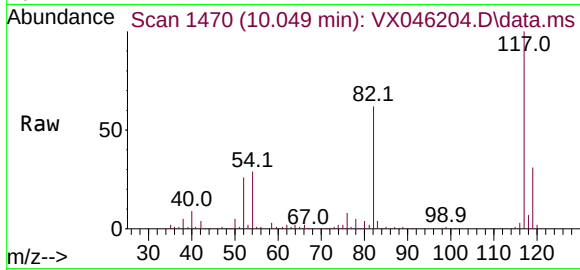
Tgt Ion:117 Resp: 116697

Ion Ratio Lower Upper

117 100

82 62.1 50.6 76.0

119 31.4 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046204.D

Acq: 15 May 2025 11:25

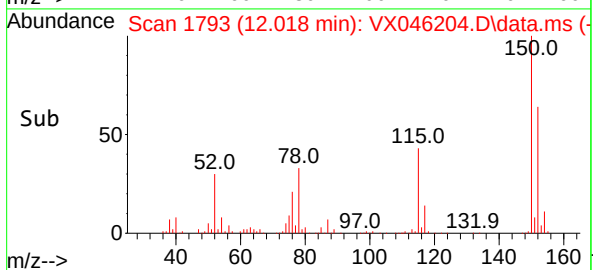
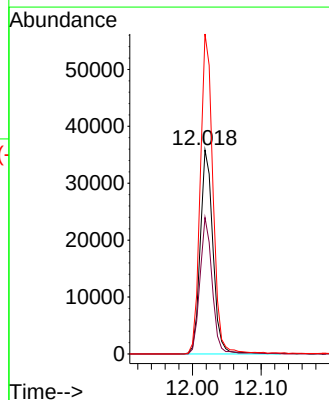
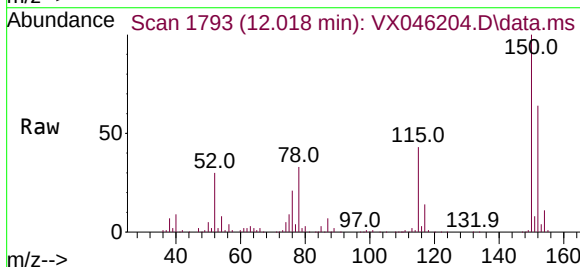
Tgt Ion:152 Resp: 46318

Ion Ratio Lower Upper

152 100

115 64.1 46.9 140.7

150 156.5 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

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_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046204.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	22	28	32	rBV5	3240	6357	1.47%	0.279%
2	1.587	68	82	88	rBV4	4217	12455	2.88%	0.547%
3	5.379	693	704	720	rBV2	53590	157512	36.42%	6.914%
4	5.544	720	731	747	rVV	72481	210102	48.58%	9.223%
5	5.946	788	797	815	rBV	61118	164768	38.10%	7.233%
6	6.757	921	930	942	rBV	128123	313490	72.49%	13.761%
7	8.647	1234	1240	1256	rBV	270212	432456	100.00%	18.984%
8	10.049	1465	1470	1483	rBV	274356	390397	90.27%	17.137%
9	11.079	1634	1639	1653	rBV	217275	279119	64.54%	12.253%
10	12.018	1788	1793	1802	rBV	248249	311397	72.01%	13.669%

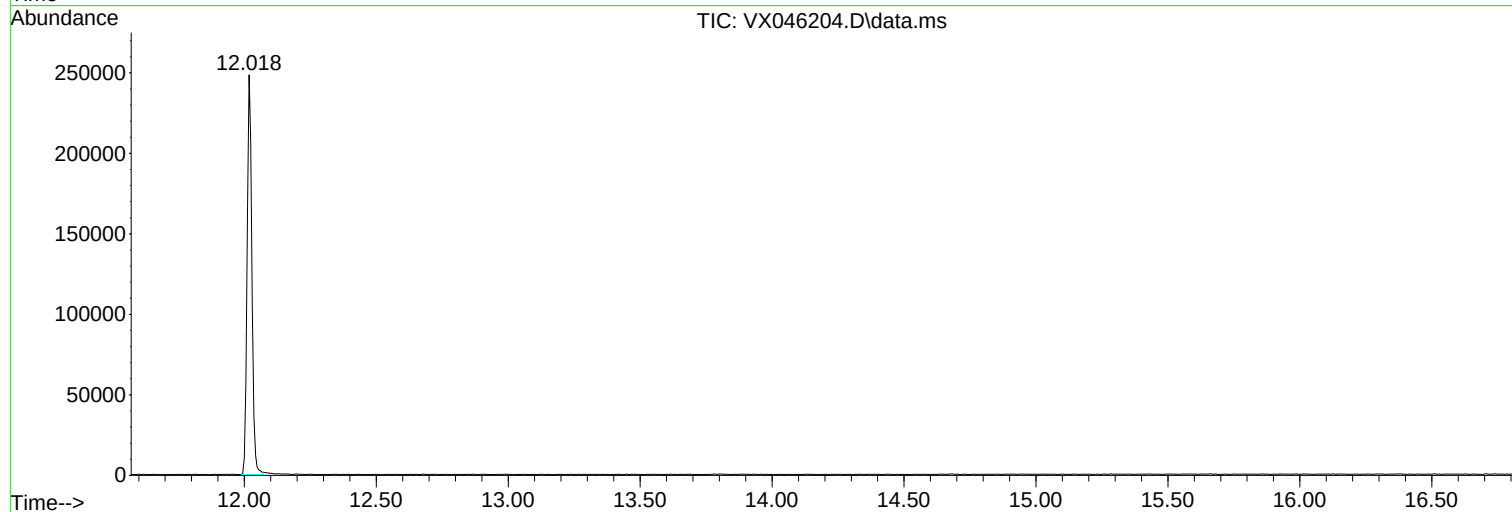
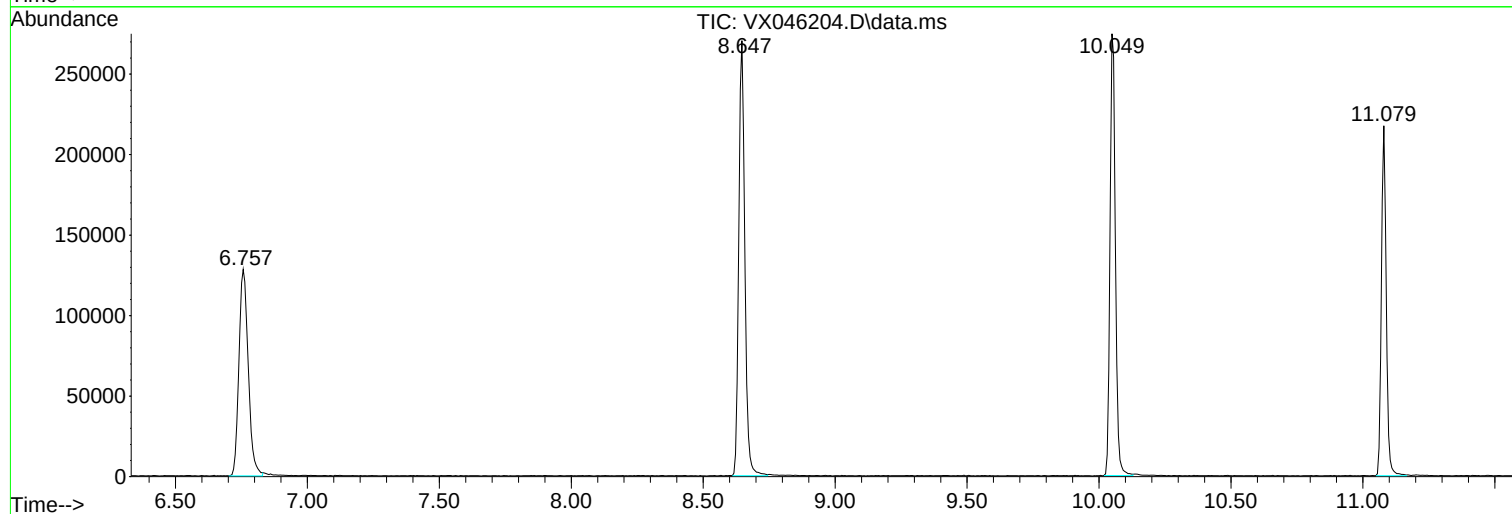
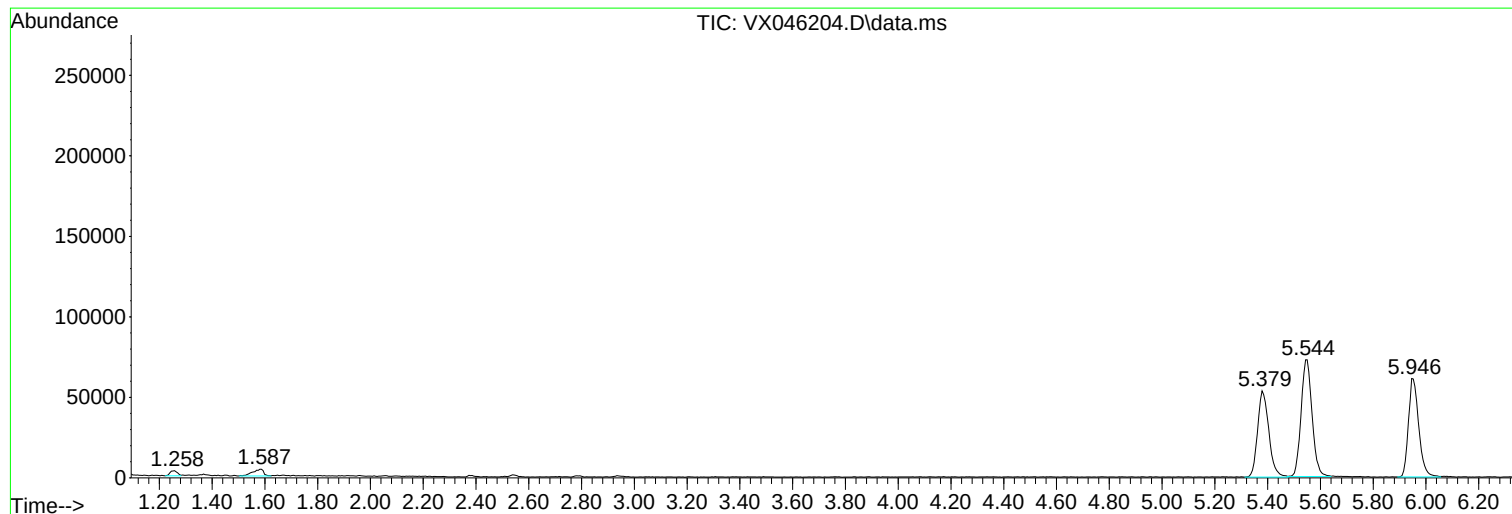
Sum of corrected areas: 2278053

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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_X\Data\VX051525\
Data File : VX046204.D
Acq On : 15 May 2025 11:25
Operator : JC/MD
Sample : Q2032-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-05132025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61800	5.55			
540-36-3	1,4-Difluorobenzene	124000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	46800	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TB	SDG No.:	Q2032
Lab Sample ID:	Q2032-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046205.D	1		05/15/25 11:48	VX051525

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_X\Data\VX051525\
 Data File : VX046205.D
 Acq On : 15 May 2025 11:48
 Operator : JC/MD
 Sample : Q2032-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: May 16 01:02:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	61806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	123845	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	117264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	46824	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63428	55.047	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.100%	
35) Dibromofluoromethane	5.385	113	46094	51.686	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.380%	
50) Toluene-d8	8.647	98	156433	50.680	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.360%	
62) 4-Bromofluorobenzene	11.079	95	58410	49.332	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.660%	

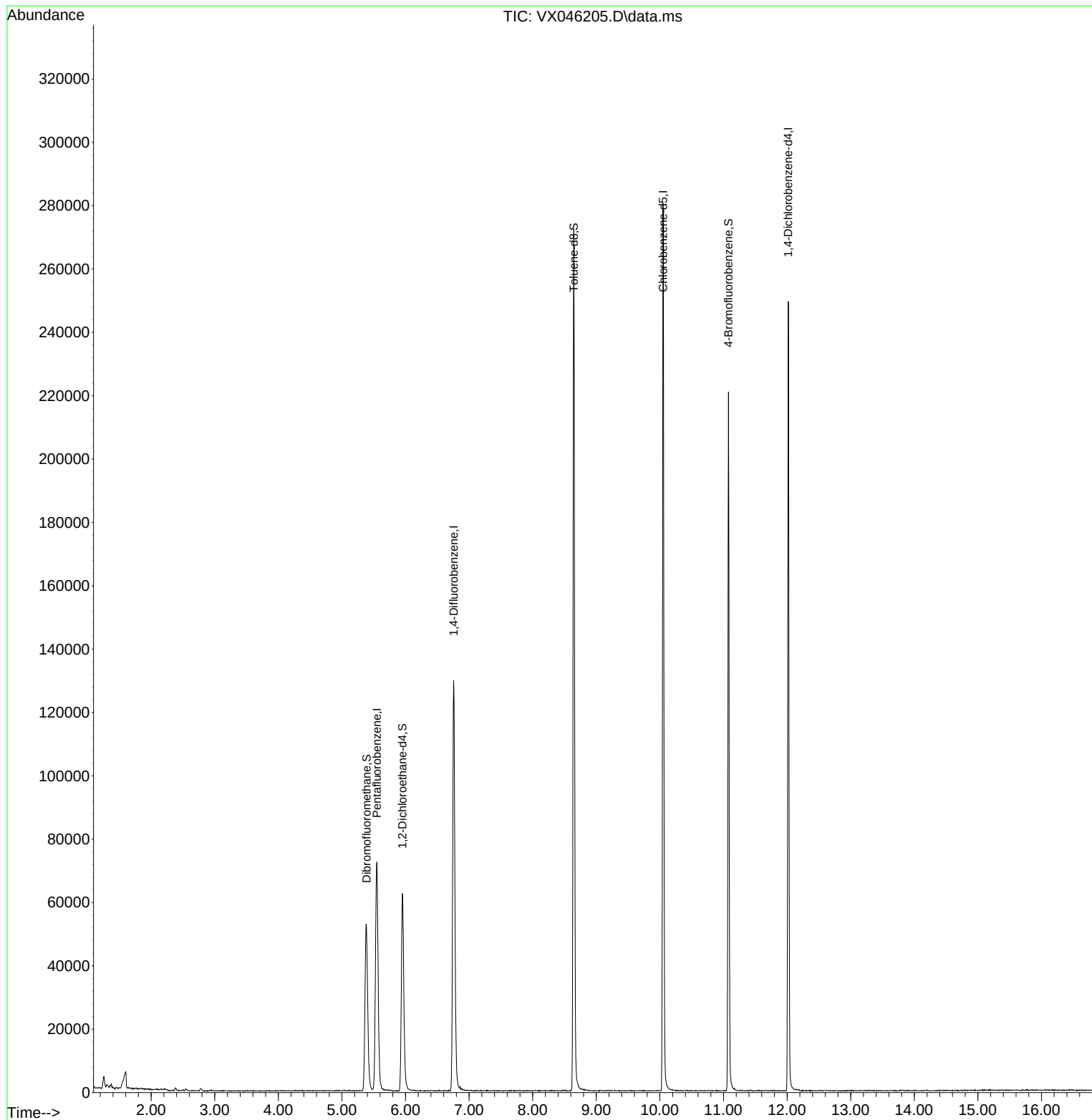
Target Compounds	Qvalue

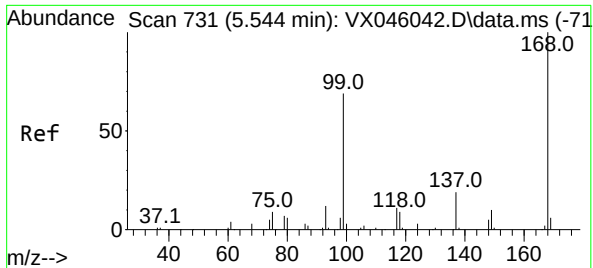
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046205.D
Acq On : 15 May 2025 11:48
Operator : JC/MD
Sample : Q2032-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: May 16 01:02:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

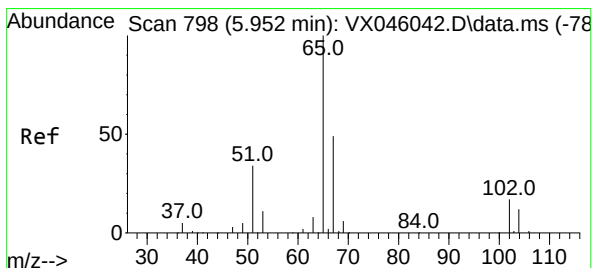
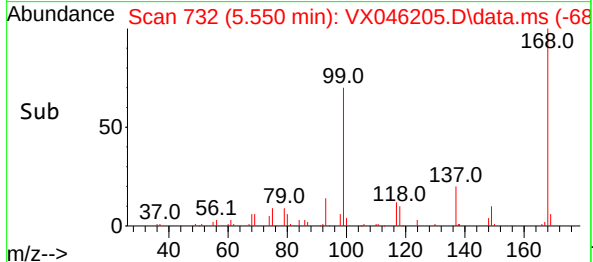
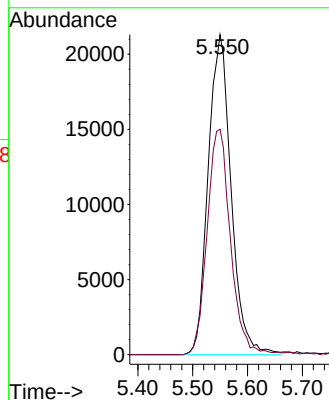
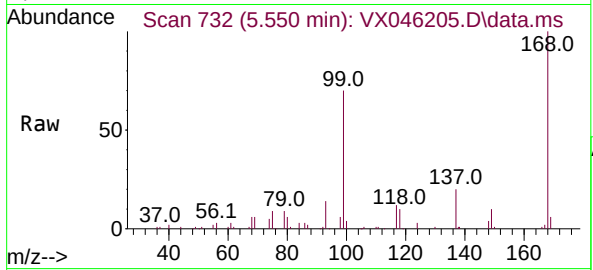




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046205.D
Acq: 15 May 2025 11:48

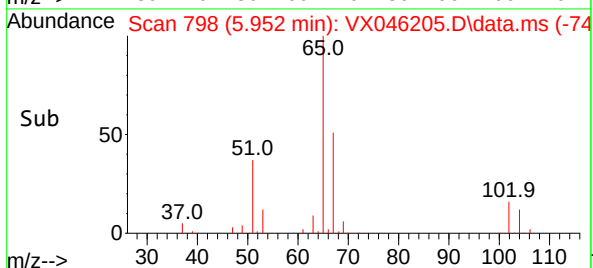
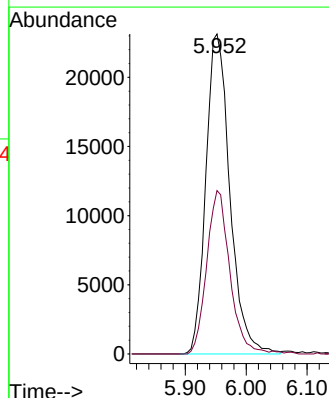
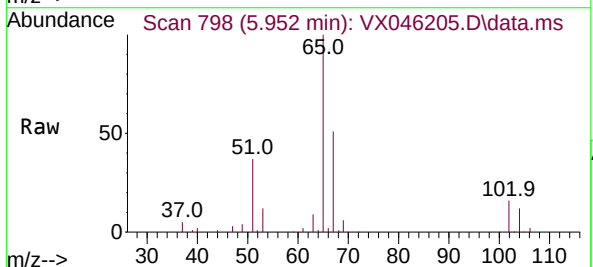
Instrument :
MSVOA_X
ClientSampleId :
TB

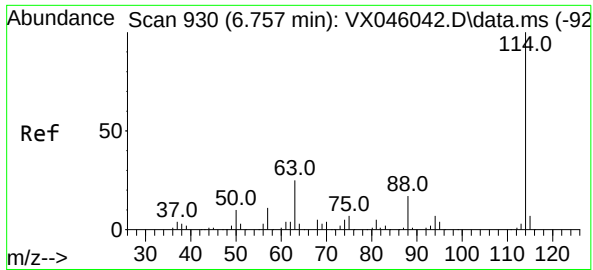
Tgt Ion:168 Resp: 61806
Ion Ratio Lower Upper
168 100
99 70.4 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 55.047 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046205.D
Acq: 15 May 2025 11:48

Tgt Ion: 65 Resp: 63428
Ion Ratio Lower Upper
65 100
67 49.0 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

Instrument :

MSVOA_X

ClientSampleId :

TB

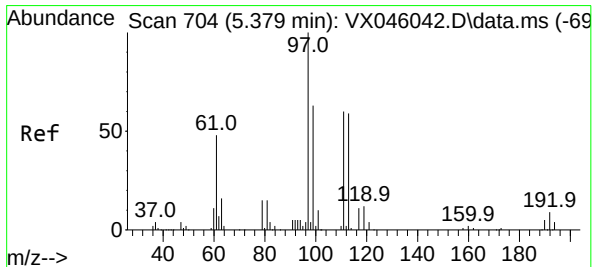
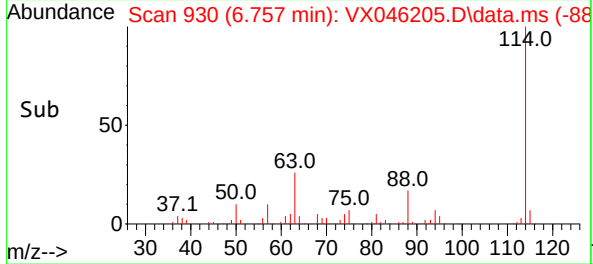
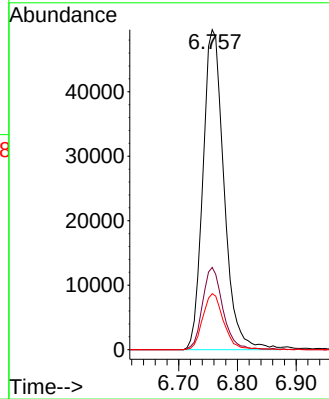
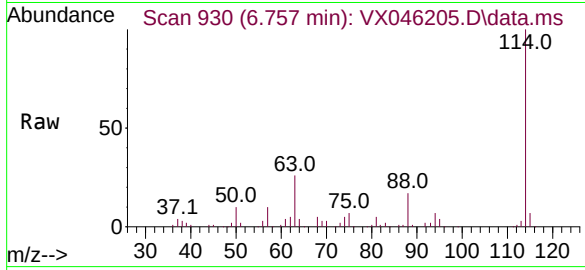
Tgt Ion:114 Resp: 123845

Ion Ratio Lower Upper

114 100

63 25.7 0.0 49.2

88 17.5 0.0 33.6



#35

Dibromofluoromethane

Concen: 51.686 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

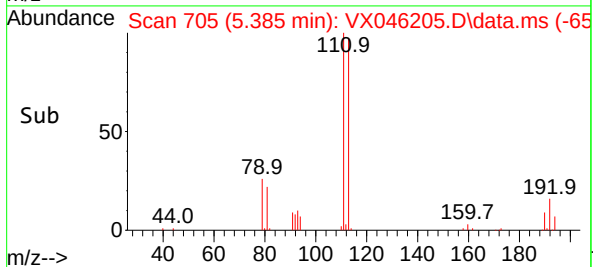
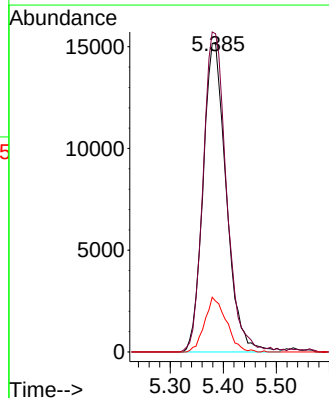
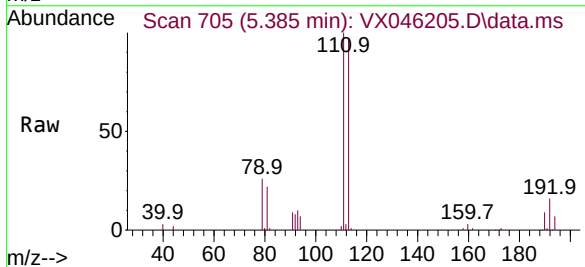
Tgt Ion:113 Resp: 46094

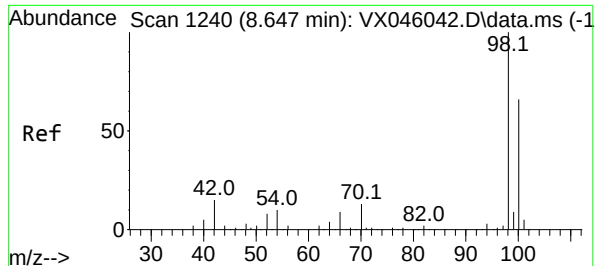
Ion Ratio Lower Upper

113 100

111 103.7 83.1 124.7

192 16.6 13.3 19.9





#50

Toluene-d8

Concen: 50.680 ug/l

RT: 8.647 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

Instrument :

MSVOA_X

ClientSampleId :

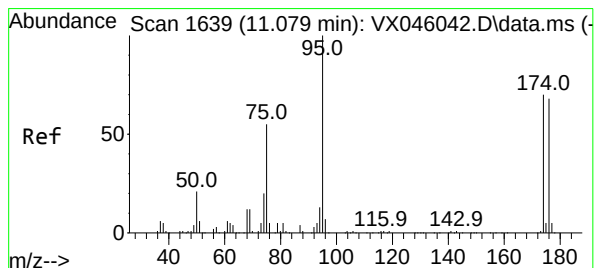
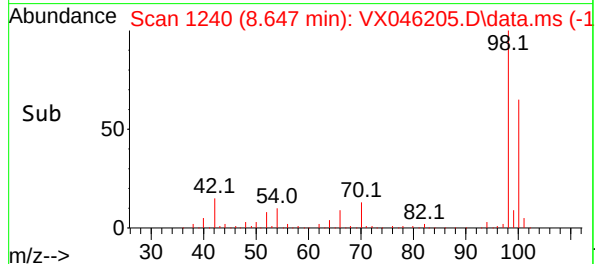
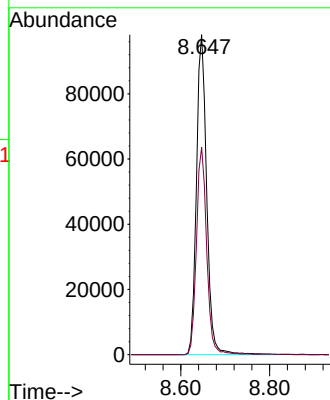
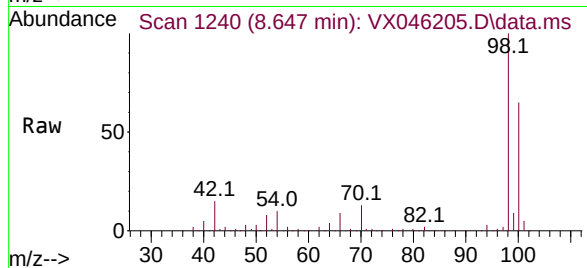
TB

Tgt Ion: 98 Resp: 156433

Ion Ratio Lower Upper

98 100

100 64.6 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 49.332 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

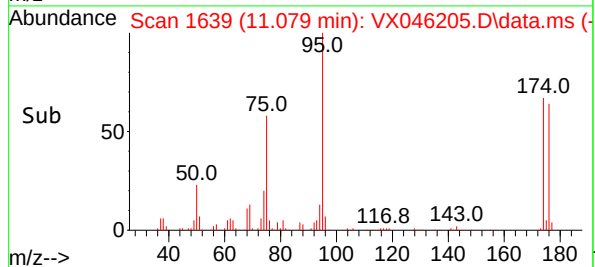
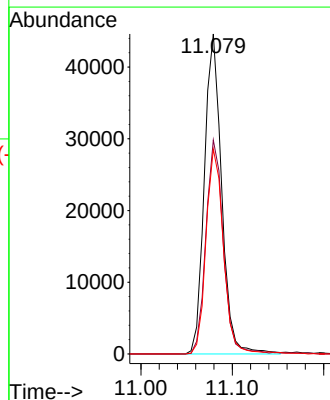
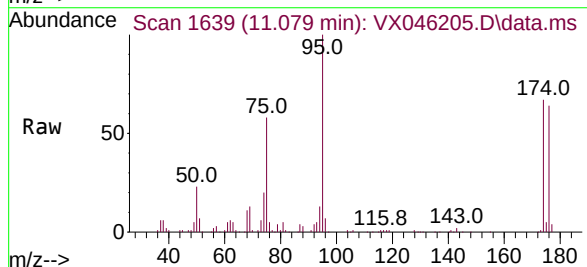
Tgt Ion: 95 Resp: 58410

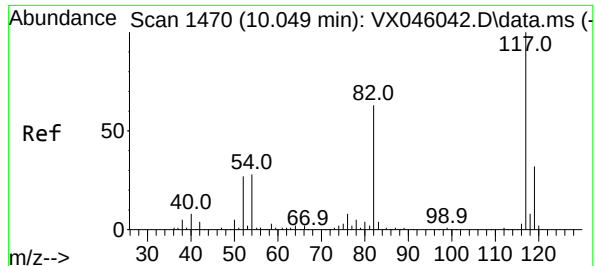
Ion Ratio Lower Upper

95 100

174 67.8 0.0 135.8

176 64.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

Instrument :

MSVOA_X

ClientSampleId :

TB

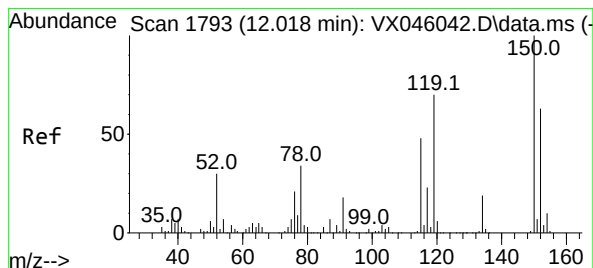
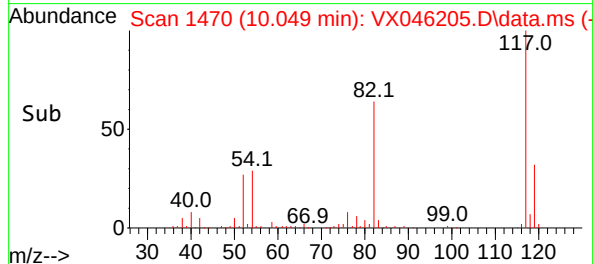
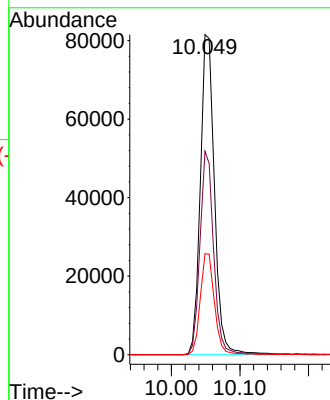
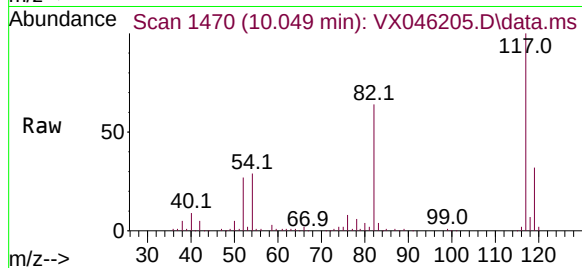
Tgt Ion:117 Resp: 117264

Ion Ratio Lower Upper

117 100

82 63.6 50.6 76.0

119 31.6 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046205.D

Acq: 15 May 2025 11:48

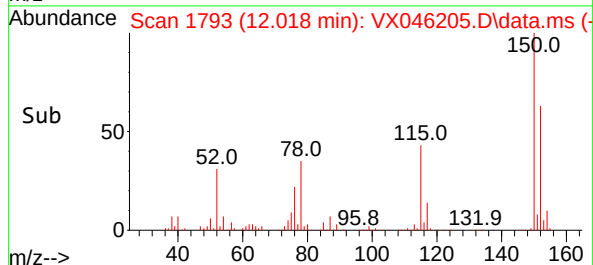
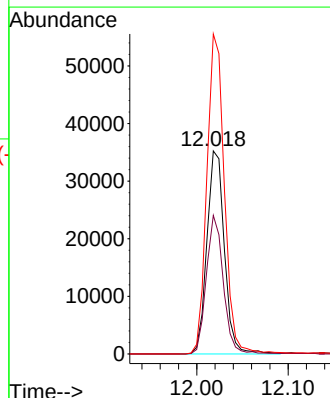
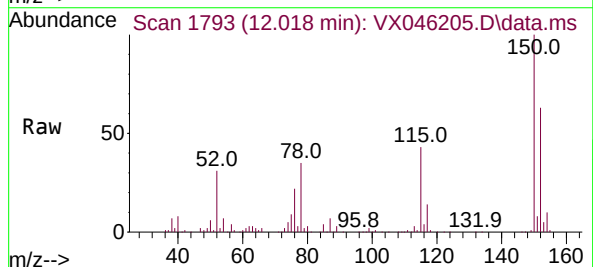
Tgt Ion:152 Resp: 46824

Ion Ratio Lower Upper

152 100

115 66.0 46.9 140.7

150 157.3 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046205.D
Acq On : 15 May 2025 11:48
Operator : JC/MD
Sample : Q2032-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

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_X\Method\82X050525W.M

Title : SW846 8260

Signal : TIC: VX046205.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	22	28	33	rBV3	3751	7113	1.63%	0.309%
2	1.599	71	84	88	rVB3	5126	14895	3.42%	0.646%
3	5.379	695	704	720	rBV	52654	155658	35.74%	6.753%
4	5.550	722	732	745	rVV	71633	204478	46.95%	8.871%
5	5.952	789	798	817	rBV2	62359	166615	38.25%	7.228%
6	6.757	922	930	946	rBV	129498	314873	72.29%	13.660%
7	8.647	1234	1240	1258	rBV	272052	435555	100.00%	18.896%
8	10.049	1465	1470	1493	rBV	280270	397421	91.24%	17.241%
9	11.079	1634	1639	1653	rBV	220580	286855	65.86%	12.445%
10	12.018	1788	1793	1810	rBV	249230	321564	73.83%	13.951%

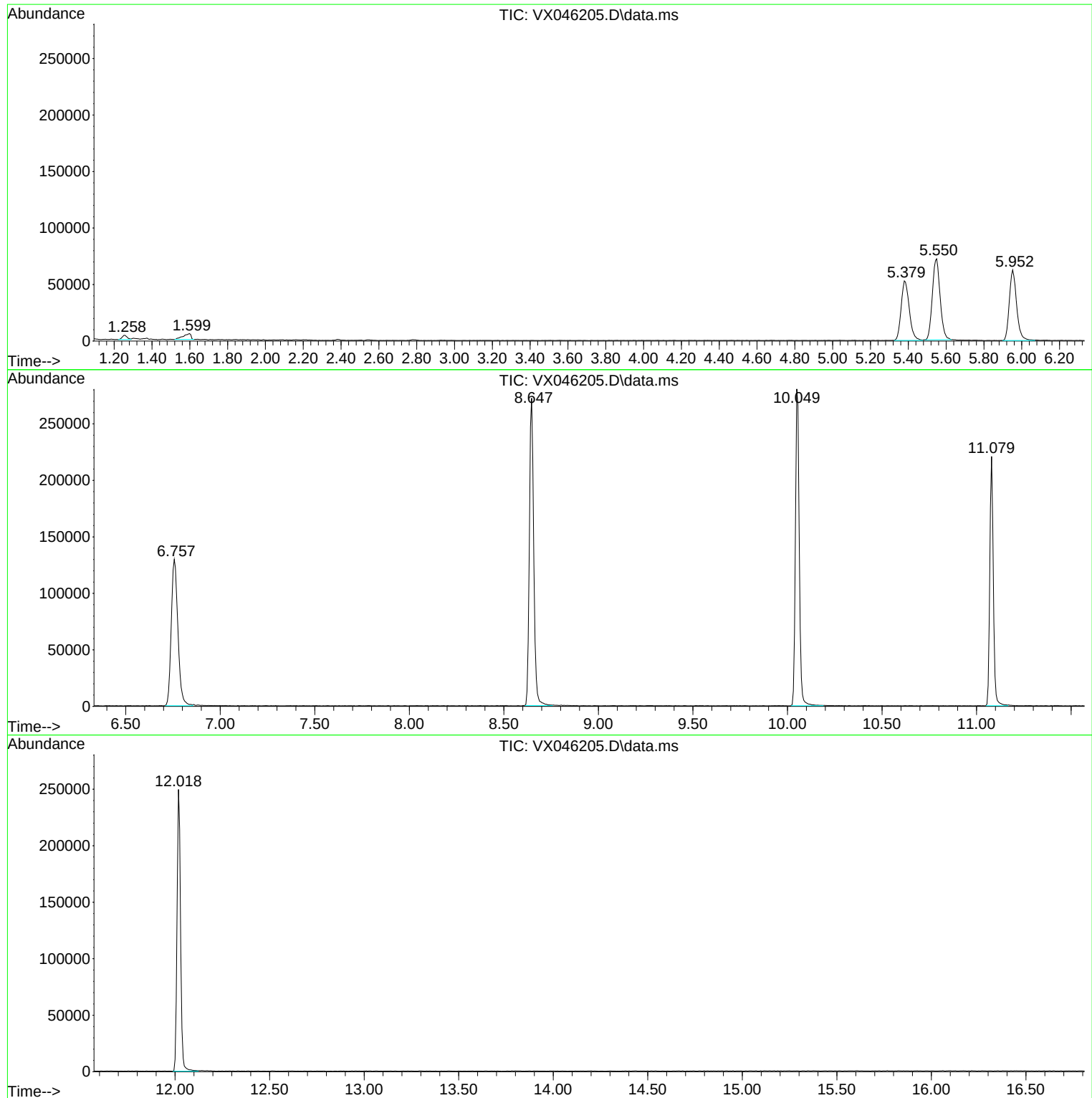
Sum of corrected areas: 2305027

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046205.D
Acq On : 15 May 2025 11:48
Operator : JC/MD
Sample : Q2032-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046205.D
Acq On : 15 May 2025 11:48
Operator : JC/MD
Sample : Q2032-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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_X\Data\VX051525\
Data File : VX046205.D
Acq On : 15 May 2025 11:48
Operator : JC/MD
Sample : Q2032-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_N Calibration Date(s): 05/16/2025 05/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 16:31 18:32
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086669.D			RRF005 = VN086670.D		RRF010 = VN086671.D		
	RRF020 = VN086672.D			RRF050 = VN086673.D		RRF100 = VN086674.D		
COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	RRF	% RSD
Dichlorodifluoromethane	0.408	0.476	0.639	0.477	0.599	0.641	0.540	18.4
Chloromethane	0.859	0.798	0.850	0.762	0.782	0.850	0.817	5
Vinyl Chloride	0.655	0.708	0.780	0.713	0.753	0.792	0.733	7
Bromomethane		0.442	0.441	0.415	0.403	0.413	0.423	4.1
Chloroethane	0.445	0.489	0.509	0.483	0.466	0.491	0.480	4.6
Trichlorofluoromethane	0.777	0.887	0.892	0.899	0.880	0.925	0.877	5.9
1,1,2-Trichlorotrifluoroethane	0.449	0.535	0.544	0.544	0.528	0.549	0.525	7.3
1,1-Dichloroethene	0.531	0.563	0.563	0.557	0.548	0.583	0.558	3.1
Acetone	0.286	0.252	0.259	0.257	0.243	0.254	0.258	5.7
Carbon Disulfide	1.452	1.491	1.544	1.563	1.543	1.673	1.544	4.9
Methyl tert-butyl Ether	1.739	1.876	1.913	1.972	1.913	1.982	1.899	4.6
Methyl Acetate	0.925	0.709	0.682	0.677	0.663	0.685	0.723	13.8
Methylene Chloride	0.746	0.683	0.670	0.679	0.631	0.684	0.682	5.4
trans-1,2-Dichloroethene	0.550	0.601	0.587	0.609	0.577	0.613	0.590	4
1,1-Dichloroethane	1.049	1.127	1.126	1.146	1.104	1.156	1.118	3.4
Cyclohexane		1.105	1.060	1.023	0.983	1.013	1.037	4.5
2-Butanone	0.361	0.404	0.398	0.414	0.402	0.418	0.399	5.1
Carbon Tetrachloride	0.384	0.438	0.430	0.460	0.430	0.454	0.433	6.2
cis-1,2-Dichloroethene	0.681	0.721	0.721	0.754	0.712	0.754	0.724	3.8
Bromochloromethane	0.489	0.526	0.519	0.506	0.508	0.501	0.508	2.6
Chloroform	1.061	1.146	1.109	1.173	1.093	1.133	1.119	3.5
1,1,1-Trichloroethane	0.874	0.936	0.949	0.986	0.945	0.971	0.944	4.1
Methylcyclohexane	0.436	0.460	0.466	0.496	0.482	0.513	0.475	5.8
Benzene	1.348	1.429	1.447	1.484	1.402	1.487	1.433	3.7
1,2-Dichloroethane	0.413	0.457	0.451	0.467	0.438	0.452	0.446	4.2
Trichloroethene	0.306	0.341	0.358	0.361	0.343	0.365	0.346	6.3
1,2-Dichloropropane	0.311	0.337	0.343	0.363	0.336	0.352	0.340	5.2
Bromodichloromethane	0.437	0.468	0.469	0.496	0.471	0.497	0.473	4.7
4-Methyl-2-Pentanone	0.396	0.448	0.452	0.478	0.451	0.467	0.449	6.3
Toluene	0.765	0.898	0.891	0.956	0.887	0.947	0.891	7.7

* 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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_N Calibration Date(s): 05/16/2025 05/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 16:31 18:32
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086669.D		RRF005 = VN086670.D		RRF010 = VN086671.D			
		RRF020 = VN086672.D		RRF050 = VN086673.D		RRF100 = VN086674.D			
COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	RRF	% RSD	
t-1,3-Dichloropropene	0.433	0.483	0.489	0.533	0.514	0.554	0.501	8.5	
cis-1,3-Dichloropropene	0.485	0.537	0.552	0.576	0.546	0.586	0.547	6.5	
1,1,2-Trichloroethane	0.324	0.338	0.327	0.346	0.321	0.338	0.332	2.9	
2-Hexanone	0.282	0.317	0.331	0.357	0.333	0.346	0.328	8.1	
Dibromochloromethane	0.302	0.334	0.347	0.374	0.349	0.384	0.348	8.4	
1,2-Dibromoethane	0.289	0.332	0.340	0.353	0.334	0.354	0.334	7.2	
Tetrachloroethene	0.357	0.396	0.392	0.392	0.369	0.392	0.383	4.2	
Chlorobenzene	1.030	1.112	1.109	1.138	1.060	1.130	1.096	3.9	
Ethyl Benzene	1.715	1.837	1.869	1.972	1.865	2.009	1.878	5.6	
m/p-Xylenes	0.592	0.704	0.718	0.762	0.717	0.774	0.711	9.1	
o-Xylene	0.604	0.697	0.703	0.759	0.721	0.759	0.707	8.1	
Styrene	0.951	1.119	1.128	1.259	1.200	1.288	1.158	10.5	
Bromoform	0.214	0.243	0.247	0.265	0.261	0.281	0.252	9.2	
Isopropylbenzene	3.739	3.814	3.903	4.151	3.541	4.022	3.862	5.6	
1,1,2,2-Tetrachloroethane	1.142	1.252	1.255	1.260	1.054	1.156	1.186	7	
1,3-Dichlorobenzene	1.619	1.715	1.707	1.734	1.602	1.715	1.682	3.4	
1,4-Dichlorobenzene	1.587	1.673	1.695	1.751	1.583	1.711	1.667	4.1	
1,2-Dichlorobenzene	1.574	1.585	1.636	1.655	1.550	1.600	1.600	2.5	
1,2-Dibromo-3-Chloropropane	0.164	0.205	0.194	0.200	0.201	0.215	0.197	8.9	
1,2,4-Trichlorobenzene	0.577	0.629	0.658	0.720	0.686	0.782	0.675	10.6	
1,2,3-Trichlorobenzene	0.626	0.612	0.664	0.674	0.653	0.739	0.661	6.8	
1,2-Dichloroethane-d4		0.718	0.658	0.687	0.693	0.698	0.691	3.2	
Dibromofluoromethane		0.300	0.289	0.291	0.298	0.311	0.298	3	
Toluene-d8		1.203	1.159	1.233	1.250	1.325	1.234	5	
4-Bromofluorobenzene		0.412	0.403	0.433	0.450	0.481	0.436	7.2	

* 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_N\methods\
 Method File : 82N051625W.M
 Title : SW846 8260
 Last Update : Sat May 17 00:46:13 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086669.D 5 =VN086670.D 10 =VN086671.D 20 =VN086672.D 50 =VN086673.D 100 =VN086674.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.408	0.476	0.639	0.477	0.599	0.641	0.540	18.37
3) P	Chloromethane	0.859	0.798	0.850	0.762	0.782	0.850	0.817	5.05
4) C	Vinyl Chloride	0.655	0.708	0.780	0.713	0.753	0.792	0.733	7.00#
5) T	Bromomethane		0.442	0.441	0.415	0.403	0.413	0.423	4.14
6) T	Chloroethane	0.445	0.489	0.509	0.483	0.466	0.491	0.480	4.64
7) T	Trichlorofluor...	0.777	0.887	0.892	0.899	0.880	0.925	0.877	5.85
8) T	Diethyl Ether	0.325	0.367	0.364	0.374	0.360	0.382	0.362	5.43
9) T	1,1,2-Trichlor...	0.449	0.535	0.544	0.544	0.528	0.549	0.525	7.25
10) T	Methyl Iodide		0.595	0.657	0.656	0.651	0.706	0.653	6.03
11) T	Tert butyl alc...		0.126	0.130	0.125	0.122	0.126	0.126	2.32
12) CM	1,1-Dichloroet...	0.531	0.563	0.563	0.557	0.548	0.583	0.558	3.11#
13) T	Acrolein		0.144	0.133	0.123	0.134	0.139	0.135	5.90
14) T	Allyl chloride	0.786	0.805	0.910	0.864	0.824	0.875	0.844	5.55
15) T	Acrylonitrile	0.265	0.310	0.319	0.334	0.311	0.330	0.312	8.00
16) T	Acetone	0.286	0.252	0.259	0.257	0.243	0.254	0.258	5.71
17) T	Carbon Disulfide	1.452	1.490	1.544	1.563	1.543	1.673	1.544	4.87
18) T	Methyl Acetate	0.925	0.709	0.682	0.677	0.663	0.685	0.723	13.78
19) T	Methyl tert-bu...	1.739	1.876	1.913	1.972	1.913	1.982	1.899	4.64
20) T	Methylene Chlo...	0.746	0.683	0.670	0.679	0.631	0.684	0.682	5.44
21) T	trans-1,2-Dich...	0.550	0.601	0.587	0.609	0.577	0.613	0.590	3.99
22) T	Diisopropyl ether	1.668	1.927	1.927	2.007	1.922	1.976	1.904	6.35
23) T	Vinyl Acetate	1.169	1.372	1.433	1.658	1.458	1.498	1.431	11.22
24) P	1,1-Dichloroet...	1.049	1.127	1.126	1.146	1.104	1.156	1.118	3.44
25) T	2-Butanone	0.361	0.404	0.398	0.414	0.402	0.418	0.399	5.07
26) T	2,2-Dichloropr...	0.917	0.926	0.931	0.949	0.891	0.922	0.923	2.07
27) T	cis-1,2-Dichlo...	0.681	0.721	0.721	0.754	0.712	0.754	0.724	3.80
28) T	Bromochloromet...	0.489	0.526	0.519	0.506	0.508	0.501	0.508	2.58
29) T	Tetrahydrofuran	0.226	0.257	0.262	0.280	0.265	0.274	0.261	7.16
30) C	Chloroform	1.061	1.146	1.109	1.173	1.093	1.133	1.119	3.54#
31) T	Cyclohexane		1.105	1.060	1.023	0.983	1.013	1.037	4.54
32) T	1,1,1-Trichlor...	0.874	0.936	0.949	0.986	0.945	0.971	0.944	4.09
33) S	1,2-Dichloroet...		0.718	0.658	0.687	0.693	0.698	0.691	3.16
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.300	0.289	0.291	0.298	0.311	0.298	2.97
36) T	1,1-Dichloropr...	0.405	0.437	0.442	0.450	0.435	0.465	0.439	4.50
37) T	Ethyl Acetate	0.425	0.456	0.441	0.456	0.436	0.448	0.444	2.77
38) T	Carbon Tetrach...	0.384	0.438	0.430	0.460	0.430	0.454	0.433	6.19
39) T	Methylcyclohexane	0.436	0.460	0.466	0.496	0.482	0.513	0.475	5.78
40) TM	Benzene	1.348	1.429	1.447	1.484	1.402	1.487	1.433	3.68
41) T	Methacrylonitrile	0.216	0.242	0.246	0.248	0.240	0.246	0.240	4.96
42) TM	1,2-Dichloroet...	0.413	0.457	0.451	0.467	0.438	0.452	0.446	4.22
43) T	Isopropyl Acetate	1.138	0.956	0.840	0.852	0.771	0.780	0.889	15.59
44) TM	Trichloroethene	0.306	0.341	0.358	0.361	0.343	0.365	0.346	6.33
45) C	1,2-Dichloropr...	0.311	0.337	0.343	0.363	0.336	0.352	0.340	5.19#
46) T	Dibromomethane	0.204	0.226	0.238	0.245	0.228	0.238	0.230	6.38
47) T	Bromodichlorom...	0.437	0.468	0.469	0.496	0.471	0.497	0.473	4.65
48) T	Methyl methacr...	0.305	0.338	0.338	0.369	0.351	0.366	0.345	6.74
49) T	1,4-Dioxane	0.007	0.007	0.008	0.007	0.007	0.007	0.007	5.24
50) S	Toluene-d8		1.203	1.159	1.233	1.250	1.325	1.234	4.98
51) T	4-Methyl-2-Pen...	0.396	0.448	0.452	0.478	0.451	0.467	0.449	6.25
52) CM	Toluene	0.765	0.898	0.891	0.956	0.887	0.947	0.891	7.68#
53) T	t-1,3-Dichloro...	0.433	0.483	0.489	0.533	0.514	0.554	0.501	8.54
54) T	cis-1,3-Dichlo...	0.485	0.537	0.552	0.576	0.546	0.586	0.547	6.48
55) T	1,1,2-Trichlor...	0.324	0.338	0.327	0.346	0.321	0.338	0.332	2.90
56) T	Ethyl methacry...	0.440	0.505	0.526	0.575	0.557	0.597	0.533	10.57

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N051625W.M

57)	T	1,3-Dichloropr...	0.512	0.587	0.571	0.608	0.562	0.594	0.572	5.91
58)	T	2-Chloroethyl ...	0.177	0.229	0.241	0.250	0.259	0.275	0.238	14.17
59)	T	2-Hexanone	0.282	0.317	0.331	0.357	0.333	0.346	0.328	8.06
60)	T	Dibromochlorom...	0.301	0.334	0.347	0.374	0.349	0.384	0.348	8.44
61)	T	1,2-Dibromoethane	0.289	0.332	0.340	0.353	0.334	0.354	0.334	7.15
62)	S	4-Bromofluorob...	0.412	0.403	0.433	0.450	0.481	0.436		7.16
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.357	0.396	0.392	0.392	0.369	0.392	0.383	4.19
65)	PM	Chlorobenzene	1.030	1.112	1.109	1.138	1.060	1.130	1.096	3.86
66)	T	1,1,1,2-Tetrac...	0.338	0.346	0.358	0.366	0.349	0.367	0.354	3.26
67)	C	Ethyl Benzene	1.715	1.837	1.869	1.972	1.865	2.009	1.878	5.56#
68)	T	m/p-Xylenes	0.592	0.704	0.718	0.762	0.717	0.774	0.711	9.12
69)	T	o-Xylene	0.604	0.697	0.703	0.759	0.721	0.759	0.707	8.06
70)	T	Styrene	0.951	1.119	1.128	1.259	1.200	1.288	1.158	10.50
71)	P	Bromoform	0.214	0.243	0.247	0.265	0.261	0.281	0.252	9.18
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.739	3.814	3.903	4.151	3.541	4.022	3.862	5.58
74)	T	N-amyl acetate	1.517	1.613	1.653	1.739	1.510	1.649	1.613	5.44
75)	P	1,1,2,2-Tetrac...	1.142	1.252	1.255	1.260	1.054	1.156	1.186	7.03
76)	T	1,2,3-Trichlor...	1.144	1.045	1.202	1.225	1.037	1.131	1.131	6.88
77)	T	Bromobenzene	1.039	0.954	0.981	1.002	0.872	0.981	0.971	5.81
78)	T	n-propylbenzene	4.177	4.301	4.383	4.780	4.195	4.754	4.432	6.10
79)	T	2-Chlorotoluene	2.764	2.914	2.943	3.056	2.667	2.946	2.882	4.89
80)	T	1,3,5-Trimethy...	2.827	3.050	3.168	3.330	2.932	3.256	3.094	6.25
81)	T	trans-1,4-Dich...	0.390	0.422	0.505	0.449	0.474	0.448		10.01
82)	T	4-Chlorotoluene	2.734	2.787	2.922	3.069	2.656	2.960	2.855	5.43
83)	T	tert-Butylbenzene	2.564	2.639	2.781	2.929	2.499	2.778	2.698	5.93
84)	T	1,2,4-Trimethy...	2.725	3.002	3.143	3.339	2.983	3.295	3.081	7.39
85)	T	sec-Butylbenzene	3.223	3.516	3.750	3.887	3.455	3.876	3.618	7.31
86)	T	p-Isopropyltol...	2.643	2.835	2.954	3.198	2.901	3.262	2.965	7.80
87)	T	1,3-Dichlorobe...	1.619	1.715	1.707	1.734	1.602	1.715	1.682	3.35
88)	T	1,4-Dichlorobe...	1.587	1.673	1.695	1.751	1.583	1.711	1.667	4.10
89)	T	n-Butylbenzene	2.234	2.274	2.398	2.630	2.443	2.771	2.458	8.45
90)	T	Hexachloroethane	0.431	0.473	0.492	0.526	0.475	0.556	0.492	8.92
91)	T	1,2-Dichlorobe...	1.574	1.585	1.636	1.655	1.550	1.600	1.600	2.45
92)	T	1,2-Dibromo-3-...	0.164	0.205	0.194	0.200	0.201	0.215	0.197	8.86
93)	T	1,2,4-Trichlor...	0.577	0.629	0.658	0.720	0.686	0.782	0.675	10.59
94)	T	Hexachlorobuta...	0.312	0.280	0.262	0.282	0.263	0.283	0.280	6.54
95)	T	Naphthalene	2.146	2.123	2.231	2.425	2.418	2.727	2.345	9.71
96)	T	1,2,3-Trichlor...	0.626	0.612	0.664	0.674	0.653	0.739	0.661	6.77

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086669.D
 Acq On : 16 May 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:11:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	204431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373632	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	326222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	1668	0.687	ug/l	92
3) Chloromethane	2.359	50	3511	0.992	ug/l	91
4) Vinyl Chloride	2.518	62	2679	0.803	ug/l	92
6) Chloroethane	3.118	64	1819	0.817	ug/l #	82
7) Trichlorofluoromethane	3.494	101	3176	0.851	ug/l #	82
8) Diethyl Ether	3.959	74	1329	0.823	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	1834	0.814	ug/l	96
12) 1,1-Dichloroethene	4.336	96	2173	0.904	ug/l #	83
14) Allyl chloride	5.024	41	3215	0.764	ug/l	94
15) Acrylonitrile	5.718	53	5412	4.060	ug/l	99
16) Acetone	4.436	43	5855	4.962	ug/l	93
17) Carbon Disulfide	4.724	76	5935	0.825	ug/l #	92
18) Methyl Acetate	5.024	43	3780	1.087	ug/l #	81
19) Methyl tert-butyl Ether	5.800	73	7109	0.810	ug/l	99
20) Methylene Chloride	5.271	84	3050	1.110	ug/l #	96
21) trans-1,2-Dichloroethene	5.794	96	2250	0.894	ug/l #	73
22) Diisopropyl ether	6.671	45	6818	0.743	ug/l #	96
23) Vinyl Acetate	6.600	43	23893	3.683	ug/l	99
24) 1,1-Dichloroethane	6.571	63	4288	0.877	ug/l #	82
25) 2-Butanone	7.482	43	7380	4.035	ug/l	96
26) 2,2-Dichloropropane	7.488	77	3751	0.866	ug/l	91
27) cis-1,2-Dichloroethene	7.488	96	2786	0.893	ug/l	94
28) Bromochloromethane	7.818	49	1999	0.957	ug/l #	86
29) Tetrahydrofuran	7.847	42	4627	3.784	ug/l	99
30) Chloroform	7.965	83	4340	0.901	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	3575	0.867	ug/l #	51
36) 1,1-Dichloropropene	8.371	75	3030	0.877	ug/l	93
37) Ethyl Acetate	7.559	43	3175	0.874	ug/l #	69
38) Carbon Tetrachloride	8.359	117	2873	0.869	ug/l #	85
39) Methylcyclohexane	9.600	83	3255	0.801	ug/l	92
40) Benzene	8.606	78	10071	0.908	ug/l	96
41) Methacrylonitrile	7.782	41	1615	0.775	ug/l #	57
42) 1,2-Dichloroethane	8.665	62	3087	0.874	ug/l	80
43) Isopropyl Acetate	8.682	43	8505m	0.980	ug/l	
44) Trichloroethene	9.353	130	2284	0.866	ug/l	93
45) 1,2-Dichloropropane	9.618	63	2325	0.861	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086669.D
 Acq On : 16 May 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:11:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

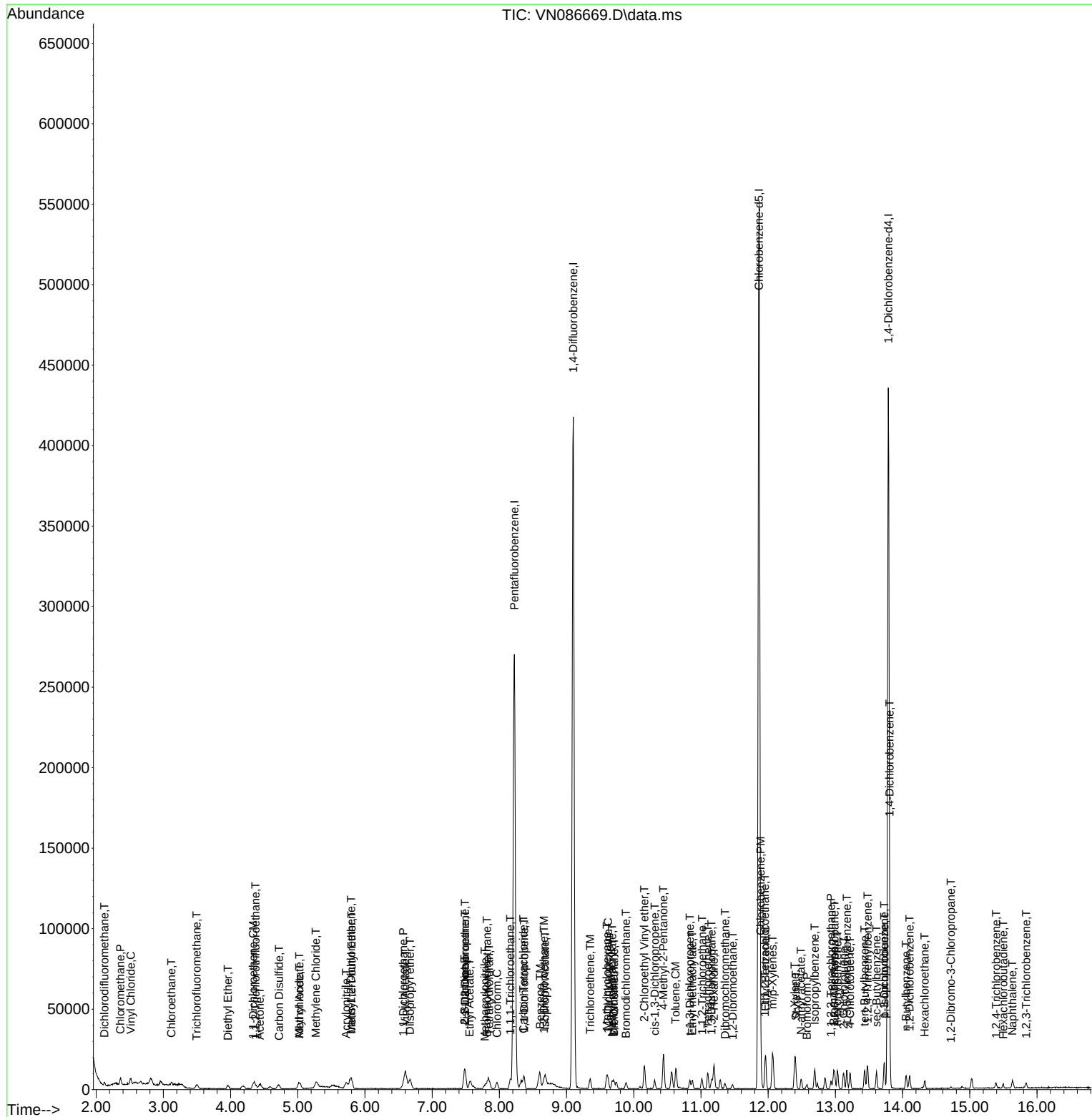
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1521	0.878	ug/l	95
47) Bromodichloromethane	9.882	83	3268	0.875	ug/l #	87
48) Methyl methacrylate	9.676	41	2282	0.725	ug/l	97
49) 1,4-Dioxane	9.700	88	978	17.569	ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	14811	4.011	ug/l	97
52) Toluene	10.623	92	5713	0.826	ug/l	91
53) t-1,3-Dichloropropene	10.835	75	3234	0.783	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	3626	0.798	ug/l #	86
55) 1,1,2-Trichloroethane	11.018	97	2419	0.970	ug/l #	79
56) Ethyl methacrylate	10.870	69	3289	0.722	ug/l	96
57) 1,3-Dichloropropane	11.159	76	3826	0.866	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	6624	3.099	ug/l	99
59) 2-Hexanone	11.194	43	10521	3.837	ug/l	91
60) Dibromochloromethane	11.359	129	2253	0.825	ug/l	98
61) 1,2-Dibromoethane	11.470	107	2160	0.855	ug/l	99
64) Tetrachloroethene	11.100	164	2329	0.929	ug/l	88
65) Chlorobenzene	11.888	112	6720	0.922	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.953	131	2204	0.917	ug/l #	60
67) Ethyl Benzene	11.959	91	11189	0.855	ug/l	95
68) m/p-Xylenes	12.065	106	7721	1.572	ug/l	97
69) o-Xylene	12.394	106	3944	0.809	ug/l	95
70) Styrene	12.412	104	6208	0.767	ug/l	99
71) Bromoform	12.576	173	1394	0.771	ug/l #	99
73) Isopropylbenzene	12.694	105	9008	0.921	ug/l	96
74) N-amyl acetate	12.488	43	3655	0.762	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.935	83	2752	0.969	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	2756m	0.972	ug/l	
77) Bromobenzene	12.976	156	2503	1.142	ug/l	93
78) n-propylbenzene	13.029	91	10063	0.875	ug/l	95
79) 2-Chlorotoluene	13.123	91	6658	0.921	ug/l	95
80) 1,3,5-Trimethylbenzene	13.170	105	6811	0.851	ug/l	100
82) 4-Chlorotoluene	13.217	91	6587	0.920	ug/l	94
83) tert-Butylbenzene	13.435	119	6176	0.889	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	6564	0.807	ug/l	99
85) sec-Butylbenzene	13.611	105	7764	0.811	ug/l	100
86) p-Isopropyltoluene	13.729	119	6368	0.807	ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	3900	0.951	ug/l	94
88) 1,4-Dichlorobenzene	13.806	146	3823m	0.928	ug/l	
89) n-Butylbenzene	14.053	91	5382	0.777	ug/l	97
90) Hexachloroethane	14.329	117	1038	0.782	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	3792	0.954	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	395	0.702	ug/l #	65
93) 1,2,4-Trichlorobenzene	15.394	180	1389	0.741	ug/l	88
94) Hexachlorobutadiene	15.500	225	752	1.056	ug/l	82
95) Naphthalene	15.635	128	5170	0.777	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	1509	0.847	ug/l	91

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086670.D
 Acq On : 16 May 2025 16:55
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:12:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	199484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	363475	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	327745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	14329	4.989	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	9.980%#		
35) Dibromofluoromethane	8.159	113	10911	6.032	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	12.060%#		
50) Toluene-d8	10.565	98	43744	4.852	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.700%#		
62) 4-Bromofluorobenzene	12.847	95	14966	4.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.140%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9487	4.002	ug/l	98
3) Chloromethane	2.359	50	15910	4.605	ug/l	93
4) Vinyl Chloride	2.512	62	14120	4.338	ug/l	91
5) Bromomethane	2.942	94	8815	5.827	ug/l	95
6) Chloroethane	3.118	64	9752	4.490	ug/l	94
7) Trichlorofluoromethane	3.494	101	17692	4.855	ug/l	94
8) Diethyl Ether	3.953	74	7321	4.643	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	10672	4.852	ug/l	98
10) Methyl Iodide	4.583	142	11863	4.827	ug/l	91
11) Tert butyl alcohol	5.524	59	12572	23.903	ug/l #	86
12) 1,1-Dichloroethene	4.341	96	11235	4.790	ug/l	93
13) Acrolein	4.177	56	14380	40.124	ug/l	97
14) Allyl chloride	5.024	41	16060	3.913	ug/l	98
15) Acrylonitrile	5.718	53	30877	23.738	ug/l	99
16) Acetone	4.424	43	25108	21.808	ug/l	94
17) Carbon Disulfide	4.712	76	29733	4.235	ug/l	99
18) Methyl Acetate	5.024	43	14135	4.165	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	37422	4.369	ug/l	96
20) Methylene Chloride	5.271	84	13630	5.082	ug/l	94
21) trans-1,2-Dichloroethene	5.788	96	11984	4.879	ug/l	90
22) Diisopropyl ether	6.665	45	38431	4.292	ug/l	97
23) Vinyl Acetate	6.600	43	136818m	21.613	ug/l	
24) 1,1-Dichloroethane	6.565	63	22481	4.714	ug/l	97
25) 2-Butanone	7.482	43	40273	22.565	ug/l	99
26) 2,2-Dichloropropane	7.488	77	18472	4.369	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	14376	4.720	ug/l	97
28) Bromochloromethane	7.812	49	10493	5.145	ug/l #	100
29) Tetrahydrofuran	7.841	42	25661	21.506	ug/l	100
30) Chloroform	7.959	83	22851	4.863	ug/l	98
31) Cyclohexane	8.253	56	22050	4.771	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	18669	4.640	ug/l	91
36) 1,1-Dichloropropene	8.365	75	15893	4.729	ug/l	99
37) Ethyl Acetate	7.559	43	16573m	4.689	ug/l	
38) Carbon Tetrachloride	8.359	117	15908	4.944	ug/l	90
39) Methylcyclohexane	9.600	83	16719	4.228	ug/l	91
40) Benzene	8.606	78	51932	4.814	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086670.D
 Acq On : 16 May 2025 16:55
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/19/2025

Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:12:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M

Quant Title : SW846 8260

QLast Update : Sat May 17 00:09:38 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	8791	4.338	ug/l	94
42) 1,2-Dichloroethane	8.665	62	16621	4.839	ug/l	99
43) Isopropyl Acetate	8.682	43	34745	4.117	ug/l #	91
44) Trichloroethene	9.353	130	12394	4.833	ug/l	92
45) 1,2-Dichloropropane	9.618	63	12252	4.665	ug/l	94
46) Dibromomethane	9.706	93	8214	4.876	ug/l	97
47) Bromodichloromethane	9.888	83	17028	4.689	ug/l	100
48) Methyl methacrylate	9.676	41	12296	4.016	ug/l	96
49) 1,4-Dioxane	9.688	88	5357	98.922	ug/l #	81
51) 4-Methyl-2-Pentanone	10.441	43	81358	22.646	ug/l	99
52) Toluene	10.629	92	32634	4.849	ug/l	97
53) t-1,3-Dichloropropene	10.829	75	17545	4.365	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	19516	4.414	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	12277	5.058	ug/l	94
56) Ethyl methacrylate	10.870	69	18350	4.144	ug/l	97
57) 1,3-Dichloropropane	11.159	76	21342	4.967	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	41611	20.009	ug/l	99
59) 2-Hexanone	11.194	43	57606	21.598	ug/l	98
60) Dibromochloromethane	11.359	129	12131	4.568	ug/l	100
61) 1,2-Dibromoethane	11.465	107	12079	4.917	ug/l	98
64) Tetrachloroethene	11.100	164	12989	5.155	ug/l	97
65) Chlorobenzene	11.888	112	36442	4.975	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	11341	4.696	ug/l	98
67) Ethyl Benzene	11.959	91	60213	4.582	ug/l	99
68) m/p-Xylenes	12.070	106	46152	9.352	ug/l	99
69) o-Xylene	12.394	106	22829	4.659	ug/l	100
70) Styrene	12.406	104	36686	4.513	ug/l	99
71) Bromoform	12.576	173	7950	4.376	ug/l #	98
73) Isopropylbenzene	12.694	105	53004	4.698	ug/l	99
74) N-amyl acetate	12.488	43	22422	4.051	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	17395	5.308	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	14523m	4.438	ug/l	
77) Bromobenzene	12.976	156	13253	5.241	ug/l	99
78) n-propylbenzene	13.029	91	59767	4.507	ug/l	99
79) 2-Chlorotoluene	13.123	91	40497	4.856	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	42383	4.589	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.729	75	5413	3.983	ug/l	92
82) 4-Chlorotoluene	13.217	91	38730	4.691	ug/l	99
83) tert-Butylbenzene	13.435	119	36669	4.577	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	41716	4.445	ug/l	98
85) sec-Butylbenzene	13.611	105	48868	4.426	ug/l	99
86) p-Isopropyltoluene	13.723	119	39399	4.330	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	23834	5.037	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	23246	4.889	ug/l	93
89) n-Butylbenzene	14.053	91	31605	3.957	ug/l	98
90) Hexachloroethane	14.329	117	6569	4.292	ug/l	97
91) 1,2-Dichlorobenzene	14.100	146	22033	4.803	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.711	75	2855	4.399	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	8745	4.045	ug/l	98
94) Hexachlorobutadiene	15.494	225	3892	4.737	ug/l	94
95) Naphthalene	15.641	128	29507	3.845	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	8499	4.134	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086670.D
Acq On : 16 May 2025 16:55
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:12:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086671.D
 Acq On : 16 May 2025 17:19
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: May 17 00:13:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	190888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	310401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	25122	9.141	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.280%#		
35) Dibromofluoromethane	8.159	113	20087	11.605	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	23.220%#		
50) Toluene-d8	10.565	98	80603	9.343	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.680%#		
62) 4-Bromofluorobenzene	12.847	95	28023	8.941	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	17.880%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	24398	10.757	ug/l	99
3) Chloromethane	2.359	50	32457	9.817	ug/l	97
4) Vinyl Chloride	2.512	62	29779	9.561	ug/l	99
5) Bromomethane	2.965	94	16825	11.623	ug/l	98
6) Chloroethane	3.118	64	19426	9.346	ug/l	92
7) Trichlorofluoromethane	3.500	101	34059	9.768	ug/l	92
8) Diethyl Ether	3.965	74	13912	9.221	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	20760	9.864	ug/l	97
10) Methyl Iodide	4.583	142	25084	10.666	ug/l	98
11) Tert butyl alcohol	5.524	59	24828	49.332	ug/l	96
12) 1,1-Dichloroethene	4.342	96	21501	9.579	ug/l	98
13) Acrolein	4.177	56	25323	73.840	ug/l	98
14) Allyl chloride	5.024	41	34751	8.848	ug/l	94
15) Acrylonitrile	5.724	53	60987	48.997	ug/l	98
16) Acetone	4.430	43	49424	44.862	ug/l	97
17) Carbon Disulfide	4.706	76	58965	8.778	ug/l	99
18) Methyl Acetate	5.018	43	26047	8.021	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	73019	8.908	ug/l	98
20) Methylene Chloride	5.283	84	25575	9.965	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	22422	9.539	ug/l	93
22) Diisopropyl ether	6.671	45	73555	8.584	ug/l	97
23) Vinyl Acetate	6.600	43	273527m	45.155	ug/l	
24) 1,1-Dichloroethane	6.565	63	42997	9.421	ug/l	98
25) 2-Butanone	7.482	43	75976	44.487	ug/l	100
26) 2,2-Dichloropropane	7.488	77	35543	8.785	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	27508	9.439	ug/l	100
28) Bromochloromethane	7.812	49	19798	10.145	ug/l	99
29) Tetrahydrofuran	7.841	42	50074	43.856	ug/l	100
30) Chloroform	7.959	83	42323	9.413	ug/l	96
31) Cyclohexane	8.259	56	40462	9.148	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	36234	9.412	ug/l	94
36) 1,1-Dichloropropene	8.371	75	30748	9.561	ug/l	99
37) Ethyl Acetate	7.559	43	30656	9.064	ug/l	99
38) Carbon Tetrachloride	8.359	117	29903	9.712	ug/l	98
39) Methylcyclohexane	9.600	83	32439	8.573	ug/l	98
40) Benzene	8.606	78	100693	9.755	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086671.D
 Acq On : 16 May 2025 17:19
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:13:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	17107	8.821	ug/l	95
42) 1,2-Dichloroethane	8.665	62	31399	9.553	ug/l	100
43) Isopropyl Acetate	8.688	43	58427	7.234	ug/l	96
44) Trichloroethene	9.353	130	24877	10.137	ug/l	93
45) 1,2-Dichloropropane	9.618	63	23844	9.487	ug/l	94
46) Dibromomethane	9.706	93	16556	10.271	ug/l	98
47) Bromodichloromethane	9.888	83	32635	9.391	ug/l	98
48) Methyl methacrylate	9.676	41	23538	8.034	ug/l	96
49) 1,4-Dioxane	9.694	88	10578	204.120	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	157047	45.680	ug/l	100
52) Toluene	10.629	92	61995	9.627	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	34038	8.850	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	38382	9.072	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	22750	9.795	ug/l	97
56) Ethyl methacrylate	10.871	69	36596	8.636	ug/l	97
57) 1,3-Dichloropropane	11.159	76	39702	9.655	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	83758	42.087	ug/l	99
59) 2-Hexanone	11.194	43	115102	45.097	ug/l	98
60) Dibromochloromethane	11.359	129	24137	9.497	ug/l	98
61) 1,2-Dibromoethane	11.465	107	23669	10.068	ug/l	100
64) Tetrachloroethene	11.100	164	24331	10.197	ug/l	97
65) Chlorobenzene	11.888	112	68845	9.924	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	22204	9.708	ug/l	99
67) Ethyl Benzene	11.959	91	116022	9.322	ug/l	98
68) m/p-Xylenes	12.070	106	89159	19.076	ug/l	98
69) o-Xylene	12.394	106	43625	9.401	ug/l	96
70) Styrene	12.406	104	70053	9.099	ug/l	98
71) Bromoform	12.576	173	15340	8.916	ug/l #	96
73) Isopropylbenzene	12.694	105	103176	9.616	ug/l	100
74) N-amyl acetate	12.488	43	43684	8.299	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	33161	10.640	ug/l	96
76) 1,2,3-Trichloropropane	12.988	75	31781m	10.213	ug/l	
77) Bromobenzene	12.976	156	25936	10.785	ug/l	99
78) n-propylbenzene	13.035	91	115866	9.188	ug/l	99
79) 2-Chlorotoluene	13.123	91	77792	9.808	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	83733	9.534	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	11161	8.635	ug/l	96
82) 4-Chlorotoluene	13.217	91	77247	9.839	ug/l	98
83) tert-Butylbenzene	13.435	119	73503	9.647	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	83086	9.310	ug/l	98
85) sec-Butylbenzene	13.611	105	99120	9.441	ug/l	97
86) p-Isopropyltoluene	13.723	119	78078	9.023	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	45121	10.027	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	44799	9.907	ug/l	98
89) n-Butylbenzene	14.053	91	63385	8.345	ug/l	99
90) Hexachloroethane	14.329	117	13004	8.934	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	43237	9.912	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5136	8.321	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	17399	8.463	ug/l	99
94) Hexachlorobutadiene	15.494	225	6916	8.850	ug/l	97
95) Naphthalene	15.641	128	58965	8.080	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	17539	8.970	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086671.D
Acq On : 16 May 2025 17:19
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

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

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

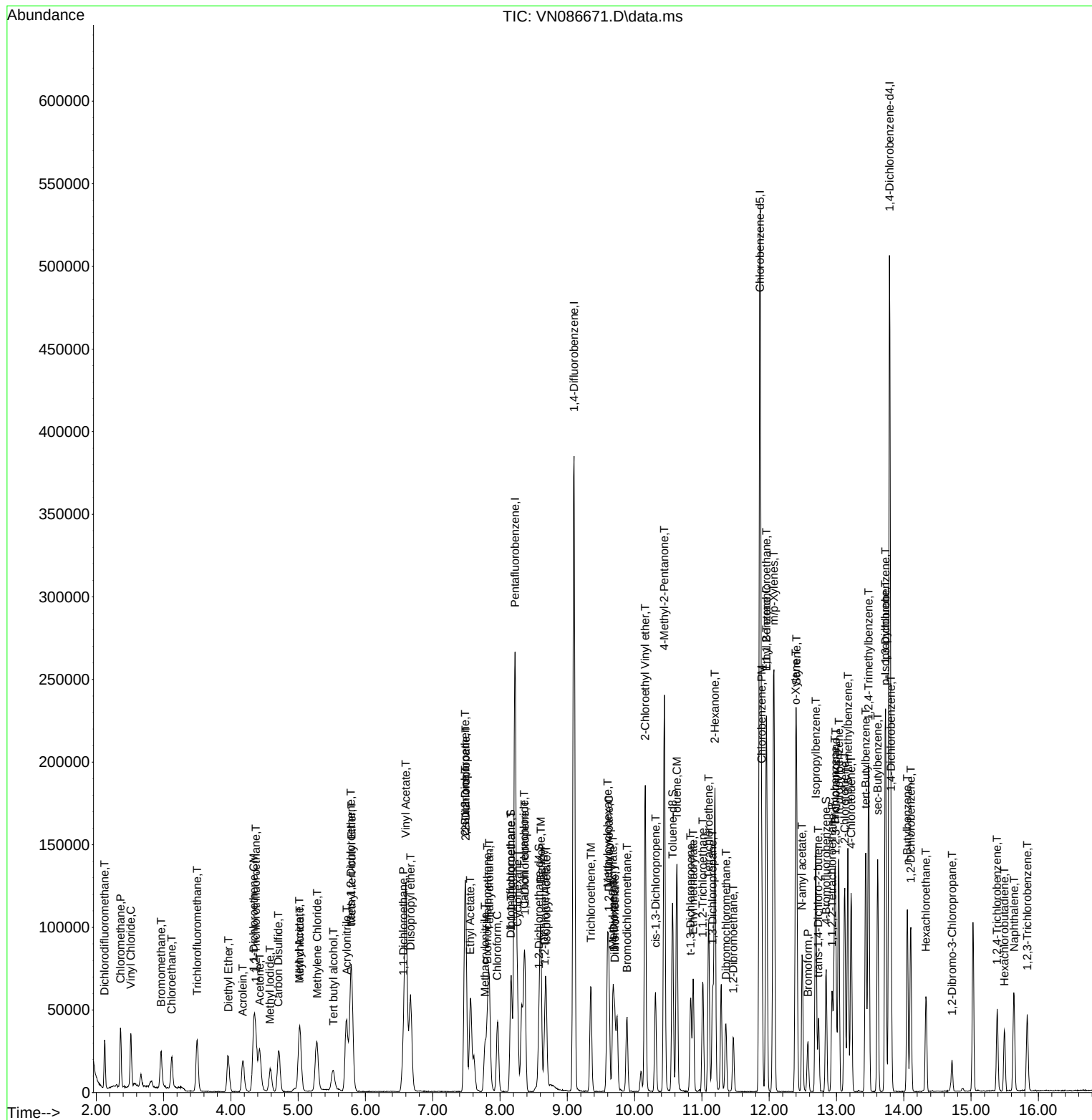
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\  
Data File : VN086671.D  
Acq On    : 16 May 2025  17:19  
Operator  : JC\MD  
Sample    : VSTDIC010  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 13   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086672.D
 Acq On : 16 May 2025 17:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: May 17 00:15:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
 Supervised By :Mahesh Dadoda 05/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	197408	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	359594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330521	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	54239	19.085	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.160%#		
35) Dibromofluoromethane	8.165	113	41801	23.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	46.720%#		
50) Toluene-d8	10.565	98	177303	19.879	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.760%#		
62) 4-Bromofluorobenzene	12.847	95	62323	19.235	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.460%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	37640	16.047	ug/l	97
3) Chloromethane	2.359	50	60191	17.604	ug/l	97
4) Vinyl Chloride	2.512	62	56269	17.470	ug/l	98
5) Bromomethane	2.947	94	32779	21.896	ug/l	98
6) Chloroethane	3.118	64	38167	17.756	ug/l	95
7) Trichlorofluoromethane	3.495	101	70950	19.676	ug/l	96
8) Diethyl Ether	3.959	74	29534	18.929	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	42920	19.720	ug/l	99
10) Methyl Iodide	4.589	142	51783	21.291	ug/l	98
11) Tert butyl alcohol	5.512	59	49484	95.074	ug/l	100
12) 1,1-Dichloroethene	4.336	96	44017	18.962	ug/l	97
13) Acrolein	4.177	56	48522	136.813	ug/l	99
14) Allyl chloride	5.024	41	68204	16.792	ug/l	99
15) Acrylonitrile	5.718	53	131858	102.437	ug/l	99
16) Acetone	4.424	43	101424	89.021	ug/l	98
17) Carbon Disulfide	4.712	76	123380	17.760	ug/l	99
18) Methyl Acetate	5.024	43	53481	15.926	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	155717	18.369	ug/l	98
20) Methylene Chloride	5.271	84	53580	20.187	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	48109	19.791	ug/l	99
22) Diisopropyl ether	6.671	45	158492	17.885	ug/l	97
23) Vinyl Acetate	6.600	43	654499	104.479	ug/l	99
24) 1,1-Dichloroethane	6.565	63	90501	19.175	ug/l	99
25) 2-Butanone	7.482	43	163572	92.615	ug/l	100
26) 2,2-Dichloropropane	7.488	77	74939	17.911	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	59558	19.761	ug/l	99
28) Bromochloromethane	7.806	49	39958	19.800	ug/l	100
29) Tetrahydrofuran	7.835	42	110374	93.475	ug/l	99
30) Chloroform	7.965	83	92604	19.916	ug/l	97
31) Cyclohexane	8.253	56	80800	17.665	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	77893	19.565	ug/l	98
36) 1,1-Dichloropropene	8.371	75	64751	19.476	ug/l	100
37) Ethyl Acetate	7.559	43	65633	18.770	ug/l	99
38) Carbon Tetrachloride	8.359	117	66190	20.795	ug/l	99
39) Methylcyclohexane	9.600	83	71304	18.227	ug/l	99
40) Benzene	8.606	78	213460	20.002	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086672.D
 Acq On : 16 May 2025 17:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:15:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	35706	17.809	ug/l	100
42) 1,2-Dichloroethane	8.665	62	67134	19.757	ug/l	100
43) Isopropyl Acetate	8.688	43	122489	14.669	ug/l	98
44) Trichloroethene	9.347	130	51930	20.468	ug/l	99
45) 1,2-Dichloropropane	9.618	63	52246	20.108	ug/l	98
46) Dibromomethane	9.706	93	35245	21.150	ug/l	99
47) Bromodichloromethane	9.882	83	71409	19.877	ug/l	98
48) Methyl methacrylate	9.676	41	53023	17.506	ug/l	98
49) 1,4-Dioxane	9.694	88	21528	401.824	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	343562	96.661	ug/l	99
52) Toluene	10.629	92	137539	20.659	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	76705	19.291	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	82783	18.925	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	49729	20.709	ug/l	98
56) Ethyl methacrylate	10.871	69	82716	18.880	ug/l	97
57) 1,3-Dichloropropane	11.159	76	87454	20.572	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	179575	87.281	ug/l	99
59) 2-Hexanone	11.194	43	257013	97.403	ug/l	99
60) Dibromochloromethane	11.359	129	53776	20.466	ug/l	98
61) 1,2-Dibromoethane	11.465	107	50846	20.921	ug/l	98
64) Tetrachloroethene	11.100	164	51785	20.381	ug/l	96
65) Chlorobenzene	11.888	112	150439	20.366	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	48349	19.851	ug/l	99
67) Ethyl Benzene	11.959	91	260721	19.673	ug/l	100
68) m/p-Xylenes	12.065	106	201601	40.507	ug/l	100
69) o-Xylene	12.394	106	100301	20.298	ug/l	97
70) Styrene	12.406	104	166436	20.301	ug/l	99
71) Bromoform	12.576	173	35068	19.141	ug/l #	97
73) Isopropylbenzene	12.694	105	238751	20.455	ug/l	99
74) N-amyl acetate	12.494	43	100018	17.465	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	72469	21.374	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	70466m	20.815	ug/l	
77) Bromobenzene	12.976	156	57601	22.016	ug/l	99
78) n-propylbenzene	13.035	91	274906	20.038	ug/l	100
79) 2-Chlorotoluene	13.123	91	175756	20.369	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	191549	20.048	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	29065	20.670	ug/l	95
82) 4-Chlorotoluene	13.217	91	176501	20.664	ug/l	98
83) tert-Butylbenzene	13.435	119	168468	20.324	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	192028	19.778	ug/l	98
85) sec-Butylbenzene	13.612	105	223581	19.574	ug/l	99
86) p-Isopropyltoluene	13.723	119	183908	19.537	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	99754	20.377	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	100717	20.473	ug/l	99
89) n-Butylbenzene	14.053	91	151273	18.306	ug/l	98
90) Hexachloroethane	14.329	117	30231	19.092	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	95188	20.058	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11492	17.115	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	41411	18.515	ug/l	98
94) Hexachlorobutadiene	15.494	225	16213	19.071	ug/l	99
95) Naphthalene	15.635	128	139495	17.571	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	38790	18.236	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086672.D
Acq On : 16 May 2025 17:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:15:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086673.D
 Acq On : 16 May 2025 18:08
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	200680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	366335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	333195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159539	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139132	48.157	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.320%		
35) Dibromofluoromethane	8.165	113	109307	59.961	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	119.920%		
50) Toluene-d8	10.565	98	458089	50.416	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.840%		
62) 4-Bromofluorobenzene	12.847	95	164814	49.931	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.860%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	120236	50.424	ug/l	100
3) Chloromethane	2.359	50	156934	45.149	ug/l	100
4) Vinyl Chloride	2.512	62	151154	46.165	ug/l	100
5) Bromomethane	2.942	94	80874	53.143	ug/l	100
6) Chloroethane	3.112	64	93444	42.763	ug/l	100
7) Trichlorofluoromethane	3.495	101	176535	48.159	ug/l	100
8) Diethyl Ether	3.959	74	72328	45.601	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	106022	47.918	ug/l	100
10) Methyl Iodide	4.583	142	130592	52.819	ug/l	100
11) Tert butyl alcohol	5.518	59	122272	231.093	ug/l	100
12) 1,1-Dichloroethene	4.336	96	109886	46.567	ug/l	100
13) Acrolein	4.177	56	134375	372.708	ug/l	100
14) Allyl chloride	5.018	41	165431	40.065	ug/l	100
15) Acrylonitrile	5.718	53	312458	238.782	ug/l	100
16) Acetone	4.424	43	243902	210.585	ug/l	100
17) Carbon Disulfide	4.712	76	309553	43.833	ug/l	100
18) Methyl Acetate	5.018	43	132976	38.953	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	383825	44.540	ug/l	100
20) Methylene Chloride	5.271	84	126581	46.913	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	115816	46.868	ug/l	100
22) Diisopropyl ether	6.665	45	385688	42.813	ug/l	100
23) Vinyl Acetate	6.600	43	1462943	229.724	ug/l	100
24) 1,1-Dichloroethane	6.571	63	221538	46.174	ug/l	100
25) 2-Butanone	7.477	43	402916	224.413	ug/l	100
26) 2,2-Dichloropropane	7.489	77	178757	42.029	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	142862	46.629	ug/l	100
28) Bromochloromethane	7.812	49	101861	49.651	ug/l	100
29) Tetrahydrofuran	7.836	42	265547	221.224	ug/l	100
30) Chloroform	7.959	83	219404	46.418	ug/l	100
31) Cyclohexane	8.253	56	197288	42.429	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	189597	46.845	ug/l	100
36) 1,1-Dichloropropene	8.365	75	159488	47.088	ug/l	100
37) Ethyl Acetate	7.559	43	159707	44.832	ug/l	100
38) Carbon Tetrachloride	8.359	117	157560	48.589	ug/l	100
39) Methylcyclohexane	9.600	83	176457	44.277	ug/l	100
40) Benzene	8.606	78	513727	47.252	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086673.D
 Acq On : 16 May 2025 18:08
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	87794	42.982	ug/l	100
42) 1,2-Dichloroethane	8.665	62	160313	46.310	ug/l	100
43) Isopropyl Acetate	8.688	43	282433	33.201	ug/l	100
44) Trichloroethene	9.347	130	125647	48.612	ug/l	100
45) 1,2-Dichloropropane	9.618	63	122982	46.461	ug/l	100
46) Dibromomethane	9.706	93	83377	49.113	ug/l	100
47) Bromodichloromethane	9.883	83	172626	47.166	ug/l	100
48) Methyl methacrylate	9.677	41	128661	41.698	ug/l	100
49) 1,4-Dioxane	9.694	88	54709	1002.364	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	825673	228.029	ug/l	100
52) Toluene	10.630	92	324906	47.903	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	188352	46.497	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	200078	44.899	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	117677	48.104	ug/l	100
56) Ethyl methacrylate	10.871	69	204115	45.731	ug/l	100
57) 1,3-Dichloropropane	11.159	76	205784	47.516	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	473490	225.901	ug/l	100
59) 2-Hexanone	11.194	43	609102	226.589	ug/l	100
60) Dibromochloromethane	11.359	129	127861	47.766	ug/l	100
61) 1,2-Dibromoethane	11.465	107	122201	49.356	ug/l	100
64) Tetrachloroethene	11.100	164	122991	48.018	ug/l	100
65) Chlorobenzene	11.888	112	353206	47.433	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116442	47.425	ug/l	100
67) Ethyl Benzene	11.959	91	621554	46.525	ug/l	100
68) m/p-Xylenes	12.065	106	477853	95.244	ug/l	100
69) o-Xylene	12.394	106	240345	48.249	ug/l	100
70) Styrene	12.406	104	399975	48.396	ug/l	100
71) Bromoform	12.576	173	86917	47.062	ug/l #	100
73) Isopropylbenzene	12.694	105	564854	43.614	ug/l	100
74) N-amyl acetate	12.488	43	240871	37.908	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	168088	44.680	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	165513m	44.062	ug/l	
77) Bromobenzene	12.976	156	139072	47.906	ug/l	100
78) n-propylbenzene	13.029	91	669285	43.966	ug/l	100
79) 2-Chlorotoluene	13.123	91	425476	44.441	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	467786	44.125	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	71696	45.952	ug/l	100
82) 4-Chlorotoluene	13.218	91	423764	44.713	ug/l	100
83) tert-Butylbenzene	13.435	119	398675	43.347	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	475848	44.171	ug/l	100
85) sec-Butylbenzene	13.612	105	551208	43.492	ug/l	100
86) p-Isopropyltoluene	13.723	119	462804	44.309	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	255624	47.060	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	252548	46.266	ug/l	100
89) n-Butylbenzene	14.053	91	389739	42.505	ug/l	100
90) Hexachloroethane	14.329	117	75794	43.139	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	247292	46.963	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32007	42.959	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	109515	44.128	ug/l	100
94) Hexachlorobutadiene	15.500	225	41916	44.437	ug/l	100
95) Naphthalene	15.635	128	385716	43.787	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	104176	44.139	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086673.D
Acq On : 16 May 2025 18:08
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086674.D
 Acq On : 16 May 2025 18:32
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: May 17 00:17:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:09:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	212535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	385603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	356581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	296706	96.970	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.940%#			
35) Dibromofluoromethane	8.165	113	239789	124.964	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 249.920%#			
50) Toluene-d8	10.565	98	1021539	106.809	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 213.620%#			
62) 4-Bromofluorobenzene	12.847	95	370788	106.718	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.440%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	272626	107.954	ug/l	99
3) Chloromethane	2.359	50	361119	98.097	ug/l	98
4) Vinyl Chloride	2.512	62	336647	97.082	ug/l	99
5) Bromomethane	2.930	94	175755	109.049	ug/l	97
6) Chloroethane	3.106	64	208872	90.254	ug/l	96
7) Trichlorofluoromethane	3.494	101	393305	101.309	ug/l	96
8) Diethyl Ether	3.959	74	162276	96.605	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	233520	99.655	ug/l	99
10) Methyl Iodide	4.583	142	299898	114.531	ug/l	99
11) Tert butyl alcohol	5.518	59	267486	477.347	ug/l	98
12) 1,1-Dichloroethene	4.336	96	247923	99.203	ug/l	98
13) Acrolein	4.177	56	295287	773.336	ug/l	99
14) Allyl chloride	5.018	41	371902	85.045	ug/l	99
15) Acrylonitrile	5.712	53	701724	506.348	ug/l	99
16) Acetone	4.424	43	539112	439.506	ug/l	99
17) Carbon Disulfide	4.712	76	710987	95.061	ug/l	100
18) Methyl Acetate	5.018	43	291114	80.520	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	842311	92.293	ug/l	99
20) Methylene Chloride	5.271	84	290581	101.686	ug/l	97
21) trans-1,2-Dichloroethene	5.788	96	260585	99.571	ug/l	99
22) Diisopropyl ether	6.671	45	840075	88.050	ug/l	98
23) Vinyl Acetate	6.600	43	3184524	472.168	ug/l	99
24) 1,1-Dichloroethane	6.565	63	491576	96.742	ug/l	99
25) 2-Butanone	7.477	43	887511	466.747	ug/l	100
26) 2,2-Dichloropropane	7.488	77	391899	87.002	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	320382	98.737	ug/l	99
28) Bromochloromethane	7.812	49	212881	97.978	ug/l	98
29) Tetrahydrofuran	7.835	42	582167	457.944	ug/l	100
30) Chloroform	7.965	83	481570	96.199	ug/l	98
31) Cyclohexane	8.253	56	430663	87.454	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	412582	96.254	ug/l	98
36) 1,1-Dichloropropene	8.365	75	358680	100.608	ug/l	99
37) Ethyl Acetate	7.559	43	345729	92.202	ug/l	100
38) Carbon Tetrachloride	8.359	117	350376	102.652	ug/l	99
39) Methylcyclohexane	9.600	83	395616	94.309	ug/l	99
40) Benzene	8.606	78	1146502	100.185	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086674.D
 Acq On : 16 May 2025 18:32
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/19/2025

Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:17:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M

Quant Title : SW846 8260

QLast Update : Sat May 17 00:09:38 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	189373	88.081	ug/l	98
42) 1,2-Dichloroethane	8.665	62	348779	95.719	ug/l	99
43) Isopropyl Acetate	8.682	43	601666	67.195	ug/l	98
44) Trichloroethene	9.347	130	281707	103.544	ug/l	99
45) 1,2-Dichloropropane	9.618	63	271732	97.526	ug/l	100
46) Dibromomethane	9.706	93	183465	102.669	ug/l	100
47) Bromodichloromethane	9.888	83	383086	99.439	ug/l	97
48) Methyl methacrylate	9.676	41	282329	86.928	ug/l	99
49) 1,4-Dioxane	9.694	88	112938	1965.825	ug/l	96
51) 4-Methyl-2-Pentanone	10.441	43	1801423	472.646	ug/l	98
52) Toluene	10.629	92	729998	102.251	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	427269	100.206	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	451979	96.359	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	260447	101.145	ug/l	99
56) Ethyl methacrylate	10.870	69	460358	97.988	ug/l	99
57) 1,3-Dichloropropane	11.159	76	458200	100.514	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	1060521	480.691	ug/l	100
59) 2-Hexanone	11.194	43	1333834	471.399	ug/l	98
60) Dibromochloromethane	11.359	129	295955	105.038	ug/l	99
61) 1,2-Dibromoethane	11.465	107	273192	104.827	ug/l	99
64) Tetrachloroethene	11.100	164	279652	102.021	ug/l	98
65) Chlorobenzene	11.888	112	805636	101.096	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	261746	99.614	ug/l	99
67) Ethyl Benzene	11.959	91	1432940	100.224	ug/l	99
68) m/p-Xylenes	12.070	106	1104589	205.723	ug/l	99
69) o-Xylene	12.394	106	541462	101.570	ug/l	98
70) Styrene	12.406	104	918616	103.860	ug/l	100
71) Bromoform	12.576	173	200330	101.356	ug/l #	97
73) Isopropylbenzene	12.694	105	1285698	99.096	ug/l	100
74) N-amyl acetate	12.488	43	527018	82.794	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	369580	98.064	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	361465m	96.057	ug/l	
77) Bromobenzene	12.976	156	313717	107.874	ug/l	99
78) n-propylbenzene	13.035	91	1519746	99.656	ug/l	100
79) 2-Chlorotoluene	13.123	91	941604	98.175	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	1040889	98.009	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	151480	96.916	ug/l	95
82) 4-Chlorotoluene	13.217	91	946308	99.671	ug/l	99
83) tert-Butylbenzene	13.435	119	887979	96.375	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	1053192	97.589	ug/l	100
85) sec-Butylbenzene	13.611	105	1238888	97.578	ug/l	100
86) p-Isopropyltoluene	13.723	119	1042829	99.663	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	548281	100.759	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	547029	100.036	ug/l	99
89) n-Butylbenzene	14.053	91	885854	96.440	ug/l	100
90) Hexachloroethane	14.329	117	177725	100.975	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	511274	96.922	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	68755	92.118	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	249837	100.491	ug/l	99
94) Hexachlorobutadiene	15.494	225	90372	95.636	ug/l	97
95) Naphthalene	15.635	128	871550	98.763	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	236333	99.955	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086674.D
Acq On : 16 May 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

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

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

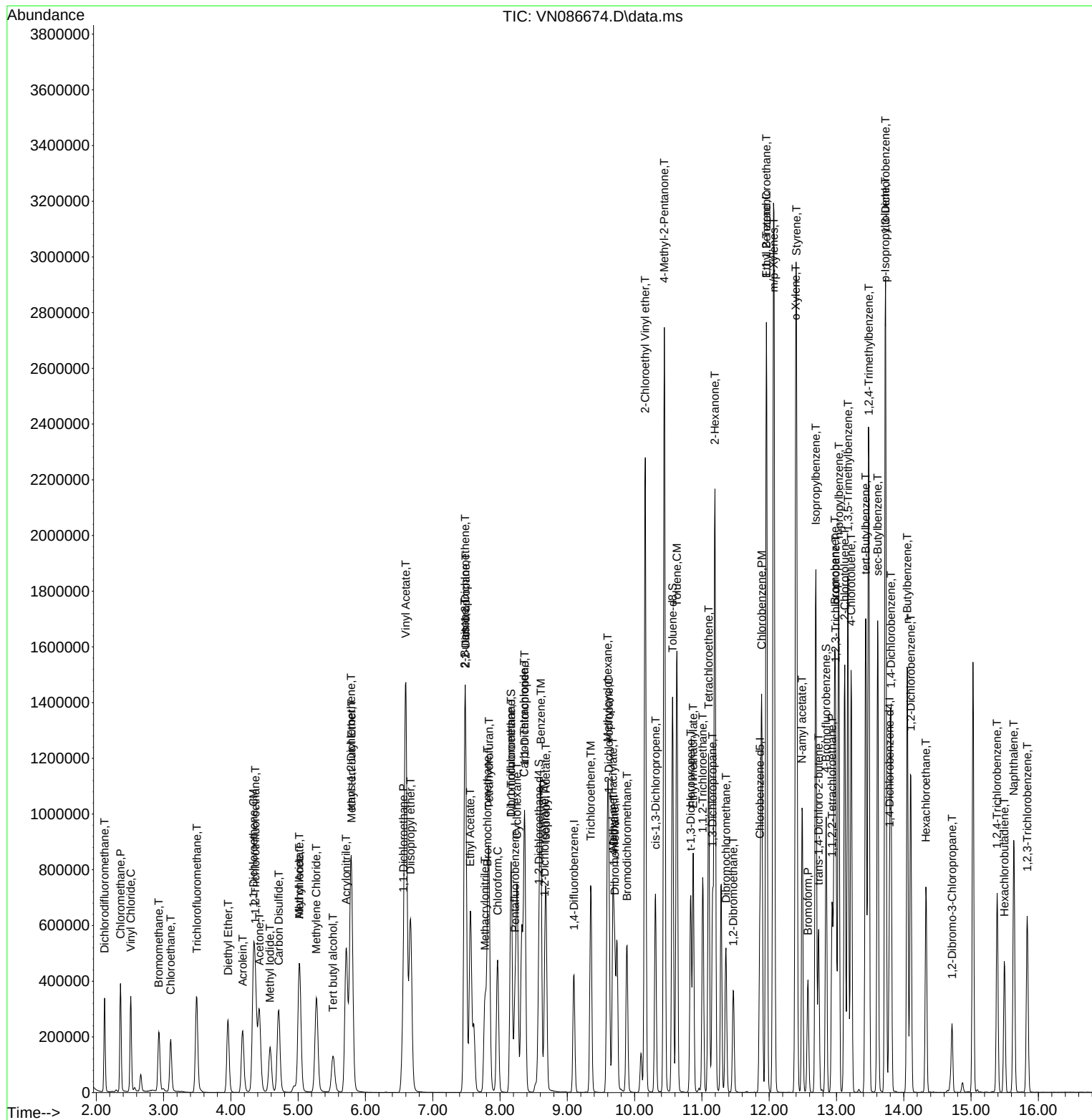

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\  
Data File : VN086674.D  
Acq On    : 16 May 2025  18:32  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 16   Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051625

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	206060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	369474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	160071	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	140264	49.261	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.520%		
35) Dibromofluoromethane	8.165	113	111929	50.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.740%		
50) Toluene-d8	10.565	98	473116	51.886	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.780%		
62) 4-Bromofluorobenzene	12.847	95	172745	53.653	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	107.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	125665	56.471	ug/l	100
3) Chloromethane	2.359	50	166521	49.474	ug/l	100
4) Vinyl Chloride	2.512	62	153716	50.852	ug/l	97
5) Bromomethane	2.948	94	85316	48.959	ug/l	94
6) Chloroethane	3.112	64	98096	49.538	ug/l	96
7) Trichlorofluoromethane	3.495	101	184202	50.991	ug/l	97
8) Diethyl Ether	3.959	74	75922	50.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	110896	51.278	ug/l	100
10) Methyl Iodide	4.589	142	139386	51.814	ug/l	98
11) Tert butyl alcohol	5.518	59	126055	243.079	ug/l	100
12) 1,1-Dichloroethene	4.342	96	114026	49.612	ug/l	99
13) Acrolein	4.171	56	131334	236.906	ug/l	100
14) Allyl chloride	5.024	41	169877	48.833	ug/l	99
15) Acrylonitrile	5.718	53	322582	251.235	ug/l	99
16) Acetone	4.424	43	253332	237.847	ug/l	96
17) Carbon Disulfide	4.712	76	325644	51.175	ug/l	99
18) Methyl Acetate	5.018	43	136726	45.864	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	392727	50.183	ug/l	98
20) Methylene Chloride	5.271	84	133075	47.346	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	120628	49.641	ug/l	98
22) Diisopropyl ether	6.665	45	398433	50.767	ug/l	98
23) Vinyl Acetate	6.600	43	1501158	254.501	ug/l	100
24) 1,1-Dichloroethane	6.565	63	228436	49.576	ug/l	100
25) 2-Butanone	7.477	43	412876	250.854	ug/l	100
26) 2,2-Dichloropropane	7.488	77	179110	47.102	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	148770	49.878	ug/l	99
28) Bromochloromethane	7.812	49	102816	49.112	ug/l	100
29) Tetrahydrofuran	7.835	42	273939	254.994	ug/l	100
30) Chloroform	7.965	83	223931	48.554	ug/l	97
31) Cyclohexane	8.253	56	202489	47.383	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	193811	49.842	ug/l	100
36) 1,1-Dichloropropene	8.371	75	166757	51.379	ug/l	100
37) Ethyl Acetate	7.559	43	164737	50.247	ug/l	99
38) Carbon Tetrachloride	8.359	117	162681	50.871	ug/l	97
39) Methylcyclohexane	9.594	83	182529	51.961	ug/l	99
40) Benzene	8.600	78	533304	50.369	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	90551	51.153	ug/l	98
42) 1,2-Dichloroethane	8.671	62	165024	50.029	ug/l	99
43) Isopropyl Acetate	8.682	43	298004	45.341	ug/l	100
44) Trichloroethene	9.347	130	129339	50.647	ug/l	98
45) 1,2-Dichloropropane	9.618	63	126955	50.475	ug/l	99
46) Dibromomethane	9.706	93	85276	50.246	ug/l	99
47) Bromodichloromethane	9.882	83	177360	50.719	ug/l	100
48) Methyl methacrylate	9.677	41	131470	51.620	ug/l	99
49) 1,4-Dioxane	9.694	88	57410	1064.544	ug/l	96
51) 4-Methyl-2-Pentanone	10.441	43	841754	253.963	ug/l	99
52) Toluene	10.624	92	338248	51.401	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	194124	52.432	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	207544	51.351	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	120996	49.290	ug/l	99
56) Ethyl methacrylate	10.871	69	211241	53.596	ug/l	99
57) 1,3-Dichloropropane	11.159	76	212276	50.196	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	477348	270.990	ug/l	100
59) 2-Hexanone	11.194	43	631633	260.961	ug/l	100
60) Dibromochloromethane	11.359	129	133981	52.080	ug/l	98
61) 1,2-Dibromoethane	11.465	107	124934	50.647	ug/l	100
64) Tetrachloroethene	11.100	164	127416	49.218	ug/l	97
65) Chlorobenzene	11.888	112	366001	49.389	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	118803	49.660	ug/l	100
67) Ethyl Benzene	11.959	91	644463	50.773	ug/l	99
68) m/p-Xylenes	12.065	106	496729	103.321	ug/l	100
69) o-Xylene	12.394	106	244673	51.191	ug/l	99
70) Styrene	12.406	104	414973	53.030	ug/l	100
71) Bromoform	12.576	173	91062	53.523	ug/l #	97
73) Isopropylbenzene	12.694	105	584704	47.295	ug/l	100
74) N-amyl acetate	12.488	43	247445	47.905	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	174276	45.885	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	166845m	46.088	ug/l	
77) Bromobenzene	12.976	156	143739	46.220	ug/l	100
78) n-propylbenzene	13.029	91	695292	49.006	ug/l	100
79) 2-Chlorotoluene	13.123	91	442834	48.004	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	484744	48.940	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	68425	47.700	ug/l	97
82) 4-Chlorotoluene	13.217	91	439811	48.122	ug/l	99
83) tert-Butylbenzene	13.435	119	410379	47.509	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	493314	50.014	ug/l	99
85) sec-Butylbenzene	13.612	105	568753	49.105	ug/l	99
86) p-Isopropyltoluene	13.723	119	482931	50.868	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	263213	48.877	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	264501	49.573	ug/l	99
89) n-Butylbenzene	14.053	91	408204	51.865	ug/l	99
90) Hexachloroethane	14.329	117	79755	50.631	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	254715	49.729	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33507	53.253	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	113245	52.378	ug/l	100
94) Hexachlorobutadiene	15.494	225	44035	49.090	ug/l	97
95) Naphthalene	15.635	128	393211	52.378	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	106918	50.497	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

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

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

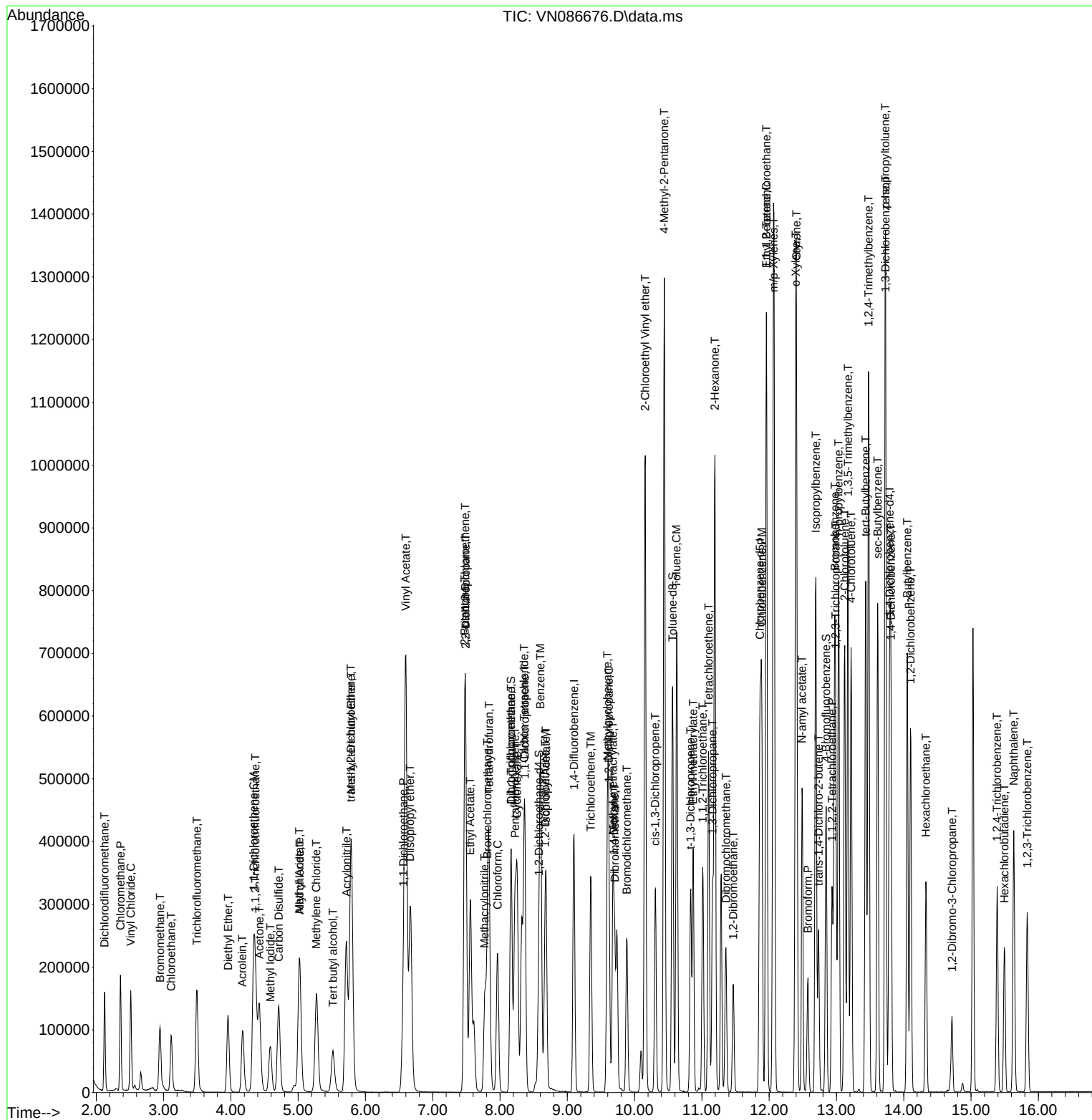
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\  
Data File : VN086676.D  
Acq On    : 16 May 2025  19:20  
Operator  : JC\MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 18   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051625

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	103	0.00
2 T	Dichlorodifluoromethane	0.540	0.610	-13.0	105	0.00
3 P	Chloromethane	0.817	0.808	1.1	106	0.00
4 C	Vinyl Chloride	0.733	0.746	-1.8#	102	0.00
5 T	Bromomethane	0.423	0.414	2.1	105	0.00
6 T	Chloroethane	0.480	0.476	0.8	105	0.00
7 T	Trichlorofluoromethane	0.877	0.894	-1.9	104	0.00
8 T	Diethyl Ether	0.362	0.368	-1.7	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.525	0.538	-2.5	105	0.00
10 T	Methyl Iodide	0.653	0.676	-3.5	107	0.00
11 T	Tert butyl alcohol	0.126	0.122	3.2	103	0.00
12 CM	1,1-Dichloroethene	0.558	0.553	0.9#	104	0.00
13 T	Acrolein	0.135	0.127	5.9	98	0.00
14 T	Allyl chloride	0.844	0.824	2.4	103	0.00
15 T	Acrylonitrile	0.312	0.313	-0.3	103	0.00
16 T	Acetone	0.258	0.246	4.7	104	0.00
17 T	Carbon Disulfide	1.544	1.580	-2.3	105	0.00
18 T	Methyl Acetate	0.723	0.664	8.2	103	0.00
19 T	Methyl tert-butyl Ether	1.899	1.906	-0.4	102	0.00
20 T	Methylene Chloride	0.682	0.646	5.3	105	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.585	0.8	104	0.00
22 T	Diisopropyl ether	1.904	1.934	-1.6	103	0.00
23 T	Vinyl Acetate	1.431	1.457	-1.8	103	0.00
24 P	1,1-Dichloroethane	1.118	1.109	0.8	103	0.00
25 T	2-Butanone	0.399	0.401	-0.5	102	0.00
26 T	2,2-Dichloropropane	0.923	0.869	5.9	100	0.00
27 T	cis-1,2-Dichloroethene	0.724	0.722	0.3	104	0.00
28 T	Bromochloromethane	0.508	0.499	1.8	101	0.00
29 T	Tetrahydrofuran	0.261	0.266	-1.9	103	0.00
30 C	Chloroform	1.119	1.087	2.9#	102	0.00
31 T	Cyclohexane	1.037	0.983	5.2	103	0.00
32 T	1,1,1-Trichloroethane	0.944	0.941	0.3	102	0.00
33 S	1,2-Dichloroethane-d4	0.691	0.681	1.4	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35 S	Dibromofluoromethane	0.298	0.303	-1.7	102	0.00
36 T	1,1-Dichloropropene	0.439	0.451	-2.7	105	0.00
37 T	Ethyl Acetate	0.444	0.446	-0.5	103	0.00
38 T	Carbon Tetrachloride	0.433	0.440	-1.6	103	0.00
39 T	Methylcyclohexane	0.475	0.494	-4.0	103	0.00
40 TM	Benzene	1.433	1.443	-0.7	104	0.00
41 T	Methacrylonitrile	0.240	0.245	-2.1	103	0.00
42 TM	1,2-Dichloroethane	0.446	0.447	-0.2	103	0.00
43 T	Isopropyl Acetate	0.889	0.807	9.2	106	0.00
44 TM	Trichloroethene	0.346	0.350	-1.2	103	0.00
45 C	1,2-Dichloropropane	0.340	0.344	-1.2#	103	0.00
46 T	Dibromomethane	0.230	0.231	-0.4	102	0.00
47 T	Bromodichloromethane	0.473	0.480	-1.5	103	0.00
48 T	Methyl methacrylate	0.345	0.356	-3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN051625

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	0.007	0.008	-14.3	105	0.00
50 S	Toluene-d8	1.234	1.281	-3.8	103	0.00
51 T	4-Methyl-2-Pentanone	0.449	0.456	-1.6	102	0.00
52 CM	Toluene	0.891	0.915	-2.7#	104	0.00
53 T	t-1,3-Dichloropropene	0.501	0.525	-4.8	103	0.00
54 T	cis-1,3-Dichloropropene	0.547	0.562	-2.7	104	0.00
55 T	1,1,2-Trichloroethane	0.332	0.327	1.5	103	0.00
56 T	Ethyl methacrylate	0.533	0.572	-7.3	103	0.00
57 T	1,3-Dichloropropane	0.572	0.575	-0.5	103	0.00
58 T	2-Chloroethyl Vinyl ether	0.238	0.258	-8.4	101	0.00
59 T	2-Hexanone	0.328	0.342	-4.3	104	0.00
60 T	Dibromochloromethane	0.348	0.363	-4.3	105	0.00
61 T	1,2-Dibromoethane	0.334	0.338	-1.2	102	0.00
62 S	4-Bromofluorobenzene	0.436	0.468	-7.3	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.383	0.377	1.6	104	0.00
65 PM	Chlorobenzene	1.096	1.083	1.2	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.352	0.6	102	0.00
67 C	Ethyl Benzene	1.878	1.907	-1.5#	104	0.00
68 T	m/p-Xylenes	0.711	0.735	-3.4	104	0.00
69 T	o-Xylene	0.707	0.724	-2.4	102	0.00
70 T	Styrene	1.158	1.228	-6.0	104	0.00
71 P	Bromoform	0.252	0.269	-6.7	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.862	3.653	5.4	104	0.00
74 T	N-amyl acetate	1.613	1.546	4.2	103	0.00
75 P	1,1,2,2-Tetrachloroethane	1.186	1.089	8.2	104	0.00
76 T	1,2,3-Trichloropropane	1.131	1.042	7.9	101	0.00
77 T	Bromobenzene	0.971	0.898	7.5	103	0.00
78 T	n-propylbenzene	4.432	4.344	2.0	104	0.00
79 T	2-Chlorotoluene	2.882	2.766	4.0	104	0.00
80 T	1,3,5-Trimethylbenzene	3.094	3.028	2.1	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.448	0.427	4.7	95	0.00
82 T	4-Chlorotoluene	2.855	2.748	3.7	104	0.00
83 T	tert-Butylbenzene	2.698	2.564	5.0	103	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.082	-0.0	104	0.00
85 T	sec-Butylbenzene	3.618	3.553	1.8	103	0.00
86 T	p-Isopropyltoluene	2.965	3.017	-1.8	104	0.00
87 T	1,3-Dichlorobenzene	1.682	1.644	2.3	103	0.00
88 T	1,4-Dichlorobenzene	1.667	1.652	0.9	105	0.00
89 T	n-Butylbenzene	2.458	2.550	-3.7	105	0.00
90 T	Hexachloroethane	0.492	0.498	-1.2	105	0.00
91 T	1,2-Dichlorobenzene	1.600	1.591	0.6	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.197	0.209	-6.1	105	0.00
93 T	1,2,4-Trichlorobenzene	0.675	0.707	-4.7	103	0.00
94 T	Hexachlorobutadiene	0.280	0.275	1.8	105	0.00
95 T	Naphthalene	2.345	2.456	-4.7	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 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	0.661	0.668	-1.1	103	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051625

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	103	0.00
2 T	Dichlorodifluoromethane	50.000	56.471	-12.9	105	0.00
3 P	Chloromethane	50.000	49.474	1.1	106	0.00
4 C	Vinyl Chloride	50.000	50.852	-1.7#	102	0.00
5 T	Bromomethane	50.000	48.959	2.1	105	0.00
6 T	Chloroethane	50.000	49.538	0.9	105	0.00
7 T	Trichlorofluoromethane	50.000	50.991	-2.0	104	0.00
8 T	Diethyl Ether	50.000	50.875	-1.8	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.278	-2.6	105	0.00
10 T	Methyl Iodide	50.000	51.814	-3.6	107	0.00
11 T	Tert butyl alcohol	250.000	243.079	2.8	103	0.00
12 CM	1,1-Dichloroethene	50.000	49.612	0.8#	104	0.00
13 T	Acrolein	250.000	236.906	5.2	98	0.00
14 T	Allyl chloride	50.000	48.833	2.3	103	0.00
15 T	Acrylonitrile	250.000	251.235	-0.5	103	0.00
16 T	Acetone	250.000	237.847	4.9	104	0.00
17 T	Carbon Disulfide	50.000	51.175	-2.3	105	0.00
18 T	Methyl Acetate	50.000	45.864	8.3	103	0.00
19 T	Methyl tert-butyl Ether	50.000	50.183	-0.4	102	0.00
20 T	Methylene Chloride	50.000	47.346	5.3	105	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.641	0.7	104	0.00
22 T	Diisopropyl ether	50.000	50.767	-1.5	103	0.00
23 T	Vinyl Acetate	250.000	254.501	-1.8	103	0.00
24 P	1,1-Dichloroethane	50.000	49.576	0.8	103	0.00
25 T	2-Butanone	250.000	250.854	-0.3	102	0.00
26 T	2,2-Dichloropropane	50.000	47.102	5.8	100	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.878	0.2	104	0.00
28 T	Bromochloromethane	50.000	49.112	1.8	101	0.00
29 T	Tetrahydrofuran	250.000	254.994	-2.0	103	0.00
30 C	Chloroform	50.000	48.554	2.9#	102	0.00
31 T	Cyclohexane	50.000	47.383	5.2	103	0.00
32 T	1,1,1-Trichloroethane	50.000	49.842	0.3	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.261	1.5	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35 S	Dibromofluoromethane	50.000	50.868	-1.7	102	0.00
36 T	1,1-Dichloropropene	50.000	51.379	-2.8	105	0.00
37 T	Ethyl Acetate	50.000	50.247	-0.5	103	0.00
38 T	Carbon Tetrachloride	50.000	50.871	-1.7	103	0.00
39 T	Methylcyclohexane	50.000	51.961	-3.9	103	0.00
40 TM	Benzene	50.000	50.369	-0.7	104	0.00
41 T	Methacrylonitrile	50.000	51.153	-2.3	103	0.00
42 TM	1,2-Dichloroethane	50.000	50.029	-0.1	103	0.00
43 T	Isopropyl Acetate	50.000	45.341	9.3	106	0.00
44 TM	Trichloroethene	50.000	50.647	-1.3	103	0.00
45 C	1,2-Dichloropropane	50.000	50.475	-1.0#	103	0.00
46 T	Dibromomethane	50.000	50.246	-0.5	102	0.00
47 T	Bromodichloromethane	50.000	50.719	-1.4	103	0.00
48 T	Methyl methacrylate	50.000	51.620	-3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086676.D
 Acq On : 16 May 2025 19:20
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN051625

Quant Time: May 17 00:49:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	1064.544	-6.5	105	0.00
50 S	Toluene-d8	50.000	51.886	-3.8	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	253.963	-1.6	102	0.00
52 CM	Toluene	50.000	51.401	-2.8#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	52.432	-4.9	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.351	-2.7	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.290	1.4	103	0.00
56 T	Ethyl methacrylate	50.000	53.596	-7.2	103	0.00
57 T	1,3-Dichloropropane	50.000	50.196	-0.4	103	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	270.990	-8.4	101	0.00
59 T	2-Hexanone	250.000	260.961	-4.4	104	0.00
60 T	Dibromochloromethane	50.000	52.080	-4.2	105	0.00
61 T	1,2-Dibromoethane	50.000	50.647	-1.3	102	0.00
62 S	4-Bromofluorobenzene	50.000	53.653	-7.3	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	49.218	1.6	104	0.00
65 PM	Chlorobenzene	50.000	49.389	1.2	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.660	0.7	102	0.00
67 C	Ethyl Benzene	50.000	50.773	-1.5#	104	0.00
68 T	m/p-Xylenes	100.000	103.321	-3.3	104	0.00
69 T	o-Xylene	50.000	51.191	-2.4	102	0.00
70 T	Styrene	50.000	53.030	-6.1	104	0.00
71 P	Bromoform	50.000	53.523	-7.0	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	47.295	5.4	104	0.00
74 T	N-amyl acetate	50.000	47.905	4.2	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.885	8.2	104	0.00
76 T	1,2,3-Trichloropropane	50.000	46.088	7.8	101	0.00
77 T	Bromobenzene	50.000	46.220	7.6	103	0.00
78 T	n-propylbenzene	50.000	49.006	2.0	104	0.00
79 T	2-Chlorotoluene	50.000	48.004	4.0	104	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.940	2.1	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.700	4.6	95	0.00
82 T	4-Chlorotoluene	50.000	48.122	3.8	104	0.00
83 T	tert-Butylbenzene	50.000	47.509	5.0	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.014	-0.0	104	0.00
85 T	sec-Butylbenzene	50.000	49.105	1.8	103	0.00
86 T	p-Isopropyltoluene	50.000	50.868	-1.7	104	0.00
87 T	1,3-Dichlorobenzene	50.000	48.877	2.2	103	0.00
88 T	1,4-Dichlorobenzene	50.000	49.573	0.9	105	0.00
89 T	n-Butylbenzene	50.000	51.865	-3.7	105	0.00
90 T	Hexachloroethane	50.000	50.631	-1.3	105	0.00
91 T	1,2-Dichlorobenzene	50.000	49.729	0.5	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.253	-6.5	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.378	-4.8	103	0.00
94 T	Hexachlorobutadiene	50.000	49.090	1.8	105	0.00
95 T	Naphthalene	50.000	52.378	-4.8	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 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	50.497	-1.0	103	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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF020 = VX046041.D			RRF050 = VX046042.D		RRF100 = VX046043.D		
	RRF150 = VX046044.D			RRF005 = VX046046.D		RRF001 = VX046047.D		
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.697	0.864	0.859	0.875	0.639	0.658	0.765	14.6
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methyl Acetate	0.814	0.848	0.845	0.875	0.816	1.006	0.867	8.3
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
Cyclohexane	1.090	1.128	1.128	1.150	1.059		1.111	3.3
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Bromochloromethane	0.628	0.578	0.595	0.590	0.553	0.576	0.587	4.3
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5

* 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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF020 = VX046041.D		RRF050 = VX046042.D		RRF100 = VX046043.D		RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D	
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD				
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9				
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6				
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3				
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7				
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3				
1,2-Dibromoethane	0.359	0.373	0.368	0.381	0.333	0.322	0.356	6.5				
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8				
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7				
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2				
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2				
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7				
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6				
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2				
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7				
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7				
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7				
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6				
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3				
1,2-Dibromo-3-Chloropropane	0.299	0.322	0.329	0.356	0.248	0.259	0.302	13.9				
1,2,4-Trichlorobenzene	0.861	0.981	1.035	1.123	0.842	0.862	0.951	12				
1,2,3-Trichlorobenzene	0.921	1.019	1.051	1.107	0.846	0.941	0.981	9.7				
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6				
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7				
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2				
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4				

* 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_X\Method\
 Method File : 82X050525W.M
 Title : SW846 8260
 Last Update : Tue May 06 07:12:22 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX046047.D 5 =VX046046.D 20 =VX046041.D 50 =VX046042.D 100 =VX046043.D 150 =VX046044.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.658	0.639	0.697	0.864	0.859	0.875	0.765	14.62
3) P	Chloromethane	0.694	0.679	0.727	0.775	0.787	0.791	0.742	6.58
4) C	Vinyl Chloride	0.673	0.619	0.660	0.710	0.727	0.755	0.691	7.17#
5) T	Bromomethane		0.305	0.296	0.326	0.340	0.334	0.320	5.84
6) T	Chloroethane	0.467	0.368	0.354	0.378	0.329	0.317	0.369	14.44
7) T	Trichlorofluor...	1.064	0.990	1.035	1.068	0.983	0.985	1.021	3.92
8) T	Diethyl Ether	0.403	0.311	0.340	0.337	0.338	0.355	0.347	8.83
9) T	1,1,2-Trichlor...	0.633	0.610	0.628	0.641	0.629	0.648	0.632	2.10
10) T	Methyl Iodide		0.608	0.767	0.806	0.793	0.763	0.747	10.68
11) T	Tert butyl alc...		0.114	0.122	0.129	0.144	0.146	0.131	10.45
12) CM	1,1-Dichloroet...	0.594	0.567	0.565	0.601	0.607	0.625	0.593	3.94#
13) T	Acrolein		0.117	0.158	0.152	0.154	0.163	0.149	12.33
14) T	Allyl chloride	1.052	1.058	1.127	1.179	1.187	1.196	1.133	5.75
15) T	Acrylonitrile	0.363	0.345	0.378	0.388	0.381	0.390	0.374	4.52
16) T	Acetone	0.380	0.408	0.361	0.362	0.361	0.370	0.374	4.90
17) T	Carbon Disulfide	1.423	1.141	1.295	1.455	1.522	1.597	1.406	11.68
18) T	Methyl Acetate	1.006	0.816	0.814	0.848	0.845	0.875	0.867	8.27
19) T	Methyl tert-bu...	1.949	1.908	2.044	2.160	2.172	2.239	2.079	6.39
20) T	Methylene Chlo...	0.853	0.689	0.689	0.684	0.691	0.691	0.716	9.39
21) T	trans-1,2-Dich...	0.604	0.557	0.573	0.610	0.612	0.622	0.596	4.27
22) T	Diisopropyl ether	2.095	1.924	2.219	2.278	2.295	2.321	2.189	6.97
23) T	Vinyl Acetate	1.660	1.698	1.928	2.048	2.082	2.134	1.925	10.52
24) P	1,1-Dichloroet...	1.116	1.154	1.233	1.263	1.263	1.286	1.219	5.60
25) T	2-Butanone	0.495	0.539	0.540	0.555	0.558	0.569	0.543	4.77
26) T	2,2-Dichloropr...	0.965	0.850	0.910	0.957	1.003	1.039	0.954	7.03
27) T	cis-1,2-Dichlo...	0.719	0.642	0.716	0.737	0.738	0.755	0.718	5.55
28) T	Bromochloromet...	0.576	0.553	0.628	0.578	0.595	0.590	0.587	4.28
29) T	Tetrahydrofuran	0.318	0.318	0.340	0.350	0.351	0.362	0.340	5.36
30) C	Chloroform	1.265	1.199	1.287	1.296	1.277	1.300	1.271	2.95#
31) T	Cyclohexane		1.059	1.090	1.128	1.128	1.150	1.111	3.26
32) T	1,1,1-Trichlor...	1.015	1.013	1.106	1.131	1.155	1.188	1.101	6.60
33) S	1,2-Dichloroet...		0.935	0.953	0.910	0.930	0.932	0.932	1.65
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.354	0.359	0.355	0.364	0.368	0.360	1.70
36) T	1,1-Dichloropr...	0.493	0.462	0.463	0.495	0.483	0.505	0.484	3.68
37) T	Ethyl Acetate	0.586	0.582	0.569	0.611	0.609	0.631	0.598	3.83
38) T	Carbon Tetrach...	0.541	0.505	0.528	0.558	0.552	0.577	0.544	4.61
39) T	Methylcyclohexane	0.627	0.587	0.596	0.641	0.627	0.658	0.623	4.34
40) TM	Benzene	1.348	1.337	1.426	1.474	1.441	1.477	1.417	4.30
41) T	Methacrylonitrile	0.233	0.288	0.318	0.346	0.343	0.348	0.313	14.50
42) TM	1,2-Dichloroet...	0.579	0.594	0.632	0.627	0.611	0.625	0.612	3.45
43) T	Isopropyl Acetate	0.764	0.826	0.905	0.963	0.982	1.030	0.912	11.05
44) TM	Trichloroethene	0.324	0.315	0.344	0.355	0.345	0.362	0.341	5.28
45) C	1,2-Dichloropr...	0.317	0.324	0.356	0.371	0.368	0.378	0.352	7.37#
46) T	Dibromomethane	0.263	0.262	0.285	0.287	0.280	0.289	0.278	4.35
47) T	Bromodichlorom...	0.485	0.498	0.557	0.577	0.573	0.594	0.547	8.22
48) T	Methyl methacr...	0.370	0.426	0.465	0.502	0.500	0.531	0.466	12.75
49) T	1,4-Dioxane	0.007	0.009	0.009	0.009	0.009	0.010	0.009	8.45
50) S	Toluene-d8		1.221	1.246	1.223	1.266	1.275	1.246	1.95
51) T	4-Methyl-2-Pen...	0.561	0.555	0.620	0.634	0.630	0.631	0.605	6.04
52) CM	Toluene	0.803	0.838	0.884	0.898	0.885	0.904	0.869	4.54#
53) T	t-1,3-Dichloro...	0.371	0.406	0.468	0.528	0.555	0.591	0.487	17.86
54) T	cis-1,3-Dichlo...	0.423	0.469	0.531	0.578	0.602	0.623	0.538	14.61
55) T	1,1,2-Trichlor...	0.308	0.337	0.349	0.354	0.351	0.356	0.343	5.30
56) T	Ethyl methacry...	0.377	0.508	0.540	0.595	0.617	0.639	0.546	17.58

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X050525W.M

57)	T	1,3-Dichloropr...	0.610	0.601	0.618	0.623	0.613	0.627	0.615	1.53
58)	T	2-Chloroethyl ...	0.230	0.247	0.270	0.307	0.303	0.313	0.278	12.41
59)	T	2-Hexanone	0.385	0.414	0.466	0.473	0.477	0.473	0.448	8.69
60)	T	Dibromochlorom...	0.306	0.326	0.378	0.400	0.415	0.431	0.376	13.28
61)	T	1,2-Dibromoethane	0.322	0.333	0.359	0.373	0.368	0.381	0.356	6.54
62)	S	4-Bromofluorob...		0.464	0.455	0.470	0.500	0.500	0.478	4.41
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.347	0.323	0.390	0.375	0.345	0.344	0.354	6.84
65)	PM	Chlorobenzene	1.131	1.046	1.093	1.098	1.085	1.114	1.094	2.65
66)	T	1,1,1,2-Tetrac...	0.369	0.341	0.365	0.390	0.382	0.395	0.374	5.22
67)	C	Ethyl Benzene	1.803	1.816	1.919	2.022	1.979	2.036	1.929	5.24#
68)	T	m/p-Xylenes	0.648	0.678	0.706	0.740	0.721	0.740	0.706	5.21
69)	T	o-Xylene	0.642	0.639	0.688	0.727	0.706	0.726	0.688	5.75
70)	T	Styrene	0.951	1.012	1.135	1.219	1.214	1.230	1.127	10.56
71)	P	Bromoform	0.234	0.236	0.270	0.304	0.312	0.327	0.281	14.17
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.789	3.562	3.843	4.130	3.876	4.156	3.893	5.72
74)	T	N-amyl acetate	1.715	1.652	1.846	2.067	2.068	2.192	1.924	11.32
75)	P	1,1,2,2-Tetrac...	1.552	1.350	1.315	1.338	1.284	1.345	1.364	6.97
76)	T	1,2,3-Trichlor...	1.405	1.167	1.151	1.187	1.131	1.181	1.204	8.36
77)	T	Bromobenzene	0.926	0.862	0.896	0.928	0.883	0.928	0.904	3.08
78)	T	n-propylbenzene	4.272	4.186	4.394	4.854	4.583	4.868	4.526	6.45
79)	T	2-Chlorotoluene	3.184	2.748	2.832	2.994	2.805	2.953	2.919	5.45
80)	T	1,3,5-Trimethy...	3.036	3.053	3.275	3.487	3.255	3.405	3.252	5.60
81)	T	trans-1,4-Dich...		0.269	0.335	0.385	0.410	0.449	0.370	18.91
82)	T	4-Chlorotoluene	3.226	2.939	3.196	3.430	3.255	3.379	3.238	5.32
83)	T	tert-Butylbenzene	3.341	3.098	3.115	3.435	3.255	3.411	3.276	4.44
84)	T	1,2,4-Trimethy...	3.150	3.034	3.274	3.522	3.335	3.444	3.293	5.52
85)	T	sec-Butylbenzene	3.708	3.767	3.937	4.282	4.095	4.343	4.022	6.55
86)	T	p-Isopropyltol...	3.025	3.084	3.206	3.555	3.450	3.599	3.320	7.44
87)	T	1,3-Dichlorobe...	1.619	1.558	1.633	1.701	1.656	1.729	1.649	3.71
88)	T	1,4-Dichlorobe...	1.817	1.606	1.629	1.693	1.639	1.722	1.684	4.64
89)	T	n-Butylbenzene	2.443	2.650	2.748	3.147	3.139	3.346	2.912	12.00
90)	T	Hexachloroethane	0.511	0.523	0.551	0.622	0.622	0.680	0.585	11.44
91)	T	1,2-Dichlorobe...	1.710	1.577	1.613	1.696	1.634	1.702	1.655	3.34
92)	T	1,2-Dibromo-3-...	0.259	0.248	0.299	0.322	0.329	0.356	0.302	13.89
93)	T	1,2,4-Trichlor...	0.862	0.842	0.861	0.981	1.035	1.123	0.951	12.03
94)	T	Hexachlorobuta...	0.393	0.414	0.394	0.427	0.418	0.445	0.415	4.79
95)	T	Naphthalene	3.499	2.929	3.204	3.613	3.690	3.984	3.487	10.69
96)	T	1,2,3-Trichlor...	0.941	0.846	0.921	1.019	1.051	1.107	0.981	9.74

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046041.D
 Acq On : 05 May 2025 11:35
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	83671	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147096	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	127829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60503	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	31909	12.820	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	25.640%#		
35) Dibromofluoromethane	5.385	113	21112	12.804	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	25.600%#		
50) Toluene-d8	8.646	98	73333	13.200	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	26.400%#		
62) 4-Bromofluorobenzene	11.079	95	26760	13.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	26.480%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	23341	12.638	ug/l	96
3) Chloromethane	1.306	50	24316	13.371	ug/l	98
4) Vinyl Chloride	1.373	62	22096	13.868	ug/l	94
5) Bromomethane	1.593	94	9920	12.279	ug/l	93
6) Chloroethane	1.666	64	11832	14.414	ug/l	95
7) Trichlorofluoromethane	1.873	101	34636	14.271	ug/l	100
8) Diethyl Ether	2.129	74	11392	14.278	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.324	101	21027	14.499	ug/l	98
10) Methyl Iodide	2.446	142	25661	15.070	ug/l	99
11) Tert butyl alcohol	2.971	59	20370	68.662	ug/l	97
12) 1,1-Dichloroethene	2.312	96	18899	13.385	ug/l	98
13) Acrolein	2.233	56	26427	76.689	ug/l	95
14) Allyl chloride	2.660	41	37708	14.133	ug/l	99
15) Acrylonitrile	3.062	53	63290	71.312	ug/l	98
16) Acetone	2.379	43	60363	70.884	ug/l	99
17) Carbon Disulfide	2.501	76	43348	13.251	ug/l	100
18) Methyl Acetate	2.702	43	27234	13.397	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	68402	13.890	ug/l	100
20) Methylene Chloride	2.782	84	23050	13.362	ug/l	96
21) trans-1,2-Dichloroethene	3.086	96	19161	13.294	ug/l	96
22) Diisopropyl ether	3.763	45	74257	14.896	ug/l	95
23) Vinyl Acetate	3.720	43	322598	73.230	ug/l	100
24) 1,1-Dichloroethane	3.605	63	41257	14.082	ug/l	98
25) 2-Butanone	4.556	43	90331	73.489	ug/l	98
26) 2,2-Dichloropropane	4.470	77	30472	13.729	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	23970	13.791	ug/l	98
28) Bromochloromethane	4.897	49	21028	13.497	ug/l	99
29) Tetrahydrofuran	5.007	42	56819	71.175	ug/l	100
30) Chloroform	5.086	83	43065	14.144	ug/l	95
31) Cyclohexane	5.458	56	36470	14.769	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	37003	14.092	ug/l	98
36) 1,1-Dichloropropene	5.684	75	27242	14.231	ug/l	98
37) Ethyl Acetate	4.720	43	33458	13.931	ug/l	98
38) Carbon Tetrachloride	5.671	117	31091	14.137	ug/l	98
39) Methylcyclohexane	7.372	83	35077	14.623	ug/l	99
40) Benzene	6.031	78	83898	14.140	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046041.D
 Acq On : 05 May 2025 11:35
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.915	41	18732	14.038	ug/l	95
42) 1,2-Dichloroethane	6.080	62	37203	15.165	ug/l	100
43) Isopropyl Acetate	6.342	43	53275	14.512	ug/l	99
44) Trichloroethene	7.116	130	20239	14.429	ug/l	99
45) 1,2-Dichloropropane	7.427	63	20940	14.204	ug/l	98
46) Dibromomethane	7.580	93	16781	14.439	ug/l	99
47) Bromodichloromethane	7.817	83	32762	14.545	ug/l	94
48) Methyl methacrylate	7.689	41	27374	14.521	ug/l	100
49) 1,4-Dioxane	7.659	88	10585	282.442	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	182455	75.775	ug/l	98
52) Toluene	8.713	92	52030	14.788	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	27549	14.566	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	31226	14.154	ug/l	98
55) 1,1,2-Trichloroethane	9.152	97	20536	14.442	ug/l	96
56) Ethyl methacrylate	9.116	69	31787	14.425	ug/l	98
57) 1,3-Dichloropropane	9.305	76	36341	14.417	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	79531	80.312	ug/l	100
59) 2-Hexanone	9.427	43	137054	74.997	ug/l	99
60) Dibromochloromethane	9.518	129	22267	14.387	ug/l	99
61) 1,2-Dibromoethane	9.610	107	21113	14.458	ug/l	96
64) Tetrachloroethene	9.268	164	19924	15.263	ug/l	97
65) Chlorobenzene	10.079	112	55863	14.202	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.158	131	18671	14.231	ug/l	98
67) Ethyl Benzene	10.189	91	98113	14.631	ug/l	100
68) m/p-Xylenes	10.299	106	72202	29.806	ug/l	99
69) o-Xylene	10.640	106	35178	14.408	ug/l	96
70) Styrene	10.652	104	58034	14.853	ug/l	98
71) Bromoform	10.799	173	13825	14.030	ug/l #	100
73) Isopropylbenzene	10.957	105	93013	14.096	ug/l	99
74) N-amyl acetate	10.841	43	44684	13.581	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	31830	13.560	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	27845m	11.039	ug/l	
77) Bromobenzene	11.195	156	21695	14.212	ug/l	96
78) n-propylbenzene	11.298	91	106337	14.376	ug/l	99
79) 2-Chlorotoluene	11.359	91	68534	13.748	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	79261	14.468	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	8104	13.371	ug/l	91
82) 4-Chlorotoluene	11.451	91	77338	14.116	ug/l	100
83) tert-Butylbenzene	11.713	119	75382	14.011	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	79232	14.480	ug/l	99
85) sec-Butylbenzene	11.890	105	95271	14.263	ug/l	100
86) p-Isopropyltoluene	12.006	119	77599	14.387	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	39520	13.898	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	39419	14.146	ug/l	99
89) n-Butylbenzene	12.329	91	66506	14.184	ug/l	99
90) Hexachloroethane	12.536	117	13332	13.287	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	39031	14.092	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.938	75	7232	13.535	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	20846	13.745	ug/l	99
94) Hexachlorobutadiene	13.725	225	9524	13.426	ug/l	97
95) Naphthalene	13.774	128	77542	14.040	ug/l	99
96) 1,2,3-Trichlorobenzene	13.956	180	22301	14.023	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046042.D
 Acq On : 05 May 2025 11:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	97076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167947	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88371	30.601	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	61.200%#		
35) Dibromofluoromethane	5.379	113	59550	31.633	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	63.260%#		
50) Toluene-d8	8.647	98	205479	32.395	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	64.780%#		
62) 4-Bromofluorobenzene	11.079	95	79012	34.229	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	68.460%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	83826	39.120	ug/l	100
3) Chloromethane	1.307	50	75238	35.658	ug/l	100
4) Vinyl Chloride	1.374	62	68901	37.273	ug/l	100
5) Bromomethane	1.593	94	31648	33.765	ug/l	100
6) Chloroethane	1.666	64	36722	38.558	ug/l	100
7) Trichlorofluoromethane	1.874	101	103693	36.824	ug/l	100
8) Diethyl Ether	2.136	74	32724	35.350	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	62251	36.997	ug/l	100
10) Methyl Iodide	2.447	142	78277	39.622	ug/l	100
11) Tert butyl alcohol	2.977	59	62557	181.745	ug/l	100
12) 1,1-Dichloroethene	2.313	96	58334	35.610	ug/l	100
13) Acrolein	2.233	56	73927	184.907	ug/l	100
14) Allyl chloride	2.654	41	114445	36.971	ug/l	100
15) Acrylonitrile	3.062	53	188304	182.874	ug/l	100
16) Acetone	2.386	43	175777	177.910	ug/l	100
17) Carbon Disulfide	2.502	76	141281	37.223	ug/l	100
18) Methyl Acetate	2.703	43	82347	34.915	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	209665	36.695	ug/l	100
20) Methylene Chloride	2.782	84	66412	33.182	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59234	35.421	ug/l	100
22) Diisopropyl ether	3.757	45	221172	38.241	ug/l	100
23) Vinyl Acetate	3.721	43	994236	194.528	ug/l	100
24) 1,1-Dichloroethane	3.605	63	122601	36.067	ug/l	100
25) 2-Butanone	4.556	43	269224	188.783	ug/l	100
26) 2,2-Dichloropropane	4.465	77	92857	36.059	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71518	35.466	ug/l	100
28) Bromochloromethane	4.898	49	56091	31.031	ug/l	100
29) Tetrahydrofuran	5.001	42	170124	183.679	ug/l	100
30) Chloroform	5.087	83	125850	35.626	ug/l	100
31) Cyclohexane	5.464	56	109459	38.205	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	109781	36.034	ug/l	100
36) 1,1-Dichloropropene	5.684	75	83215	38.073	ug/l	100
37) Ethyl Acetate	4.715	43	102537	37.394	ug/l	100
38) Carbon Tetrachloride	5.672	117	93712	37.320	ug/l	100
39) Methylcyclohexane	7.373	83	107651	39.307	ug/l	100
40) Benzene	6.031	78	247476	36.530	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046042.D
 Acq On : 05 May 2025 11:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	58082	38.123	ug/l	100
42) 1,2-Dichloroethane	6.080	62	105332	37.605	ug/l	100
43) Isopropyl Acetate	6.336	43	161787	38.598	ug/l	100
44) Trichloroethene	7.123	130	59623	37.230	ug/l	100
45) 1,2-Dichloropropane	7.428	63	62387	37.064	ug/l	100
46) Dibromomethane	7.574	93	48201	36.326	ug/l	100
47) Bromodichloromethane	7.818	83	96916	37.685	ug/l	100
48) Methyl methacrylate	7.690	41	84277	39.157	ug/l	100
49) 1,4-Dioxane	7.659	88	30529	713.477	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	532388	193.653	ug/l	100
52) Toluene	8.714	92	150757	37.530	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	88655	41.056	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	97031	38.521	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	59499	36.648	ug/l	100
56) Ethyl methacrylate	9.116	69	99947	39.726	ug/l	100
57) 1,3-Dichloropropane	9.305	76	104606	36.347	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	257678	227.902	ug/l	100
59) 2-Hexanone	9.427	43	396784	190.168	ug/l	100
60) Dibromochloromethane	9.519	129	67198	38.027	ug/l	100
61) 1,2-Dibromoethane	9.604	107	62633	37.567	ug/l	100
64) Tetrachloroethene	9.269	164	54853	36.726	ug/l	100
65) Chlorobenzene	10.079	112	160600	35.686	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57066	38.017	ug/l	100
67) Ethyl Benzene	10.189	91	295712	38.543	ug/l	100
68) m/p-Xylenes	10.299	106	216578	78.142	ug/l	100
69) o-Xylene	10.640	106	106335	38.064	ug/l	100
70) Styrene	10.653	104	178313	39.888	ug/l	100
71) Bromoform	10.799	173	44486	39.457	ug/l #	100
73) Isopropylbenzene	10.957	105	280719	37.865	ug/l	100
74) N-amyl acetate	10.842	43	140509	38.012	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	90975	34.495	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	80678m	28.468	ug/l	
77) Bromobenzene	11.195	156	63053	36.763	ug/l	100
78) n-propylbenzene	11.299	91	329981	39.707	ug/l	100
79) 2-Chlorotoluene	11.360	91	203509	36.336	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	237066	38.516	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	26179	38.445	ug/l	100
82) 4-Chlorotoluene	11.451	91	233172	37.880	ug/l	100
83) tert-Butylbenzene	11.713	119	233468	38.622	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	239433	38.946	ug/l	100
85) sec-Butylbenzene	11.890	105	291074	38.786	ug/l	100
86) p-Isopropyltoluene	12.006	119	241658	39.879	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	115651	36.199	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	115097	36.763	ug/l	100
89) n-Butylbenzene	12.329	91	213899	40.603	ug/l	100
90) Hexachloroethane	12.536	117	42314	37.534	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	115286	37.047	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21909	36.496	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	66655	39.117	ug/l	100
94) Hexachlorobutadiene	13.725	225	29007	36.395	ug/l	100
95) Naphthalene	13.774	128	245568	39.575	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	69262	38.765	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046043.D
 Acq On : 05 May 2025 12:21
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	87028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152958	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135214	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	161877	62.526	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 125.060%#			
35) Dibromofluoromethane	5.379	113	111455	65.006	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 130.020%#			
50) Toluene-d8	8.647	98	387230	67.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 134.060%#			
62) 4-Bromofluorobenzene	11.079	95	153085	72.818	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 145.640%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	149508	77.828	ug/l	99
3) Chloromethane	1.307	50	136937	72.392	ug/l	98
4) Vinyl Chloride	1.374	62	126609	76.398	ug/l	98
5) Bromomethane	1.593	94	59246	70.507	ug/l	99
6) Chloroethane	1.660	64	57332	67.148	ug/l	99
7) Trichlorofluoromethane	1.867	101	171042	67.754	ug/l	99
8) Diethyl Ether	2.136	74	58762	70.807	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	109520	72.604	ug/l	99
10) Methyl Iodide	2.440	142	138045	77.943	ug/l	100
11) Tert butyl alcohol	2.995	59	125094	405.394	ug/l	100
12) 1,1-Dichloroethene	2.306	96	105566	71.884	ug/l	96
13) Acrolein	2.239	56	134456	375.132	ug/l	99
14) Allyl chloride	2.660	41	206519	74.419	ug/l	98
15) Acrylonitrile	3.068	53	331142	358.723	ug/l	97
16) Acetone	2.386	43	314383	354.936	ug/l	98
17) Carbon Disulfide	2.501	76	264956	77.867	ug/l	100
18) Methyl Acetate	2.703	43	147014	69.531	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	378113	73.818	ug/l	100
20) Methylene Chloride	2.782	84	120270	67.030	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	106606	71.109	ug/l	99
22) Diisopropyl ether	3.763	45	399494	77.048	ug/l	90
23) Vinyl Acetate	3.721	43	1811550	395.363	ug/l	100
24) 1,1-Dichloroethane	3.605	63	219759	72.114	ug/l	99
25) 2-Butanone	4.556	43	485448	379.704	ug/l	100
26) 2,2-Dichloropropane	4.464	77	174579	75.621	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	128454	71.056	ug/l	99
28) Bromochloromethane	4.891	49	103602	63.932	ug/l	100
29) Tetrahydrofuran	5.001	42	305757	368.234	ug/l	99
30) Chloroform	5.086	83	222253	70.180	ug/l	95
31) Cyclohexane	5.458	56	196302	76.428	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	201112	73.635	ug/l	98
36) 1,1-Dichloropropene	5.690	75	147873	74.285	ug/l	99
37) Ethyl Acetate	4.714	43	186215	74.565	ug/l	99
38) Carbon Tetrachloride	5.672	117	168946	73.875	ug/l	99
39) Methylcyclohexane	7.372	83	191941	76.952	ug/l	96
40) Benzene	6.031	78	440885	71.457	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046043.D
 Acq On : 05 May 2025 12:21
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	104863	75.574	ug/l	98
42) 1,2-Dichloroethane	6.080	62	187036	73.318	ug/l	99
43) Isopropyl Acetate	6.342	43	300491	78.714	ug/l	100
44) Trichloroethene	7.123	130	105628	72.420	ug/l	98
45) 1,2-Dichloropropane	7.427	63	112554	73.420	ug/l	100
46) Dibromomethane	7.574	93	85728	70.938	ug/l	100
47) Bromodichloromethane	7.818	83	175301	74.845	ug/l	99
48) Methyl methacrylate	7.689	41	153093	78.101	ug/l	99
49) 1,4-Dioxane	7.659	88	57313	1470.687	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	963319	384.740	ug/l	100
52) Toluene	8.714	92	270763	74.010	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	169863	86.372	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	184134	80.264	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	107264	72.543	ug/l	99
56) Ethyl methacrylate	9.116	69	188717	82.359	ug/l	99
57) 1,3-Dichloropropane	9.305	76	187649	71.590	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	463169	449.791	ug/l	100
59) 2-Hexanone	9.433	43	729602	383.945	ug/l	100
60) Dibromochloromethane	9.518	129	127012	78.918	ug/l	98
61) 1,2-Dibromoethane	9.610	107	112669	74.200	ug/l	98
64) Tetrachloroethene	9.268	164	93195	67.493	ug/l	96
65) Chlorobenzene	10.079	112	293284	70.490	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	103177	74.349	ug/l	99
67) Ethyl Benzene	10.189	91	535122	75.444	ug/l	99
68) m/p-Xylenes	10.299	106	389935	152.181	ug/l	99
69) o-Xylene	10.640	106	190833	73.890	ug/l	97
70) Styrene	10.652	104	328195	79.411	ug/l	100
71) Bromoform	10.799	173	84353	80.927	ug/l #	98
73) Isopropylbenzene	10.957	105	514528	71.083	ug/l	100
74) N-amyl acetate	10.841	43	274553	76.073	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	170481	66.207	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	150182m	54.277	ug/l	
77) Bromobenzene	11.195	156	117151	69.959	ug/l	99
78) n-propylbenzene	11.305	91	608332	74.974	ug/l	100
79) 2-Chlorotoluene	11.360	91	372392	68.100	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	432096	71.903	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	54398	81.820	ug/l	93
82) 4-Chlorotoluene	11.451	91	432053	71.890	ug/l	100
83) tert-Butylbenzene	11.713	119	432011	73.197	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	442728	73.758	ug/l	100
85) sec-Butylbenzene	11.890	105	543597	74.188	ug/l	100
86) p-Isopropyltoluene	12.006	119	457898	77.393	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	219753	70.449	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	217613	71.190	ug/l	99
89) n-Butylbenzene	12.329	91	416602	80.996	ug/l	100
90) Hexachloroethane	12.536	117	82528	74.978	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	216834	71.367	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43673	74.512	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	137430	82.605	ug/l	98
94) Hexachlorobutadiene	13.725	225	55494	71.314	ug/l	98
95) Naphthalene	13.774	128	489778	80.842	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	139525	79.981	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

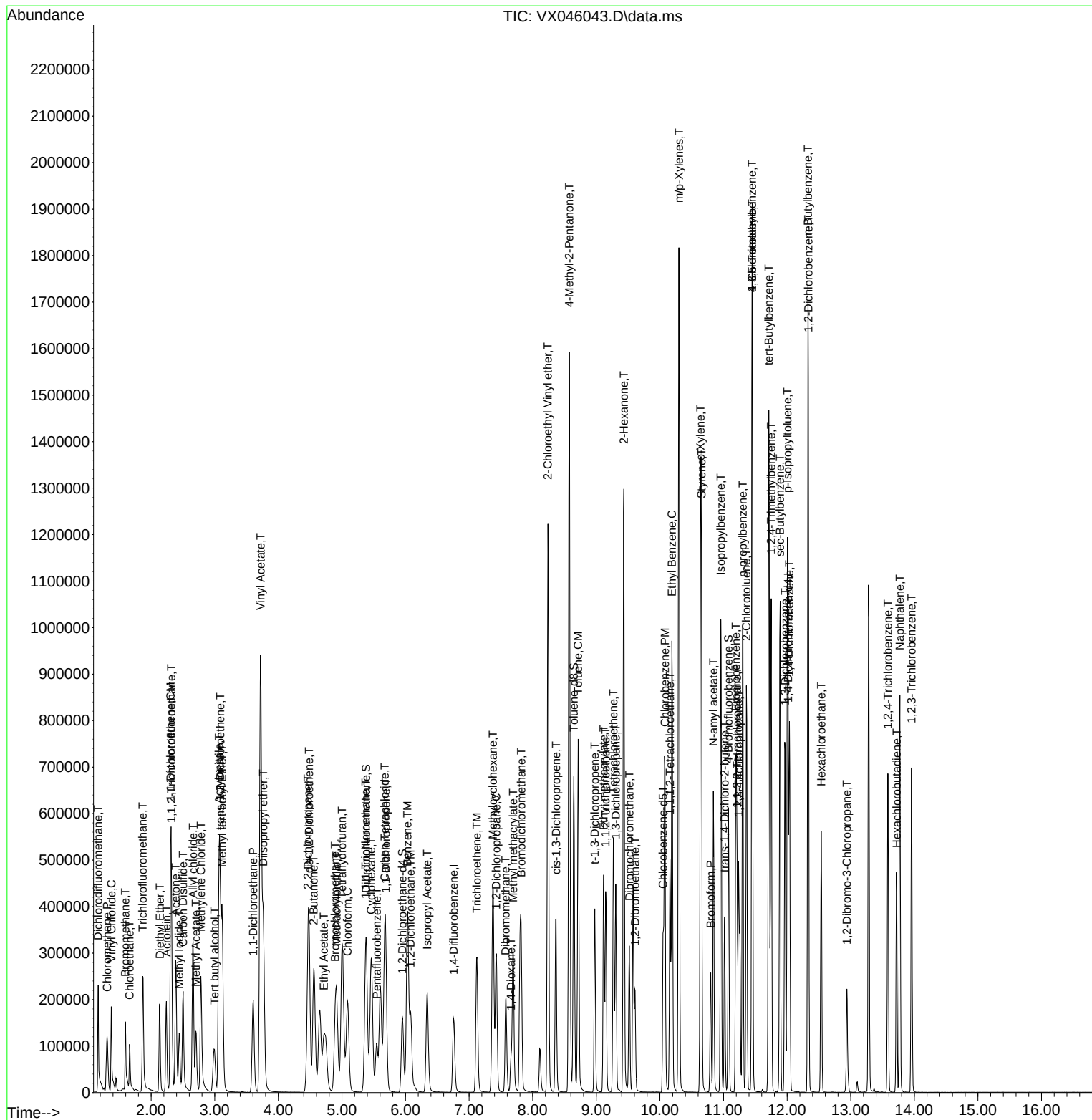
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046044.D
 Acq On : 05 May 2025 12:45
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	82963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	144975	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60345	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	231952	93.983	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	187.960%#	
35) Dibromofluoromethane	5.385	113	160168	98.562	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	197.120%#	
50) Toluene-d8	8.647	98	554390	101.252	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	202.500%#	
62) 4-Bromofluorobenzene	11.079	95	217536	109.174	ug/l	0.00
Spiked Amount 50.000	Range 77	- 121	Recovery	=	218.340%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	217793	118.929	ug/l	98
3) Chloromethane	1.307	50	196843	109.161	ug/l	99
4) Vinyl Chloride	1.374	62	187924	118.953	ug/l	100
5) Bromomethane	1.593	94	83008	103.625	ug/l	95
6) Chloroethane	1.660	64	78806	96.822	ug/l	98
7) Trichlorofluoromethane	1.868	101	245108	101.851	ug/l	97
8) Diethyl Ether	2.136	74	88441	111.791	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	161404	112.243	ug/l	99
10) Methyl Iodide	2.441	142	189843	112.441	ug/l	100
11) Tert butyl alcohol	3.002	59	181238	616.119	ug/l	100
12) 1,1-Dichloroethene	2.307	96	155451	111.039	ug/l	99
13) Acrolein	2.239	56	203257	594.872	ug/l	98
14) Allyl chloride	2.654	41	297776	112.561	ug/l	98
15) Acrylonitrile	3.069	53	484854	550.973	ug/l	98
16) Acetone	2.392	43	460820	545.754	ug/l	98
17) Carbon Disulfide	2.502	76	397353	122.499	ug/l	100
18) Methyl Acetate	2.709	43	217885	108.099	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	557210	114.112	ug/l	100
20) Methylene Chloride	2.782	84	172035	100.579	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	154694	108.241	ug/l	96
22) Diisopropyl ether	3.764	45	577610	116.858	ug/l	90
23) Vinyl Acetate	3.721	43	2655751	608.005	ug/l	100
24) 1,1-Dichloroethane	3.605	63	320083	110.182	ug/l	99
25) 2-Butanone	4.562	43	708463	581.292	ug/l	98
26) 2,2-Dichloropropane	4.471	77	258698	117.548	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	187835	108.994	ug/l	99
28) Bromochloromethane	4.898	49	146923	95.108	ug/l	100
29) Tetrahydrofuran	5.007	42	450456	569.081	ug/l	99
30) Chloroform	5.087	83	323659	107.208	ug/l	95
31) Cyclohexane	5.458	56	286312	116.934	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	295702	113.572	ug/l	98
36) 1,1-Dichloropropene	5.684	75	219731	116.462	ug/l	99
37) Ethyl Acetate	4.715	43	274312	115.889	ug/l	99
38) Carbon Tetrachloride	5.666	117	250916	115.760	ug/l	99
39) Methylcyclohexane	7.373	83	286311	121.107	ug/l	97
40) Benzene	6.031	78	642178	109.813	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046044.D
 Acq On : 05 May 2025 12:45
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :John Carlone 05/06/2025
 Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	151424	115.139	ug/l	98
42) 1,2-Dichloroethane	6.080	62	271992	112.492	ug/l	99
43) Isopropyl Acetate	6.342	43	447871	123.780	ug/l	100
44) Trichloroethene	7.117	130	157641	114.032	ug/l	96
45) 1,2-Dichloropropane	7.428	63	164505	113.217	ug/l	99
46) Dibromomethane	7.574	93	125846	109.869	ug/l	100
47) Bromodichloromethane	7.818	83	258326	116.365	ug/l	98
48) Methyl methacrylate	7.690	41	231040	124.356	ug/l	99
49) 1,4-Dioxane	7.665	88	82800	2241.695	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	1371275	577.831	ug/l	100
52) Toluene	8.714	92	393323	113.430	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	257233	138.001	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	271054	124.658	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	154932	110.551	ug/l	97
56) Ethyl methacrylate	9.116	69	277921	127.968	ug/l	99
57) 1,3-Dichloropropane	9.305	76	272814	109.813	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	680608	697.344	ug/l	100
59) 2-Hexanone	9.433	43	1028597	571.094	ug/l	99
60) Dibromochloromethane	9.519	129	187497	122.915	ug/l	98
61) 1,2-Dibromoethane	9.604	107	165634	115.087	ug/l	97
64) Tetrachloroethene	9.269	164	132488	100.918	ug/l	96
65) Chlorobenzene	10.080	112	429656	108.615	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	152173	115.333	ug/l	99
67) Ethyl Benzene	10.189	91	785121	116.421	ug/l	99
68) m/p-Xylenes	10.299	106	570913	234.349	ug/l	100
69) o-Xylene	10.640	106	279906	113.990	ug/l	99
70) Styrene	10.653	104	474254	120.694	ug/l	99
71) Bromoform	10.799	173	125986	127.128	ug/l #	99
73) Isopropylbenzene	10.957	105	752337	114.312	ug/l	99
74) N-amyl acetate	10.842	43	396877	120.944	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	243532	104.018	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	213744m	84.960	ug/l	
77) Bromobenzene	11.195	156	167934	110.297	ug/l	99
78) n-propylbenzene	11.305	91	881218	119.448	ug/l	100
79) 2-Chlorotoluene	11.360	91	534560	107.514	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	616477	112.825	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	81372	134.609	ug/l	93
82) 4-Chlorotoluene	11.451	91	611736	111.948	ug/l	100
83) tert-Butylbenzene	11.713	119	617473	115.065	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	623456	114.236	ug/l	99
85) sec-Butylbenzene	11.890	105	786293	118.023	ug/l	99
86) p-Isopropyltoluene	12.006	119	651531	121.113	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	313100	110.394	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	311752	112.167	ug/l	100
89) n-Butylbenzene	12.329	91	605783	129.533	ug/l	100
90) Hexachloroethane	12.536	117	123188	123.091	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	308039	111.506	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64438	120.915	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	203255	134.366	ug/l	98
94) Hexachlorobutadiene	13.719	225	80558	113.857	ug/l	99
95) Naphthalene	13.774	128	721236	130.929	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	200379	126.331	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

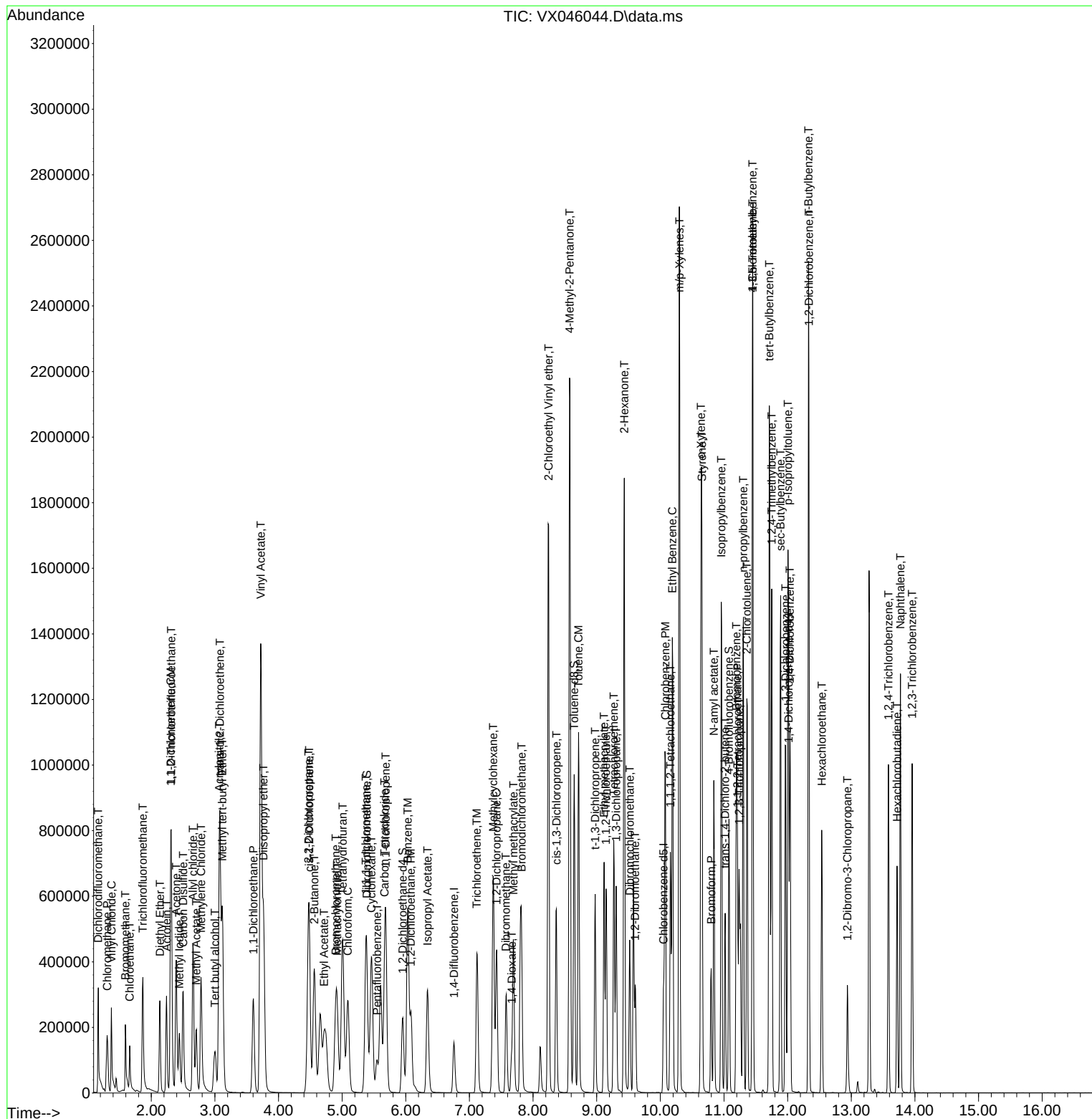
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046046.D
 Acq On : 05 May 2025 16:04
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	96964	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	168484	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	9067	3.143	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	6.280%#
35) Dibromofluoromethane	5.373	113	5969	3.161	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	6.320%#
50) Toluene-d8	8.647	98	20566	3.232	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	6.460%#
62) 4-Bromofluorobenzene	11.079	95	7822	3.378	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	6.760%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6195	2.894	ug/l	95
3) Chloromethane	1.307	50	6587	3.125	ug/l	99
4) Vinyl Chloride	1.374	62	5999	3.249	ug/l	96
5) Bromomethane	1.593	94	2962	3.164	ug/l	88
6) Chloroethane	1.666	64	3567	3.750	ug/l	94
7) Trichlorofluoromethane	1.874	101	9599	3.413	ug/l	88
8) Diethyl Ether	2.130	74	3020	3.266	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.325	101	5911	3.517	ug/l	99
10) Methyl Iodide	2.441	142	5900	2.990	ug/l	99
11) Tert butyl alcohol	2.965	59	5539	16.111	ug/l	98
12) 1,1-Dichloroethene	2.306	96	5496	3.359	ug/l	97
13) Acrolein	2.233	56	5673	14.206	ug/l	95
14) Allyl chloride	2.654	41	10262	3.319	ug/l	98
15) Acrylonitrile	3.062	53	16746	16.282	ug/l	97
16) Acetone	2.380	43	19773	20.036	ug/l	98
17) Carbon Disulfide	2.501	76	11068	2.919	ug/l	96
18) Methyl Acetate	2.703	43	7909	3.357	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	18497	3.241	ug/l	97
20) Methylene Chloride	2.782	84	6680	3.341	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	5402	3.234	ug/l	100
22) Diisopropyl ether	3.751	45	18657	3.230	ug/l #	65
23) Vinyl Acetate	3.715	43	82328	16.127	ug/l	99
24) 1,1-Dichloroethane	3.605	63	11193	3.297	ug/l	99
25) 2-Butanone	4.562	43	26125	18.340	ug/l	98
26) 2,2-Dichloropropane	4.465	77	8245	3.205	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	6222	3.089	ug/l	95
28) Bromochloromethane	4.891	49	5360	2.969	ug/l #	100
29) Tetrahydrofuran	5.001	42	15431	16.680	ug/l	98
30) Chloroform	5.080	83	11624	3.294	ug/l	89
31) Cyclohexane	5.458	56	10269	3.588	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	9827	3.229	ug/l	97
36) 1,1-Dichloropropene	5.678	75	7787	3.551	ug/l	98
37) Ethyl Acetate	4.721	43	9806m	3.565	ug/l	
38) Carbon Tetrachloride	5.659	117	8505	3.376	ug/l	97
39) Methylcyclohexane	7.373	83	9882	3.597	ug/l	93
40) Benzene	6.031	78	22528	3.315	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046046.D
 Acq On : 05 May 2025 16:04
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	4851	3.174	ug/l #	65
42) 1,2-Dichloroethane	6.080	62	10011	3.563	ug/l	100
43) Isopropyl Acetate	6.348	43	13914	3.309	ug/l	96
44) Trichloroethene	7.123	130	5313	3.307	ug/l	94
45) 1,2-Dichloropropane	7.427	63	5451	3.228	ug/l #	89
46) Dibromomethane	7.580	93	4417	3.318	ug/l	98
47) Bromodichloromethane	7.818	83	8394	3.254	ug/l	98
48) Methyl methacrylate	7.696	41	7171	3.321	ug/l	97
49) 1,4-Dioxane	7.659	88	2907	67.721	ug/l	96
51) 4-Methyl-2-Pentanone	8.567	43	46794	16.967	ug/l	98
52) Toluene	8.714	92	14126	3.505	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	6834	3.155	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	7908	3.129	ug/l	91
55) 1,1,2-Trichloroethane	9.153	97	5685	3.490	ug/l	98
56) Ethyl methacrylate	9.116	69	8555	3.390	ug/l	98
57) 1,3-Dichloropropane	9.305	76	10127	3.508	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.238	63	20809	18.346	ug/l	99
59) 2-Hexanone	9.427	43	34853	16.651	ug/l	97
60) Dibromochloromethane	9.518	129	5500	3.102	ug/l	98
61) 1,2-Dibromoethane	9.604	107	5614	3.356	ug/l	99
64) Tetrachloroethene	9.269	164	4752	3.162	ug/l	96
65) Chlorobenzene	10.079	112	15391	3.399	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	5024	3.326	ug/l	99
67) Ethyl Benzene	10.195	91	26732	3.463	ug/l	99
68) m/p-Xylenes	10.299	106	19957	7.156	ug/l	98
69) o-Xylene	10.640	106	9398	3.343	ug/l	95
70) Styrene	10.652	104	14900	3.312	ug/l	99
71) Bromoform	10.799	173	3470	3.059	ug/l #	99
73) Isopropylbenzene	10.957	105	24201	3.266	ug/l	98
74) N-amyl acetate	10.841	43	11224	3.038	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.207	83	9170	3.479	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	7928m	2.799	ug/l	
77) Bromobenzene	11.195	156	5857	3.417	ug/l	96
78) n-propylbenzene	11.299	91	28436	3.424	ug/l	100
79) 2-Chlorotoluene	11.360	91	18672	3.336	ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	20742	3.372	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	1828	2.686	ug/l	99
82) 4-Chlorotoluene	11.451	91	19966	3.245	ug/l	98
83) tert-Butylbenzene	11.713	119	21049	3.484	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	20613	3.355	ug/l	97
85) sec-Butylbenzene	11.890	105	25590	3.412	ug/l	99
86) p-Isopropyltoluene	12.006	119	20955	3.460	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	10585	3.315	ug/l	97
88) 1,4-Dichlorobenzene	12.036	146	10908	3.486	ug/l	90
89) n-Butylbenzene	12.329	91	18004	3.419	ug/l	94
90) Hexachloroethane	12.536	117	3553	3.153	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	10712	3.444	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1687	2.812	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	5720	3.359	ug/l	96
94) Hexachlorobutadiene	13.719	225	2816	3.535	ug/l	96
95) Naphthalene	13.774	128	19902	3.209	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	5745	3.217	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

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

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

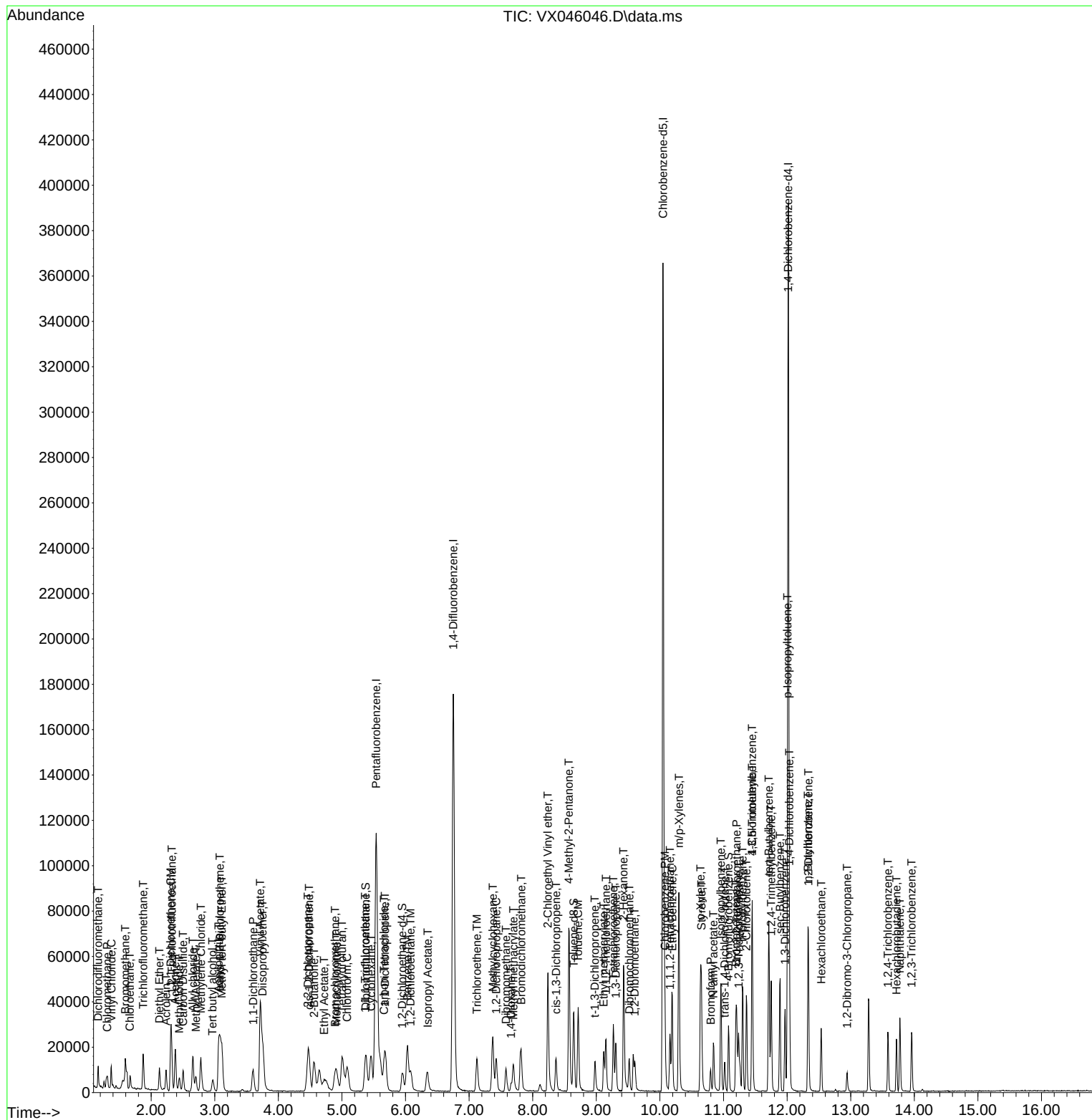
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On    : 05 May 2025  16:04
Operator  : JC/MD
Sample    : VSTDIC005
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 10   Sample Multiplier: 1
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Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046047.D
 Acq On : 05 May 2025 16:27
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	92040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	140108	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1211	0.596	ug/l	98
3) Chloromethane	1.307	50	1278	0.639	ug/l	97
4) Vinyl Chloride	1.374	62	1239	0.707	ug/l #	82
6) Chloroethane	1.678	64	859	0.951	ug/l	91
7) Trichlorofluoromethane	1.880	101	1959	0.734	ug/l	95
8) Diethyl Ether	2.130	74	742	0.845	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.319	101	1166	0.731	ug/l	96
12) 1,1-Dichloroethene	2.313	96	1093	0.704	ug/l #	87
14) Allyl chloride	2.654	41	1936	0.660	ug/l	89
15) Acrylonitrile	3.075	53	3343	3.424	ug/l	98
16) Acetone	2.380	43	3500	3.736	ug/l	97
17) Carbon Disulfide	2.508	76	2619	0.728	ug/l	98
18) Methyl Acetate	2.709	43	1852	0.828	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	3588	0.662	ug/l	96
20) Methylene Chloride	2.782	84	1571	0.828	ug/l #	90
21) trans-1,2-Dichloroethene	3.081	96	1111	0.701	ug/l #	71
22) Diisopropyl ether	3.757	45	3857	0.703	ug/l #	26
23) Vinyl Acetate	3.727	43	15283	3.154	ug/l	96
24) 1,1-Dichloroethane	3.605	63	2054	0.637	ug/l	97
25) 2-Butanone	4.593	43	4558	3.371	ug/l	92
26) 2,2-Dichloropropane	4.458	77	1777	0.728	ug/l	84
27) cis-1,2-Dichloroethene	4.483	96	1324	0.693	ug/l	91
28) Bromochloromethane	4.910	49	1061m	0.619	ug/l	
29) Tetrahydrofuran	5.019	42	2931	3.338	ug/l	99
30) Chloroform	5.093	83	2328	0.695	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	1869	0.647	ug/l #	51
36) 1,1-Dichloropropene	5.684	75	1648	0.758	ug/l #	83
37) Ethyl Acetate	4.733	43	1956m	0.717	ug/l	
38) Carbon Tetrachloride	5.678	117	1807	0.724	ug/l #	78
39) Methylcyclohexane	7.373	83	2096	0.770	ug/l	97
40) Benzene	6.044	78	4502	0.668	ug/l #	89
41) Methacrylonitrile	4.946	41	778	0.513	ug/l #	56
42) 1,2-Dichloroethane	6.092	62	1934	0.694	ug/l	81
43) Isopropyl Acetate	6.354	43	2553	0.612	ug/l #	81
44) Trichloroethene	7.135	130	1083	0.680	ug/l	85
45) 1,2-Dichloropropane	7.440	63	1059	0.633	ug/l	89

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046047.D
 Acq On : 05 May 2025 16:27
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 06:04:56 2025
 Response via : Initial Calibration

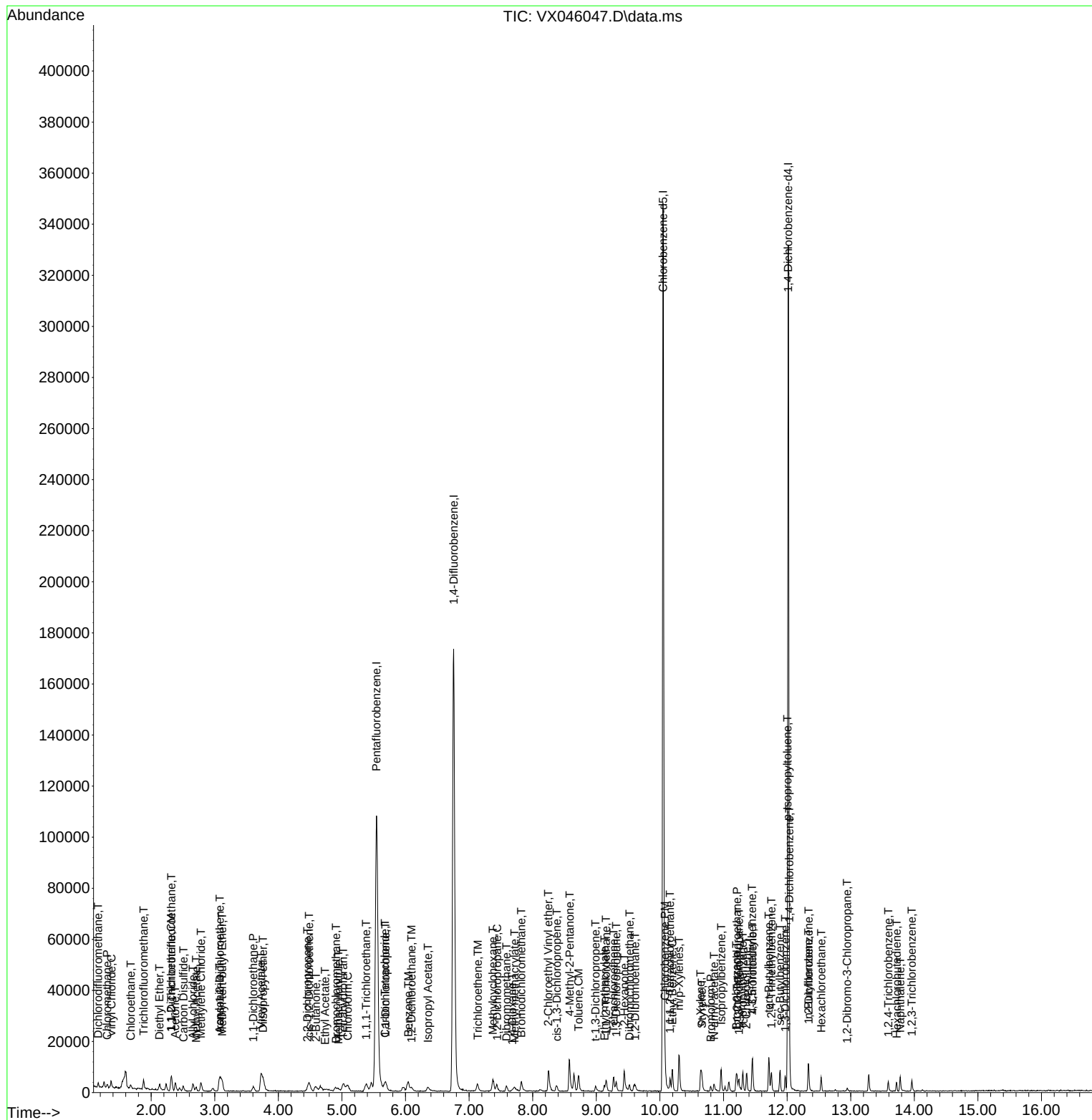
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.586	93	880	0.667	ug/l	97
47) Bromodichloromethane	7.818	83	1620	0.633	ug/l #	91
48) Methyl methacrylate	7.714	41	1235m	0.577	ug/l	
49) 1,4-Dioxane	7.677	88	498	11.703	ug/l #	66
51) 4-Methyl-2-Pentanone	8.580	43	9378	3.430	ug/l	97
52) Toluene	8.720	92	2684	0.672	ug/l	96
53) t-1,3-Dichloropropene	8.988	75	1238	0.576	ug/l #	79
54) cis-1,3-Dichloropropene	8.379	75	1414	0.564	ug/l #	87
55) 1,1,2-Trichloroethane	9.153	97	1029	0.637	ug/l	92
56) Ethyl methacrylate	9.128	69	1260	0.504	ug/l #	76
57) 1,3-Dichloropropane	9.311	76	2036	0.711	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.244	63	3846	3.420	ug/l	94
59) 2-Hexanone	9.439	43	6424	3.096	ug/l	88
60) Dibromochloromethane	9.525	129	1023	0.582	ug/l	93
61) 1,2-Dibromoethane	9.610	107	1077	0.650	ug/l	98
64) Tetrachloroethene	9.275	164	972	0.679	ug/l	95
65) Chlorobenzene	10.079	112	3170	0.735	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	1035	0.720	ug/l #	67
67) Ethyl Benzene	10.195	91	5052	0.687	ug/l	94
68) m/p-Xylenes	10.299	106	3630	1.367	ug/l	97
69) o-Xylene	10.640	106	1799	0.672	ug/l	94
70) Styrene	10.659	104	2664	0.622	ug/l	98
71) Bromoform	10.799	173	657	0.608	ug/l #	100
73) Isopropylbenzene	10.963	105	4480	0.695	ug/l	96
74) N-amyl acetate	10.854	43	2028	0.631	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.213	83	1835	0.800	ug/l	94
76) 1,2,3-Trichloropropane	11.244	75	1661m	0.674	ug/l	
77) Bromobenzene	11.201	156	1095	0.734	ug/l	96
78) n-propylbenzene	11.305	91	5052	0.699	ug/l	97
79) 2-Chlorotoluene	11.360	91	3765	0.773	ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	3590	0.671	ug/l	96
82) 4-Chlorotoluene	11.457	91	3815	0.713	ug/l	97
83) tert-Butylbenzene	11.713	119	3951	0.751	ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	3725	0.697	ug/l	97
85) sec-Butylbenzene	11.890	105	4385	0.672	ug/l	100
86) p-Isopropyltoluene	12.006	119	3577	0.679	ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	1914	0.689	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	2149m	0.789	ug/l	
89) n-Butylbenzene	12.335	91	2889	0.631	ug/l	92
90) Hexachloroethane	12.536	117	604	0.616	ug/l	99
91) 1,2-Dichlorobenzene	12.341	146	2022	0.747	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	306	0.586	ug/l	83
93) 1,2,4-Trichlorobenzene	13.591	180	1019	0.688	ug/l	94
94) Hexachlorobutadiene	13.725	225	465	0.671	ug/l	89
95) Naphthalene	13.780	128	4138	0.767	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	1113	0.716	ug/l	96

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	92588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162651	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68229	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83733	48.509	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.020%		
35) Dibromofluoromethane	5.379	113	58192	49.683	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.360%		
50) Toluene-d8	8.647	98	198575	48.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.960%		
62) 4-Bromofluorobenzene	11.079	95	75568	48.596	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.200%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	78783	55.594	ug/l	99
3) Chloromethane	1.307	50	72275	52.592	ug/l	100
4) Vinyl Chloride	1.374	62	65994	51.598	ug/l	98
5) Bromomethane	1.593	94	30033	50.627	ug/l	97
6) Chloroethane	1.666	64	35690	52.271	ug/l	94
7) Trichlorofluoromethane	1.874	101	99352	52.560	ug/l	99
8) Diethyl Ether	2.130	74	31875	49.536	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	59451	50.822	ug/l	99
10) Methyl Iodide	2.447	142	73940	53.419	ug/l	99
11) Tert butyl alcohol	2.977	59	61065	252.025	ug/l	99
12) 1,1-Dichloroethene	2.313	96	56097	51.097	ug/l	98
13) Acrolein	2.233	56	64157	232.505	ug/l	99
14) Allyl chloride	2.660	41	108757	51.833	ug/l	100
15) Acrylonitrile	3.063	53	181808	262.412	ug/l	99
16) Acetone	2.380	43	169923	245.518	ug/l	98
17) Carbon Disulfide	2.502	76	132695	50.981	ug/l	99
18) Methyl Acetate	2.703	43	80251	49.968	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	195442	50.777	ug/l	99
20) Methylene Chloride	2.782	84	63369	47.779	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	55770	50.513	ug/l	99
22) Diisopropyl ether	3.757	45	209946	51.800	ug/l	97
23) Vinyl Acetate	3.715	43	946746	265.585	ug/l	100
24) 1,1-Dichloroethane	3.605	63	114733	50.825	ug/l	98
25) 2-Butanone	4.556	43	258339	257.110	ug/l	97
26) 2,2-Dichloropropane	4.471	77	88229	49.934	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	67727	50.956	ug/l	100
28) Bromochloromethane	4.891	49	55390	50.975	ug/l	98
29) Tetrahydrofuran	5.001	42	163675	259.958	ug/l	99
30) Chloroform	5.093	83	120782	51.332	ug/l	97
31) Cyclohexane	5.458	56	103158	50.147	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	104243	51.108	ug/l	100
36) 1,1-Dichloropropene	5.690	75	77931	49.521	ug/l	99
37) Ethyl Acetate	4.715	43	98604	50.714	ug/l	100
38) Carbon Tetrachloride	5.666	117	88100	49.825	ug/l	97
39) Methylcyclohexane	7.373	83	100808	49.757	ug/l	98
40) Benzene	6.031	78	233977	50.759	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 05/06/2025
 Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	56017	55.076	ug/l	100
42) 1,2-Dichloroethane	6.080	62	101185	50.861	ug/l	98
43) Isopropyl Acetate	6.336	43	154818	52.195	ug/l	99
44) Trichloroethene	7.123	130	55491	50.018	ug/l	100
45) 1,2-Dichloropropane	7.428	63	59582	51.983	ug/l	98
46) Dibromomethane	7.580	93	45181	49.978	ug/l	99
47) Bromodichloromethane	7.818	83	92388	51.889	ug/l	100
48) Methyl methacrylate	7.690	41	82144	54.226	ug/l	98
49) 1,4-Dioxane	7.659	88	30477	1059.599	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	510206	259.133	ug/l	100
52) Toluene	8.714	92	144574	51.150	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	83751	52.920	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	92517	52.892	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	56713	50.887	ug/l	96
56) Ethyl methacrylate	9.116	69	95772	53.918	ug/l	99
57) 1,3-Dichloropropane	9.305	76	99663	49.793	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	240681	265.780	ug/l	99
59) 2-Hexanone	9.427	43	390701	268.218	ug/l	100
60) Dibromochloromethane	9.519	129	63738	52.075	ug/l	99
61) 1,2-Dibromoethane	9.610	107	59134	51.050	ug/l	98
64) Tetrachloroethene	9.269	164	48034	46.795	ug/l	98
65) Chlorobenzene	10.073	112	154640	48.699	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	53735	49.557	ug/l	100
67) Ethyl Benzene	10.189	91	281239	50.245	ug/l	100
68) m/p-Xylenes	10.299	106	206813	101.022	ug/l	99
69) o-Xylene	10.640	106	101469	50.841	ug/l	99
70) Styrene	10.653	104	169703	51.907	ug/l	99
71) Bromoform	10.799	173	40364	49.583	ug/l #	97
73) Isopropylbenzene	10.957	105	269484	50.733	ug/l	100
74) N-amyl acetate	10.842	43	137559	52.407	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	89027	47.827	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	79763m	48.568	ug/l	
77) Bromobenzene	11.195	156	59871	48.549	ug/l	98
78) n-propylbenzene	11.299	91	312285	50.562	ug/l	100
79) 2-Chlorotoluene	11.360	91	195630	49.107	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	228538	51.500	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	24857	49.276	ug/l	98
82) 4-Chlorotoluene	11.451	91	223811	50.661	ug/l	100
83) tert-Butylbenzene	11.713	119	225783	50.511	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	231371	51.485	ug/l	100
85) sec-Butylbenzene	11.890	105	280578	51.122	ug/l	99
86) p-Isopropyltoluene	12.006	119	231942	51.198	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	113146	50.272	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	111173	48.368	ug/l	99
89) n-Butylbenzene	12.329	91	205858	51.804	ug/l	100
90) Hexachloroethane	12.536	117	39823	49.895	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	111482	49.361	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21220	51.458	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	64421	49.662	ug/l	100
94) Hexachlorobutadiene	13.719	225	27425	48.408	ug/l	98
95) Naphthalene	13.774	128	239805	50.404	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	64950	48.525	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	95	0.00
2 T	Dichlorodifluoromethane	0.765	0.851	-11.2	94	0.00
3 P	Chloromethane	0.742	0.781	-5.3	96	0.00
4 C	Vinyl Chloride	0.691	0.713	-3.2#	96	0.00
5 T	Bromomethane	0.320	0.324	-1.3	95	0.00
6 T	Chloroethane	0.369	0.385	-4.3	97	0.00
7 T	Trichlorofluoromethane	1.021	1.073	-5.1	96	0.00
8 T	Diethyl Ether	0.347	0.344	0.9	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.632	0.642	-1.6	96	0.00
10 T	Methyl Iodide	0.747	0.799	-7.0	94	0.00
11 T	Tert butyl alcohol	0.131	0.132	-0.8	98	0.00
12 CM	1,1-Dichloroethene	0.593	0.606	-2.2#	96	0.00
13 T	Acrolein	0.149	0.139	6.7	87	0.00
14 T	Allyl chloride	1.133	1.175	-3.7	95	0.00
15 T	Acrylonitrile	0.374	0.393	-5.1	97	0.00
16 T	Acetone	0.374	0.367	1.9	97	0.00
17 T	Carbon Disulfide	1.406	1.433	-1.9	94	0.00
18 T	Methyl Acetate	0.867	0.867	0.0	97	0.00
19 T	Methyl tert-butyl Ether	2.079	2.111	-1.5	93	0.00
20 T	Methylene Chloride	0.716	0.684	4.5	95	0.00
21 T	trans-1,2-Dichloroethene	0.596	0.602	-1.0	94	0.00
22 T	Diisopropyl ether	2.189	2.268	-3.6	95	0.00
23 T	Vinyl Acetate	1.925	2.045	-6.2	95	0.00
24 P	1,1-Dichloroethane	1.219	1.239	-1.6	94	0.00
25 T	2-Butanone	0.543	0.558	-2.8	96	0.00
26 T	2,2-Dichloropropane	0.954	0.953	0.1	95	0.00
27 T	cis-1,2-Dichloroethene	0.718	0.731	-1.8	95	0.00
28 T	Bromochloromethane	0.587	0.598	-1.9	99	0.00
29 T	Tetrahydrofuran	0.340	0.354	-4.1	96	0.00
30 C	Chloroform	1.271	1.305	-2.7#	96	0.00
31 T	Cyclohexane	1.111	1.114	-0.3	94	0.00
32 T	1,1,1-Trichloroethane	1.101	1.126	-2.3	95	0.00
33 S	1,2-Dichloroethane-d4	0.932	0.904	3.0	95	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.360	0.358	0.6	98	0.00
36 T	1,1-Dichloropropene	0.484	0.479	1.0	94	0.00
37 T	Ethyl Acetate	0.598	0.606	-1.3	96	0.00
38 T	Carbon Tetrachloride	0.544	0.542	0.4	94	0.00
39 T	Methylcyclohexane	0.623	0.620	0.5	94	0.00
40 TM	Benzene	1.417	1.439	-1.6	95	0.00
41 T	Methacrylonitrile	0.313	0.344	-9.9	96	0.00
42 TM	1,2-Dichloroethane	0.612	0.622	-1.6	96	0.00
43 T	Isopropyl Acetate	0.912	0.952	-4.4	96	0.00
44 TM	Trichloroethene	0.341	0.341	0.0	93	0.00
45 C	1,2-Dichloropropane	0.352	0.366	-4.0#	96	0.00
46 T	Dibromomethane	0.278	0.278	0.0	94	0.00
47 T	Bromodichloromethane	0.547	0.568	-3.8	95	0.00
48 T	Methyl methacrylate	0.466	0.505	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	0.009	0.009	0.0	100	0.00
50 S	Toluene-d8	1.246	1.221	2.0	97	0.00
51 T	4-Methyl-2-Pentanone	0.605	0.627	-3.6	96	0.00
52 CM	Toluene	0.869	0.889	-2.3#	96	0.00
53 T	t-1,3-Dichloropropene	0.487	0.515	-5.7	94	0.00
54 T	cis-1,3-Dichloropropene	0.538	0.569	-5.8	95	0.00
55 T	1,1,2-Trichloroethane	0.343	0.349	-1.7	95	0.00
56 T	Ethyl methacrylate	0.546	0.589	-7.9	96	0.00
57 T	1,3-Dichloropropane	0.615	0.613	0.3	95	0.00
58 T	2-Chloroethyl Vinyl ether	0.278	0.296	-6.5	93	0.00
59 T	2-Hexanone	0.448	0.480	-7.1	98	0.00
60 T	Dibromochloromethane	0.376	0.392	-4.3	95	0.00
61 T	1,2-Dibromoethane	0.356	0.364	-2.2	94	0.00
62 S	4-Bromofluorobenzene	0.478	0.465	2.7	96	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.354	0.331	6.5	88	0.00
65 PM	Chlorobenzene	1.094	1.066	2.6	96	0.00
66 T	1,1,1,2-Tetrachloroethane	0.374	0.370	1.1	94	0.00
67 C	Ethyl Benzene	1.929	1.939	-0.5#	95	0.00
68 T	m/p-Xylenes	0.706	0.713	-1.0	95	0.00
69 T	o-Xylene	0.688	0.699	-1.6	95	0.00
70 T	Styrene	1.127	1.170	-3.8	95	0.00
71 P	Bromoform	0.281	0.278	1.1	91	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.893	3.950	-1.5	96	0.00
74 T	N-amyl acetate	1.924	2.016	-4.8	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.364	1.305	4.3	98	0.00
76 T	1,2,3-Trichloropropane	1.204	1.169	2.9	99	0.00
77 T	Bromobenzene	0.904	0.878	2.9	95	0.00
78 T	n-propylbenzene	4.526	4.577	-1.1	95	0.00
79 T	2-Chlorotoluene	2.919	2.867	1.8	96	0.00
80 T	1,3,5-Trimethylbenzene	3.252	3.350	-3.0	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.370	0.364	1.6	95	0.00
82 T	4-Chlorotoluene	3.238	3.280	-1.3	96	0.00
83 T	tert-Butylbenzene	3.276	3.309	-1.0	97	0.00
84 T	1,2,4-Trimethylbenzene	3.293	3.391	-3.0	97	0.00
85 T	sec-Butylbenzene	4.022	4.112	-2.2	96	0.00
86 T	p-Isopropyltoluene	3.320	3.399	-2.4	96	0.00
87 T	1,3-Dichlorobenzene	1.649	1.658	-0.5	98	0.00
88 T	1,4-Dichlorobenzene	1.684	1.629	3.3	97	0.00
89 T	n-Butylbenzene	2.912	3.017	-3.6	96	0.00
90 T	Hexachloroethane	0.585	0.584	0.2	94	0.00
91 T	1,2-Dichlorobenzene	1.655	1.634	1.3	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.302	0.311	-3.0	97	0.00
93 T	1,2,4-Trichlorobenzene	0.951	0.944	0.7	97	0.00
94 T	Hexachlorobutadiene	0.415	0.402	3.1	95	0.00
95 T	Naphthalene	3.487	3.515	-0.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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	0.981	0.952	3.0	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\X050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	95	0.00
2 T	Dichlorodifluoromethane	50.000	55.594	-11.2	94	0.00
3 P	Chloromethane	50.000	52.592	-5.2	96	0.00
4 C	Vinyl Chloride	50.000	51.598	-3.2#	96	0.00
5 T	Bromomethane	50.000	50.627	-1.3	95	0.00
6 T	Chloroethane	50.000	52.271	-4.5	97	0.00
7 T	Trichlorofluoromethane	50.000	52.560	-5.1	96	0.00
8 T	Diethyl Ether	50.000	49.536	0.9	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.822	-1.6	96	0.00
10 T	Methyl Iodide	50.000	53.419	-6.8	94	0.00
11 T	Tert butyl alcohol	250.000	252.025	-0.8	98	0.00
12 CM	1,1-Dichloroethene	50.000	51.097	-2.2#	96	0.00
13 T	Acrolein	250.000	232.505	7.0	87	0.00
14 T	Allyl chloride	50.000	51.833	-3.7	95	0.00
15 T	Acrylonitrile	250.000	262.412	-5.0	97	0.00
16 T	Acetone	250.000	245.518	1.8	97	0.00
17 T	Carbon Disulfide	50.000	50.981	-2.0	94	0.00
18 T	Methyl Acetate	50.000	49.968	0.1	97	0.00
19 T	Methyl tert-butyl Ether	50.000	50.777	-1.6	93	0.00
20 T	Methylene Chloride	50.000	47.779	4.4	95	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.513	-1.0	94	0.00
22 T	Diisopropyl ether	50.000	51.800	-3.6	95	0.00
23 T	Vinyl Acetate	250.000	265.585	-6.2	95	0.00
24 P	1,1-Dichloroethane	50.000	50.825	-1.7	94	0.00
25 T	2-Butanone	250.000	257.110	-2.8	96	0.00
26 T	2,2-Dichloropropane	50.000	49.934	0.1	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.956	-1.9	95	0.00
28 T	Bromochloromethane	50.000	50.975	-2.0	99	0.00
29 T	Tetrahydrofuran	250.000	259.958	-4.0	96	0.00
30 C	Chloroform	50.000	51.332	-2.7#	96	0.00
31 T	Cyclohexane	50.000	50.147	-0.3	94	0.00
32 T	1,1,1-Trichloroethane	50.000	51.108	-2.2	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.509	3.0	95	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	49.683	0.6	98	0.00
36 T	1,1-Dichloropropene	50.000	49.521	1.0	94	0.00
37 T	Ethyl Acetate	50.000	50.714	-1.4	96	0.00
38 T	Carbon Tetrachloride	50.000	49.825	0.3	94	0.00
39 T	Methylcyclohexane	50.000	49.757	0.5	94	0.00
40 TM	Benzene	50.000	50.759	-1.5	95	0.00
41 T	Methacrylonitrile	50.000	55.076	-10.2	96	0.00
42 TM	1,2-Dichloroethane	50.000	50.861	-1.7	96	0.00
43 T	Isopropyl Acetate	50.000	52.195	-4.4	96	0.00
44 TM	Trichloroethene	50.000	50.018	-0.0	93	0.00
45 C	1,2-Dichloropropane	50.000	51.983	-4.0#	96	0.00
46 T	Dibromomethane	50.000	49.978	0.0	94	0.00
47 T	Bromodichloromethane	50.000	51.889	-3.8	95	0.00
48 T	Methyl methacrylate	50.000	54.226	-8.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
 Data File : VX046048.D
 Acq On : 05 May 2025 16:50
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX050525

Quant Time: May 06 07:17:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	1059.599	-6.0	100	0.00
50 S	Toluene-d8	50.000	48.984	2.0	97	0.00
51 T	4-Methyl-2-Pentanone	250.000	259.133	-3.7	96	0.00
52 CM	Toluene	50.000	51.150	-2.3#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	52.920	-5.8	94	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.892	-5.8	95	0.00
55 T	1,1,2-Trichloroethane	50.000	50.887	-1.8	95	0.00
56 T	Ethyl methacrylate	50.000	53.918	-7.8	96	0.00
57 T	1,3-Dichloropropane	50.000	49.793	0.4	95	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	265.780	-6.3	93	0.00
59 T	2-Hexanone	250.000	268.218	-7.3	98	0.00
60 T	Dibromochloromethane	50.000	52.075	-4.2	95	0.00
61 T	1,2-Dibromoethane	50.000	51.050	-2.1	94	0.00
62 S	4-Bromofluorobenzene	50.000	48.596	2.8	96	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	46.795	6.4	88	0.00
65 PM	Chlorobenzene	50.000	48.699	2.6	96	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.557	0.9	94	0.00
67 C	Ethyl Benzene	50.000	50.245	-0.5#	95	0.00
68 T	m/p-Xylenes	100.000	101.022	-1.0	95	0.00
69 T	o-Xylene	50.000	50.841	-1.7	95	0.00
70 T	Styrene	50.000	51.907	-3.8	95	0.00
71 P	Bromoform	50.000	49.583	0.8	91	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	50.733	-1.5	96	0.00
74 T	N-ethyl acetate	50.000	52.407	-4.8	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.827	4.3	98	0.00
76 T	1,2,3-Trichloropropane	50.000	48.568	2.9	99	0.00
77 T	Bromobenzene	50.000	48.549	2.9	95	0.00
78 T	n-propylbenzene	50.000	50.562	-1.1	95	0.00
79 T	2-Chlorotoluene	50.000	49.107	1.8	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.500	-3.0	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.276	1.4	95	0.00
82 T	4-Chlorotoluene	50.000	50.661	-1.3	96	0.00
83 T	tert-Butylbenzene	50.000	50.511	-1.0	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.485	-3.0	97	0.00
85 T	sec-Butylbenzene	50.000	51.122	-2.2	96	0.00
86 T	p-Isopropyltoluene	50.000	51.198	-2.4	96	0.00
87 T	1,3-Dichlorobenzene	50.000	50.272	-0.5	98	0.00
88 T	1,4-Dichlorobenzene	50.000	48.368	3.3	97	0.00
89 T	n-Butylbenzene	50.000	51.804	-3.6	96	0.00
90 T	Hexachloroethane	50.000	49.895	0.2	94	0.00
91 T	1,2-Dichlorobenzene	50.000	49.361	1.3	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.458	-2.9	97	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.662	0.7	97	0.00
94 T	Hexachlorobutadiene	50.000	48.408	3.2	95	0.00
95 T	Naphthalene	50.000	50.404	-0.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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	48.525	3.0	94	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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY022253.D	RRF010 = VY022254.D	RRF020 = VY022255.D	RRF050 = VY022256.D	RRF100 = VY022257.D	RRF150 = VY022258.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.5
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.6
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.6
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Bromochloromethane	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.6
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8

* 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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY022253.D		RRF010 = VY022254.D		RRF020 = VY022255.D			
		RRF050 = VY022256.D		RRF100 = VY022257.D		RRF150 = VY022258.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7	
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2	
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4	
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4	
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9	
1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.2	
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4	
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9	
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1	
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2	
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9	
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3	
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5	
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6	
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8	
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4	
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4	
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3	
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.7	
1,2,4-Trichlorobenzene	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.2	
1,2,3-Trichlorobenzene	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.6	
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2	
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2	
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3	
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3	

* 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_Y\methods\
 Method File : 82Y051525S.M
 Title : SW846 8260
 Last Update : Fri May 16 01:42:09 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY022253.D 10 =VY022254.D 20 =VY022255.D 50 =VY022256.D 100 =VY022257.D 150 =VY022258.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.51
3) P	Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.72
4) C	Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.91#
5) T	Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.33
6) T	Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.56
7) T	Trichlorofluor...	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.64
8) T	Diethyl Ether	0.305	0.320	0.283	0.294	0.295	0.291	0.298	4.33
9) T	1,1,2-Trichlor...	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.50
10) T	Methyl Iodide	0.559	0.586	0.620	0.687	0.651	0.638	0.624	7.35
11) T	Tert butyl alc...	0.045	0.045	0.037	0.039	0.042	0.042	0.042	7.70
12) CM	1,1-Dichloroet...	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.17#
13) T	Acrolein	0.068	0.068	0.057	0.056	0.058	0.058	0.061	8.63
14) T	Allyl chloride	0.888	0.967	0.949	0.959	0.932	0.931	0.938	3.00
15) T	Acrylonitrile	0.123	0.126	0.115	0.120	0.127	0.126	0.123	3.79
16) T	Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.64
17) T	Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.20
18) T	Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.55
19) T	Methyl tert-bu...	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.22
20) T	Methylene Chlo...	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.28
21) T	trans-1,2-Dich...	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.22
22) T	Diisopropyl ether	1.947	2.009	1.937	1.986	2.003	2.001	1.980	1.57
23) T	Vinyl Acetate	1.214	1.225	1.134	1.174	1.214	1.218	1.196	2.99
24) P	1,1-Dichloroet...	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.73
25) T	2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.60
26) T	2,2-Dichloropr...	0.994	1.024	0.971	0.987	0.961	0.968	0.984	2.33
27) T	cis-1,2-Dichlo...	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.91
28) T	Bromochloromet...	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.62
29) T	Tetrahydrofuran	0.105	0.116	0.102	0.107	0.116	0.116	0.110	5.98
30) C	Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.66#
31) T	Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.63
32) T	1,1,1-Trichlor...	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.43
33) S	1,2-Dichloroet...	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.24
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.17
36) T	1,1-Dichloropr...	0.474	0.502	0.488	0.505	0.484	0.496	0.492	2.39
37) T	Ethyl Acetate	0.253	0.231	0.219	0.234	0.240	0.241	0.237	4.87
38) T	Carbon Tetrach...	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.18
39) T	Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.30
40) TM	Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.37
41) T	Methacrylonitrile	0.153	0.182	0.148	0.158	0.148	0.152	0.157	8.18
42) TM	1,2-Dichloroet...	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.86
43) T	Isopropyl Acetate	0.510	0.527	0.480	0.514	0.534	0.530	0.516	3.83
44) TM	Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.48
45) C	1,2-Dichloropr...	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.58#
46) T	Dibromomethane	0.189	0.192	0.180	0.189	0.193	0.194	0.189	2.59
47) T	Bromodichlorom...	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.42
48) T	Methyl methacr...	0.228	0.238	0.224	0.240	0.259	0.259	0.241	6.19
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	4.33
50) S	Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.26
51) T	4-Methyl-2-Pen...	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.43
52) CM	Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.82#
53) T	t-1,3-Dichloro...	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.71
54) T	cis-1,3-Dichlo...	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.22
55) T	1,1,2-Trichlor...	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.42
56) T	Ethyl methacry...	0.370	0.362	0.354	0.381	0.398	0.403	0.378	5.26

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y051525S.M

57)	T	1,3-Dichloropr...	0.418	0.436	0.413	0.438	0.442	0.440	0.431	2.80
58)	T	2-Chloroethyl ...	0.141	0.150	0.144	0.183	0.197	0.203	0.170	16.60
59)	T	2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.38
60)	T	Dibromochlorom...	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.88
61)	T	1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.22
62)	S	4-Bromofluorob...	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.25
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.37
65)	PM	Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.87
66)	T	1,1,1,2-Tetrac...	0.373	0.377	0.372	0.394	0.399	0.411	0.388	4.14
67)	C	Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.13#
68)	T	m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.16
69)	T	o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.93
70)	T	Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.28
71)	P	Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.53
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.60
74)	T	N-amyl acetate	1.195	1.173	1.114	1.159	1.235	1.232	1.185	3.91
75)	P	1,1,2,2-Tetrac...	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.77
76)	T	1,2,3-Trichlor...	0.522	0.467	0.516	0.501	0.521	0.514	0.507	4.12
77)	T	Bromobenzene	0.887	0.885	0.848	0.895	0.889	0.904	0.885	2.17
78)	T	n-propylbenzene	5.031	5.047	4.904	5.127	4.865	5.006	4.996	1.93
79)	T	2-Chlorotoluene	2.715	2.786	2.694	2.804	2.704	2.772	2.746	1.71
80)	T	1,3,5-Trimethy...	3.393	3.386	3.275	3.410	3.251	3.349	3.344	1.98
81)	T	trans-1,4-Dich...	0.269	0.260	0.241	0.237	0.246	0.248	0.250	4.80
82)	T	4-Chlorotoluene	2.801	2.829	2.744	2.907	2.797	2.867	2.824	2.02
83)	T	tert-Butylbenzene	3.037	2.974	2.900	3.029	2.879	3.014	2.972	2.29
84)	T	1,2,4-Trimethy...	3.189	3.349	3.206	3.413	3.329	3.431	3.319	3.07
85)	T	sec-Butylbenzene	4.390	4.461	4.318	4.573	4.307	4.421	4.412	2.24
86)	T	p-Isopropyltol...	3.598	3.610	3.573	3.818	3.754	3.911	3.710	3.72
87)	T	1,3-Dichlorobe...	1.757	1.774	1.715	1.838	1.839	1.914	1.806	3.96
88)	T	1,4-Dichlorobe...	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.39
89)	T	n-Butylbenzene	3.419	3.500	3.490	3.668	3.452	3.533	3.510	2.47
90)	T	Hexachloroethane	0.773	0.759	0.736	0.761	0.726	0.740	0.749	2.36
91)	T	1,2-Dichlorobe...	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.27
92)	T	1,2-Dibromo-3-...	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.68
93)	T	1,2,4-Trichlor...	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.23
94)	T	Hexachlorobuta...	0.511	0.485	0.496	0.502	0.474	0.464	0.489	3.56
95)	T	Naphthalene	1.704	1.579	1.527	1.653	1.778	1.737	1.663	5.78
96)	T	1,2,3-Trichlor...	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.64

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022253.D
 Acq On : 15 May 2025 09:46
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	276170	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	470488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	385399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	174003	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	15118	5.009	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.020%#		
35) Dibromofluoromethane	7.634	113	13854	4.933	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.860%#		
50) Toluene-d8	10.109	98	57575	5.006	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.020%#		
62) 4-Bromofluorobenzene	12.408	95	18328	5.028	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.060%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	15071	5.230	ug/l	96
3) Chloromethane	2.068	50	33477	5.523	ug/l	100
4) Vinyl Chloride	2.208	62	34943	5.159	ug/l	96
5) Bromomethane	2.598	94	30561	5.543	ug/l	99
6) Chloroethane	2.739	64	20741	4.923	ug/l	97
7) Trichlorofluoromethane	3.056	101	34641	5.052	ug/l	98
8) Diethyl Ether	3.458	74	8435	5.126	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	15124	5.081	ug/l	95
10) Methyl Iodide	4.013	142	15449	4.484	ug/l	99
11) Tert butyl alcohol	4.879	59	6159	26.722	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	15064	5.099	ug/l	93
13) Acrolein	3.653	56	9366	27.796	ug/l	94
14) Allyl chloride	4.385	41	24537	4.737	ug/l	94
15) Acrylonitrile	5.061	53	17036	25.125	ug/l	100
16) Acetone	3.879	43	17340	30.639	ug/l	91
17) Carbon Disulfide	4.110	76	48817	5.068	ug/l	99
18) Methyl Acetate	4.391	43	9639m	5.597	ug/l	
19) Methyl tert-butyl Ether	5.128	73	40392	4.959	ug/l	97
20) Methylene Chloride	4.610	84	22002	6.016	ug/l	93
21) trans-1,2-Dichloroethene	5.110	96	15943	4.889	ug/l	85
22) Diisopropyl ether	6.025	45	53760	4.915	ug/l	97
23) Vinyl Acetate	5.964	43	167594	25.361	ug/l	96
24) 1,1-Dichloroethane	5.921	63	30712	5.026	ug/l	97
25) 2-Butanone	6.903	43	24805	26.203	ug/l	91
26) 2,2-Dichloropropane	6.884	77	27440	5.048	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	18276	4.857	ug/l	98
28) Bromochloromethane	7.250	49	12774	4.901	ug/l	98
29) Tetrahydrofuran	7.268	42	14502	23.811	ug/l	93
30) Chloroform	7.421	83	28505	4.863	ug/l	94
31) Cyclohexane	7.701	56	35904	5.880	ug/l #	89
32) 1,1,1-Trichloroethane	7.622	97	27801	5.170	ug/l	96
36) 1,1-Dichloropropene	7.841	75	22314	4.824	ug/l	97
37) Ethyl Acetate	6.994	43	11910	5.352	ug/l	96
38) Carbon Tetrachloride	7.823	117	22826	4.768	ug/l	98
39) Methylcyclohexane	9.109	83	31218	5.024	ug/l	98
40) Benzene	8.085	78	64430	4.699	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022253.D
 Acq On : 15 May 2025 09:46
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	7201m	4.422	ug/l	
42) 1,2-Dichloroethane	8.158	62	17934	4.837	ug/l	97
43) Isopropyl Acetate	8.201	43	23979	4.941	ug/l	99
44) Trichloroethene	8.872	130	16852	4.943	ug/l	95
45) 1,2-Dichloropropane	9.146	63	15855	4.796	ug/l	95
46) Dibromomethane	9.238	93	8879	4.980	ug/l	92
47) Bromodichloromethane	9.427	83	21906	4.736	ug/l #	95
48) Methyl methacrylate	9.225	41	10729	4.727	ug/l	98
49) 1,4-Dioxane	9.244	88	1962	97.404	ug/l #	78
51) 4-Methyl-2-Pentanone	10.000	43	55880	23.464	ug/l	97
52) Toluene	10.170	92	41001	4.722	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	21842	4.839	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	24609	4.758	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	11333	4.964	ug/l #	89
56) Ethyl methacrylate	10.438	69	17420	4.898	ug/l	98
57) 1,3-Dichloropropane	10.725	76	19684	4.852	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	33215	20.807	ug/l	100
59) 2-Hexanone	10.762	43	39307	24.617	ug/l	100
60) Dibromochloromethane	10.914	129	13908	4.693	ug/l	98
61) 1,2-Dibromoethane	11.018	107	10391	4.883	ug/l	94
64) Tetrachloroethene	10.652	164	18255	5.125	ug/l	96
65) Chlorobenzene	11.444	112	42844	4.927	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	14385	4.812	ug/l	99
67) Ethyl Benzene	11.524	91	77606	4.766	ug/l	99
68) m/p-Xylenes	11.633	106	57721	9.407	ug/l	99
69) o-Xylene	11.957	106	27130	4.673	ug/l	99
70) Styrene	11.975	104	45556	4.652	ug/l	99
71) Bromoform	12.133	173	7799	4.834	ug/l #	94
73) Isopropylbenzene	12.255	105	72325	5.017	ug/l	98
74) N-amyl acetate	12.072	43	20793	5.043	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.511	83	11422	5.152	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	9076m	2.960	ug/l	
77) Bromobenzene	12.536	156	15441	5.015	ug/l	97
78) n-propylbenzene	12.597	91	87533	5.034	ug/l	98
79) 2-Chlorotoluene	12.682	91	47245	4.944	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	59031	5.073	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	4676	5.373	ug/l	97
82) 4-Chlorotoluene	12.780	91	48737	4.959	ug/l	98
83) tert-Butylbenzene	12.999	119	52841	5.109	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	55488	4.804	ug/l	97
85) sec-Butylbenzene	13.176	105	76384	4.975	ug/l	97
86) p-Isopropyltoluene	13.292	119	62608	4.849	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	30564	4.863	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	30610	5.063	ug/l	96
89) n-Butylbenzene	13.621	91	59485	4.869	ug/l	99
90) Hexachloroethane	13.883	117	13445	5.158	ug/l	96
91) 1,2-Dichlorobenzene	13.664	146	26556	5.030	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1865	5.217	ug/l	98
93) 1,2,4-Trichlorobenzene	14.926	180	14961	4.906	ug/l	94
94) Hexachlorobutadiene	15.029	225	8887	5.226	ug/l	99
95) Naphthalene	15.151	128	29654	5.124	ug/l	98
96) 1,2,3-Trichlorobenzene	15.334	180	13097	5.063	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

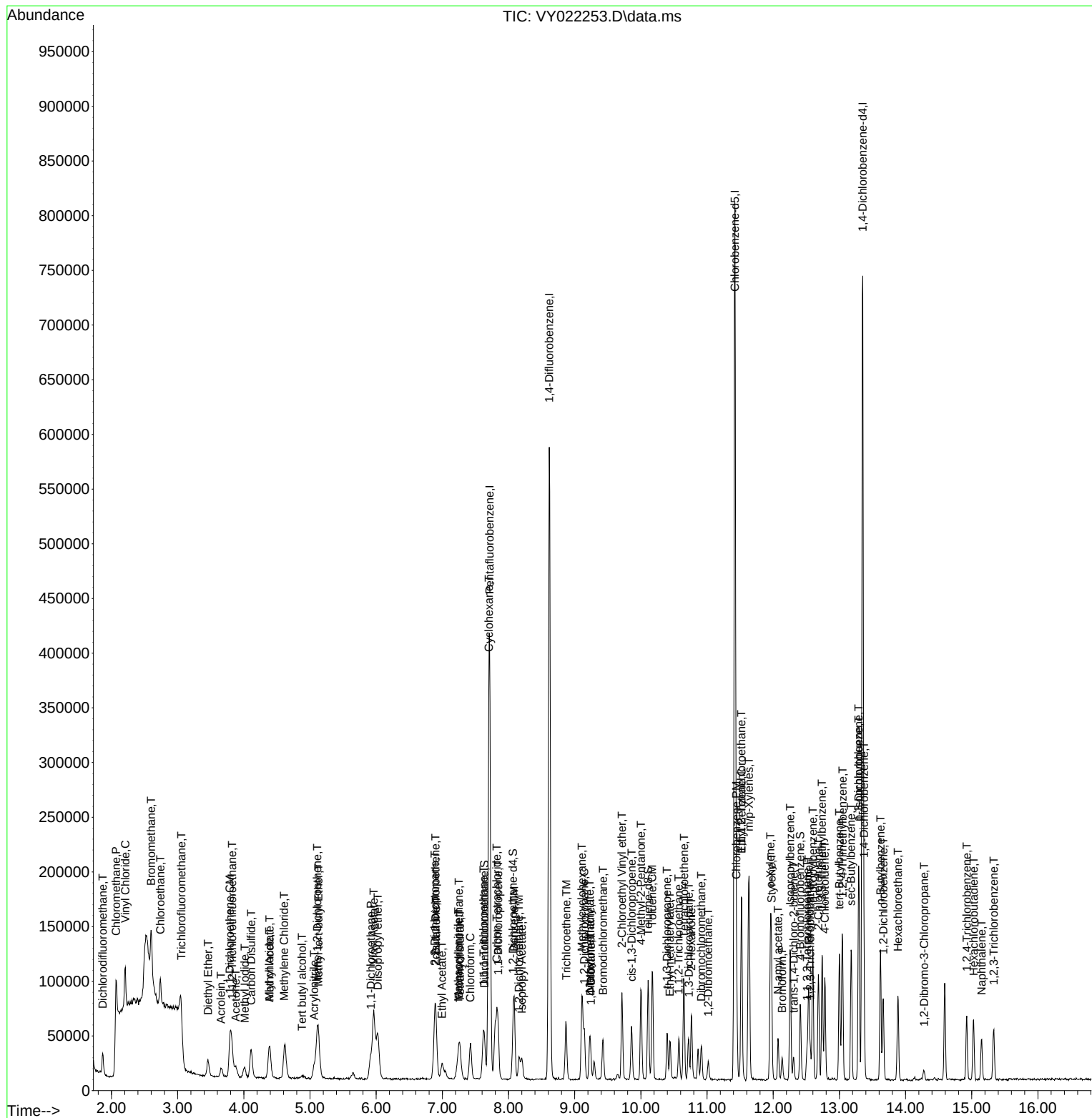
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022254.D
 Acq On : 15 May 2025 10:16
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	265034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	446109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	171972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	29608	10.222	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.440%#		
35) Dibromofluoromethane	7.634	113	26242	9.856	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.720%#		
50) Toluene-d8	10.109	98	107048	9.816	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.640%#		
62) 4-Bromofluorobenzene	12.408	95	34423	9.959	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.920%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	31097	11.245	ug/l	99
3) Chloromethane	2.068	50	65589	11.275	ug/l	98
4) Vinyl Chloride	2.202	62	69800	10.739	ug/l	95
5) Bromomethane	2.592	94	54773	10.352	ug/l	99
6) Chloroethane	2.732	64	43122	10.665	ug/l	99
7) Trichlorofluoromethane	3.056	101	68501	10.410	ug/l	99
8) Diethyl Ether	3.458	74	16945	10.730	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	30591	10.708	ug/l	99
10) Methyl Iodide	4.007	142	31088	9.402	ug/l	97
11) Tert butyl alcohol	4.878	59	12043	54.446	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	28831	10.170	ug/l	95
13) Acrolein	3.659	56	17927	55.439	ug/l	96
14) Allyl chloride	4.378	41	51275	10.315	ug/l	99
15) Acrylonitrile	5.061	53	33277	51.139	ug/l	100
16) Acetone	3.879	43	30229	55.657	ug/l	100
17) Carbon Disulfide	4.104	76	96591	10.448	ug/l	97
18) Methyl Acetate	4.385	43	16338	9.886	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	80714	10.326	ug/l	96
20) Methylene Chloride	4.622	84	42991	12.250	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	32258	10.309	ug/l	98
22) Diisopropyl ether	6.018	45	106493	10.145	ug/l	94
23) Vinyl Acetate	5.964	43	324651	51.192	ug/l	100
24) 1,1-Dichloroethane	5.915	63	60198	10.265	ug/l	97
25) 2-Butanone	6.896	43	48022	52.859	ug/l	98
26) 2,2-Dichloropropane	6.890	77	54264	10.403	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	36403	10.081	ug/l	98
28) Bromochloromethane	7.244	49	25664	10.259	ug/l	98
29) Tetrahydrofuran	7.274	42	30684	52.498	ug/l	98
30) Chloroform	7.421	83	57172	10.163	ug/l	100
31) Cyclohexane	7.701	56	63155	10.778	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	52856	10.242	ug/l	99
36) 1,1-Dichloropropene	7.835	75	44817	10.219	ug/l	97
37) Ethyl Acetate	6.994	43	20624	9.774	ug/l	97
38) Carbon Tetrachloride	7.817	117	46772	10.303	ug/l	97
39) Methylcyclohexane	9.109	83	60489	10.266	ug/l	98
40) Benzene	8.079	78	130423	10.032	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022254.D
 Acq On : 15 May 2025 10:16
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.250	41	16228m	10.510	ug/l	
42) 1,2-Dichloroethane	8.158	62	35565	10.115	ug/l	100
43) Isopropyl Acetate	8.201	43	47020	10.217	ug/l	98
44) Trichloroethene	8.865	130	32655	10.101	ug/l	99
45) 1,2-Dichloropropane	9.140	63	32172	10.264	ug/l	93
46) Dibromomethane	9.231	93	17134	10.135	ug/l	99
47) Bromodichloromethane	9.426	83	44045	10.042	ug/l	96
48) Methyl methacrylate	9.225	41	21202	9.851	ug/l	98
49) 1,4-Dioxane	9.231	88	3930	205.769	ug/l #	75
51) 4-Methyl-2-Pentanone	9.999	43	110396	48.889	ug/l	100
52) Toluene	10.170	92	82453	10.015	ug/l	96
53) t-1,3-Dichloropropene	10.396	75	42158	9.849	ug/l	96
54) cis-1,3-Dichloropropene	9.859	75	48923	9.976	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	21720	10.033	ug/l	97
56) Ethyl methacrylate	10.438	69	32286	9.574	ug/l	98
57) 1,3-Dichloropropane	10.719	76	38908	10.115	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	66700	44.066	ug/l	100
59) 2-Hexanone	10.761	43	74432	49.162	ug/l	99
60) Dibromochloromethane	10.914	129	28002	9.965	ug/l	99
61) 1,2-Dibromoethane	11.018	107	20378	10.099	ug/l	99
64) Tetrachloroethene	10.646	164	36274	10.404	ug/l	99
65) Chlorobenzene	11.444	112	83730	9.839	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	28441	9.721	ug/l	97
67) Ethyl Benzene	11.517	91	154155	9.672	ug/l	97
68) m/p-Xylenes	11.627	106	116113	19.334	ug/l	99
69) o-Xylene	11.956	106	55896	9.837	ug/l	96
70) Styrene	11.969	104	91569	9.553	ug/l	99
71) Bromoform	12.133	173	16151	10.228	ug/l #	95
73) Isopropylbenzene	12.255	105	144186	10.120	ug/l	99
74) N-amyl acetate	12.072	43	40345	9.901	ug/l	99
75) 1,1,1,2,2-Tetrachloroethane	12.505	83	22243	10.152	ug/l	96
76) 1,2,3-Trichloropropane	12.560	75	16056m	5.297	ug/l	
77) Bromobenzene	12.536	156	30445	10.005	ug/l	99
78) n-propylbenzene	12.597	91	173575	10.101	ug/l	100
79) 2-Chlorotoluene	12.682	91	95815	10.146	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	116461	10.126	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	8934	10.388	ug/l	94
82) 4-Chlorotoluene	12.779	91	97309	10.018	ug/l	99
83) tert-Butylbenzene	12.999	119	102274	10.005	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	115175	10.088	ug/l	99
85) sec-Butylbenzene	13.176	105	153443	10.112	ug/l	100
86) p-Isopropyltoluene	13.291	119	124147	9.728	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	61011	9.822	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	60723	10.163	ug/l	97
89) n-Butylbenzene	13.621	91	120371	9.970	ug/l	99
90) Hexachloroethane	13.883	117	26089	10.127	ug/l	97
91) 1,2-Dichlorobenzene	13.663	146	52282	10.020	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3588	10.155	ug/l	99
93) 1,2,4-Trichlorobenzene	14.925	180	29073	9.646	ug/l	99
94) Hexachlorobutadiene	15.023	225	16686	9.927	ug/l	98
95) Naphthalene	15.145	128	54307	9.495	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	24790	9.696	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

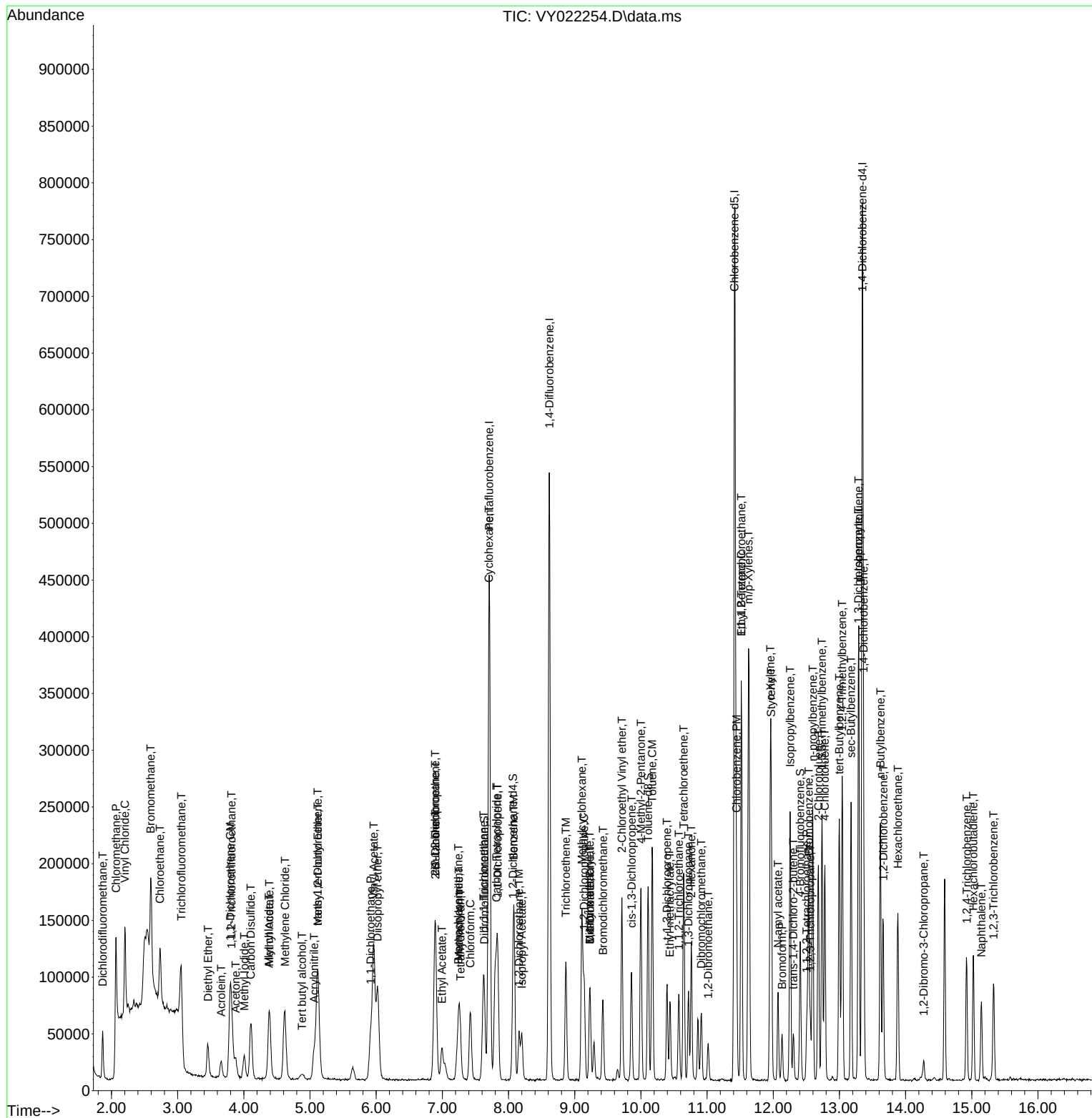
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022255.D
 Acq On : 15 May 2025 10:39
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	262008	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	439816	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	370072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	172509	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	55221	19.284	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	38.560%#
35) Dibromofluoromethane	7.634	113	51670	19.683	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	39.360%#
50) Toluene-d8	10.109	98	210206	19.552	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	39.100%#
62) 4-Bromofluorobenzene	12.408	95	64706	18.988	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	37.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	56737	20.753	ug/l	99
3) Chloromethane	2.068	50	120819	21.008	ug/l	97
4) Vinyl Chloride	2.202	62	132511	20.623	ug/l	96
5) Bromomethane	2.592	94	110855	21.194	ug/l	99
6) Chloroethane	2.732	64	83451	20.877	ug/l	99
7) Trichlorofluoromethane	3.050	101	132029	20.295	ug/l	97
8) Diethyl Ether	3.458	74	29651	18.993	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	57012	20.187	ug/l	98
10) Methyl Iodide	4.001	142	65018	19.891	ug/l	98
11) Tert butyl alcohol	4.872	59	19585	89.565	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	56630	20.206	ug/l	98
13) Acrolein	3.653	56	30106	94.178	ug/l	91
14) Allyl chloride	4.385	41	99483	20.244	ug/l	100
15) Acrylonitrile	5.061	53	60119	93.456	ug/l	100
16) Acetone	3.873	43	50198	93.491	ug/l	96
17) Carbon Disulfide	4.104	76	184860	20.228	ug/l	99
18) Methyl Acetate	4.391	43	29969	18.344	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	145976	18.890	ug/l	100
20) Methylene Chloride	4.616	84	67687	19.510	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	63174	20.422	ug/l	97
22) Diisopropyl ether	6.019	45	202960	19.558	ug/l	99
23) Vinyl Acetate	5.958	43	594019	94.748	ug/l	99
24) 1,1-Dichloroethane	5.915	63	115217	19.873	ug/l	99
25) 2-Butanone	6.896	43	82768	92.157	ug/l	93
26) 2,2-Dichloropropane	6.890	77	101725	19.727	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	70008	19.611	ug/l	98
28) Bromochloromethane	7.244	49	48933	19.787	ug/l	100
29) Tetrahydrofuran	7.262	42	53229	92.122	ug/l	98
30) Chloroform	7.421	83	111815	20.107	ug/l	98
31) Cyclohexane	7.695	56	112876	19.486	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	100618	19.721	ug/l	100
36) 1,1-Dichloropropene	7.835	75	85789	19.841	ug/l	99
37) Ethyl Acetate	6.988	43	38482	18.497	ug/l	99
38) Carbon Tetrachloride	7.817	117	86871	19.410	ug/l	98
39) Methylcyclohexane	9.109	83	113511	19.540	ug/l	98
40) Benzene	8.079	78	252507	19.700	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022255.D
 Acq On : 15 May 2025 10:39
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	26008m	17.085	ug/l	
42) 1,2-Dichloroethane	8.158	62	66525	19.192	ug/l	99
43) Isopropyl Acetate	8.201	43	84532	18.631	ug/l	97
44) Trichloroethene	8.866	130	63438	19.904	ug/l	96
45) 1,2-Dichloropropane	9.140	63	60438	19.557	ug/l	100
46) Dibromomethane	9.231	93	31752	19.050	ug/l	99
47) Bromodichloromethane	9.426	83	83823	19.385	ug/l	96
48) Methyl methacrylate	9.219	41	39387	18.563	ug/l	99
49) 1,4-Dioxane	9.237	88	7312	388.323	ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	202454	90.940	ug/l	99
52) Toluene	10.170	92	156498	19.281	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	80413	19.056	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	94074	19.458	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	40872	19.149	ug/l	99
56) Ethyl methacrylate	10.438	69	62193	18.706	ug/l	97
57) 1,3-Dichloropropane	10.713	76	72715	19.175	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	126240	84.595	ug/l	99
59) 2-Hexanone	10.762	43	132496	88.766	ug/l	100
60) Dibromochloromethane	10.914	129	52353	18.898	ug/l	98
61) 1,2-Dibromoethane	11.012	107	37735	18.969	ug/l	99
64) Tetrachloroethene	10.646	164	69548	20.332	ug/l	98
65) Chlorobenzene	11.438	112	163725	19.610	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	55078	19.189	ug/l	98
67) Ethyl Benzene	11.518	91	303375	19.402	ug/l	99
68) m/p-Xylenes	11.627	106	225990	38.355	ug/l	100
69) o-Xylene	11.956	106	106998	19.194	ug/l	100
70) Styrene	11.969	104	179114	19.048	ug/l	99
71) Bromoform	12.133	173	28788	18.582	ug/l #	98
73) Isopropylbenzene	12.255	105	282895	19.795	ug/l	100
74) N-amyl acetate	12.072	43	76841	18.799	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40064	18.228	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	35574m	11.701	ug/l	
77) Bromobenzene	12.530	156	58515	19.170	ug/l	99
78) n-propylbenzene	12.597	91	338383	19.630	ug/l	99
79) 2-Chlorotoluene	12.682	91	185872	19.621	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	225966	19.587	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	16653	19.302	ug/l	97
82) 4-Chlorotoluene	12.779	91	189350	19.433	ug/l	100
83) tert-Butylbenzene	12.999	119	200101	19.515	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	221194	19.315	ug/l	98
85) sec-Butylbenzene	13.176	105	297975	19.576	ug/l	100
86) p-Isopropyltoluene	13.292	119	246569	19.261	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	118336	18.991	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	117705	19.638	ug/l	99
89) n-Butylbenzene	13.615	91	240857	19.887	ug/l	99
90) Hexachloroethane	13.877	117	50762	19.643	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	102077	19.502	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6387	18.021	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	58490	19.346	ug/l	99
94) Hexachlorobutadiene	15.023	225	34228	20.301	ug/l	100
95) Naphthalene	15.145	128	105350	18.362	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	48444	18.888	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

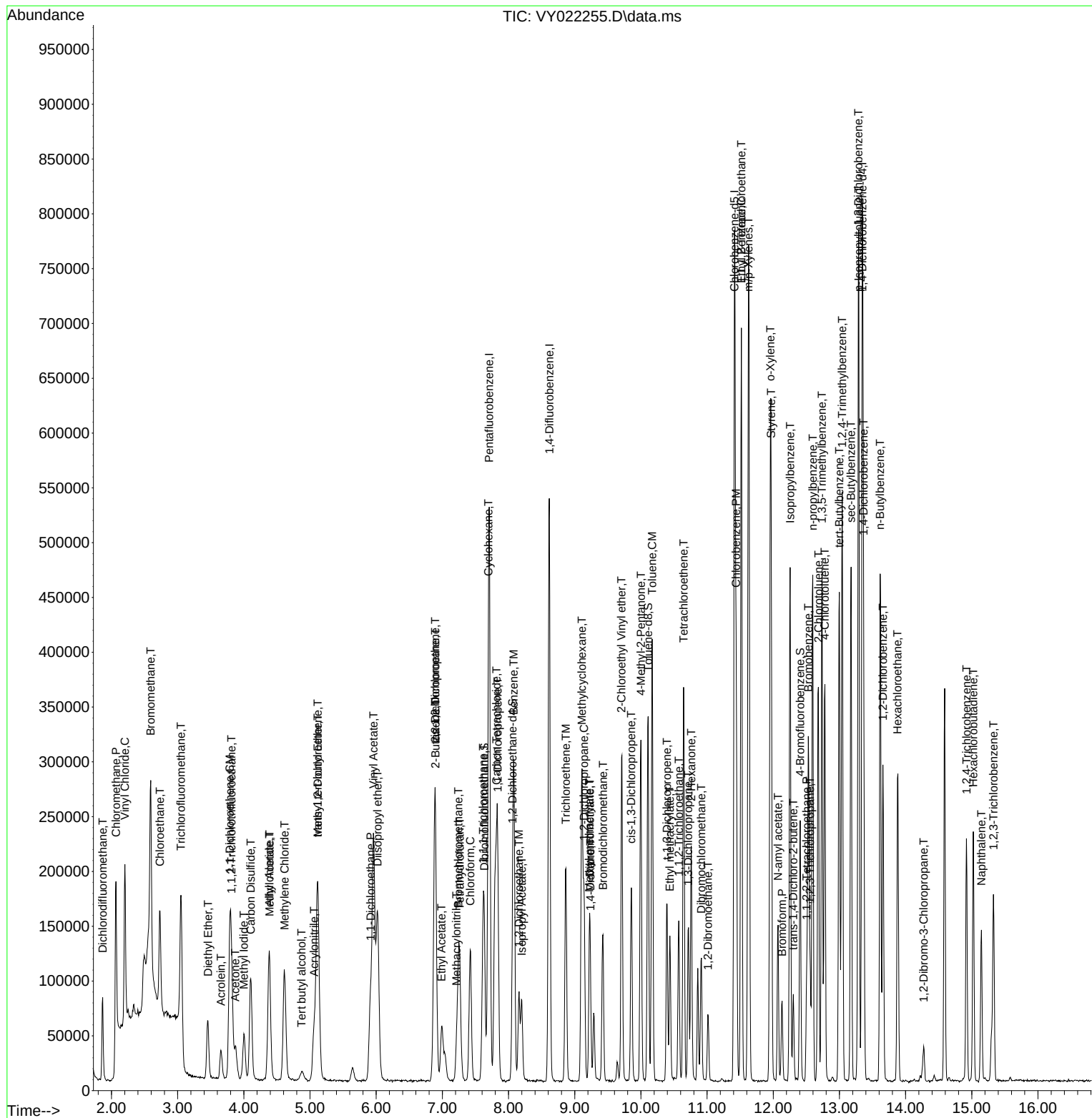
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022256.D
 Acq On : 15 May 2025 11:02
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	267598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	439323	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377571	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	180358	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	144713	49.481	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.960%
35) Dibromofluoromethane	7.634	113	132404	50.495	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.980%
50) Toluene-d8	10.103	98	540296	50.311	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.620%
62) 4-Bromofluorobenzene	12.408	95	169827	49.891	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.780%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	135726	48.608	ug/l	100
3) Chloromethane	2.062	50	278892	47.481	ug/l	100
4) Vinyl Chloride	2.202	62	323792	49.341	ug/l	100
5) Bromomethane	2.592	94	234736	43.941	ug/l	100
6) Chloroethane	2.732	64	202370	49.569	ug/l	100
7) Trichlorofluoromethane	3.050	101	324887	48.898	ug/l	100
8) Diethyl Ether	3.452	74	78670	49.338	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	144018	49.930	ug/l	100
10) Methyl Iodide	4.007	142	183918	55.091	ug/l	100
11) Tert butyl alcohol	4.872	59	51598	231.036	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	144103	50.344	ug/l	100
13) Acrolein	3.653	56	75423	231.010	ug/l	100
14) Allyl chloride	4.379	41	256499	51.106	ug/l	100
15) Acrylonitrile	5.061	53	160496	244.283	ug/l	100
16) Acetone	3.873	43	124421	226.888	ug/l	100
17) Carbon Disulfide	4.104	76	468979	50.244	ug/l	100
18) Methyl Acetate	4.385	43	80820	48.436	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	390412	49.466	ug/l	100
20) Methylene Chloride	4.616	84	159764	45.087	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	158544	50.181	ug/l	100
22) Diisopropyl ether	6.019	45	531560	50.152	ug/l	100
23) Vinyl Acetate	5.958	43	1570214	245.223	ug/l	100
24) 1,1-Dichloroethane	5.915	63	298823	50.465	ug/l	100
25) 2-Butanone	6.896	43	215828	235.291	ug/l	100
26) 2,2-Dichloropropane	6.884	77	264141	50.153	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	184842	50.698	ug/l	100
28) Bromochloromethane	7.244	49	126541	50.100	ug/l	100
29) Tetrahydrofuran	7.262	42	142772	241.931	ug/l	100
30) Chloroform	7.421	83	288708	50.831	ug/l	100
31) Cyclohexane	7.701	56	282375	47.728	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	259382	49.777	ug/l	100
36) 1,1-Dichloropropene	7.835	75	221943	51.388	ug/l	100
37) Ethyl Acetate	6.988	43	102924	49.529	ug/l	100
38) Carbon Tetrachloride	7.817	117	226903	50.754	ug/l	100
39) Methylcyclohexane	9.109	83	294336	50.726	ug/l	100
40) Benzene	8.079	78	658644	51.442	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022256.D
 Acq On : 15 May 2025 11:02
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	69476m	45.691	ug/l	
42) 1,2-Dichloroethane	8.158	62	176425	50.954	ug/l	100
43) Isopropyl Acetate	8.195	43	225628	49.785	ug/l	100
44) Trichloroethene	8.866	130	162802	51.138	ug/l	100
45) 1,2-Dichloropropane	9.140	63	156870	50.819	ug/l	100
46) Dibromomethane	9.231	93	82994	49.849	ug/l	100
47) Bromodichloromethane	9.420	83	222159	51.435	ug/l	100
48) Methyl methacrylate	9.219	41	105390	49.726	ug/l	100
49) 1,4-Dioxane	9.231	88	18027	958.446	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	556123	250.085	ug/l	100
52) Toluene	10.170	92	414584	51.134	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	213993	50.768	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	246990	51.143	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	106676	50.036	ug/l	100
56) Ethyl methacrylate	10.438	69	167259	50.364	ug/l	100
57) 1,3-Dichloropropane	10.719	76	192275	50.759	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	403074	270.408	ug/l	100
59) 2-Hexanone	10.762	43	365111	244.881	ug/l	100
60) Dibromochloromethane	10.908	129	141896	51.278	ug/l	100
61) 1,2-Dibromoethane	11.012	107	99822	50.236	ug/l	100
64) Tetrachloroethene	10.646	164	178854	51.249	ug/l	100
65) Chlorobenzene	11.438	112	435874	51.169	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	148798	50.811	ug/l	100
67) Ethyl Benzene	11.518	91	821168	51.473	ug/l	100
68) m/p-Xylenes	11.627	106	617646	102.746	ug/l	100
69) o-Xylene	11.950	106	289897	50.971	ug/l	100
70) Styrene	11.969	104	491792	51.260	ug/l	100
71) Bromoform	12.133	173	78794	49.849	ug/l #	100
73) Isopropylbenzene	12.255	105	756905	50.657	ug/l	100
74) N-amyl acetate	12.066	43	209097	48.930	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	113234	49.277	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	90281m	28.402	ug/l	
77) Bromobenzene	12.530	156	161475	50.599	ug/l	100
78) n-propylbenzene	12.597	91	924664	51.306	ug/l	100
79) 2-Chlorotoluene	12.676	91	505684	51.058	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	615033	50.991	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	42692	47.331	ug/l	100
82) 4-Chlorotoluene	12.773	91	524270	51.464	ug/l	100
83) tert-Butylbenzene	12.999	119	546231	50.952	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	615550	51.410	ug/l	100
85) sec-Butylbenzene	13.176	105	824725	51.825	ug/l	100
86) p-Isopropyltoluene	13.292	119	688561	51.446	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	331536	50.890	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	315598	50.363	ug/l	100
89) n-Butylbenzene	13.615	91	661532	52.245	ug/l	100
90) Hexachloroethane	13.877	117	137225	50.791	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	276666	50.558	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18039	48.682	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	162275	51.338	ug/l	100
94) Hexachlorobutadiene	15.023	225	90452	51.313	ug/l	100
95) Naphthalene	15.145	128	298075	49.692	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	135673	50.596	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

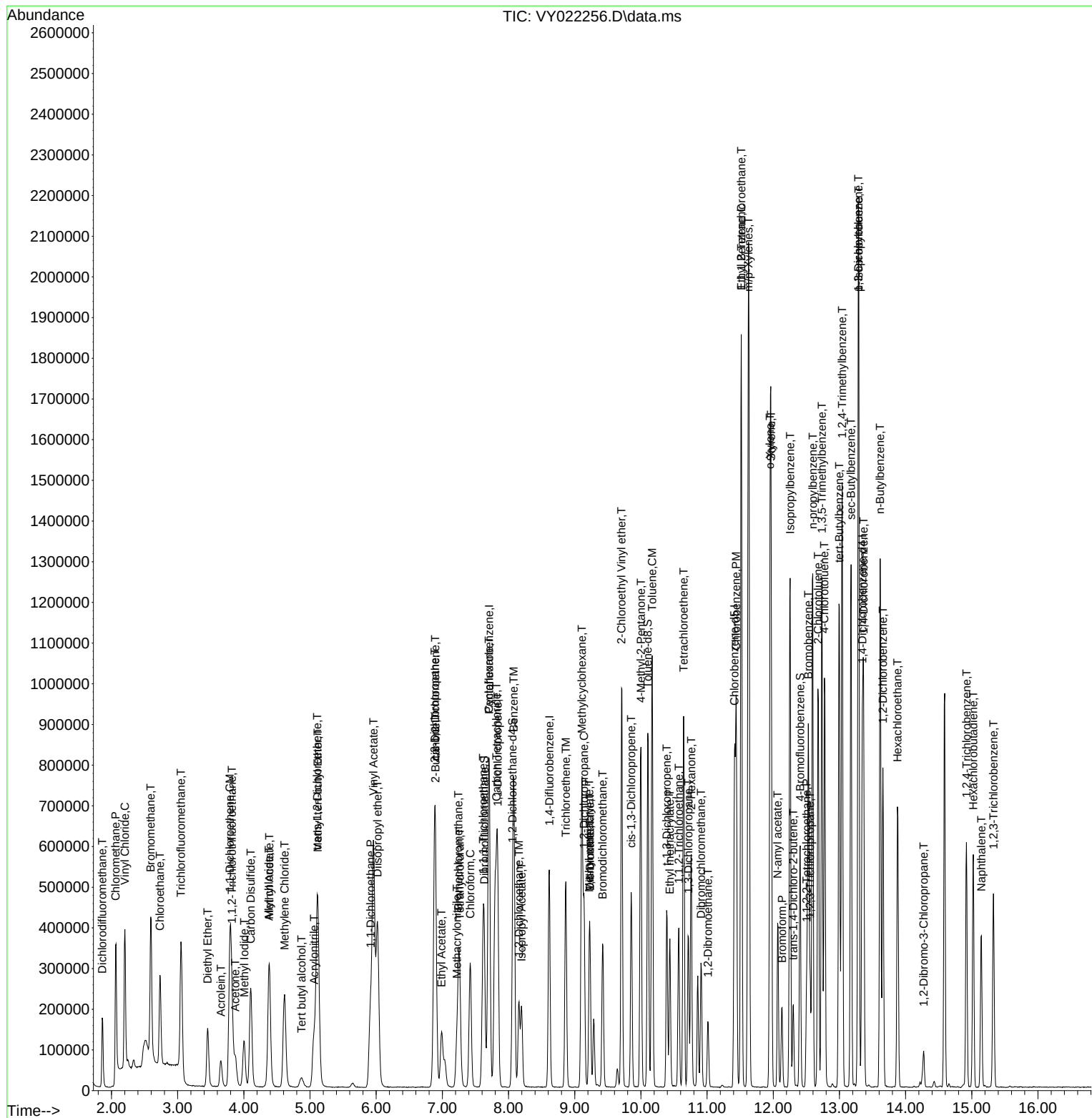
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022256.D
 Acq On : 15 May 2025 11:02
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Quant Time: May 16 01:23:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022257.D
 Acq On : 15 May 2025 11:24
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	268393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	443341	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	385348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	189780	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	292533	99.729	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 199.460%#			
35) Dibromofluoromethane	7.634	113	262995	99.389	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 198.780%#			
50) Toluene-d8	10.103	98	1076035	99.289	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 198.580%#			
62) 4-Bromofluorobenzene	12.408	95	343397	99.968	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 199.940%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	252438	90.138	ug/l	99
3) Chloromethane	2.062	50	561441	95.302	ug/l	100
4) Vinyl Chloride	2.202	62	639001	97.085	ug/l	96
5) Bromomethane	2.586	94	512452	95.642	ug/l	98
6) Chloroethane	2.732	64	393556	96.113	ug/l	99
7) Trichlorofluoromethane	3.049	101	650265	97.581	ug/l	100
8) Diethyl Ether	3.452	74	158375	99.031	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	272288	94.120	ug/l	99
10) Methyl Iodide	4.000	142	349345	104.334	ug/l	100
11) Tert butyl alcohol	4.872	59	112593	502.655	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	277897	96.798	ug/l	97
13) Acrolein	3.653	56	156649	478.373	ug/l	99
14) Allyl chloride	4.378	41	500514	99.429	ug/l	100
15) Acrylonitrile	5.055	53	340325	516.458	ug/l	99
16) Acetone	3.872	43	252327	458.767	ug/l	99
17) Carbon Disulfide	4.104	76	901081	96.251	ug/l	99
18) Methyl Acetate	4.385	43	185837	111.043	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	807404	101.997	ug/l	98
20) Methylene Chloride	4.610	84	305912	86.076	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	311460	98.288	ug/l	97
22) Diisopropyl ether	6.018	45	1075035	101.128	ug/l	99
23) Vinyl Acetate	5.957	43	3259000	507.456	ug/l	100
24) 1,1-Dichloroethane	5.915	63	586479	98.750	ug/l	99
25) 2-Butanone	6.890	43	467301	507.932	ug/l	97
26) 2,2-Dichloropropane	6.884	77	515990	97.682	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	368826	100.861	ug/l	100
28) Bromochloromethane	7.244	49	251676	99.349	ug/l	100
29) Tetrahydrofuran	7.262	42	312286	527.609	ug/l	100
30) Chloroform	7.421	83	565823	99.326	ug/l	98
31) Cyclohexane	7.701	56	535839	90.301	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	506927	96.995	ug/l	100
36) 1,1-Dichloropropene	7.835	75	429153	98.465	ug/l	99
37) Ethyl Acetate	6.982	43	213152	101.642	ug/l	99
38) Carbon Tetrachloride	7.817	117	451589	100.097	ug/l	98
39) Methylcyclohexane	9.109	83	566259	96.704	ug/l	98
40) Benzene	8.079	78	1313733	101.677	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022257.D
 Acq On : 15 May 2025 11:24
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	131157m	85.474	ug/l	
42) 1,2-Dichloroethane	8.158	62	356974	102.165	ug/l	100
43) Isopropyl Acetate	8.195	43	473430	103.517	ug/l	99
44) Trichloroethene	8.865	130	315543	98.218	ug/l	97
45) 1,2-Dichloropropane	9.140	63	314179	100.858	ug/l	98
46) Dibromomethane	9.231	93	170712	101.606	ug/l	99
47) Bromodichloromethane	9.420	83	446829	102.514	ug/l	99
48) Methyl methacrylate	9.219	41	229512	107.308	ug/l	100
49) 1,4-Dioxane	9.231	88	37780	1990.455	ug/l	98
51) 4-Methyl-2-Pentanone	9.999	43	1218685	543.068	ug/l	100
52) Toluene	10.170	92	839400	102.593	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	441672	103.832	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	498023	102.190	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	219460	102.005	ug/l	99
56) Ethyl methacrylate	10.438	69	353013	105.335	ug/l	98
57) 1,3-Dichloropropane	10.719	76	391514	102.420	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	872907	580.295	ug/l	99
59) 2-Hexanone	10.761	43	809288	537.872	ug/l	100
60) Dibromochloromethane	10.908	129	292143	104.616	ug/l	99
61) 1,2-Dibromoethane	11.011	107	207266	103.362	ug/l	99
64) Tetrachloroethene	10.646	164	343677	96.489	ug/l	99
65) Chlorobenzene	11.438	112	881086	101.346	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	307866	103.007	ug/l	99
67) Ethyl Benzene	11.517	91	1674355	102.836	ug/l	99
68) m/p-Xylenes	11.627	106	1271299	207.213	ug/l	100
69) o-Xylene	11.956	106	602390	103.777	ug/l	99
70) Styrene	11.969	104	1028498	105.038	ug/l	100
71) Bromoform	12.133	173	168679	104.561	ug/l #	99
73) Isopropylbenzene	12.255	105	1528857	97.241	ug/l	99
74) N-amyl acetate	12.066	43	468707	104.235	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	244830	101.255	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	197600m	59.078	ug/l	
77) Bromobenzene	12.529	156	337329	100.456	ug/l	99
78) n-propylbenzene	12.597	91	1846449	97.365	ug/l	100
79) 2-Chlorotoluene	12.676	91	1026401	98.488	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1233838	97.216	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	93252	98.251	ug/l	98
82) 4-Chlorotoluene	12.779	91	1061772	99.052	ug/l	99
83) tert-Butylbenzene	12.999	119	1092617	96.859	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1263612	100.297	ug/l	100
85) sec-Butylbenzene	13.176	105	1634720	97.623	ug/l	100
86) p-Isopropyltoluene	13.291	119	1424684	101.161	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	697868	101.803	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	654104	99.199	ug/l	99
89) n-Butylbenzene	13.615	91	1310061	98.327	ug/l	99
90) Hexachloroethane	13.877	117	275652	96.961	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	576915	100.192	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	41275	105.859	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	342939	103.107	ug/l	100
94) Hexachlorobutadiene	15.023	225	180060	97.075	ug/l	100
95) Naphthalene	15.145	128	674950	106.935	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	294823	104.488	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

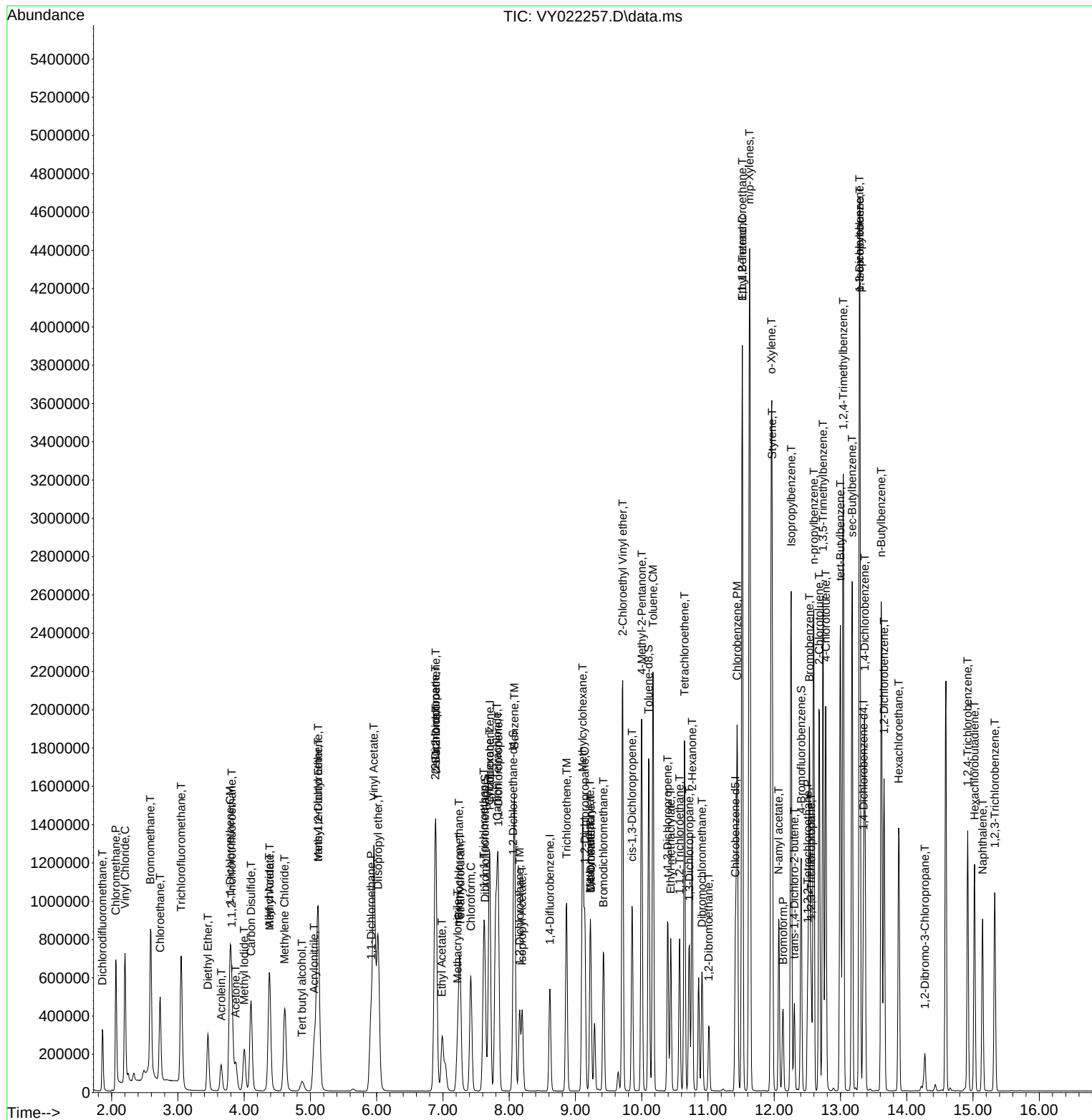
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022258.D
 Acq On : 15 May 2025 11:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 05/16/2025
 Supervised By : Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	271027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	442917	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	389769	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	187978	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	455385	153.739	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 307.480%#			
35) Dibromofluoromethane	7.634	113	412318	155.969	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 311.940%#			
50) Toluene-d8	10.103	98	1689714	156.065	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 312.120%#			
62) 4-Bromofluorobenzene	12.402	95	541367	157.751	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 315.500%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	389593	137.760	ug/l	100
3) Chloromethane	2.068	50	727243	122.246	ug/l	99
4) Vinyl Chloride	2.202	62	902596	135.801	ug/l	97
5) Bromomethane	2.586	94	780107	144.182	ug/l	99
6) Chloroethane	2.727	64	590870	142.898	ug/l	98
7) Trichlorofluoromethane	3.050	101	989291	147.013	ug/l	99
8) Diethyl Ether	3.452	74	236216	146.270	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	422397	144.588	ug/l	100
10) Methyl Iodide	4.001	142	518980	153.489	ug/l	98
11) Tert butyl alcohol	4.866	59	172549	762.834	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	425285	146.697	ug/l	97
13) Acrolein	3.653	56	237291	717.595	ug/l	98
14) Allyl chloride	4.379	41	756728	148.866	ug/l	100
15) Acrylonitrile	5.055	53	512850	770.708	ug/l	100
16) Acetone	3.873	43	375443	675.976	ug/l	99
17) Carbon Disulfide	4.104	76	1365378	144.429	ug/l	100
18) Methyl Acetate	4.385	43	282084	166.915	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1225258	153.279	ug/l	98
20) Methylene Chloride	4.616	84	448817	125.059	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	472143	147.547	ug/l	99
22) Diisopropyl ether	6.019	45	1626927	151.557	ug/l	99
23) Vinyl Acetate	5.958	43	4953644	763.831	ug/l	100
24) 1,1-Dichloroethane	5.915	63	879785	146.697	ug/l	99
25) 2-Butanone	6.890	43	708010	762.091	ug/l	98
26) 2,2-Dichloropropane	6.884	77	787195	147.575	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	563503	152.601	ug/l	100
28) Bromochloromethane	7.244	49	387221	151.369	ug/l	100
29) Tetrahydrofuran	7.262	42	472224	790.072	ug/l	100
30) Chloroform	7.421	83	859317	149.381	ug/l	98
31) Cyclohexane	7.701	56	821784	137.144	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	784014	148.554	ug/l	99
36) 1,1-Dichloropropene	7.835	75	658871	151.316	ug/l	99
37) Ethyl Acetate	6.982	43	320686	153.067	ug/l	99
38) Carbon Tetrachloride	7.817	117	696139	154.450	ug/l	100
39) Methylcyclohexane	9.110	83	886329	151.510	ug/l	98
40) Benzene	8.079	78	1987535	153.973	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022258.D
 Acq On : 15 May 2025 11:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	202603m	132.161	ug/l	
42) 1,2-Dichloroethane	8.159	62	534517	153.124	ug/l	99
43) Isopropyl Acetate	8.195	43	704366	154.159	ug/l #	89
44) Trichloroethene	8.866	130	481990	150.171	ug/l	96
45) 1,2-Dichloropropane	9.140	63	472217	151.736	ug/l	97
46) Dibromomethane	9.231	93	258087	153.757	ug/l	99
47) Bromodichloromethane	9.420	83	669834	153.824	ug/l	99
48) Methyl methacrylate	9.219	41	344147	161.060	ug/l	99
49) 1,4-Dioxane	9.231	88	61019	3217.888	ug/l	95
51) 4-Methyl-2-Pentanone	10.000	43	1829015	815.822	ug/l	99
52) Toluene	10.170	92	1276917	156.216	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	663513	156.134	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	754493	154.963	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	330716	153.863	ug/l	99
56) Ethyl methacrylate	10.439	69	535897	160.058	ug/l	99
57) 1,3-Dichloropropane	10.719	76	584253	152.987	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	1350536	898.675	ug/l	99
59) 2-Hexanone	10.762	43	1227881	816.860	ug/l	99
60) Dibromochloromethane	10.908	129	438666	157.237	ug/l	99
61) 1,2-Dibromoethane	11.012	107	308529	154.008	ug/l	99
64) Tetrachloroethene	10.646	164	501627	139.237	ug/l	100
65) Chlorobenzene	11.438	112	1336594	151.997	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	480525	158.952	ug/l	100
67) Ethyl Benzene	11.518	91	2598027	157.756	ug/l	99
68) m/p-Xylenes	11.627	106	1992413	321.066	ug/l	99
69) o-Xylene	11.957	106	937727	159.714	ug/l	99
70) Styrene	11.969	104	1613798	162.944	ug/l	100
71) Bromoform	12.133	173	254251	155.818	ug/l #	99
73) Isopropylbenzene	12.255	105	2357568	151.387	ug/l	100
74) N-amyl acetate	12.066	43	694999	156.041	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	375378	156.735	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	289968m	87.525	ug/l	
77) Bromobenzene	12.530	156	509579	153.206	ug/l	99
78) n-propylbenzene	12.591	91	2822794	150.276	ug/l	100
79) 2-Chlorotoluene	12.676	91	1563003	151.415	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1888432	150.219	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	139931	148.846	ug/l	99
82) 4-Chlorotoluene	12.774	91	1616520	152.250	ug/l	99
83) tert-Butylbenzene	12.993	119	1699962	152.144	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	1934641	155.030	ug/l	100
85) sec-Butylbenzene	13.176	105	2493393	150.330	ug/l	100
86) p-Isopropyltoluene	13.292	119	2205275	158.088	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	1079479	158.981	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	969874	148.497	ug/l	99
89) n-Butylbenzene	13.615	91	1992554	150.985	ug/l	99
90) Hexachloroethane	13.877	117	417341	148.208	ug/l	99
91) 1,2-Dichlorobenzene	13.658	146	858733	150.565	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	58383	151.172	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	508537	154.361	ug/l	99
94) Hexachlorobutadiene	15.023	225	261832	142.514	ug/l	100
95) Naphthalene	15.139	128	979369	156.653	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	426231	152.509	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

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

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

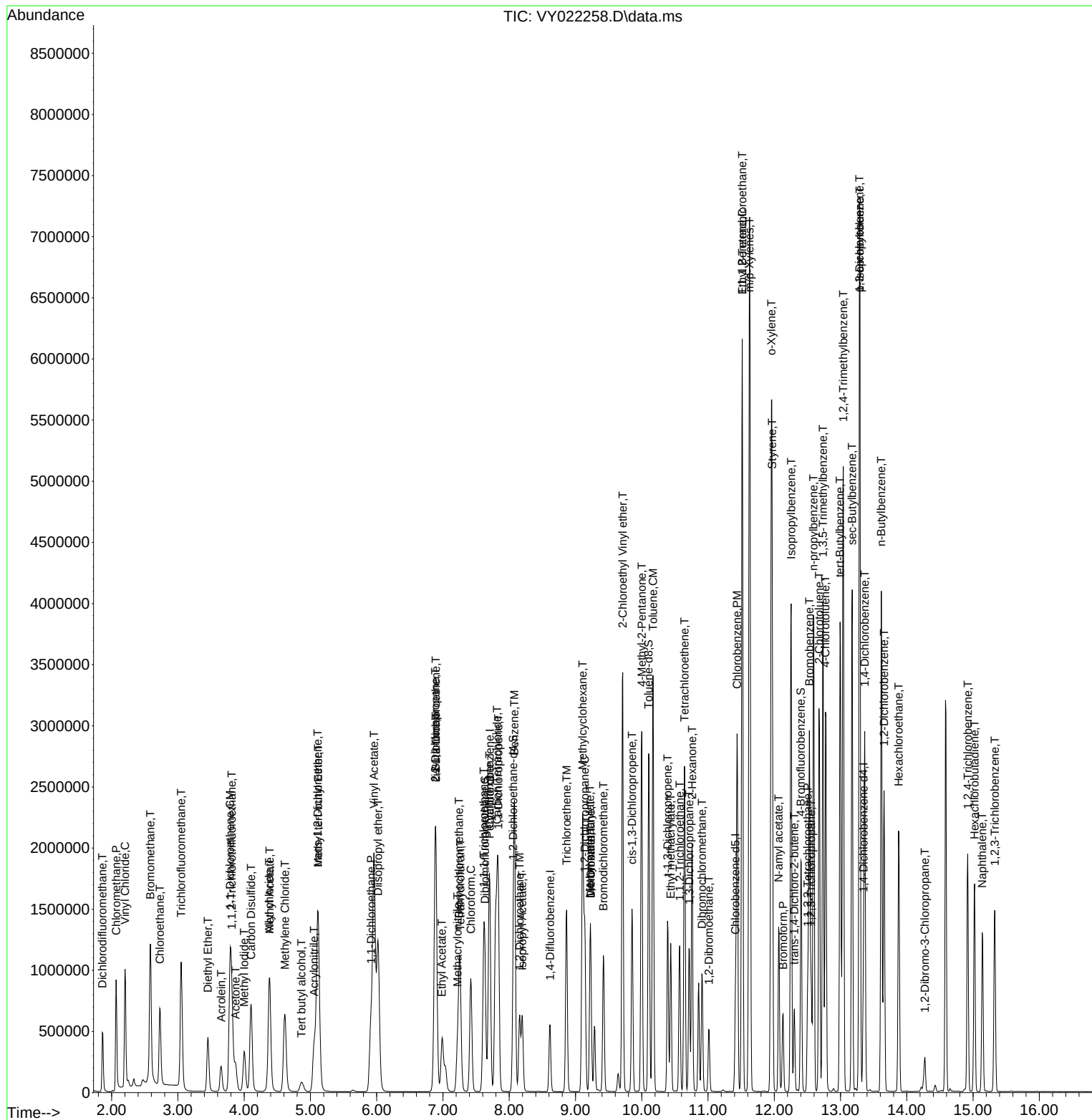
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022258.D
 Acq On : 15 May 2025 11:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:19:39 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY051525

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	252715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	428969	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	375548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	178387	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	143909	52.104	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.200%			
35) Dibromofluoromethane	7.634	113	132263	51.658	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.320%			
50) Toluene-d8	10.109	98	537188	51.229	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.408	95	169575	51.020	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.040%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	130352	49.432	ug/l	97
3) Chloromethane	2.068	50	270248	48.719	ug/l	98
4) Vinyl Chloride	2.202	62	316755	51.111	ug/l	99
5) Bromomethane	2.598	94	244611	48.486	ug/l	99
6) Chloroethane	2.732	64	205247	53.234	ug/l	99
7) Trichlorofluoromethane	3.056	101	321098	51.174	ug/l	99
8) Diethyl Ether	3.458	74	78386	52.055	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	140460	51.564	ug/l	100
10) Methyl Iodide	4.007	142	156397	49.606	ug/l	99
11) Tert butyl alcohol	4.872	59	55922	265.144	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	139180	51.487	ug/l	98
13) Acrolein	3.653	56	73495	238.362	ug/l	98
14) Allyl chloride	4.378	41	250342	52.817	ug/l	100
15) Acrylonitrile	5.055	53	164507	265.134	ug/l	99
16) Acetone	3.872	43	130848	252.660	ug/l	99
17) Carbon Disulfide	4.104	76	456302	51.765	ug/l	99
18) Methyl Acetate	4.385	43	97091	59.461	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	395753	53.096	ug/l	99
20) Methylene Chloride	4.610	84	158275	47.298	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	153819	51.552	ug/l	98
22) Diisopropyl ether	6.018	45	521343	52.085	ug/l	99
23) Vinyl Acetate	5.957	43	1530507	253.098	ug/l	99
24) 1,1-Dichloroethane	5.915	63	288933	51.668	ug/l	97
25) 2-Butanone	6.896	43	221702	255.929	ug/l	97
26) 2,2-Dichloropropane	6.884	77	259587	52.191	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	180695	52.479	ug/l	100
28) Bromochloromethane	7.250	49	124761	52.305	ug/l	99
29) Tetrahydrofuran	7.262	42	147603	264.847	ug/l	99
30) Chloroform	7.421	83	283264	52.810	ug/l	100
31) Cyclohexane	7.701	56	271949	48.673	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	253549	51.523	ug/l	99
36) 1,1-Dichloropropene	7.835	75	212786	50.457	ug/l	99
37) Ethyl Acetate	6.982	43	102740	50.633	ug/l	98
38) Carbon Tetrachloride	7.817	117	220636	50.543	ug/l	98
39) Methylcyclohexane	9.109	83	283373	50.015	ug/l	98
40) Benzene	8.079	78	646289	51.696	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY051525

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	72143m	53.599	ug/l	
42) 1,2-Dichloroethane	8.158	62	175241	51.834	ug/l	100
43) Isopropyl Acetate	8.195	43	227521	51.415	ug/l #	89
44) Trichloroethene	8.865	130	156468	50.335	ug/l	96
45) 1,2-Dichloropropane	9.140	63	154975	51.417	ug/l	99
46) Dibromomethane	9.231	93	83597	51.423	ug/l	100
47) Bromodichloromethane	9.426	83	221446	52.508	ug/l	99
48) Methyl methacrylate	9.219	41	106283	51.357	ug/l	98
49) 1,4-Dioxane	9.231	88	18521	1008.479	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	567722	261.463	ug/l	99
52) Toluene	10.170	92	406420	51.337	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	211790	51.458	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	244811	51.916	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	106464	51.142	ug/l	99
56) Ethyl methacrylate	10.438	69	164207	50.639	ug/l	99
57) 1,3-Dichloropropane	10.719	76	191889	51.880	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	394587	271.104	ug/l	100
59) 2-Hexanone	10.761	43	375224	257.738	ug/l	100
60) Dibromochloromethane	10.914	129	141652	52.425	ug/l	99
61) 1,2-Dibromoethane	11.018	107	99783	51.428	ug/l	99
64) Tetrachloroethene	10.646	164	162818	46.905	ug/l	99
65) Chlorobenzene	11.444	112	422170	49.827	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	144636	49.656	ug/l	99
67) Ethyl Benzene	11.517	91	794978	50.100	ug/l	99
68) m/p-Xylenes	11.627	106	604420	101.087	ug/l	99
69) o-Xylene	11.956	106	286712	50.682	ug/l	98
70) Styrene	11.969	104	481621	50.471	ug/l	99
71) Bromoform	12.133	173	80216	51.022	ug/l #	100
73) Isopropylbenzene	12.255	105	738398	49.964	ug/l	100
74) N-amyl acetate	12.072	43	210510	49.805	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	120599	53.062	ug/l	97
76) 1,2,3-Trichloropropane	12.560	75	96804m	53.564	ug/l	
77) Bromobenzene	12.536	156	155843	49.374	ug/l	97
78) n-propylbenzene	12.596	91	896555	50.296	ug/l	100
79) 2-Chlorotoluene	12.682	91	491073	50.130	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	592100	49.632	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	43921	49.231	ug/l	99
82) 4-Chlorotoluene	12.779	91	510451	50.661	ug/l	100
83) tert-Butylbenzene	12.999	119	527140	49.715	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	598450	50.535	ug/l	99
85) sec-Butylbenzene	13.176	105	787000	50.000	ug/l	100
86) p-Isopropyltoluene	13.291	119	664795	50.219	ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	320357	49.718	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	307847	49.669	ug/l	98
89) n-Butylbenzene	13.621	91	631222	50.402	ug/l	100
90) Hexachloroethane	13.883	117	132281	49.502	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	270373	49.954	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18335	50.028	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	152548	48.794	ug/l	99
94) Hexachlorobutadiene	15.023	225	83287	47.770	ug/l	99
95) Naphthalene	15.145	128	287276	48.421	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	127466	48.060	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

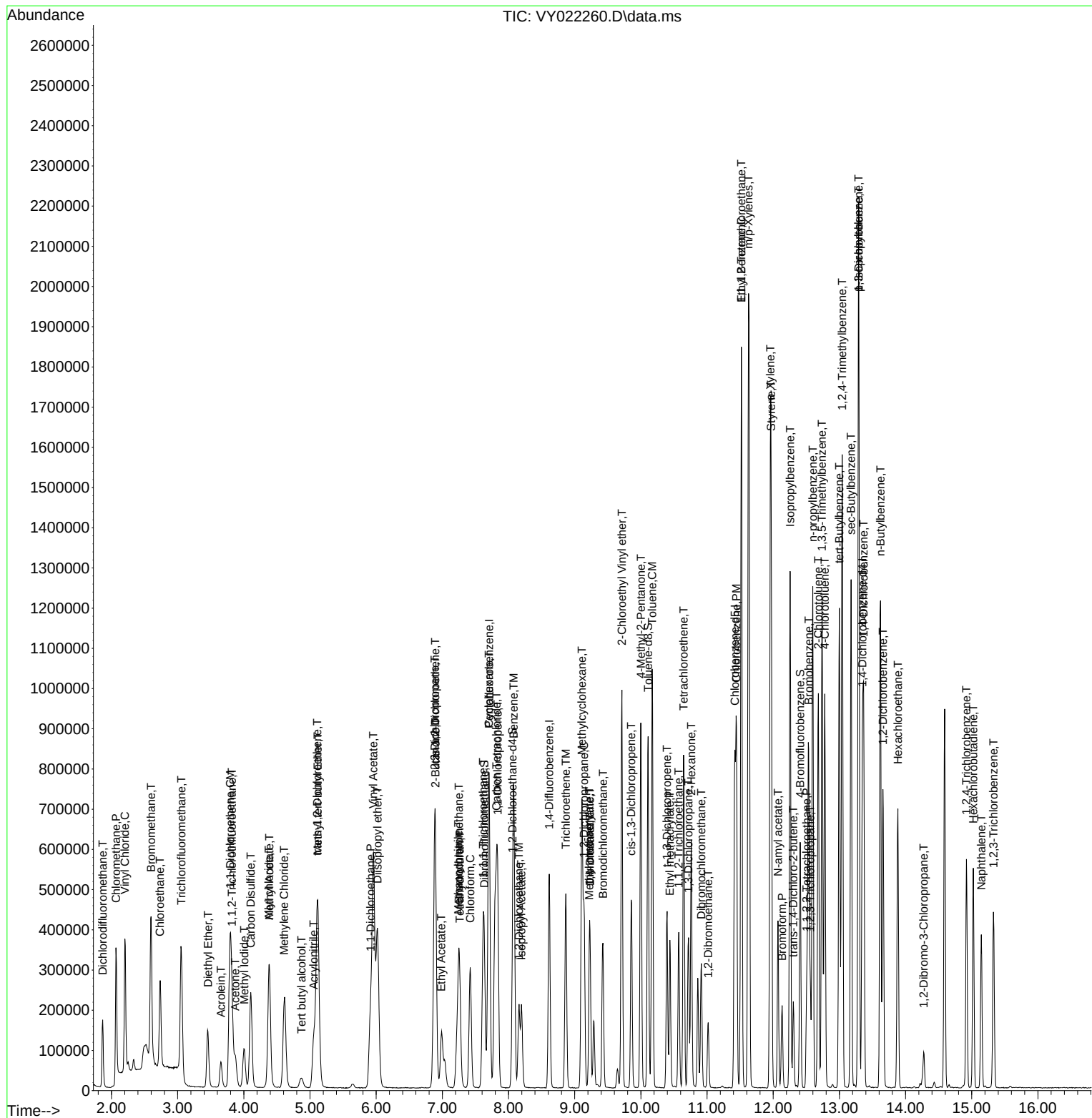
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
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Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
 Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY051525

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	94	0.00
2 T	Dichlorodifluoromethane	0.522	0.516	1.1	96	0.00
3 P	Chloromethane	1.097	1.069	2.6	97	0.00
4 C	Vinyl Chloride	1.226	1.253	-2.2#	98	0.00
5 T	Bromomethane	0.998	0.968	3.0	104	0.00
6 T	Chloroethane	0.763	0.812	-6.4	101	0.00
7 T	Trichlorofluoromethane	1.241	1.271	-2.4	99	0.00
8 T	Diethyl Ether	0.298	0.310	-4.0	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.556	-3.2	98	0.00
10 T	Methyl Iodide	0.624	0.619	0.8	85	0.00
11 T	Tert butyl alcohol	0.042	0.044	-4.8	108	0.00
12 CM	1,1-Dichloroethene	0.535	0.551	-3.0#	97	0.00
13 T	Acrolein	0.061	0.058	4.9	97	0.00
14 T	Allyl chloride	0.938	0.991	-5.7	98	0.00
15 T	Acrylonitrile	0.123	0.130	-5.7	102	0.00
16 T	Acetone	0.102	0.104	-2.0	105	0.00
17 T	Carbon Disulfide	1.744	1.806	-3.6	97	0.00
18 T	Methyl Acetate	0.323	0.384	-18.9	120	0.00
19 T	Methyl tert-butyl Ether	1.475	1.566	-6.2	101	0.00
20 T	Methylene Chloride	0.662	0.626	5.4	99	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.609	-3.2	97	0.00
22 T	Diisopropyl ether	1.980	2.063	-4.2	98	0.00
23 T	Vinyl Acetate	1.196	1.211	-1.3	97	0.00
24 P	1,1-Dichloroethane	1.106	1.143	-3.3	97	0.00
25 T	2-Butanone	0.171	0.175	-2.3	103	0.00
26 T	2,2-Dichloropropane	0.984	1.027	-4.4	98	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.715	-5.0	98	0.00
28 T	Bromochloromethane	0.472	0.494	-4.7	99	0.00
29 T	Tetrahydrofuran	0.110	0.117	-6.4	103	0.00
30 C	Chloroform	1.061	1.121	-5.7#	98	0.00
31 T	Cyclohexane	1.105	1.076	2.6	96	0.00
32 T	1,1,1-Trichloroethane	0.974	1.003	-3.0	98	0.00
33 S	1,2-Dichloroethane-d4	0.546	0.569	-4.2	99	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35 S	Dibromofluoromethane	0.298	0.308	-3.4	100	0.00
36 T	1,1-Dichloropropene	0.492	0.496	-0.8	96	0.00
37 T	Ethyl Acetate	0.237	0.240	-1.3	100	0.00
38 T	Carbon Tetrachloride	0.509	0.514	-1.0	97	0.00
39 T	Methylcyclohexane	0.660	0.661	-0.2	96	0.00
40 TM	Benzene	1.457	1.507	-3.4	98	0.00
41 T	Methacrylonitrile	0.157	0.168	-7.0	104	0.02
42 TM	1,2-Dichloroethane	0.394	0.409	-3.8	99	0.00
43 T	Isopropyl Acetate	0.516	0.530	-2.7	101	0.00
44 TM	Trichloroethene	0.362	0.365	-0.8	96	0.00
45 C	1,2-Dichloropropane	0.351	0.361	-2.8#	99	0.00
46 T	Dibromomethane	0.189	0.195	-3.2	101	0.00
47 T	Bromodichloromethane	0.492	0.516	-4.9	100	0.00
48 T	Methyl methacrylate	0.241	0.248	-2.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY051525

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	0.002	0.002	0.0	103	0.00
50 S	Toluene-d8	1.222	1.252	-2.5	99	0.00
51 T	4-Methyl-2-Pentanone	0.253	0.265	-4.7	102	0.00
52 CM	Toluene	0.923	0.947	-2.6#	98	0.00
53 T	t-1,3-Dichloropropene	0.480	0.494	-2.9	99	0.00
54 T	cis-1,3-Dichloropropene	0.550	0.571	-3.8	99	0.00
55 T	1,1,2-Trichloroethane	0.243	0.248	-2.1	100	0.00
56 T	Ethyl methacrylate	0.378	0.383	-1.3	98	0.00
57 T	1,3-Dichloropropane	0.431	0.447	-3.7	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.170	0.184	-8.2	98	0.00
59 T	2-Hexanone	0.170	0.175	-2.9	103	0.00
60 T	Dibromochloromethane	0.315	0.330	-4.8	100	0.00
61 T	1,2-Dibromoethane	0.226	0.233	-3.1	100	0.00
62 S	4-Bromofluorobenzene	0.387	0.395	-2.1	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.462	0.434	6.1	91	0.00
65 PM	Chlorobenzene	1.128	1.124	0.4	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.388	0.385	0.8	97	0.00
67 C	Ethyl Benzene	2.113	2.117	-0.2#	97	0.00
68 T	m/p-Xylenes	0.796	0.805	-1.1	98	0.00
69 T	o-Xylene	0.753	0.763	-1.3	99	0.00
70 T	Styrene	1.270	1.282	-0.9	98	0.00
71 P	Bromoform	0.209	0.214	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73 T	Isopropylbenzene	4.142	4.139	0.1	98	0.00
74 T	N-amyl acetate	1.185	1.180	0.4	101	0.00
75 P	1,1,2,2-Tetrachloroethane	0.637	0.676	-6.1	107	0.00
76 T	1,2,3-Trichloropropane	0.507	0.543	-7.1	107	0.00
77 T	Bromobenzene	0.885	0.874	1.2	97	0.00
78 T	n-propylbenzene	4.996	5.026	-0.6	97	0.00
79 T	2-Chlorotoluene	2.746	2.753	-0.3	97	0.00
80 T	1,3,5-Trimethylbenzene	3.344	3.319	0.7	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.250	0.246	1.6	103	0.00
82 T	4-Chlorotoluene	2.824	2.861	-1.3	97	0.00
83 T	tert-Butylbenzene	2.972	2.955	0.6	97	0.00
84 T	1,2,4-Trimethylbenzene	3.319	3.355	-1.1	97	0.00
85 T	sec-Butylbenzene	4.412	4.412	0.0	95	0.00
86 T	p-Isopropyltoluene	3.710	3.727	-0.5	97	0.00
87 T	1,3-Dichlorobenzene	1.806	1.796	0.6	97	0.00
88 T	1,4-Dichlorobenzene	1.737	1.726	0.6	98	0.00
89 T	n-Butylbenzene	3.510	3.538	-0.8	95	0.00
90 T	Hexachloroethane	0.749	0.742	0.9	96	0.00
91 T	1,2-Dichlorobenzene	1.517	1.516	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.103	0.103	0.0	102	0.00
93 T	1,2,4-Trichlorobenzene	0.876	0.855	2.4	94	0.00
94 T	Hexachlorobutadiene	0.489	0.467	4.5	92	0.00
95 T	Naphthalene	1.663	1.610	3.2	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	0.743	0.715	3.8	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
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 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Instrument :
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Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	94	0.00
2 T	Dichlorodifluoromethane	50.000	49.432	1.1	96	0.00
3 P	Chloromethane	50.000	48.719	2.6	97	0.00
4 C	Vinyl Chloride	50.000	51.111	-2.2#	98	0.00
5 T	Bromomethane	50.000	48.486	3.0	104	0.00
6 T	Chloroethane	50.000	53.234	-6.5	101	0.00
7 T	Trichlorofluoromethane	50.000	51.174	-2.3	99	0.00
8 T	Diethyl Ether	50.000	52.055	-4.1	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.564	-3.1	98	0.00
10 T	Methyl Iodide	50.000	49.606	0.8	85	0.00
11 T	Tert butyl alcohol	250.000	265.144	-6.1	108	0.00
12 CM	1,1-Dichloroethene	50.000	51.487	-3.0#	97	0.00
13 T	Acrolein	250.000	238.362	4.7	97	0.00
14 T	Allyl chloride	50.000	52.817	-5.6	98	0.00
15 T	Acrylonitrile	250.000	265.134	-6.1	102	0.00
16 T	Acetone	250.000	252.660	-1.1	105	0.00
17 T	Carbon Disulfide	50.000	51.765	-3.5	97	0.00
18 T	Methyl Acetate	50.000	59.461	-18.9	120	0.00
19 T	Methyl tert-butyl Ether	50.000	53.096	-6.2	101	0.00
20 T	Methylene Chloride	50.000	47.298	5.4	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.552	-3.1	97	0.00
22 T	Diisopropyl ether	50.000	52.085	-4.2	98	0.00
23 T	Vinyl Acetate	250.000	253.098	-1.2	97	0.00
24 P	1,1-Dichloroethane	50.000	51.668	-3.3	97	0.00
25 T	2-Butanone	250.000	255.929	-2.4	103	0.00
26 T	2,2-Dichloropropane	50.000	52.191	-4.4	98	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.479	-5.0	98	0.00
28 T	Bromochloromethane	50.000	52.305	-4.6	99	0.00
29 T	Tetrahydrofuran	250.000	264.847	-5.9	103	0.00
30 C	Chloroform	50.000	52.810	-5.6#	98	0.00
31 T	Cyclohexane	50.000	48.673	2.7	96	0.00
32 T	1,1,1-Trichloroethane	50.000	51.523	-3.0	98	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.104	-4.2	99	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35 S	Dibromofluoromethane	50.000	51.658	-3.3	100	0.00
36 T	1,1-Dichloropropene	50.000	50.457	-0.9	96	0.00
37 T	Ethyl Acetate	50.000	50.633	-1.3	100	0.00
38 T	Carbon Tetrachloride	50.000	50.543	-1.1	97	0.00
39 T	Methylcyclohexane	50.000	50.015	-0.0	96	0.00
40 TM	Benzene	50.000	51.696	-3.4	98	0.00
41 T	Methacrylonitrile	50.000	53.599	-7.2	104	0.02
42 TM	1,2-Dichloroethane	50.000	51.834	-3.7	99	0.00
43 T	Isopropyl Acetate	50.000	51.415	-2.8	101	0.00
44 TM	Trichloroethene	50.000	50.335	-0.7	96	0.00
45 C	1,2-Dichloropropane	50.000	51.417	-2.8#	99	0.00
46 T	Dibromomethane	50.000	51.423	-2.8	101	0.00
47 T	Bromodichloromethane	50.000	52.508	-5.0	100	0.00
48 T	Methyl methacrylate	50.000	51.357	-2.7	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
 Data File : VY022260.D
 Acq On : 15 May 2025 13:20
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY051525

Quant Time: May 16 01:47:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	1008.479	-0.8	103	0.00
50 S	Toluene-d8	50.000	51.229	-2.5	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	261.463	-4.6	102	0.00
52 CM	Toluene	50.000	51.337	-2.7#	98	0.00
53 T	t-1,3-Dichloropropene	50.000	51.458	-2.9	99	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.916	-3.8	99	0.00
55 T	1,1,2-Trichloroethane	50.000	51.142	-2.3	100	0.00
56 T	Ethyl methacrylate	50.000	50.639	-1.3	98	0.00
57 T	1,3-Dichloropropane	50.000	51.880	-3.8	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	271.104	-8.4	98	0.00
59 T	2-Hexanone	250.000	257.738	-3.1	103	0.00
60 T	Dibromochloromethane	50.000	52.425	-4.8	100	0.00
61 T	1,2-Dibromoethane	50.000	51.428	-2.9	100	0.00
62 S	4-Bromofluorobenzene	50.000	51.020	-2.0	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	46.905	6.2	91	0.00
65 PM	Chlorobenzene	50.000	49.827	0.3	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.656	0.7	97	0.00
67 C	Ethyl Benzene	50.000	50.100	-0.2#	97	0.00
68 T	m/p-Xylenes	100.000	101.087	-1.1	98	0.00
69 T	o-Xylene	50.000	50.682	-1.4	99	0.00
70 T	Styrene	50.000	50.471	-0.9	98	0.00
71 P	Bromoform	50.000	51.022	-2.0	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73 T	Isopropylbenzene	50.000	49.964	0.1	98	0.00
74 T	N-ethyl acetate	50.000	49.805	0.4	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.062	-6.1	107	0.00
76 T	1,2,3-Trichloropropane	50.000	53.564	-7.1	107	0.00
77 T	Bromobenzene	50.000	49.374	1.3	97	0.00
78 T	n-propylbenzene	50.000	50.296	-0.6	97	0.00
79 T	2-Chlorotoluene	50.000	50.130	-0.3	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.632	0.7	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.231	1.5	103	0.00
82 T	4-Chlorotoluene	50.000	50.661	-1.3	97	0.00
83 T	tert-Butylbenzene	50.000	49.715	0.6	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.535	-1.1	97	0.00
85 T	sec-Butylbenzene	50.000	50.000	0.0	95	0.00
86 T	p-Isopropyltoluene	50.000	50.219	-0.4	97	0.00
87 T	1,3-Dichlorobenzene	50.000	49.718	0.6	97	0.00
88 T	1,4-Dichlorobenzene	50.000	49.669	0.7	98	0.00
89 T	n-Butylbenzene	50.000	50.402	-0.8	95	0.00
90 T	Hexachloroethane	50.000	49.502	1.0	96	0.00
91 T	1,2-Dichlorobenzene	50.000	49.954	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.028	-0.1	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.794	2.4	94	0.00
94 T	Hexachlorobutadiene	50.000	47.770	4.5	92	0.00
95 T	Naphthalene	50.000	48.421	3.2	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	48.060	3.9	94	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_N Calibration Date/Time: 05/21/2025 11:10

Lab File ID: VN086722.D Init. Calib. Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 16:31 18:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.540	0.636		17.78	20
Chloromethane	0.817	0.852	0.1	4.28	20
Vinyl Chloride	0.733	0.782		6.68	20
Bromomethane	0.423	0.412		-2.6	20
Chloroethane	0.480	0.492		2.5	20
Trichlorofluoromethane	0.877	0.928		5.82	20
1,1,2-Trichlorotrifluoroethane	0.525	0.572		8.95	20
1,1-Dichloroethene	0.558	0.579		3.76	20
Acetone	0.258	0.242		-6.2	20
Carbon Disulfide	1.544	1.645		6.54	20
Methyl tert-butyl Ether	1.899	1.983		4.42	20
Methyl Acetate	0.723	0.699		-3.32	20
Methylene Chloride	0.682	0.679		-0.44	20
trans-1,2-Dichloroethene	0.590	0.618		4.75	20
1,1-Dichloroethane	1.118	1.170	0.1	4.65	20
Cyclohexane	1.037	1.046		0.87	20
2-Butanone	0.399	0.400		0.25	20
Carbon Tetrachloride	0.433	0.457		5.54	20
cis-1,2-Dichloroethene	0.724	0.743		2.62	20
Bromochloromethane	0.508	0.514		1.18	20
Chloroform	1.119	1.149		2.68	20
1,1,1-Trichloroethane	0.944	0.976		3.39	20
Methylcyclohexane	0.475	0.520		9.47	20
Benzene	1.433	1.494		4.26	20
1,2-Dichloroethane	0.446	0.453		1.57	20
Trichloroethene	0.346	0.363		4.91	20
1,2-Dichloropropane	0.340	0.364		7.06	20
Bromodichloromethane	0.473	0.501		5.92	20
4-Methyl-2-Pentanone	0.449	0.450		0.22	20
Toluene	0.891	0.932		4.6	20
t-1,3-Dichloropropene	0.501	0.542		8.18	20
cis-1,3-Dichloropropene	0.547	0.590		7.86	20
1,1,2-Trichloroethane	0.332	0.337		1.51	20
2-Hexanone	0.328	0.329		0.31	20
Dibromochloromethane	0.348	0.370		6.32	20
1,2-Dibromoethane	0.334	0.342		2.39	20
Tetrachloroethene	0.383	0.414		8.09	20
Chlorobenzene	1.096	1.139	0.3	3.92	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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: MSVOA_N Calibration Date/Time: 05/21/2025 11:10
 Lab File ID: VN086722.D Init. Calib. Date(s): 05/16/2025 05/16/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 16:31 18:32
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.878	1.985		5.7	20
m/p-Xylenes	0.711	0.771		8.44	20
o-Xylene	0.707	0.749		5.94	20
Styrene	1.158	1.272		9.85	20
Bromoform	0.252	0.264	0.1	4.76	20
Isopropylbenzene	3.862	3.741		-3.13	20
1,1,2,2-Tetrachloroethane	1.186	1.067	0.3	-10.03	20
1,3-Dichlorobenzene	1.682	1.721		2.32	20
1,4-Dichlorobenzene	1.667	1.731		3.84	20
1,2-Dichlorobenzene	1.600	1.641		2.56	20
1,2-Dibromo-3-Chloropropane	0.197	0.194		-1.52	20
1,2,4-Trichlorobenzene	0.675	0.725		7.41	20
1,2,3-Trichlorobenzene	0.661	0.683		3.33	20
1,2-Dichloroethane-d4	0.691	0.701		1.45	20
Dibromofluoromethane	0.298	0.307		3.02	20
Toluene-d8	1.234	1.283		3.97	20
4-Bromofluorobenzene	0.436	0.470		7.57	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_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

05/22/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	182299	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	331408	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299657	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	144979	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	127804	50.735	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.480%	
35) Dibromofluoromethane	8.165	113	101679	51.518	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.040%	
50) Toluene-d8	10.565	98	425210	51.988	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.980%	
62) 4-Bromofluorobenzene	12.847	95	155596	53.877	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 107.760%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	115898	58.870	ug/l	99
3) Chloromethane	2.359	50	155389	52.184	ug/l	99
4) Vinyl Chloride	2.512	62	142605	53.325	ug/l	95
5) Bromomethane	2.953	94	75054	48.684	ug/l	95
6) Chloroethane	3.118	64	89611	51.152	ug/l	99
7) Trichlorofluoromethane	3.500	101	169235	52.954	ug/l	94
8) Diethyl Ether	3.959	74	69530	52.665	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	104228	54.477	ug/l	99
10) Methyl Iodide	4.583	142	114697	48.193	ug/l	98
11) Tert butyl alcohol	5.512	59	104653	228.112	ug/l	100
12) 1,1-Dichloroethene	4.342	96	105531	51.901	ug/l	96
13) Acrolein	4.177	56	128968	262.961	ug/l	98
14) Allyl chloride	5.024	41	161817	52.579	ug/l	97
15) Acrylonitrile	5.712	53	292576	257.566	ug/l	100
16) Acetone	4.418	43	220911	234.441	ug/l	98
17) Carbon Disulfide	4.712	76	299879	53.269	ug/l	100
18) Methyl Acetate	5.018	43	127415	48.312	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	361423	52.203	ug/l	99
20) Methylene Chloride	5.277	84	123862	49.812	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	112592	52.374	ug/l	100
22) Diisopropyl ether	6.665	45	373109	53.737	ug/l	98
23) Vinyl Acetate	6.600	43	1363220	261.239	ug/l	100
24) 1,1-Dichloroethane	6.565	63	213270	52.317	ug/l	99
25) 2-Butanone	7.477	43	364333	250.212	ug/l	100
26) 2,2-Dichloropropane	7.488	77	180472	53.646	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	135427	51.323	ug/l	98
28) Bromochloromethane	7.812	49	93646	50.562	ug/l	99
29) Tetrahydrofuran	7.835	42	241092	253.670	ug/l	98
30) Chloroform	7.959	83	209502	51.346	ug/l	98
31) Cyclohexane	8.253	56	190712	50.444	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	177954	51.729	ug/l	100
36) 1,1-Dichloropropene	8.371	75	154110	52.936	ug/l	99
37) Ethyl Acetate	7.553	43	143549	48.813	ug/l	99
38) Carbon Tetrachloride	8.359	117	151468	52.805	ug/l	99
39) Methylcyclohexane	9.600	83	172177	54.644	ug/l	99
40) Benzene	8.600	78	495006	52.122	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

05/22/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	80906	50.954	ug/l	98
42) 1,2-Dichloroethane	8.665	62	150262	50.786	ug/l	99
43) Isopropyl Acetate	8.682	43	255716	43.376	ug/l	98
44) Trichloroethene	9.347	130	120144	52.450	ug/l	96
45) 1,2-Dichloropropane	9.618	63	120516	53.419	ug/l	99
46) Dibromomethane	9.706	93	78413	51.509	ug/l	98
47) Bromodichloromethane	9.882	83	166192	52.985	ug/l	98
48) Methyl methacrylate	9.676	41	116487	50.991	ug/l	98
49) 1,4-Dioxane	9.688	88	48790	1008.620	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	745520	250.764	ug/l	100
52) Toluene	10.629	92	308943	52.340	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	179673	54.103	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	195518	53.933	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	111715	50.737	ug/l	99
56) Ethyl methacrylate	10.871	69	187535	53.047	ug/l	99
57) 1,3-Dichloropropane	11.159	76	196369	51.768	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	418673	264.980	ug/l	98
59) 2-Hexanone	11.194	43	545131	251.092	ug/l	100
60) Dibromochloromethane	11.359	129	122673	53.161	ug/l	100
61) 1,2-Dibromoethane	11.465	107	113240	51.179	ug/l	99
64) Tetrachloroethene	11.100	164	124195	54.103	ug/l	99
65) Chlorobenzene	11.888	112	341449	51.963	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	110321	52.007	ug/l	99
67) Ethyl Benzene	11.959	91	594704	52.840	ug/l	99
68) m/p-Xylenes	12.065	106	462041	108.385	ug/l	99
69) o-Xylene	12.394	106	224490	52.969	ug/l	98
70) Styrene	12.406	104	381112	54.925	ug/l	99
71) Bromoform	12.576	173	79171	52.479	ug/l #	99
73) Isopropylbenzene	12.694	105	542341	48.435	ug/l	99
74) N-amyl acetate	12.488	43	221086	47.257	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	154756	44.987	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	150303m	45.840	ug/l	
77) Bromobenzene	12.976	156	131191	46.577	ug/l	99
78) n-propylbenzene	13.029	91	654516	50.935	ug/l	99
79) 2-Chlorotoluene	13.123	91	408385	48.878	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	456764	50.915	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	67662	52.078	ug/l	93
82) 4-Chlorotoluene	13.217	91	414638	50.091	ug/l	98
83) tert-Butylbenzene	13.435	119	382099	48.840	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	463485	51.881	ug/l	99
85) sec-Butylbenzene	13.612	105	546759	52.121	ug/l	100
86) p-Isopropyltoluene	13.723	119	460296	53.531	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	249485	51.150	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	250982	51.935	ug/l	98
89) n-Butylbenzene	14.053	91	393778	55.241	ug/l	100
90) Hexachloroethane	14.329	117	74662	52.332	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	237916	51.284	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28181	49.451	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	105110	53.676	ug/l	100
94) Hexachlorobutadiene	15.500	225	42304	52.069	ug/l	98
95) Naphthalene	15.635	128	336451	49.483	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	98958	51.603	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086722.D
Acq On : 21 May 2025 11:10
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

05/22/2025
Supervised By :Mahesh
Dadoda

05/22/2025

Quant Time: May 22 01:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086722.D
Acq On : 21 May 2025 11:10
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

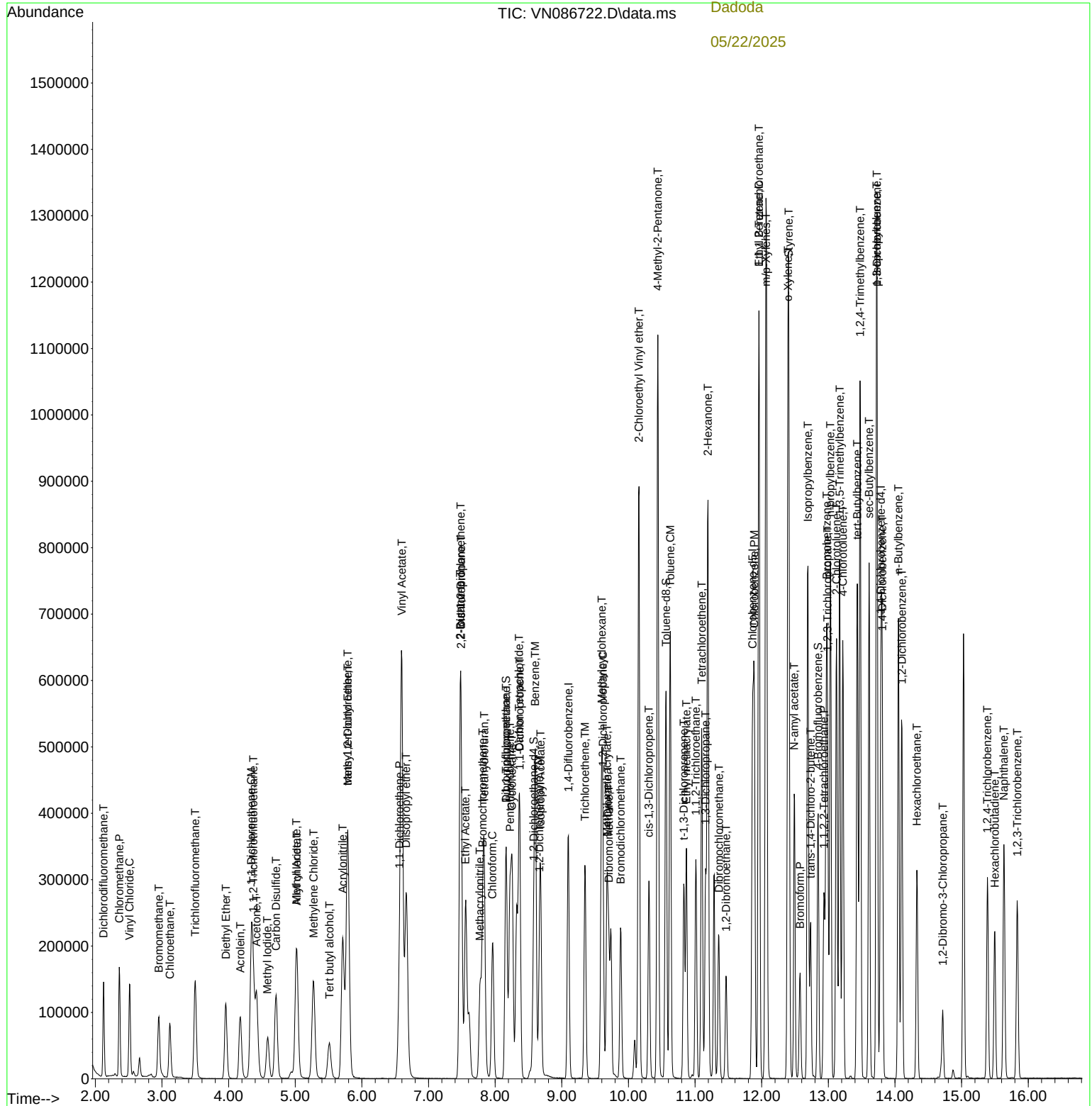
Manual Integrations

Reviewed By :John
Carlone

05/22/2025
Supervised By :Mahesh
Dadoda

05/22/2025

Quant Time: May 22 01:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	91	0.00
2 T	Dichlorodifluoromethane	0.540	0.636	-17.8	96	0.00
3 P	Chloromethane	0.817	0.852	-4.3	99	0.00
4 C	Vinyl Chloride	0.733	0.782	-6.7#	94	0.00
5 T	Bromomethane	0.423	0.412	2.6	93	0.01
6 T	Chloroethane	0.480	0.492	-2.5	96	0.00
7 T	Trichlorofluoromethane	0.877	0.928	-5.8	96	0.00
8 T	Diethyl Ether	0.362	0.381	-5.2	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.525	0.572	-9.0	98	0.00
10 T	Methyl Iodide	0.653	0.629	3.7	88	0.00
11 T	Tert butyl alcohol	0.126	0.115	8.7	86	0.00
12 CM	1,1-Dichloroethene	0.558	0.579	-3.8#	96	0.00
13 T	Acrolein	0.135	0.141	-4.4	96	0.00
14 T	Allyl chloride	0.844	0.888	-5.2	98	0.00
15 T	Acrylonitrile	0.312	0.321	-2.9	94	0.00
16 T	Acetone	0.258	0.242	6.2	91	0.00
17 T	Carbon Disulfide	1.544	1.645	-6.5	97	0.00
18 T	Methyl Acetate	0.723	0.699	3.3	96	0.00
19 T	Methyl tert-butyl Ether	1.899	1.983	-4.4	94	0.00
20 T	Methylene Chloride	0.682	0.679	0.4	98	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.618	-4.7	97	0.00
22 T	Diisopropyl ether	1.904	2.047	-7.5	97	0.00
23 T	Vinyl Acetate	1.431	1.496	-4.5	93	0.00
24 P	1,1-Dichloroethane	1.118	1.170	-4.7	96	0.00
25 T	2-Butanone	0.399	0.400	-0.3	90	0.00
26 T	2,2-Dichloropropane	0.923	0.990	-7.3	101	0.00
27 T	cis-1,2-Dichloroethene	0.724	0.743	-2.6	95	0.00
28 T	Bromochloromethane	0.508	0.514	-1.2	92	0.00
29 T	Tetrahydrofuran	0.261	0.265	-1.5	91	0.00
30 C	Chloroform	1.119	1.149	-2.7#	95	0.00
31 T	Cyclohexane	1.037	1.046	-0.9	97	0.00
32 T	1,1,1-Trichloroethane	0.944	0.976	-3.4	94	0.00
33 S	1,2-Dichloroethane-d4	0.691	0.701	-1.4	92	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35 S	Dibromofluoromethane	0.298	0.307	-3.0	93	0.00
36 T	1,1-Dichloropropene	0.439	0.465	-5.9	97	0.00
37 T	Ethyl Acetate	0.444	0.433	2.5	90	0.00
38 T	Carbon Tetrachloride	0.433	0.457	-5.5	96	0.00
39 T	Methylcyclohexane	0.475	0.520	-9.5	98	0.00
40 TM	Benzene	1.433	1.494	-4.3	96	0.00
41 T	Methacrylonitrile	0.240	0.244	-1.7	92	0.00
42 TM	1,2-Dichloroethane	0.446	0.453	-1.6	94	0.00
43 T	Isopropyl Acetate	0.889	0.772	13.2	91	0.00
44 TM	Trichloroethene	0.346	0.363	-4.9	96	0.00
45 C	1,2-Dichloropropane	0.340	0.364	-7.1#	98	0.00
46 T	Dibromomethane	0.230	0.237	-3.0	94	0.00
47 T	Bromodichloromethane	0.473	0.501	-5.9	96	0.00
48 T	Methyl methacrylate	0.345	0.351	-1.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	0.007	0.007	0.0	89	0.00
50 S	Toluene-d8	1.234	1.283	-4.0	93	0.00
51 T	4-Methyl-2-Pentanone	0.449	0.450	-0.2	90	0.00
52 CM	Toluene	0.891	0.932	-4.6#	95	0.00
53 T	t-1,3-Dichloropropene	0.501	0.542	-8.2	95	0.00
54 T	cis-1,3-Dichloropropene	0.547	0.590	-7.9	98	0.00
55 T	1,1,2-Trichloroethane	0.332	0.337	-1.5	95	0.00
56 T	Ethyl methacrylate	0.533	0.566	-6.2	92	0.00
57 T	1,3-Dichloropropane	0.572	0.593	-3.7	95	0.00
58 T	2-Chloroethyl Vinyl ether	0.238	0.253	-6.3	88	0.00
59 T	2-Hexanone	0.328	0.329	-0.3	89	0.00
60 T	Dibromochloromethane	0.348	0.370	-6.3	96	0.00
61 T	1,2-Dibromoethane	0.334	0.342	-2.4	93	0.00
62 S	4-Bromofluorobenzene	0.436	0.469	-7.6	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64 T	Tetrachloroethene	0.383	0.414	-8.1	101	0.00
65 PM	Chlorobenzene	1.096	1.139	-3.9	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.368	-4.0	95	0.00
67 C	Ethyl Benzene	1.878	1.985	-5.7#	96	0.00
68 T	m/p-Xylenes	0.711	0.771	-8.4	97	0.00
69 T	o-Xylene	0.707	0.749	-5.9	93	0.00
70 T	Styrene	1.158	1.272	-9.8	95	0.00
71 P	Bromoform	0.252	0.264	-4.8	91	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.862	3.741	3.1	96	0.00
74 T	N-amyl acetate	1.613	1.525	5.5	92	0.00
75 P	1,1,2,2-Tetrachloroethane	1.186	1.067	10.0	92	0.00
76 T	1,2,3-Trichloropropane	1.131	1.037	8.3	91	0.00
77 T	Bromobenzene	0.971	0.905	6.8	94	0.00
78 T	n-propylbenzene	4.432	4.515	-1.9	98	0.00
79 T	2-Chlorotoluene	2.882	2.817	2.3	96	0.00
80 T	1,3,5-Trimethylbenzene	3.094	3.151	-1.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.448	0.467	-4.2	94	0.00
82 T	4-Chlorotoluene	2.855	2.860	-0.2	98	0.00
83 T	tert-Butylbenzene	2.698	2.636	2.3	96	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.197	-3.8	97	0.00
85 T	sec-Butylbenzene	3.618	3.771	-4.2	99	0.00
86 T	p-Isopropyltoluene	2.965	3.175	-7.1	99	0.00
87 T	1,3-Dichlorobenzene	1.682	1.721	-2.3	98	0.00
88 T	1,4-Dichlorobenzene	1.667	1.731	-3.8	99	0.00
89 T	n-Butylbenzene	2.458	2.716	-10.5	101	0.00
90 T	Hexachloroethane	0.492	0.515	-4.7	99	0.00
91 T	1,2-Dichlorobenzene	1.600	1.641	-2.6	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.197	0.194	1.5	88	0.00
93 T	1,2,4-Trichlorobenzene	0.675	0.725	-7.4	96	0.00
94 T	Hexachlorobutadiene	0.280	0.292	-4.3	101	0.00
95 T	Naphthalene	2.345	2.321	1.0	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086722.D
Acq On : 21 May 2025 11:10
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: May 22 01:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 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	0.661	0.683	-3.3	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	91	0.00
2 T	Dichlorodifluoromethane	50.000	58.870	-17.7	96	0.00
3 P	Chloromethane	50.000	52.184	-4.4	99	0.00
4 C	Vinyl Chloride	50.000	53.325	-6.7#	94	0.00
5 T	Bromomethane	50.000	48.684	2.6	93	0.01
6 T	Chloroethane	50.000	51.152	-2.3	96	0.00
7 T	Trichlorofluoromethane	50.000	52.954	-5.9	96	0.00
8 T	Diethyl Ether	50.000	52.665	-5.3	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	54.477	-9.0	98	0.00
10 T	Methyl Iodide	50.000	48.193	3.6	88	0.00
11 T	Tert butyl alcohol	250.000	228.112	8.8	86	0.00
12 CM	1,1-Dichloroethene	50.000	51.901	-3.8#	96	0.00
13 T	Acrolein	250.000	262.961	-5.2	96	0.00
14 T	Allyl chloride	50.000	52.579	-5.2	98	0.00
15 T	Acrylonitrile	250.000	257.566	-3.0	94	0.00
16 T	Acetone	250.000	234.441	6.2	91	0.00
17 T	Carbon Disulfide	50.000	53.269	-6.5	97	0.00
18 T	Methyl Acetate	50.000	48.312	3.4	96	0.00
19 T	Methyl tert-butyl Ether	50.000	52.203	-4.4	94	0.00
20 T	Methylene Chloride	50.000	49.812	0.4	98	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.374	-4.7	97	0.00
22 T	Diisopropyl ether	50.000	53.737	-7.5	97	0.00
23 T	Vinyl Acetate	250.000	261.239	-4.5	93	0.00
24 P	1,1-Dichloroethane	50.000	52.317	-4.6	96	0.00
25 T	2-Butanone	250.000	250.212	-0.1	90	0.00
26 T	2,2-Dichloropropane	50.000	53.646	-7.3	101	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.323	-2.6	95	0.00
28 T	Bromochloromethane	50.000	50.562	-1.1	92	0.00
29 T	Tetrahydrofuran	250.000	253.670	-1.5	91	0.00
30 C	Chloroform	50.000	51.346	-2.7#	95	0.00
31 T	Cyclohexane	50.000	50.444	-0.9	97	0.00
32 T	1,1,1-Trichloroethane	50.000	51.729	-3.5	94	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.735	-1.5	92	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35 S	Dibromofluoromethane	50.000	51.518	-3.0	93	0.00
36 T	1,1-Dichloropropene	50.000	52.936	-5.9	97	0.00
37 T	Ethyl Acetate	50.000	48.813	2.4	90	0.00
38 T	Carbon Tetrachloride	50.000	52.805	-5.6	96	0.00
39 T	Methylcyclohexane	50.000	54.644	-9.3	98	0.00
40 TM	Benzene	50.000	52.122	-4.2	96	0.00
41 T	Methacrylonitrile	50.000	50.954	-1.9	92	0.00
42 TM	1,2-Dichloroethane	50.000	50.786	-1.6	94	0.00
43 T	Isopropyl Acetate	50.000	43.376	13.2	91	0.00
44 TM	Trichloroethene	50.000	52.450	-4.9	96	0.00
45 C	1,2-Dichloropropane	50.000	53.419	-6.8#	98	0.00
46 T	Dibromomethane	50.000	51.509	-3.0	94	0.00
47 T	Bromodichloromethane	50.000	52.985	-6.0	96	0.00
48 T	Methyl methacrylate	50.000	50.991	-2.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086722.D
 Acq On : 21 May 2025 11:10
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: May 22 01:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 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	1008.620	-0.9	89	0.00
50 S	Toluene-d8	50.000	51.988	-4.0	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	250.764	-0.3	90	0.00
52 CM	Toluene	50.000	52.340	-4.7#	95	0.00
53 T	t-1,3-Dichloropropene	50.000	54.103	-8.2	95	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.933	-7.9	98	0.00
55 T	1,1,2-Trichloroethane	50.000	50.737	-1.5	95	0.00
56 T	Ethyl methacrylate	50.000	53.047	-6.1	92	0.00
57 T	1,3-Dichloropropane	50.000	51.768	-3.5	95	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	264.980	-6.0	88	0.00
59 T	2-Hexanone	250.000	251.092	-0.4	89	0.00
60 T	Dibromochloromethane	50.000	53.161	-6.3	96	0.00
61 T	1,2-Dibromoethane	50.000	51.179	-2.4	93	0.00
62 S	4-Bromofluorobenzene	50.000	53.877	-7.8	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64 T	Tetrachloroethene	50.000	54.103	-8.2	101	0.00
65 PM	Chlorobenzene	50.000	51.963	-3.9	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.007	-4.0	95	0.00
67 C	Ethyl Benzene	50.000	52.840	-5.7#	96	0.00
68 T	m/p-Xylenes	100.000	108.385	-8.4	97	0.00
69 T	o-Xylene	50.000	52.969	-5.9	93	0.00
70 T	Styrene	50.000	54.925	-9.8	95	0.00
71 P	Bromoform	50.000	52.479	-5.0	91	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	48.435	3.1	96	0.00
74 T	N-amyl acetate	50.000	47.257	5.5	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.987	10.0	92	0.00
76 T	1,2,3-Trichloropropane	50.000	45.840	8.3	91	0.00
77 T	Bromobenzene	50.000	46.577	6.8	94	0.00
78 T	n-propylbenzene	50.000	50.935	-1.9	98	0.00
79 T	2-Chlorotoluene	50.000	48.878	2.2	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.915	-1.8	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.078	-4.2	94	0.00
82 T	4-Chlorotoluene	50.000	50.091	-0.2	98	0.00
83 T	tert-Butylbenzene	50.000	48.840	2.3	96	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.881	-3.8	97	0.00
85 T	sec-Butylbenzene	50.000	52.121	-4.2	99	0.00
86 T	p-Isopropyltoluene	50.000	53.531	-7.1	99	0.00
87 T	1,3-Dichlorobenzene	50.000	51.150	-2.3	98	0.00
88 T	1,4-Dichlorobenzene	50.000	51.935	-3.9	99	0.00
89 T	n-Butylbenzene	50.000	55.241	-10.5	101	0.00
90 T	Hexachloroethane	50.000	52.332	-4.7	99	0.00
91 T	1,2-Dichlorobenzene	50.000	51.284	-2.6	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.451	1.1	88	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.676	-7.4	96	0.00
94 T	Hexachlorobutadiene	50.000	52.069	-4.1	101	0.00
95 T	Naphthalene	50.000	49.483	1.0	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086722.D
Acq On : 21 May 2025 11:10
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: May 22 01:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 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	51.603	-3.2	95	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_X Calibration Date/Time: 05/15/2025 09:52

Lab File ID: VX046200.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.765	0.712		-6.93	20
Chloromethane	0.742	0.714	0.1	-3.77	20
Vinyl Chloride	0.691	0.611		-11.58	20
Bromomethane	0.320	0.287		-10.31	20
Chloroethane	0.369	0.363		-1.63	20
Trichlorofluoromethane	1.021	0.958		-6.17	20
1,1,2-Trichlorotrifluoroethane	0.632	0.579		-8.39	20
1,1-Dichloroethene	0.593	0.532		-10.29	20
Acetone	0.374	0.380		1.6	20
Carbon Disulfide	1.406	1.195		-15.01	20
Methyl tert-butyl Ether	2.079	2.213		6.45	20
Methyl Acetate	0.867	0.998		15.11	20
Methylene Chloride	0.716	0.687		-4.05	20
trans-1,2-Dichloroethene	0.596	0.572		-4.03	20
1,1-Dichloroethane	1.219	1.221	0.1	0.16	20
Cyclohexane	1.111	0.987		-11.16	20
2-Butanone	0.543	0.583		7.37	20
Carbon Tetrachloride	0.544	0.510		-6.25	20
cis-1,2-Dichloroethene	0.718	0.727		1.25	20
Bromochloromethane	0.587	0.603		2.73	20
Chloroform	1.271	1.299		2.2	20
1,1,1-Trichloroethane	1.101	1.079		-2	20
Methylcyclohexane	0.623	0.559		-10.27	20
Benzene	1.417	1.399		-1.27	20
1,2-Dichloroethane	0.612	0.634		3.6	20
Trichloroethene	0.341	0.328		-3.81	20
1,2-Dichloropropane	0.352	0.371		5.4	20
Bromodichloromethane	0.547	0.585		6.95	20
4-Methyl-2-Pentanone	0.605	0.671		10.91	20
Toluene	0.869	0.871		0.23	20
t-1,3-Dichloropropene	0.487	0.535		9.86	20
cis-1,3-Dichloropropene	0.538	0.583		8.36	20
1,1,2-Trichloroethane	0.343	0.367		7	20
2-Hexanone	0.448	0.501		11.83	20
Dibromochloromethane	0.376	0.418		11.17	20
1,2-Dibromoethane	0.356	0.381		7.02	20
Tetrachloroethene	0.354	0.326		-7.91	20
Chlorobenzene	1.094	1.065	0.3	-2.65	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_X Calibration Date/Time: 05/15/2025 09:52

Lab File ID: VX046200.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.929	1.871		-3.01	20
m/p-Xylenes	0.706	0.693		-1.84	20
o-Xylene	0.688	0.686		-0.29	20
Styrene	1.127	1.188		5.41	20
Bromoform	0.281	0.301	0.1	7.12	20
Isopropylbenzene	3.893	3.674		-5.63	20
1,1,2,2-Tetrachloroethane	1.364	1.329	0.3	-2.57	20
1,3-Dichlorobenzene	1.649	1.630		-1.15	20
1,4-Dichlorobenzene	1.684	1.628		-3.33	20
1,2-Dichlorobenzene	1.655	1.656		0.06	20
1,2-Dibromo-3-Chloropropane	0.302	0.318		5.3	20
1,2,4-Trichlorobenzene	0.951	0.969		1.89	20
1,2,3-Trichlorobenzene	0.981	1.010		2.96	20
1,2-Dichloroethane-d4	0.932	0.941		0.97	20
Dibromofluoromethane	0.360	0.366		1.67	20
Toluene-d8	1.246	1.215		-2.49	20
4-Bromofluorobenzene	0.478	0.492		2.93	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_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	79845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	140483	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127630	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	75112	50.459	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.920%			
35) Dibromofluoromethane	5.379	113	51380	50.790	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.580%			
50) Toluene-d8	8.641	98	170717	48.757	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.520%			
62) 4-Bromofluorobenzene	11.079	95	69053	51.414	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.820%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	56833	46.505	ug/l	98
3) Chloromethane	1.307	50	57048	48.137	ug/l	99
4) Vinyl Chloride	1.374	62	48804	44.248	ug/l	99
5) Bromomethane	1.593	94	22954	44.869	ug/l	93
6) Chloroethane	1.666	64	28967	49.195	ug/l	98
7) Trichlorofluoromethane	1.874	101	76531	46.949	ug/l	96
8) Diethyl Ether	2.130	74	28515	51.386	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	46263	45.860	ug/l	98
10) Methyl Iodide	2.441	142	55957	46.879	ug/l	100
11) Tert butyl alcohol	2.977	59	52732	252.367	ug/l	100
12) 1,1-Dichloroethene	2.306	96	42457	44.844	ug/l	97
13) Acrolein	2.233	56	86478	363.413	ug/l	100
14) Allyl chloride	2.654	41	92771	51.271	ug/l	96
15) Acrylonitrile	3.062	53	159896	267.618	ug/l	98
16) Acetone	2.380	43	151558	253.932	ug/l	100
17) Carbon Disulfide	2.502	76	95435	42.518	ug/l	100
18) Methyl Acetate	2.703	43	79721	57.561	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	176719	53.240	ug/l	100
20) Methylene Chloride	2.782	84	54884	47.986	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	45649	47.945	ug/l	99
22) Diisopropyl ether	3.757	45	186066	53.235	ug/l	96
23) Vinyl Acetate	3.715	43	832901	270.938	ug/l	100
24) 1,1-Dichloroethane	3.605	63	97500	50.084	ug/l	98
25) 2-Butanone	4.550	43	232783	268.650	ug/l	100
26) 2,2-Dichloropropane	4.465	77	73154	48.010	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	58063	50.657	ug/l	99
28) Bromochloromethane	4.891	49	48182	51.418	ug/l	99
29) Tetrahydrofuran	4.995	42	146017	268.925	ug/l	99
30) Chloroform	5.086	83	103726	51.119	ug/l	96
31) Cyclohexane	5.458	56	78834	44.439	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	86131	48.968	ug/l	99
36) 1,1-Dichloropropene	5.684	75	63999	47.085	ug/l	99
37) Ethyl Acetate	4.708	43	86942	51.772	ug/l	99
38) Carbon Tetrachloride	5.666	117	71651	46.917	ug/l	99
39) Methylcyclohexane	7.373	83	78483	44.850	ug/l	99
40) Benzene	6.025	78	196502	49.356	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	49819	56.711	ug/l	98
42) 1,2-Dichloroethane	6.080	62	89054	51.827	ug/l	99
43) Isopropyl Acetate	6.336	43	138141	53.921	ug/l	100
44) Trichloroethene	7.117	130	46123	48.134	ug/l	99
45) 1,2-Dichloropropane	7.421	63	52081	52.609	ug/l	100
46) Dibromomethane	7.574	93	40833	52.296	ug/l	99
47) Bromodichloromethane	7.818	83	82190	53.445	ug/l	96
48) Methyl methacrylate	7.690	41	71677	54.783	ug/l	100
49) 1,4-Dioxane	7.659	88	26335	1060.072	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	471283	277.135	ug/l	99
52) Toluene	8.714	92	122389	50.134	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	75119	54.955	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	81846	54.175	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	51510	53.511	ug/l	97
56) Ethyl methacrylate	9.110	69	86310	56.258	ug/l	99
57) 1,3-Dichloropropane	9.305	76	90587	52.400	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	213841	273.403	ug/l	99
59) 2-Hexanone	9.427	43	351840	279.654	ug/l	100
60) Dibromochloromethane	9.519	129	58754	55.578	ug/l	99
61) 1,2-Dibromoethane	9.604	107	53563	53.537	ug/l	97
64) Tetrachloroethene	9.269	164	41562	46.025	ug/l	98
65) Chlorobenzene	10.073	112	135968	48.673	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	48145	50.472	ug/l	100
67) Ethyl Benzene	10.189	91	238829	48.501	ug/l	99
68) m/p-Xylenes	10.299	106	176993	98.275	ug/l	97
69) o-Xylene	10.640	106	87589	49.886	ug/l	98
70) Styrene	10.653	104	151684	52.738	ug/l	99
71) Bromoform	10.799	173	38476	53.725	ug/l #	96
73) Isopropylbenzene	10.957	105	230998	47.190	ug/l	100
74) N-amyl acetate	10.841	43	122108	50.481	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	83590	48.729	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	74157m	48.998	ug/l	
77) Bromobenzene	11.195	156	55464	48.804	ug/l	98
78) n-propylbenzene	11.299	91	269850	47.411	ug/l	99
79) 2-Chlorotoluene	11.360	91	171147	46.619	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	199182	48.706	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	22862	49.180	ug/l	98
82) 4-Chlorotoluene	11.451	91	199920	49.106	ug/l	99
83) tert-Butylbenzene	11.713	119	196965	47.815	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	204684	49.424	ug/l	99
85) sec-Butylbenzene	11.890	105	243197	48.084	ug/l	99
86) p-Isopropyltoluene	12.006	119	202544	48.515	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	102510	49.424	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	102366	48.327	ug/l	100
89) n-Butylbenzene	12.329	91	180561	49.306	ug/l	99
90) Hexachloroethane	12.536	117	35781	48.648	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	104120	50.026	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20011	52.658	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	60954	50.990	ug/l	97
94) Hexachlorobutadiene	13.719	225	24369	46.676	ug/l	98
95) Naphthalene	13.774	128	219899	50.155	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	63516	51.494	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046200.D
Acq On : 15 May 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 00:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

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

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

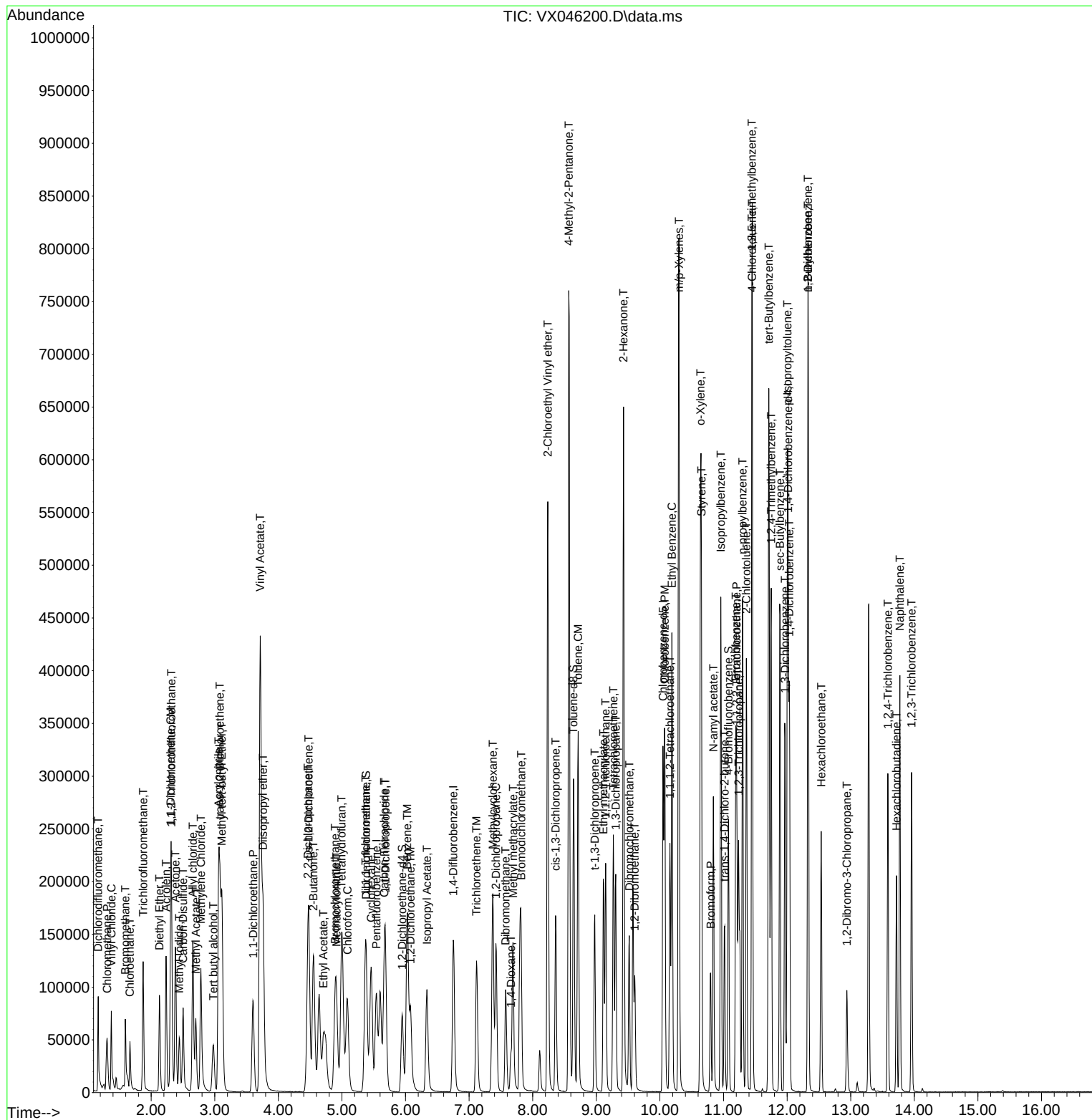
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046200.D
Acq On : 15 May 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 00:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	82	0.00
2 T	Dichlorodifluoromethane	0.765	0.712	6.9	68	0.00
3 P	Chloromethane	0.742	0.714	3.8	76	0.00
4 C	Vinyl Chloride	0.691	0.611	11.6#	71	0.00
5 T	Bromomethane	0.320	0.287	10.3	73	0.00
6 T	Chloroethane	0.369	0.363	1.6	79	0.00
7 T	Trichlorofluoromethane	1.021	0.958	6.2	74	0.00
8 T	Diethyl Ether	0.347	0.357	-2.9	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.632	0.579	8.4	74	0.00
10 T	Methyl Iodide	0.747	0.701	6.2	71	0.00
11 T	Tert butyl alcohol	0.131	0.132	-0.8	84	0.00
12 CM	1,1-Dichloroethene	0.593	0.532	10.3#	73	0.00
13 T	Acrolein	0.149	0.217	-45.6#	117	0.00
14 T	Allyl chloride	1.133	1.162	-2.6	81	0.00
15 T	Acrylonitrile	0.374	0.401	-7.2	85	0.00
16 T	Acetone	0.374	0.380	-1.6	86	0.00
17 T	Carbon Disulfide	1.406	1.195	15.0	68	0.00
18 T	Methyl Acetate	0.867	0.998	-15.1	97	0.00
19 T	Methyl tert-butyl Ether	2.079	2.213	-6.4	84	0.00
20 T	Methylene Chloride	0.716	0.687	4.1	83	0.00
21 T	trans-1,2-Dichloroethene	0.596	0.572	4.0	77	0.00
22 T	Diisopropyl ether	2.189	2.330	-6.4	84	0.00
23 T	Vinyl Acetate	1.925	2.086	-8.4	84	0.00
24 P	1,1-Dichloroethane	1.219	1.221	-0.2	80	0.00
25 T	2-Butanone	0.543	0.583	-7.4	86	0.00
26 T	2,2-Dichloropropane	0.954	0.916	4.0	79	0.00
27 T	cis-1,2-Dichloroethene	0.718	0.727	-1.3	81	0.00
28 T	Bromochloromethane	0.587	0.603	-2.7	86	0.00
29 T	Tetrahydrofuran	0.340	0.366	-7.6	86	0.00
30 C	Chloroform	1.271	1.299	-2.2#	82	0.00
31 T	Cyclohexane	1.111	0.987	11.2	72	0.00
32 T	1,1,1-Trichloroethane	1.101	1.079	2.0	78	0.00
33 S	1,2-Dichloroethane-d4	0.932	0.941	-1.0	85	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35 S	Dibromofluoromethane	0.360	0.366	-1.7	86	0.00
36 T	1,1-Dichloropropene	0.484	0.456	5.8	77	0.00
37 T	Ethyl Acetate	0.598	0.619	-3.5	85	0.00
38 T	Carbon Tetrachloride	0.544	0.510	6.3	76	0.00
39 T	Methylcyclohexane	0.623	0.559	10.3	73	0.00
40 TM	Benzene	1.417	1.399	1.3	79	0.00
41 T	Methacrylonitrile	0.313	0.355	-13.4	86	0.00
42 TM	1,2-Dichloroethane	0.612	0.634	-3.6	85	0.00
43 T	Isopropyl Acetate	0.912	0.983	-7.8	85	0.00
44 TM	Trichloroethene	0.341	0.328	3.8	77	0.00
45 C	1,2-Dichloropropane	0.352	0.371	-5.4#	83	0.00
46 T	Dibromomethane	0.278	0.291	-4.7	85	0.00
47 T	Bromodichloromethane	0.547	0.585	-6.9	85	0.00
48 T	Methyl methacrylate	0.466	0.510	-9.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	0.009	0.009	0.0	86	0.00
50 S	Toluene-d8	1.246	1.215	2.5	83	0.00
51 T	4-Methyl-2-Pentanone	0.605	0.671	-10.9	89	0.00
52 CM	Toluene	0.869	0.871	-0.2#	81	0.00
53 T	t-1,3-Dichloropropene	0.487	0.535	-9.9	85	0.00
54 T	cis-1,3-Dichloropropene	0.538	0.583	-8.4	84	0.00
55 T	1,1,2-Trichloroethane	0.343	0.367	-7.0	87	0.00
56 T	Ethyl methacrylate	0.546	0.614	-12.5	86	0.00
57 T	1,3-Dichloropropane	0.615	0.645	-4.9	87	0.00
58 T	2-Chloroethyl Vinyl ether	0.278	0.304	-9.4	83	0.00
59 T	2-Hexanone	0.448	0.501	-11.8	89	0.00
60 T	Dibromochloromethane	0.376	0.418	-11.2	87	0.00
61 T	1,2-Dibromoethane	0.356	0.381	-7.0	86	0.00
62 S	4-Bromofluorobenzene	0.478	0.492	-2.9	87	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.354	0.326	7.9	76	0.00
65 PM	Chlorobenzene	1.094	1.065	2.7	85	0.00
66 T	1,1,1,2-Tetrachloroethane	0.374	0.377	-0.8	84	0.00
67 C	Ethyl Benzene	1.929	1.871	3.0#	81	0.00
68 T	m/p-Xylenes	0.706	0.693	1.8	82	0.00
69 T	o-Xylene	0.688	0.686	0.3	82	0.00
70 T	Styrene	1.127	1.188	-5.4	85	0.00
71 P	Bromoform	0.281	0.301	-7.1	86	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73 T	Isopropylbenzene	3.893	3.674	5.6	82	0.00
74 T	N-amyl acetate	1.924	1.942	-0.9	87	0.00
75 P	1,1,2,2-Tetrachloroethane	1.364	1.329	2.6	92	0.00
76 T	1,2,3-Trichloropropane	1.204	1.179	2.1	92	0.00
77 T	Bromobenzene	0.904	0.882	2.4	88	0.00
78 T	n-propylbenzene	4.526	4.292	5.2	82	0.00
79 T	2-Chlorotoluene	2.919	2.722	6.7	84	0.00
80 T	1,3,5-Trimethylbenzene	3.252	3.168	2.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	0.370	0.364	1.6	87	0.00
82 T	4-Chlorotoluene	3.238	3.180	1.8	86	0.00
83 T	tert-Butylbenzene	3.276	3.133	4.4	84	0.00
84 T	1,2,4-Trimethylbenzene	3.293	3.255	1.2	85	0.00
85 T	sec-Butylbenzene	4.022	3.868	3.8	84	0.00
86 T	p-Isopropyltoluene	3.320	3.221	3.0	84	0.00
87 T	1,3-Dichlorobenzene	1.649	1.630	1.2	89	0.00
88 T	1,4-Dichlorobenzene	1.684	1.628	3.3	89	0.00
89 T	n-Butylbenzene	2.912	2.872	1.4	84	0.00
90 T	Hexachloroethane	0.585	0.569	2.7	85	0.00
91 T	1,2-Dichlorobenzene	1.655	1.656	-0.1	90	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.302	0.318	-5.3	91	0.00
93 T	1,2,4-Trichlorobenzene	0.951	0.969	-1.9	91	0.00
94 T	Hexachlorobutadiene	0.415	0.388	6.5	84	0.00
95 T	Naphthalene	3.487	3.497	-0.3	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046200.D
Acq On : 15 May 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 16 00:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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	0.981	1.010	-3.0	92	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	82	0.00
2 T	Dichlorodifluoromethane	50.000	46.505	7.0	68	0.00
3 P	Chloromethane	50.000	48.137	3.7	76	0.00
4 C	Vinyl Chloride	50.000	44.248	11.5#	71	0.00
5 T	Bromomethane	50.000	44.869	10.3	73	0.00
6 T	Chloroethane	50.000	49.195	1.6	79	0.00
7 T	Trichlorofluoromethane	50.000	46.949	6.1	74	0.00
8 T	Diethyl Ether	50.000	51.386	-2.8	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.860	8.3	74	0.00
10 T	Methyl Iodide	50.000	46.879	6.2	71	0.00
11 T	Tert butyl alcohol	250.000	252.367	-0.9	84	0.00
12 CM	1,1-Dichloroethene	50.000	44.844	10.3#	73	0.00
13 T	Acrolein	250.000	363.413	-45.4#	117	0.00
14 T	Allyl chloride	50.000	51.271	-2.5	81	0.00
15 T	Acrylonitrile	250.000	267.618	-7.0	85	0.00
16 T	Acetone	250.000	253.932	-1.6	86	0.00
17 T	Carbon Disulfide	50.000	42.518	15.0	68	0.00
18 T	Methyl Acetate	50.000	57.561	-15.1	97	0.00
19 T	Methyl tert-butyl Ether	50.000	53.240	-6.5	84	0.00
20 T	Methylene Chloride	50.000	47.986	4.0	83	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.945	4.1	77	0.00
22 T	Diisopropyl ether	50.000	53.235	-6.5	84	0.00
23 T	Vinyl Acetate	250.000	270.938	-8.4	84	0.00
24 P	1,1-Dichloroethane	50.000	50.084	-0.2	80	0.00
25 T	2-Butanone	250.000	268.650	-7.5	86	0.00
26 T	2,2-Dichloropropane	50.000	48.010	4.0	79	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.657	-1.3	81	0.00
28 T	Bromochloromethane	50.000	51.418	-2.8	86	0.00
29 T	Tetrahydrofuran	250.000	268.925	-7.6	86	0.00
30 C	Chloroform	50.000	51.119	-2.2#	82	0.00
31 T	Cyclohexane	50.000	44.439	11.1	72	0.00
32 T	1,1,1-Trichloroethane	50.000	48.968	2.1	78	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.459	-0.9	85	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35 S	Dibromofluoromethane	50.000	50.790	-1.6	86	0.00
36 T	1,1-Dichloropropene	50.000	47.085	5.8	77	0.00
37 T	Ethyl Acetate	50.000	51.772	-3.5	85	0.00
38 T	Carbon Tetrachloride	50.000	46.917	6.2	76	0.00
39 T	Methylcyclohexane	50.000	44.850	10.3	73	0.00
40 TM	Benzene	50.000	49.356	1.3	79	0.00
41 T	Methacrylonitrile	50.000	56.711	-13.4	86	0.00
42 TM	1,2-Dichloroethane	50.000	51.827	-3.7	85	0.00
43 T	Isopropyl Acetate	50.000	53.921	-7.8	85	0.00
44 TM	Trichloroethene	50.000	48.134	3.7	77	0.00
45 C	1,2-Dichloropropane	50.000	52.609	-5.2#	83	0.00
46 T	Dibromomethane	50.000	52.296	-4.6	85	0.00
47 T	Bromodichloromethane	50.000	53.445	-6.9	85	0.00
48 T	Methyl methacrylate	50.000	54.783	-9.6	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046200.D
 Acq On : 15 May 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: May 16 00:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 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	1060.072	-6.0	86	0.00
50 S	Toluene-d8	50.000	48.757	2.5	83	0.00
51 T	4-Methyl-2-Pentanone	250.000	277.135	-10.9	89	0.00
52 CM	Toluene	50.000	50.134	-0.3#	81	0.00
53 T	t-1,3-Dichloropropene	50.000	54.955	-9.9	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.175	-8.3	84	0.00
55 T	1,1,2-Trichloroethane	50.000	53.511	-7.0	87	0.00
56 T	Ethyl methacrylate	50.000	56.258	-12.5	86	0.00
57 T	1,3-Dichloropropane	50.000	52.400	-4.8	87	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	273.403	-9.4	83	0.00
59 T	2-Hexanone	250.000	279.654	-11.9	89	0.00
60 T	Dibromochloromethane	50.000	55.578	-11.2	87	0.00
61 T	1,2-Dibromoethane	50.000	53.537	-7.1	86	0.00
62 S	4-Bromofluorobenzene	50.000	51.414	-2.8	87	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	46.025	8.0	76	0.00
65 PM	Chlorobenzene	50.000	48.673	2.7	85	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.472	-0.9	84	0.00
67 C	Ethyl Benzene	50.000	48.501	3.0#	81	0.00
68 T	m/p-Xylenes	100.000	98.275	1.7	82	0.00
69 T	o-Xylene	50.000	49.886	0.2	82	0.00
70 T	Styrene	50.000	52.738	-5.5	85	0.00
71 P	Bromoform	50.000	53.725	-7.5	86	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73 T	Isopropylbenzene	50.000	47.190	5.6	82	0.00
74 T	N-ethyl acetate	50.000	50.481	-1.0	87	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.729	2.5	92	0.00
76 T	1,2,3-Trichloropropane	50.000	48.998	2.0	92	0.00
77 T	Bromobenzene	50.000	48.804	2.4	88	0.00
78 T	n-propylbenzene	50.000	47.411	5.2	82	0.00
79 T	2-Chlorotoluene	50.000	46.619	6.8	84	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.706	2.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.180	1.6	87	0.00
82 T	4-Chlorotoluene	50.000	49.106	1.8	86	0.00
83 T	tert-Butylbenzene	50.000	47.815	4.4	84	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.424	1.2	85	0.00
85 T	sec-Butylbenzene	50.000	48.084	3.8	84	0.00
86 T	p-Isopropyltoluene	50.000	48.515	3.0	84	0.00
87 T	1,3-Dichlorobenzene	50.000	49.424	1.2	89	0.00
88 T	1,4-Dichlorobenzene	50.000	48.327	3.3	89	0.00
89 T	n-Butylbenzene	50.000	49.306	1.4	84	0.00
90 T	Hexachloroethane	50.000	48.648	2.7	85	0.00
91 T	1,2-Dichlorobenzene	50.000	50.026	-0.1	90	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.658	-5.3	91	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.990	-2.0	91	0.00
94 T	Hexachlorobutadiene	50.000	46.676	6.6	84	0.00
95 T	Naphthalene	50.000	50.155	-0.3	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046200.D
Acq On : 15 May 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 16 00:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 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	51.494	-3.0	92	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_Y Calibration Date/Time: 05/16/2025 08:24

Lab File ID: VY022277.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.521		-0.19	20
Chloromethane	1.097	1.067	0.1	-2.73	20
Vinyl Chloride	1.226	1.343		9.54	20
Bromomethane	0.998	1.071		7.32	20
Chloroethane	0.763	0.887		16.25	20
Trichlorofluoromethane	1.241	1.308		5.4	20
1,1,2-Trichlorotrifluoroethane	0.539	0.569		5.57	20
1,1-Dichloroethene	0.535	0.570		6.54	20
Acetone	0.102	0.103		0.98	20
Carbon Disulfide	1.744	1.850		6.08	20
Methyl tert-butyl Ether	1.475	1.543		4.61	20
Methyl Acetate	0.323	0.324		0.31	20
Methylene Chloride	0.662	0.631		-4.68	20
trans-1,2-Dichloroethene	0.590	0.626		6.1	20
1,1-Dichloroethane	1.106	1.172	0.1	5.97	20
Cyclohexane	1.105	1.093		-1.09	20
2-Butanone	0.171	0.166		-2.92	20
Carbon Tetrachloride	0.509	0.537		5.5	20
cis-1,2-Dichloroethene	0.681	0.737		8.22	20
Bromochloromethane	0.472	0.487		3.18	20
Chloroform	1.061	1.161		9.43	20
1,1,1-Trichloroethane	0.974	1.038		6.57	20
Methylcyclohexane	0.660	0.680		3.03	20
Benzene	1.457	1.567		7.55	20
1,2-Dichloroethane	0.394	0.417		5.84	20
Trichloroethene	0.362	0.381		5.25	20
1,2-Dichloropropane	0.351	0.371		5.7	20
Bromodichloromethane	0.492	0.533		8.33	20
4-Methyl-2-Pentanone	0.253	0.250		-1.19	20
Toluene	0.923	0.982		6.39	20
t-1,3-Dichloropropene	0.480	0.500		4.17	20
cis-1,3-Dichloropropene	0.550	0.587		6.73	20
1,1,2-Trichloroethane	0.243	0.254		4.53	20
2-Hexanone	0.170	0.165		-2.94	20
Dibromochloromethane	0.315	0.338		7.3	20
1,2-Dibromoethane	0.226	0.238		5.31	20
Tetrachloroethene	0.462	0.477		3.25	20
Chlorobenzene	1.128	1.200	0.3	6.38	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_Y Calibration Date/Time: 05/16/2025 08:24

Lab File ID: VY022277.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.235		5.77	20
m/p-Xylenes	0.796	0.848		6.53	20
o-Xylene	0.753	0.804		6.77	20
Styrene	1.270	1.355		6.69	20
Bromoform	0.209	0.214	0.1	2.39	20
Isopropylbenzene	4.142	4.419		6.69	20
1,1,2,2-Tetrachloroethane	0.637	0.651	0.3	2.2	20
1,3-Dichlorobenzene	1.806	1.921		6.37	20
1,4-Dichlorobenzene	1.737	1.826		5.12	20
1,2-Dichlorobenzene	1.517	1.596		5.21	20
1,2-Dibromo-3-Chloropropane	0.103	0.104		0.97	20
1,2,4-Trichlorobenzene	0.876	0.929		6.05	20
1,2,3-Trichlorobenzene	0.743	0.768		3.37	20
1,2-Dichloroethane-d4	0.546	0.552		1.1	20
Dibromofluoromethane	0.298	0.308		3.36	20
Toluene-d8	1.222	1.265		3.52	20
4-Bromofluorobenzene	0.387	0.388		0.26	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_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
 Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	212993	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	356583	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	305829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	144477	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	117567	50.505	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 101.020%	
35) Dibromofluoromethane	7.634	113	109661	51.525	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.060%	
50) Toluene-d8	10.109	98	450916	51.731	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.460%	
62) 4-Bromofluorobenzene	12.407	95	138475	50.120	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 100.240%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	110954	49.923	ug/l	99
3) Chloromethane	2.068	50	227201	48.598	ug/l	99
4) Vinyl Chloride	2.202	62	286097	54.773	ug/l	96
5) Bromomethane	2.598	94	228058	53.635	ug/l	99
6) Chloroethane	2.738	64	188872	58.123	ug/l	95
7) Trichlorofluoromethane	3.055	101	278547	52.672	ug/l	100
8) Diethyl Ether	3.452	74	65966	51.977	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	121276	52.824	ug/l	100
10) Methyl Iodide	4.007	142	149113	56.117	ug/l	99
11) Tert butyl alcohol	4.872	59	42970	241.730	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	121321	53.251	ug/l	99
13) Acrolein	3.653	56	53247	204.899	ug/l	99
14) Allyl chloride	4.384	41	204941	51.302	ug/l	96
15) Acrylonitrile	5.061	53	135814	259.711	ug/l	98
16) Acetone	3.872	43	109507	250.886	ug/l	100
17) Carbon Disulfide	4.104	76	394070	53.042	ug/l	99
18) Methyl Acetate	4.384	43	69106	50.215	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	328680	52.321	ug/l	97
20) Methylene Chloride	4.616	84	134377	47.645	ug/l	94
21) trans-1,2-Dichloroethene	5.116	96	133277	52.998	ug/l	98
22) Diisopropyl ether	6.018	45	437077	51.810	ug/l	100
23) Vinyl Acetate	5.957	43	1279898	251.128	ug/l	100
24) 1,1-Dichloroethane	5.915	63	249652	52.970	ug/l	99
25) 2-Butanone	6.896	43	177141	242.624	ug/l	100
26) 2,2-Dichloropropane	6.884	77	227980	54.384	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	156977	54.093	ug/l	99
28) Bromochloromethane	7.244	49	103785	51.625	ug/l	99
29) Tetrahydrofuran	7.262	42	115748	246.422	ug/l	96
30) Chloroform	7.421	83	247345	54.713	ug/l	94
31) Cyclohexane	7.701	56	232896	49.457	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	221082	53.304	ug/l	99
36) 1,1-Dichloropropene	7.835	75	183482	52.341	ug/l	98
37) Ethyl Acetate	6.982	43	82168	48.715	ug/l	98
38) Carbon Tetrachloride	7.817	117	191365	52.737	ug/l	97
39) Methylcyclohexane	9.109	83	242532	51.496	ug/l	100
40) Benzene	8.079	78	558801	53.771	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
 Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	50033	44.718	ug/l #	91
42) 1,2-Dichloroethane	8.158	62	148582	52.870	ug/l	100
43) Isopropyl Acetate	8.195	43	182651	49.654	ug/l #	88
44) Trichloroethene	8.865	130	135760	52.539	ug/l	98
45) 1,2-Dichloropropane	9.140	63	132126	52.735	ug/l	97
46) Dibromomethane	9.231	93	70093	51.869	ug/l	99
47) Bromodichloromethane	9.426	83	189903	54.169	ug/l	98
48) Methyl methacrylate	9.219	41	85212	49.534	ug/l	98
49) 1,4-Dioxane	9.231	88	15293	1001.752	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	446509	247.383	ug/l	98
52) Toluene	10.170	92	350043	53.192	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	178121	52.062	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	209477	53.441	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	90613	52.364	ug/l	96
56) Ethyl methacrylate	10.438	69	136463	50.626	ug/l	98
57) 1,3-Dichloropropane	10.719	76	161520	52.534	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	319368	263.967	ug/l	99
59) 2-Hexanone	10.761	43	294366	243.243	ug/l	98
60) Dibromochloromethane	10.914	129	120550	53.672	ug/l	99
61) 1,2-Dibromoethane	11.017	107	84972	52.685	ug/l	99
64) Tetrachloroethene	10.646	164	145990	51.645	ug/l	97
65) Chlorobenzene	11.444	112	367007	53.191	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	125569	52.937	ug/l	100
67) Ethyl Benzene	11.517	91	683403	52.887	ug/l	99
68) m/p-Xylenes	11.627	106	518397	106.465	ug/l	100
69) o-Xylene	11.956	106	246010	53.401	ug/l	98
70) Styrene	11.968	104	414482	53.337	ug/l	99
71) Bromoform	12.133	173	65518	51.173	ug/l #	98
73) Isopropylbenzene	12.255	105	638419	53.338	ug/l	100
74) N-amyl acetate	12.072	43	170468	49.797	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	93984	51.057	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	78033m	53.312	ug/l	
77) Bromobenzene	12.535	156	134547	52.632	ug/l	99
78) n-propylbenzene	12.596	91	773886	53.604	ug/l	100
79) 2-Chlorotoluene	12.682	91	422629	53.269	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	512810	53.075	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	34394	47.601	ug/l	97
82) 4-Chlorotoluene	12.779	91	434539	53.249	ug/l	100
83) tert-Butylbenzene	12.999	119	453991	52.865	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	515364	53.733	ug/l	100
85) sec-Butylbenzene	13.176	105	682585	53.545	ug/l	100
86) p-Isopropyltoluene	13.291	119	573661	53.506	ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	277562	53.186	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	263812	52.554	ug/l	99
89) n-Butylbenzene	13.621	91	551378	54.360	ug/l	100
90) Hexachloroethane	13.883	117	115221	53.238	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	230646	52.616	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	15069	50.767	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	134157	52.983	ug/l	99
94) Hexachlorobutadiene	15.023	225	74411	52.696	ug/l	100
95) Naphthalene	15.145	128	243439	50.663	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	111008	51.679	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022277.D
Acq On : 16 May 2025 08:24
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

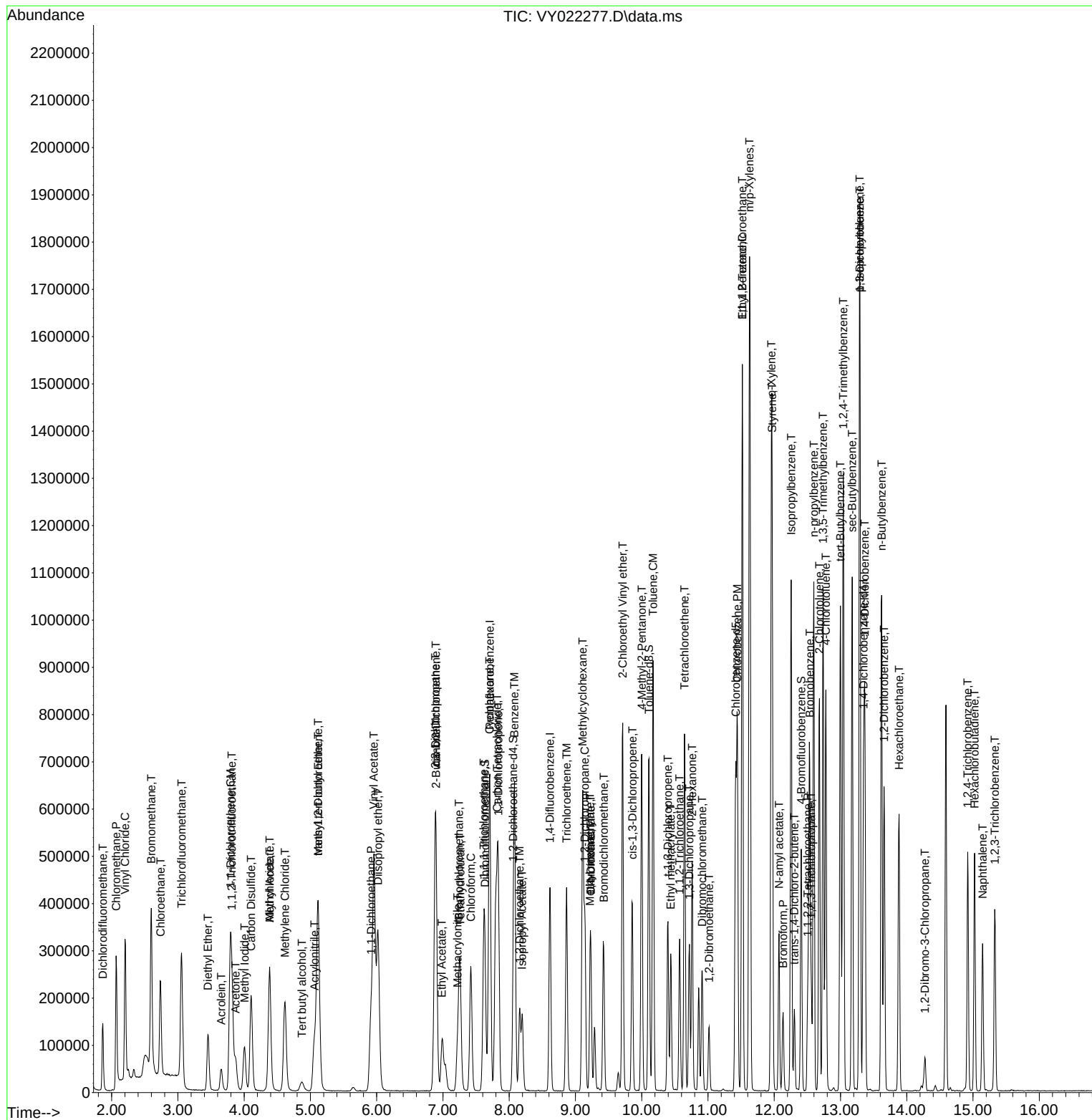
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
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Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
 Supervised By :Semsettin Yesilyurt 05/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
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Instrument :
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 LabSampleId :
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Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	80	0.00
2 T	Dichlorodifluoromethane	0.522	0.521	0.2	82	0.00
3 P	Chloromethane	1.097	1.067	2.7	81	0.00
4 C	Vinyl Chloride	1.226	1.343	-9.5#	88	0.00
5 T	Bromomethane	0.998	1.071	-7.3	97	0.00
6 T	Chloroethane	0.763	0.887	-16.3	93	0.00
7 T	Trichlorofluoromethane	1.241	1.308	-5.4	86	0.00
8 T	Diethyl Ether	0.298	0.310	-4.0	84	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.569	-5.6	84	0.00
10 T	Methyl Iodide	0.624	0.700	-12.2	81	0.00
11 T	Tert butyl alcohol	0.042	0.040	4.8	83	0.00
12 CM	1,1-Dichloroethene	0.535	0.570	-6.5#	84	0.00
13 T	Acrolein	0.061	0.050	18.0	71	0.00
14 T	Allyl chloride	0.938	0.962	-2.6	80	0.00
15 T	Acrylonitrile	0.123	0.128	-4.1	85	0.00
16 T	Acetone	0.102	0.103	-1.0	88	0.00
17 T	Carbon Disulfide	1.744	1.850	-6.1	84	0.00
18 T	Methyl Acetate	0.323	0.324	-0.3	86	0.00
19 T	Methyl tert-butyl Ether	1.475	1.543	-4.6	84	0.00
20 T	Methylene Chloride	0.662	0.631	4.7	84	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.626	-6.1	84	0.00
22 T	Diisopropyl ether	1.980	2.052	-3.6	82	0.00
23 T	Vinyl Acetate	1.196	1.202	-0.5	82	0.00
24 P	1,1-Dichloroethane	1.106	1.172	-6.0	84	0.00
25 T	2-Butanone	0.171	0.166	2.9	82	0.00
26 T	2,2-Dichloropropane	0.984	1.070	-8.7	86	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.737	-8.2	85	0.00
28 T	Bromochloromethane	0.472	0.487	-3.2	82	0.00
29 T	Tetrahydrofuran	0.110	0.109	0.9	81	0.00
30 C	Chloroform	1.061	1.161	-9.4#	86	0.00
31 T	Cyclohexane	1.105	1.093	1.1	82	0.00
32 T	1,1,1-Trichloroethane	0.974	1.038	-6.6	85	0.00
33 S	1,2-Dichloroethane-d4	0.546	0.552	-1.1	81	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35 S	Dibromofluoromethane	0.298	0.308	-3.4	83	0.00
36 T	1,1-Dichloropropene	0.492	0.515	-4.7	83	0.00
37 T	Ethyl Acetate	0.237	0.230	3.0	80	0.00
38 T	Carbon Tetrachloride	0.509	0.537	-5.5	84	0.00
39 T	Methylcyclohexane	0.660	0.680	-3.0	82	0.00
40 TM	Benzene	1.457	1.567	-7.5	85	0.00
41 T	Methacrylonitrile	0.157	0.140	10.8	72	0.00
42 TM	1,2-Dichloroethane	0.394	0.417	-5.8	84	0.00
43 T	Isopropyl Acetate	0.516	0.512	0.8	81	0.00
44 TM	Trichloroethene	0.362	0.381	-5.2	83	0.00
45 C	1,2-Dichloropropane	0.351	0.371	-5.7#	84	0.00
46 T	Dibromomethane	0.189	0.197	-4.2	84	0.00
47 T	Bromodichloromethane	0.492	0.533	-8.3	85	0.00
48 T	Methyl methacrylate	0.241	0.239	0.8	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	0.002	0.002	0.0	85	0.00
50 S	Toluene-d8	1.222	1.265	-3.5	83	0.00
51 T	4-Methyl-2-Pentanone	0.253	0.250	1.2	80	0.00
52 CM	Toluene	0.923	0.982	-6.4#	84	0.00
53 T	t-1,3-Dichloropropene	0.480	0.500	-4.2	83	0.00
54 T	cis-1,3-Dichloropropene	0.550	0.587	-6.7	85	0.00
55 T	1,1,2-Trichloroethane	0.243	0.254	-4.5	85	0.00
56 T	Ethyl methacrylate	0.378	0.383	-1.3	82	0.00
57 T	1,3-Dichloropropane	0.431	0.453	-5.1	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.170	0.179	-5.3	79	0.00
59 T	2-Hexanone	0.170	0.165	2.9	81	0.00
60 T	Dibromochloromethane	0.315	0.338	-7.3	85	0.00
61 T	1,2-Dibromoethane	0.226	0.238	-5.3	85	0.00
62 S	4-Bromofluorobenzene	0.387	0.388	-0.3	82	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
64 T	Tetrachloroethene	0.462	0.477	-3.2	82	0.00
65 PM	Chlorobenzene	1.128	1.200	-6.4	84	0.00
66 T	1,1,1,2-Tetrachloroethane	0.388	0.411	-5.9	84	0.00
67 C	Ethyl Benzene	2.113	2.235	-5.8#	83	0.00
68 T	m/p-Xylenes	0.796	0.848	-6.5	84	0.00
69 T	o-Xylene	0.753	0.804	-6.8	85	0.00
70 T	Styrene	1.270	1.355	-6.7	84	0.00
71 P	Bromoform	0.209	0.214	-2.4	83	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
73 T	Isopropylbenzene	4.142	4.419	-6.7	84	0.00
74 T	N-amyl acetate	1.185	1.180	0.4	82	0.00
75 P	1,1,2,2-Tetrachloroethane	0.637	0.651	-2.2	83	0.00
76 T	1,2,3-Trichloropropane	0.507	0.540	-6.5	86	0.00
77 T	Bromobenzene	0.885	0.931	-5.2	83	0.00
78 T	n-propylbenzene	4.996	5.356	-7.2	84	0.00
79 T	2-Chlorotoluene	2.746	2.925	-6.5	84	0.00
80 T	1,3,5-Trimethylbenzene	3.344	3.549	-6.1	83	0.00
81 T	trans-1,4-Dichloro-2-butene	0.250	0.238	4.8	81	0.00
82 T	4-Chlorotoluene	2.824	3.008	-6.5	83	0.00
83 T	tert-Butylbenzene	2.972	3.142	-5.7	83	0.00
84 T	1,2,4-Trimethylbenzene	3.319	3.567	-7.5	84	0.00
85 T	sec-Butylbenzene	4.412	4.725	-7.1	83	0.00
86 T	p-Isopropyltoluene	3.710	3.971	-7.0	83	0.00
87 T	1,3-Dichlorobenzene	1.806	1.921	-6.4	84	0.00
88 T	1,4-Dichlorobenzene	1.737	1.826	-5.1	84	0.00
89 T	n-Butylbenzene	3.510	3.816	-8.7	83	0.00
90 T	Hexachloroethane	0.749	0.798	-6.5	84	0.00
91 T	1,2-Dichlorobenzene	1.517	1.596	-5.2	83	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.103	0.104	-1.0	84	0.00
93 T	1,2,4-Trichlorobenzene	0.876	0.929	-6.1	83	0.00
94 T	Hexachlorobutadiene	0.489	0.515	-5.3	82	0.00
95 T	Naphthalene	1.663	1.685	-1.3	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
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Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
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VSTDCCC050

Quant Time: May 17 01:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	0.743	0.768	-3.4	82	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	80	0.00
2 T	Dichlorodifluoromethane	50.000	49.923	0.2	82	0.00
3 P	Chloromethane	50.000	48.598	2.8	81	0.00
4 C	Vinyl Chloride	50.000	54.773	-9.5#	88	0.00
5 T	Bromomethane	50.000	53.635	-7.3	97	0.00
6 T	Chloroethane	50.000	58.123	-16.2	93	0.00
7 T	Trichlorofluoromethane	50.000	52.672	-5.3	86	0.00
8 T	Diethyl Ether	50.000	51.977	-4.0	84	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.824	-5.6	84	0.00
10 T	Methyl Iodide	50.000	56.117	-12.2	81	0.00
11 T	Tert butyl alcohol	250.000	241.730	3.3	83	0.00
12 CM	1,1-Dichloroethene	50.000	53.251	-6.5#	84	0.00
13 T	Acrolein	250.000	204.899	18.0	71	0.00
14 T	Allyl chloride	50.000	51.302	-2.6	80	0.00
15 T	Acrylonitrile	250.000	259.711	-3.9	85	0.00
16 T	Acetone	250.000	250.886	-0.4	88	0.00
17 T	Carbon Disulfide	50.000	53.042	-6.1	84	0.00
18 T	Methyl Acetate	50.000	50.215	-0.4	86	0.00
19 T	Methyl tert-butyl Ether	50.000	52.321	-4.6	84	0.00
20 T	Methylene Chloride	50.000	47.645	4.7	84	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.998	-6.0	84	0.00
22 T	Diisopropyl ether	50.000	51.810	-3.6	82	0.00
23 T	Vinyl Acetate	250.000	251.128	-0.5	82	0.00
24 P	1,1-Dichloroethane	50.000	52.970	-5.9	84	0.00
25 T	2-Butanone	250.000	242.624	3.0	82	0.00
26 T	2,2-Dichloropropane	50.000	54.384	-8.8	86	0.00
27 T	cis-1,2-Dichloroethene	50.000	54.093	-8.2	85	0.00
28 T	Bromochloromethane	50.000	51.625	-3.3	82	0.00
29 T	Tetrahydrofuran	250.000	246.422	1.4	81	0.00
30 C	Chloroform	50.000	54.713	-9.4#	86	0.00
31 T	Cyclohexane	50.000	49.457	1.1	82	0.00
32 T	1,1,1-Trichloroethane	50.000	53.304	-6.6	85	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.505	-1.0	81	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35 S	Dibromofluoromethane	50.000	51.525	-3.0	83	0.00
36 T	1,1-Dichloropropene	50.000	52.341	-4.7	83	0.00
37 T	Ethyl Acetate	50.000	48.715	2.6	80	0.00
38 T	Carbon Tetrachloride	50.000	52.737	-5.5	84	0.00
39 T	Methylcyclohexane	50.000	51.496	-3.0	82	0.00
40 TM	Benzene	50.000	53.771	-7.5	85	0.00
41 T	Methacrylonitrile	50.000	44.718	10.6	72	0.00
42 TM	1,2-Dichloroethane	50.000	52.870	-5.7	84	0.00
43 T	Isopropyl Acetate	50.000	49.654	0.7	81	0.00
44 TM	Trichloroethene	50.000	52.539	-5.1	83	0.00
45 C	1,2-Dichloropropane	50.000	52.735	-5.5#	84	0.00
46 T	Dibromomethane	50.000	51.869	-3.7	84	0.00
47 T	Bromodichloromethane	50.000	54.169	-8.3	85	0.00
48 T	Methyl methacrylate	50.000	49.534	0.9	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022277.D
 Acq On : 16 May 2025 08:24
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 17 01:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	1001.752	-0.2	85	0.00
50 S	Toluene-d8	50.000	51.731	-3.5	83	0.00
51 T	4-Methyl-2-Pentanone	250.000	247.383	1.0	80	0.00
52 CM	Toluene	50.000	53.192	-6.4#	84	0.00
53 T	t-1,3-Dichloropropene	50.000	52.062	-4.1	83	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.441	-6.9	85	0.00
55 T	1,1,2-Trichloroethane	50.000	52.364	-4.7	85	0.00
56 T	Ethyl methacrylate	50.000	50.626	-1.3	82	0.00
57 T	1,3-Dichloropropane	50.000	52.534	-5.1	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	263.967	-5.6	79	0.00
59 T	2-Hexanone	250.000	243.243	2.7	81	0.00
60 T	Dibromochloromethane	50.000	53.672	-7.3	85	0.00
61 T	1,2-Dibromoethane	50.000	52.685	-5.4	85	0.00
62 S	4-Bromofluorobenzene	50.000	50.120	-0.2	82	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	81	0.00
64 T	Tetrachloroethene	50.000	51.645	-3.3	82	0.00
65 PM	Chlorobenzene	50.000	53.191	-6.4	84	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.937	-5.9	84	0.00
67 C	Ethyl Benzene	50.000	52.887	-5.8#	83	0.00
68 T	m/p-Xylenes	100.000	106.465	-6.5	84	0.00
69 T	o-Xylene	50.000	53.401	-6.8	85	0.00
70 T	Styrene	50.000	53.337	-6.7	84	0.00
71 P	Bromoform	50.000	51.173	-2.3	83	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	80	0.00
73 T	Isopropylbenzene	50.000	53.338	-6.7	84	0.00
74 T	N-amyl acetate	50.000	49.797	0.4	82	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.057	-2.1	83	0.00
76 T	1,2,3-Trichloropropane	50.000	53.312	-6.6	86	0.00
77 T	Bromobenzene	50.000	52.632	-5.3	83	0.00
78 T	n-propylbenzene	50.000	53.604	-7.2	84	0.00
79 T	2-Chlorotoluene	50.000	53.269	-6.5	84	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.075	-6.2	83	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.601	4.8	81	0.00
82 T	4-Chlorotoluene	50.000	53.249	-6.5	83	0.00
83 T	tert-Butylbenzene	50.000	52.865	-5.7	83	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.733	-7.5	84	0.00
85 T	sec-Butylbenzene	50.000	53.545	-7.1	83	0.00
86 T	p-Isopropyltoluene	50.000	53.506	-7.0	83	0.00
87 T	1,3-Dichlorobenzene	50.000	53.186	-6.4	84	0.00
88 T	1,4-Dichlorobenzene	50.000	52.554	-5.1	84	0.00
89 T	n-Butylbenzene	50.000	54.360	-8.7	83	0.00
90 T	Hexachloroethane	50.000	53.238	-6.5	84	0.00
91 T	1,2-Dichlorobenzene	50.000	52.616	-5.2	83	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.767	-1.5	84	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.983	-6.0	83	0.00
94 T	Hexachlorobutadiene	50.000	52.696	-5.4	82	0.00
95 T	Naphthalene	50.000	50.663	-1.3	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022277.D
Acq On : 16 May 2025 08:24
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 17 01:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	51.679	-3.4	82	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_Y Calibration Date/Time: 05/20/2025 08:40

Lab File ID: VY022329.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.487		-6.7	20
Chloromethane	1.097	1.094	0.1	-0.27	20
Vinyl Chloride	1.226	1.524		24.31	20
Bromomethane	0.998	1.160		16.23	20
Chloroethane	0.763	1.012		32.63	20
Trichlorofluoromethane	1.241	1.392		12.17	20
1,1,2-Trichlorotrifluoroethane	0.539	0.553		2.6	20
1,1-Dichloroethene	0.535	0.534		-0.19	20
Acetone	0.102	0.091		-10.78	20
Carbon Disulfide	1.744	1.711		-1.89	20
Methyl tert-butyl Ether	1.475	1.383		-6.24	20
Methyl Acetate	0.323	0.272		-15.79	20
Methylene Chloride	0.662	0.582		-12.09	20
trans-1,2-Dichloroethene	0.590	0.583		-1.19	20
1,1-Dichloroethane	1.106	1.085	0.1	-1.9	20
Cyclohexane	1.105	1.035		-6.34	20
2-Butanone	0.171	0.147		-14.03	20
Carbon Tetrachloride	0.509	0.517		1.57	20
cis-1,2-Dichloroethene	0.681	0.683		0.29	20
Bromochloromethane	0.472	0.470		-0.42	20
Chloroform	1.061	1.059		-0.19	20
1,1,1-Trichloroethane	0.974	0.966		-0.82	20
Methylcyclohexane	0.660	0.662		0.3	20
Benzene	1.457	1.473		1.1	20
1,2-Dichloroethane	0.394	0.380		-3.55	20
Trichloroethene	0.362	0.364		0.55	20
1,2-Dichloropropane	0.351	0.346		-1.42	20
Bromodichloromethane	0.492	0.489		-0.61	20
4-Methyl-2-Pentanone	0.253	0.220		-13.04	20
Toluene	0.923	0.912		-1.19	20
t-1,3-Dichloropropene	0.480	0.458		-4.58	20
cis-1,3-Dichloropropene	0.550	0.528		-4	20
1,1,2-Trichloroethane	0.243	0.233		-4.11	20
2-Hexanone	0.170	0.145		-14.71	20
Dibromochloromethane	0.315	0.304		-3.49	20
1,2-Dibromoethane	0.226	0.216		-4.43	20
Tetrachloroethene	0.462	0.471		1.95	20
Chlorobenzene	1.128	1.122	0.3	-0.53	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: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: MSVOA_Y Calibration Date/Time: 05/20/2025 08:40

Lab File ID: VY022329.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.120		0.33	20
m/p-Xylenes	0.796	0.803		0.88	20
o-Xylene	0.753	0.738		-1.99	20
Styrene	1.270	1.255		-1.18	20
Bromoform	0.209	0.191	0.1	-8.61	20
Isopropylbenzene	4.142	4.147		0.12	20
1,1,2,2-Tetrachloroethane	0.637	0.595	0.3	-6.59	20
1,3-Dichlorobenzene	1.806	1.753		-2.93	20
1,4-Dichlorobenzene	1.737	1.663		-4.26	20
1,2-Dichlorobenzene	1.517	1.456		-4.02	20
1,2-Dibromo-3-Chloropropane	0.103	0.093		-9.71	20
1,2,4-Trichlorobenzene	0.876	0.815		-6.96	20
1,2,3-Trichlorobenzene	0.743	0.680		-8.48	20
1,2-Dichloroethane-d4	0.546	0.533		-2.38	20
Dibromofluoromethane	0.298	0.305		2.35	20
Toluene-d8	1.222	1.259		3.03	20
4-Bromofluorobenzene	0.387	0.375		-3.1	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_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	180374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	298369	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	252391	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	120747	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	96211	48.805	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.620%
35) Dibromofluoromethane	7.634	113	90959	51.076	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.160%
50) Toluene-d8	10.109	98	375501	51.484	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.960%
62) 4-Bromofluorobenzene	12.408	95	111811	48.365	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	96.740%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	87856	46.679	ug/l	99
3) Chloromethane	2.068	50	197335	49.842	ug/l	100
4) Vinyl Chloride	2.202	62	274924	62.153	ug/l	97
5) Bromomethane	2.598	94	209168	58.088	ug/l	99
6) Chloroethane	2.733	64	182573	66.345	ug/l	100
7) Trichlorofluoromethane	3.050	101	251083	56.065	ug/l	100
8) Diethyl Ether	3.452	74	49275	45.847	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	99707	51.283	ug/l	98
10) Methyl Iodide	4.007	142	113213	50.311	ug/l	99
11) Tert butyl alcohol	4.860	59	32480	215.761	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	96307	49.916	ug/l	98
13) Acrolein	3.653	56	26963	122.519	ug/l	94
14) Allyl chloride	4.379	41	152279	45.013	ug/l	94
15) Acrylonitrile	5.055	53	100495	226.925	ug/l	99
16) Acetone	3.873	43	82432	223.009	ug/l	90
17) Carbon Disulfide	4.104	76	308666	49.060	ug/l	99
18) Methyl Acetate	4.385	43	49112	42.141	ug/l	95
19) Methyl tert-butyl Ether	5.116	73	249468	46.893	ug/l	99
20) Methylene Chloride	4.616	84	104952	43.941	ug/l	92
21) trans-1,2-Dichloroethene	5.116	96	105103	49.353	ug/l	91
22) Diisopropyl ether	6.019	45	328037	45.916	ug/l	99
23) Vinyl Acetate	5.958	43	945452	219.054	ug/l	97
24) 1,1-Dichloroethane	5.915	63	195759	49.046	ug/l	97
25) 2-Butanone	6.890	43	132386	214.116	ug/l	97
26) 2,2-Dichloropropane	6.884	77	176104	49.606	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	123269	50.159	ug/l	99
28) Bromochloromethane	7.244	49	84842	49.834	ug/l	96
29) Tetrahydrofuran	7.262	42	85738	215.541	ug/l	95
30) Chloroform	7.421	83	191099	49.916	ug/l	100
31) Cyclohexane	7.701	56	186740	46.827	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	174168	49.587	ug/l	99
36) 1,1-Dichloropropene	7.835	75	146745	50.028	ug/l	99
37) Ethyl Acetate	6.988	43	60741	43.038	ug/l	99
38) Carbon Tetrachloride	7.817	117	154127	50.762	ug/l	99
39) Methylcyclohexane	9.109	83	197541	50.127	ug/l	96
40) Benzene	8.079	78	439609	50.555	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025

Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:42:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Quant Title : SW846 8260

QLast Update : Fri May 16 01:42:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	42308m	45.192	ug/l	
42) 1,2-Dichloroethane	8.158	62	113474	48.255	ug/l	100
43) Isopropyl Acetate	8.195	43	132355	43.001	ug/l #	86
44) Trichloroethene	8.866	130	108566	50.212	ug/l	96
45) 1,2-Dichloropropane	9.140	63	103106	49.181	ug/l	98
46) Dibromomethane	9.231	93	54532	48.227	ug/l	97
47) Bromodichloromethane	9.420	83	145860	49.724	ug/l	100
48) Methyl methacrylate	9.219	41	61712	42.873	ug/l	94
49) 1,4-Dioxane	9.231	88	12080	945.674	ug/l	90
51) 4-Methyl-2-Pentanone	10.000	43	328310	217.386	ug/l	97
52) Toluene	10.170	92	272032	49.403	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	136680	47.744	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	157453	48.006	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	69620	48.082	ug/l	98
56) Ethyl methacrylate	10.438	69	103441	45.862	ug/l	97
57) 1,3-Dichloropropane	10.719	76	124485	48.388	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	228868	226.074	ug/l	99
59) 2-Hexanone	10.762	43	216713	214.015	ug/l	97
60) Dibromochloromethane	10.914	129	90557	48.185	ug/l	100
61) 1,2-Dibromoethane	11.018	107	64317	47.659	ug/l	99
64) Tetrachloroethene	10.646	164	118778	50.915	ug/l	98
65) Chlorobenzene	11.444	112	283164	49.729	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	96653	49.374	ug/l	99
67) Ethyl Benzene	11.518	91	534980	50.166	ug/l	100
68) m/p-Xylenes	11.627	106	405451	100.899	ug/l	98
69) o-Xylene	11.956	106	186251	48.989	ug/l	100
70) Styrene	11.969	104	316649	49.374	ug/l	98
71) Bromoform	12.133	173	48192	45.610	ug/l #	99
73) Isopropylbenzene	12.255	105	500715	50.055	ug/l	99
74) N-amyl acetate	12.072	43	122315	42.753	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	71869	46.716	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	57634m	47.114	ug/l	
77) Bromobenzene	12.536	156	101902	47.696	ug/l	99
78) n-propylbenzene	12.597	91	611228	50.658	ug/l	100
79) 2-Chlorotoluene	12.682	91	320605	48.352	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	398122	49.303	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	26577	44.011	ug/l	96
82) 4-Chlorotoluene	12.780	91	331061	48.542	ug/l	99
83) tert-Butylbenzene	12.999	119	353055	49.191	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	390297	48.690	ug/l	98
85) sec-Butylbenzene	13.176	105	535889	50.299	ug/l	100
86) p-Isopropyltoluene	13.292	119	448789	50.085	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	211690	48.536	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	200827	47.869	ug/l	99
89) n-Butylbenzene	13.615	91	430086	50.735	ug/l	99
90) Hexachloroethane	13.883	117	88228	48.777	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	175805	47.987	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11289	45.506	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	98395	46.496	ug/l	99
94) Hexachlorobutadiene	15.023	225	54240	45.960	ug/l	99
95) Naphthalene	15.145	128	179488	44.695	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	82076	45.719	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

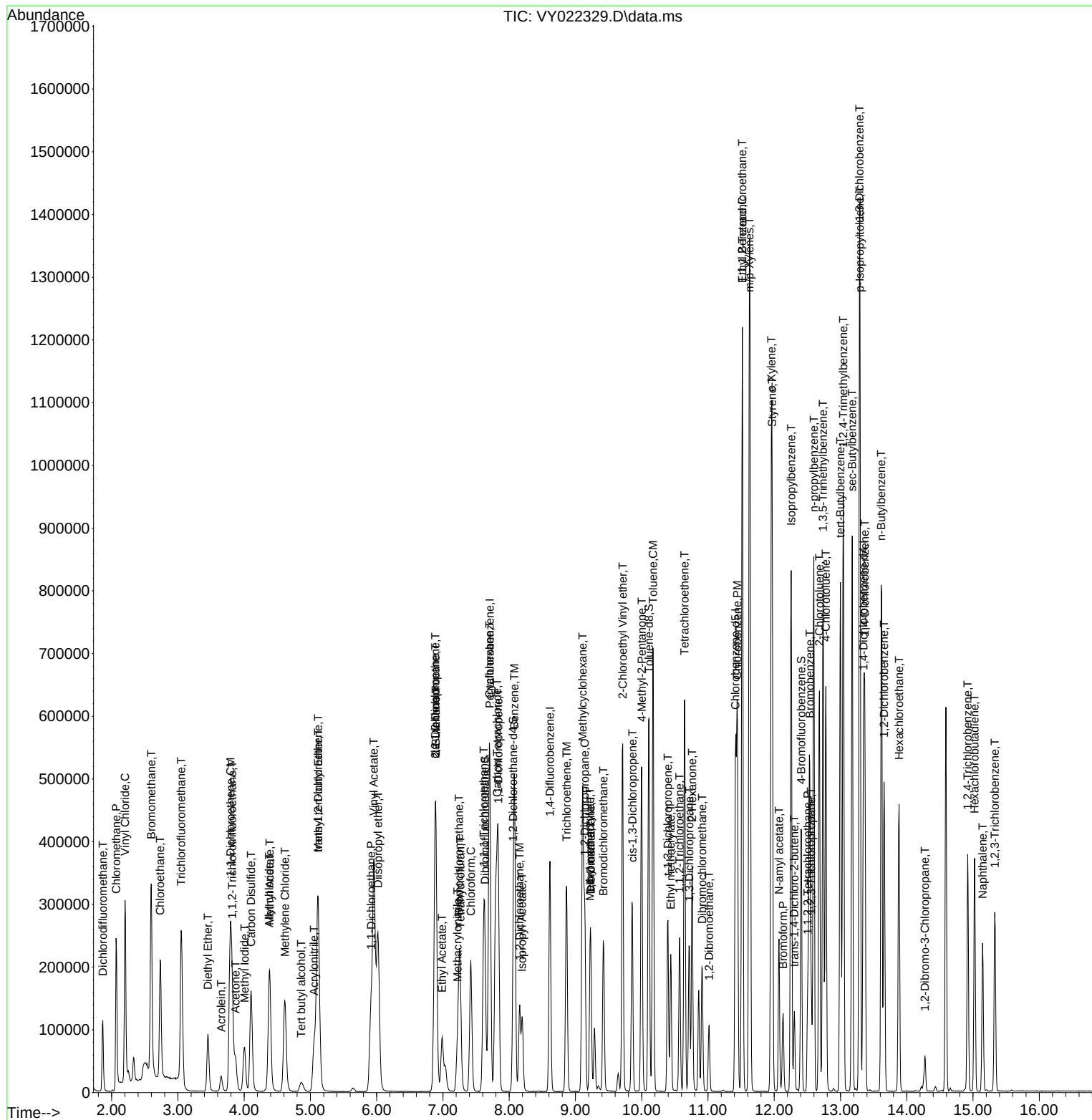
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 21 01:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	67	0.00
2 T	Dichlorodifluoromethane	0.522	0.487	6.7	65	0.00
3 P	Chloromethane	1.097	1.094	0.3	71	0.00
4 C	Vinyl Chloride	1.226	1.524	-24.3#	85	0.00
5 T	Bromomethane	0.998	1.160	-16.2	89	0.00
6 T	Chloroethane	0.763	1.012	-32.6#	90	0.00
7 T	Trichlorofluoromethane	1.241	1.392	-12.2	77	0.00
8 T	Diethyl Ether	0.298	0.273	8.4	63	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.553	-2.6	69	0.00
10 T	Methyl Iodide	0.624	0.628	-0.6	62	0.00
11 T	Tert butyl alcohol	0.042	0.036	14.3	63	-0.01
12 CM	1,1-Dichloroethene	0.535	0.534	0.2#	67	0.00
13 T	Acrolein	0.061	0.030	50.8#	36#	0.00
14 T	Allyl chloride	0.938	0.844	10.0	59	0.00
15 T	Acrylonitrile	0.123	0.111	9.8	63	0.00
16 T	Acetone	0.102	0.091	10.8	66	0.00
17 T	Carbon Disulfide	1.744	1.711	1.9	66	0.00
18 T	Methyl Acetate	0.323	0.272	15.8	61	0.00
19 T	Methyl tert-butyl Ether	1.475	1.383	6.2	64	0.00
20 T	Methylene Chloride	0.662	0.582	12.1	66	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.583	1.2	66	0.00
22 T	Diisopropyl ether	1.980	1.819	8.1	62	0.00
23 T	Vinyl Acetate	1.196	1.048	12.4	60	0.00
24 P	1,1-Dichloroethane	1.106	1.085	1.9	66	0.00
25 T	2-Butanone	0.171	0.147	14.0	61	0.00
26 T	2,2-Dichloropropane	0.984	0.976	0.8	67	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.683	-0.3	67	0.00
28 T	Bromochloromethane	0.472	0.470	0.4	67	0.00
29 T	Tetrahydrofuran	0.110	0.095	13.6	60	0.00
30 C	Chloroform	1.061	1.059	0.2#	66	0.00
31 T	Cyclohexane	1.105	1.035	6.3	66	0.00
32 T	1,1,1-Trichloroethane	0.974	0.966	0.8	67	0.00
33 S	1,2-Dichloroethane-d4	0.546	0.533	2.4	66	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	68	0.00
35 S	Dibromofluoromethane	0.298	0.305	-2.3	69	0.00
36 T	1,1-Dichloropropene	0.492	0.492	0.0	66	0.00
37 T	Ethyl Acetate	0.237	0.204	13.9	59	0.00
38 T	Carbon Tetrachloride	0.509	0.517	-1.6	68	0.00
39 T	Methylcyclohexane	0.660	0.662	-0.3	67	0.00
40 TM	Benzene	1.457	1.473	-1.1	67	0.00
41 T	Methacrylonitrile	0.157	0.142	9.6	61	0.00
42 TM	1,2-Dichloroethane	0.394	0.380	3.6	64	0.00
43 T	Isopropyl Acetate	0.516	0.444	14.0	59	0.00
44 TM	Trichloroethene	0.362	0.364	-0.6	67	0.00
45 C	1,2-Dichloropropane	0.351	0.346	1.4#	66	0.00
46 T	Dibromomethane	0.189	0.183	3.2	66	0.00
47 T	Bromodichloromethane	0.492	0.489	0.6	66	0.00
48 T	Methyl methacrylate	0.241	0.207	14.1	59	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 21 01:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	0.002	0.002	0.0	67	0.00
50 S	Toluene-d8	1.222	1.259	-3.0	69	0.00
51 T	4-Methyl-2-Pentanone	0.253	0.220	13.0	59	0.00
52 CM	Toluene	0.923	0.912	1.2#	66	0.00
53 T	t-1,3-Dichloropropene	0.480	0.458	4.6	64	0.00
54 T	cis-1,3-Dichloropropene	0.550	0.528	4.0	64	0.00
55 T	1,1,2-Trichloroethane	0.243	0.233	4.1	65	0.00
56 T	Ethyl methacrylate	0.378	0.347	8.2	62	0.00
57 T	1,3-Dichloropropane	0.431	0.417	3.2	65	0.00
58 T	2-Chloroethyl Vinyl ether	0.170	0.153	10.0	57	0.00
59 T	2-Hexanone	0.170	0.145	14.7	59	0.00
60 T	Dibromochloromethane	0.315	0.304	3.5	64	0.00
61 T	1,2-Dibromoethane	0.226	0.216	4.4	64	0.00
62 S	4-Bromofluorobenzene	0.387	0.375	3.1	66	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
64 T	Tetrachloroethene	0.462	0.471	-1.9	66	0.00
65 PM	Chlorobenzene	1.128	1.122	0.5	65	0.00
66 T	1,1,1,2-Tetrachloroethane	0.388	0.383	1.3	65	0.00
67 C	Ethyl Benzene	2.113	2.120	-0.3#	65	0.00
68 T	m/p-Xylenes	0.796	0.803	-0.9	66	0.00
69 T	o-Xylene	0.753	0.738	2.0	64	0.00
70 T	Styrene	1.270	1.255	1.2	64	0.00
71 P	Bromoform	0.209	0.191	8.6	61	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00
73 T	Isopropylbenzene	4.142	4.147	-0.1	66	0.00
74 T	N-amyl acetate	1.185	1.013	14.5	58	0.00
75 P	1,1,2,2-Tetrachloroethane	0.637	0.595	6.6	63	0.00
76 T	1,2,3-Trichloropropane	0.507	0.477	5.9	64	0.00
77 T	Bromobenzene	0.885	0.844	4.6	63	0.00
78 T	n-propylbenzene	4.996	5.062	-1.3	66	0.00
79 T	2-Chlorotoluene	2.746	2.655	3.3	63	0.00
80 T	1,3,5-Trimethylbenzene	3.344	3.297	1.4	65	0.00
81 T	trans-1,4-Dichloro-2-butene	0.250	0.220	12.0	62	0.00
82 T	4-Chlorotoluene	2.824	2.742	2.9	63	0.00
83 T	tert-Butylbenzene	2.972	2.924	1.6	65	0.00
84 T	1,2,4-Trimethylbenzene	3.319	3.232	2.6	63	0.00
85 T	sec-Butylbenzene	4.412	4.438	-0.6	65	0.00
86 T	p-Isopropyltoluene	3.710	3.717	-0.2	65	0.00
87 T	1,3-Dichlorobenzene	1.806	1.753	2.9	64	0.00
88 T	1,4-Dichlorobenzene	1.737	1.663	4.3	64	0.00
89 T	n-Butylbenzene	3.510	3.562	-1.5	65	0.00
90 T	Hexachloroethane	0.749	0.731	2.4	64	0.00
91 T	1,2-Dichlorobenzene	1.517	1.456	4.0	64	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.103	0.093	9.7	63	0.00
93 T	1,2,4-Trichlorobenzene	0.876	0.815	7.0	61	0.00
94 T	Hexachlorobutadiene	0.489	0.449	8.2	60	0.00
95 T	Naphthalene	1.663	1.486	10.6	60	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	0.743	0.680	8.5	60	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 21 01:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	67	0.00
2 T	Dichlorodifluoromethane	50.000	46.679	6.6	65	0.00
3 P	Chloromethane	50.000	49.842	0.3	71	0.00
4 C	Vinyl Chloride	50.000	62.153	-24.3#	85	0.00
5 T	Bromomethane	50.000	58.088	-16.2	89	0.00
6 T	Chloroethane	50.000	66.345	-32.7#	90	0.00
7 T	Trichlorofluoromethane	50.000	56.065	-12.1	77	0.00
8 T	Diethyl Ether	50.000	45.847	8.3	63	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.283	-2.6	69	0.00
10 T	Methyl Iodide	50.000	50.311	-0.6	62	0.00
11 T	Tert butyl alcohol	250.000	215.761	13.7	63	-0.01
12 CM	1,1-Dichloroethene	50.000	49.916	0.2#	67	0.00
13 T	Acrolein	250.000	122.519	51.0#	36	0.00
14 T	Allyl chloride	50.000	45.013	10.0	59	0.00
15 T	Acrylonitrile	250.000	226.925	9.2	63	0.00
16 T	Acetone	250.000	223.009	10.8	66	0.00
17 T	Carbon Disulfide	50.000	49.060	1.9	66	0.00
18 T	Methyl Acetate	50.000	42.141	15.7	61	0.00
19 T	Methyl tert-butyl Ether	50.000	46.893	6.2	64	0.00
20 T	Methylene Chloride	50.000	43.941	12.1	66	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.353	1.3	66	0.00
22 T	Diisopropyl ether	50.000	45.916	8.2	62	0.00
23 T	Vinyl Acetate	250.000	219.054	12.4	60	0.00
24 P	1,1-Dichloroethane	50.000	49.046	1.9	66	0.00
25 T	2-Butanone	250.000	214.116	14.4	61	0.00
26 T	2,2-Dichloropropane	50.000	49.606	0.8	67	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.159	-0.3	67	0.00
28 T	Bromochloromethane	50.000	49.834	0.3	67	0.00
29 T	Tetrahydrofuran	250.000	215.541	13.8	60	0.00
30 C	Chloroform	50.000	49.916	0.2#	66	0.00
31 T	Cyclohexane	50.000	46.827	6.3	66	0.00
32 T	1,1,1-Trichloroethane	50.000	49.587	0.8	67	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.805	2.4	66	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	68	0.00
35 S	Dibromofluoromethane	50.000	51.076	-2.2	69	0.00
36 T	1,1-Dichloropropene	50.000	50.028	-0.1	66	0.00
37 T	Ethyl Acetate	50.000	43.038	13.9	59	0.00
38 T	Carbon Tetrachloride	50.000	50.762	-1.5	68	0.00
39 T	Methylcyclohexane	50.000	50.127	-0.3	67	0.00
40 TM	Benzene	50.000	50.555	-1.1	67	0.00
41 T	Methacrylonitrile	50.000	45.192	9.6	61	0.00
42 TM	1,2-Dichloroethane	50.000	48.255	3.5	64	0.00
43 T	Isopropyl Acetate	50.000	43.001	14.0	59	0.00
44 TM	Trichloroethene	50.000	50.212	-0.4	67	0.00
45 C	1,2-Dichloropropane	50.000	49.181	1.6#	66	0.00
46 T	Dibromomethane	50.000	48.227	3.5	66	0.00
47 T	Bromodichloromethane	50.000	49.724	0.6	66	0.00
48 T	Methyl methacrylate	50.000	42.873	14.3	59	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022329.D
 Acq On : 20 May 2025 08:40
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: May 21 01:42:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 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	945.674	5.4	67	0.00
50 S	Toluene-d8	50.000	51.484	-3.0	69	0.00
51 T	4-Methyl-2-Pentanone	250.000	217.386	13.0	59	0.00
52 CM	Toluene	50.000	49.403	1.2#	66	0.00
53 T	t-1,3-Dichloropropene	50.000	47.744	4.5	64	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.006	4.0	64	0.00
55 T	1,1,2-Trichloroethane	50.000	48.082	3.8	65	0.00
56 T	Ethyl methacrylate	50.000	45.862	8.3	62	0.00
57 T	1,3-Dichloropropane	50.000	48.388	3.2	65	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	226.074	9.6	57	0.00
59 T	2-Hexanone	250.000	214.015	14.4	59	0.00
60 T	Dibromochloromethane	50.000	48.185	3.6	64	0.00
61 T	1,2-Dibromoethane	50.000	47.659	4.7	64	0.00
62 S	4-Bromofluorobenzene	50.000	48.365	3.3	66	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	67	0.00
64 T	Tetrachloroethene	50.000	50.915	-1.8	66	0.00
65 PM	Chlorobenzene	50.000	49.729	0.5	65	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.374	1.3	65	0.00
67 C	Ethyl Benzene	50.000	50.166	-0.3#	65	0.00
68 T	m/p-Xylenes	100.000	100.899	-0.9	66	0.00
69 T	o-Xylene	50.000	48.989	2.0	64	0.00
70 T	Styrene	50.000	49.374	1.3	64	0.00
71 P	Bromoform	50.000	45.610	8.8	61	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	67	0.00
73 T	Isopropylbenzene	50.000	50.055	-0.1	66	0.00
74 T	N-amyl acetate	50.000	42.753	14.5	58	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.716	6.6	63	0.00
76 T	1,2,3-Trichloropropane	50.000	47.114	5.8	64	0.00
77 T	Bromobenzene	50.000	47.696	4.6	63	0.00
78 T	n-propylbenzene	50.000	50.658	-1.3	66	0.00
79 T	2-Chlorotoluene	50.000	48.352	3.3	63	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.303	1.4	65	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	44.011	12.0	62	0.00
82 T	4-Chlorotoluene	50.000	48.542	2.9	63	0.00
83 T	tert-Butylbenzene	50.000	49.191	1.6	65	0.00
84 T	1,2,4-Trimethylbenzene	50.000	48.690	2.6	63	0.00
85 T	sec-Butylbenzene	50.000	50.299	-0.6	65	0.00
86 T	p-Isopropyltoluene	50.000	50.085	-0.2	65	0.00
87 T	1,3-Dichlorobenzene	50.000	48.536	2.9	64	0.00
88 T	1,4-Dichlorobenzene	50.000	47.869	4.3	64	0.00
89 T	n-Butylbenzene	50.000	50.735	-1.5	65	0.00
90 T	Hexachloroethane	50.000	48.777	2.4	64	0.00
91 T	1,2-Dichlorobenzene	50.000	47.987	4.0	64	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.506	9.0	63	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.496	7.0	61	0.00
94 T	Hexachlorobutadiene	50.000	45.960	8.1	60	0.00
95 T	Naphthalene	50.000	44.695	10.6	60	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022329.D
Acq On : 20 May 2025 08:40
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 21 01:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 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	45.719	8.6	60	0.00

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



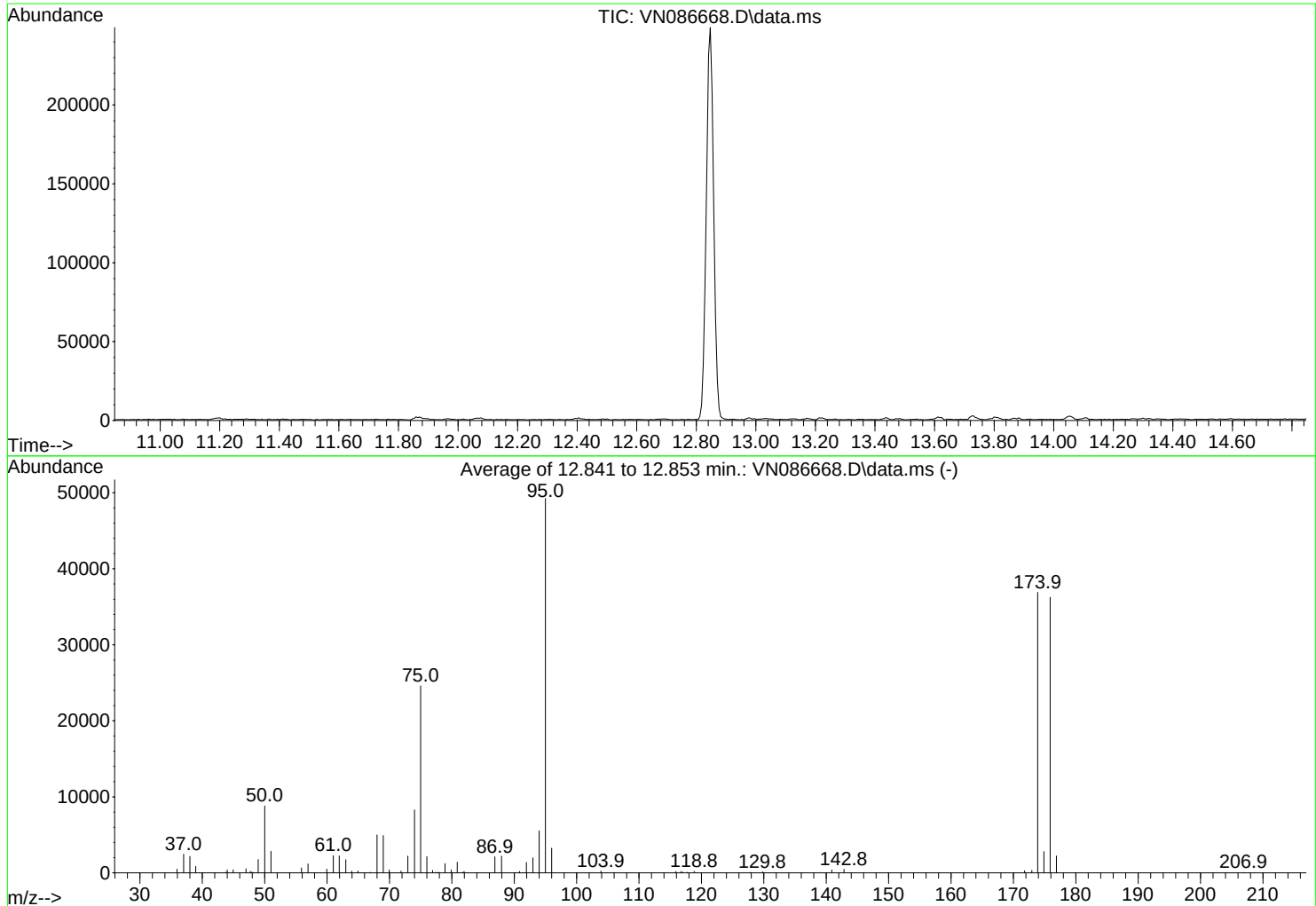
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086668.D
Acq On : 16 May 2025 15:33
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Title : SW846 8260
Last Update : Sat May 17 00:46:13 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8802	PASS
75	95	30	60	50.0	24603	PASS
95	95	100	100	100.0	49237	PASS
96	95	5	9	6.6	3255	PASS
173	174	0.00	2	0.9	345	PASS
174	95	50	100	74.9	36899	PASS
175	174	5	9	7.6	2805	PASS
176	174	95	101	98.2	36248	PASS
177	176	5	9	6.1	2226	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	491	48.95	1758	66.90	77	77.70	61
37.00	2471	50.00	8802	68.00	4985	77.90	81
38.00	2170	51.00	2842	69.00	4914	78.90	122
38.95	848	55.90	650	69.95	392	79.90	39
43.80	90	56.95	1184	71.85	240	80.85	1395
44.00	384	59.95	482	72.95	2211	81.70	66
44.95	402	61.00	2266	74.00	8274	81.95	184
47.00	538	61.95	2229	75.00	24603	86.90	2121
47.70	193	63.00	1738	76.00	2136	87.95	2202
47.90	98	63.95	231	76.90	315	90.85	195
48.20	75	64.95	248	77.40	73	91.95	1382

Average of 12.841 to 12.853 min.: VN086668.D\data.ms

BFB

Modified:subtracted

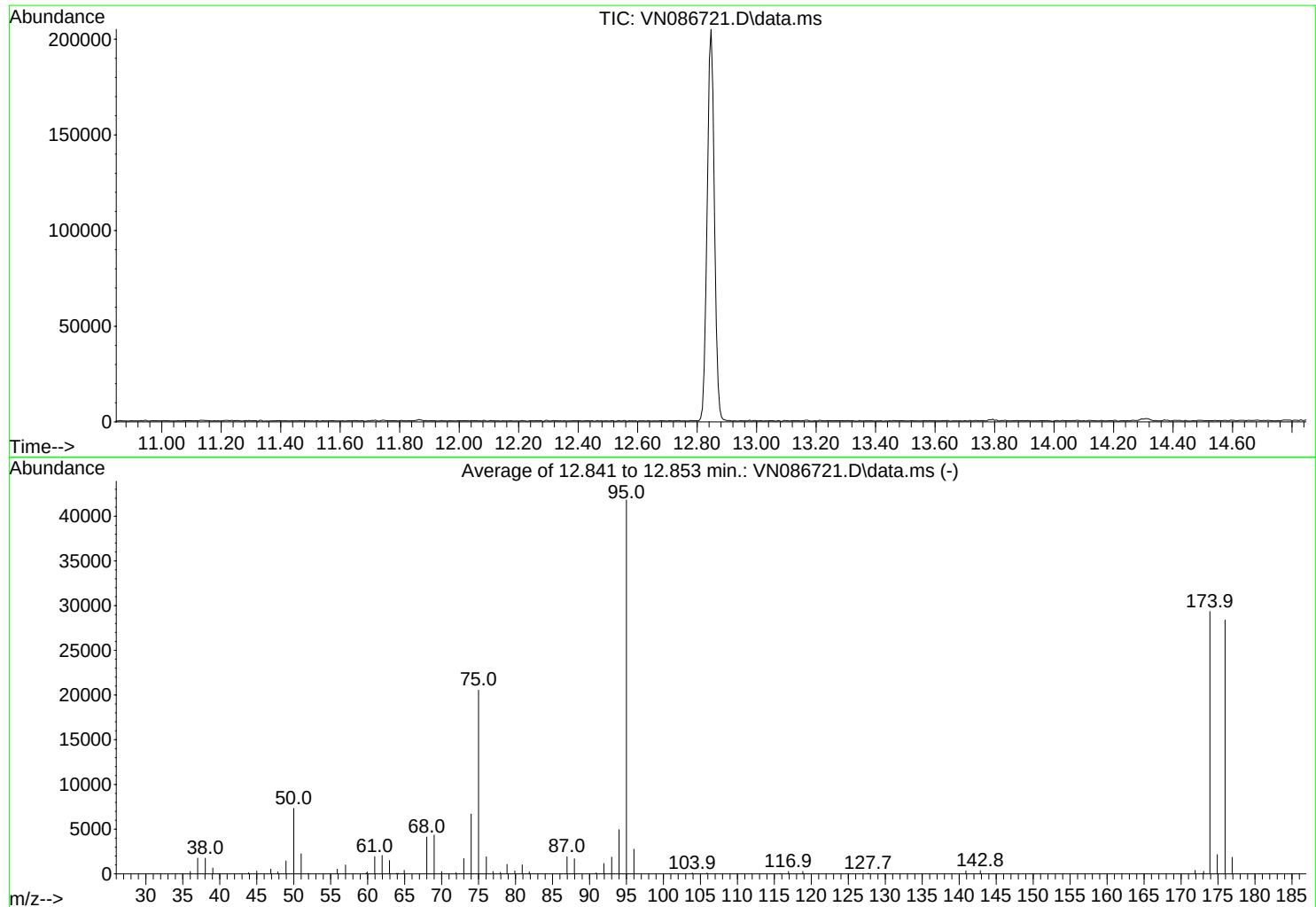
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	1974	127.80	58				
94.00	5539	129.80	148				
95.00	49237	140.90	397				
96.00	3255	142.85	470				
103.90	249	171.80	278				
105.90	60	172.95	345				
115.90	181	173.90	36899				
116.75	181	174.90	2805				
117.00	86	175.90	36248				
117.70	68	176.90	2226				
118.85	214	206.90	58				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086721.D
Acq On : 21 May 2025 10:37
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Title : SW846 8260
Last Update : Sat May 17 00:46:13 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.5	7326	PASS
75	95	30	60	49.1	20544	PASS
95	95	100	100	100.0	41819	PASS
96	95	5	9	6.6	2764	PASS
173	174	0.00	2	1.0	289	PASS
174	95	50	100	70.2	29341	PASS
175	174	5	9	7.3	2156	PASS
176	174	95	101	96.8	28400	PASS
177	176	5	9	6.5	1855	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	269	51.00	2252	64.95	401	78.85	106
37.00	1757	51.90	53	68.00	4123	79.90	33
38.05	1766	55.90	529	69.00	4347	80.90	101
39.05	654	57.00	992	70.00	253	81.85	24
39.85	7	59.80	111	71.95	159	86.95	1926
43.90	139	59.95	215	73.00	1716	87.95	1680
45.00	321	60.95	1937	74.00	6692	90.90	130
46.90	536	61.95	2069	75.00	20544	91.95	1152
47.85	234	62.95	1488	76.05	1912	93.00	1875
48.95	1444	63.90	59	76.95	268	94.00	4952
50.00	7326	64.10	77	77.95	169	95.00	41819

Average of 12.841 to 12.853 min.: VN086721.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	2764	172.80	57				
103.90	122	173.05	289				
105.90	115	173.90	29341				
115.80	52	174.90	2156				
116.90	268	175.95	28400				
118.85	264	176.90	1855				
127.70	78						
129.80	54						
140.90	330						
142.85	362						
171.90	394						

Instrument :

MSVOA_N

ClientSampleId :

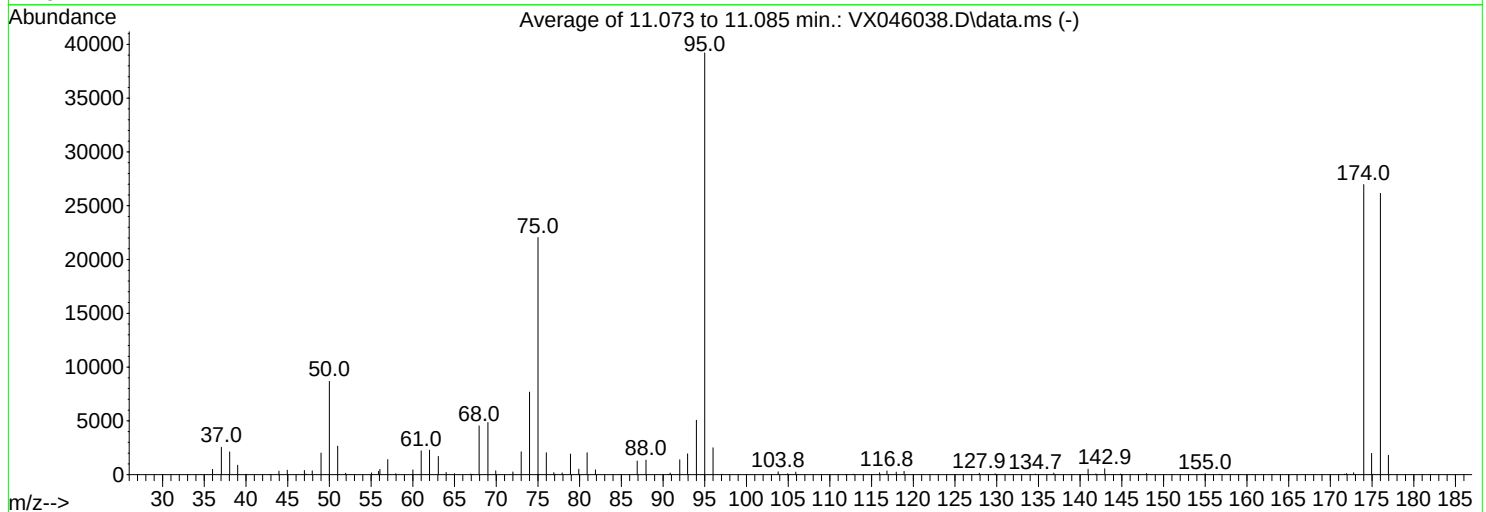
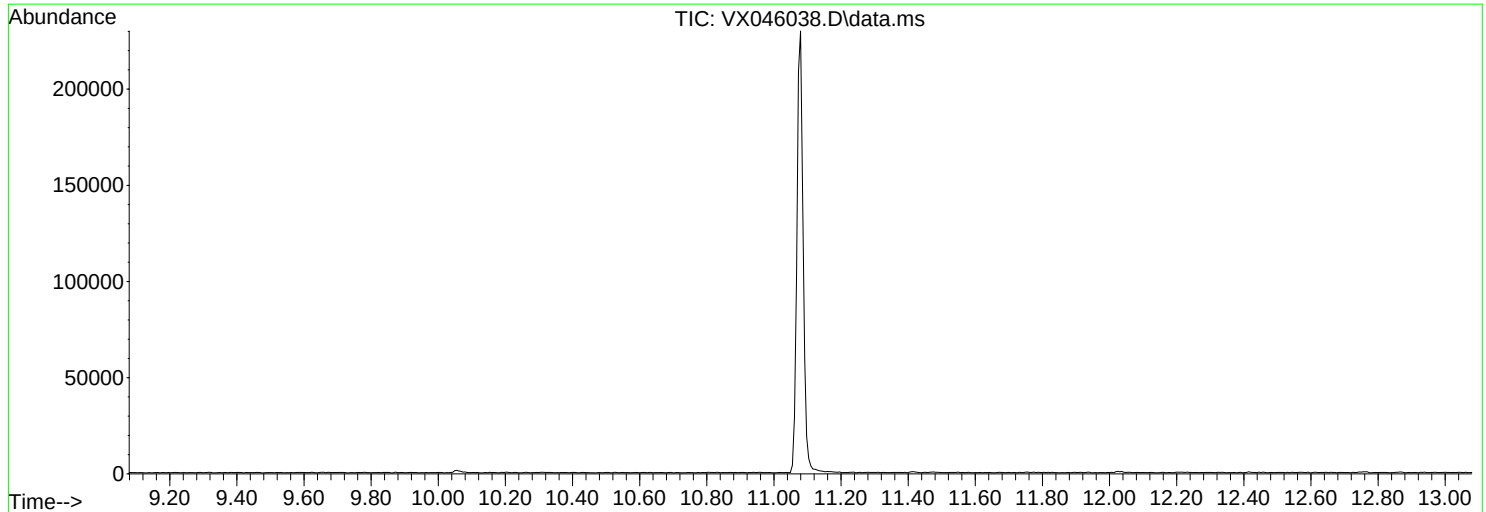
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046038.D
Acq On : 05 May 2025 09:37
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

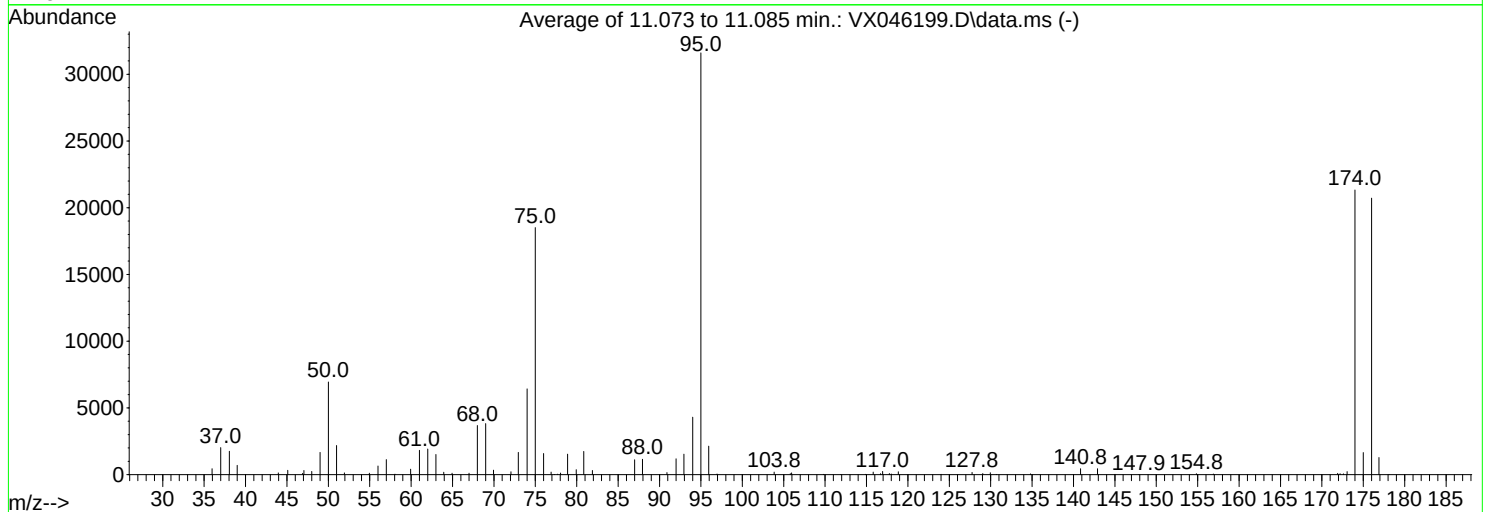
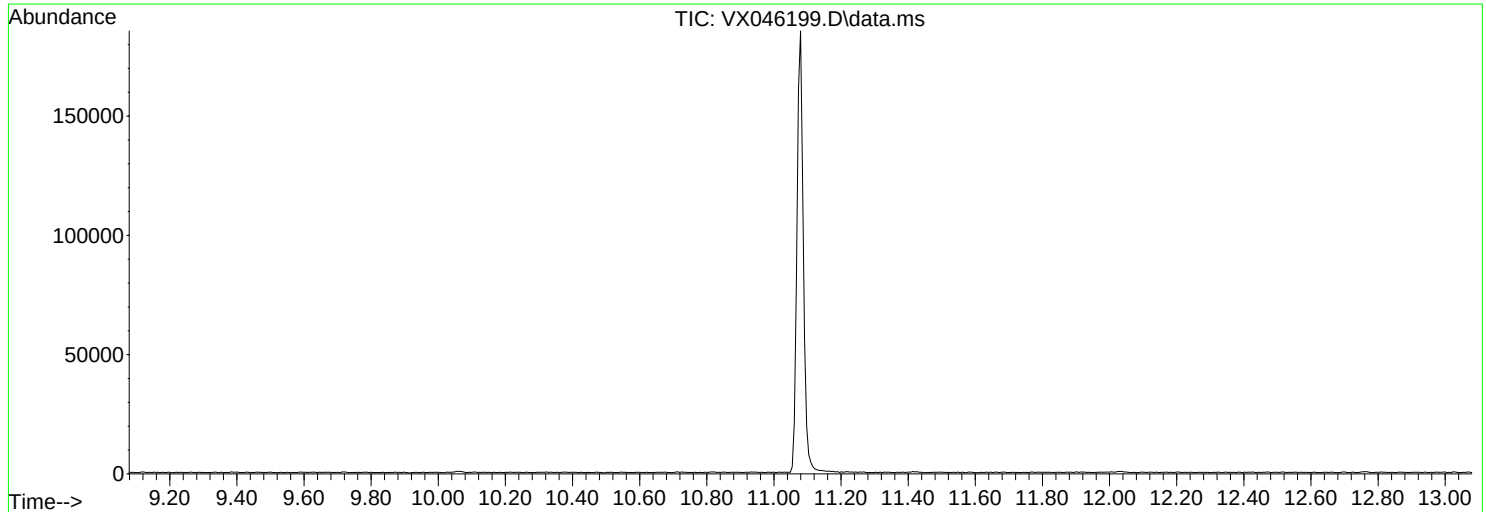
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	8676	PASS
75	95	30	60	56.2	22052	PASS
95	95	100	100	100.0	39213	PASS
96	95	5	9	6.4	2505	PASS
173	174	0.00	2	0.7	185	PASS
174	95	50	100	68.8	26963	PASS
175	174	5	9	7.3	1980	PASS
176	174	95	101	97.0	26147	PASS
177	176	5	9	6.9	1802	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046199.D
Acq On : 15 May 2025 08:47
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

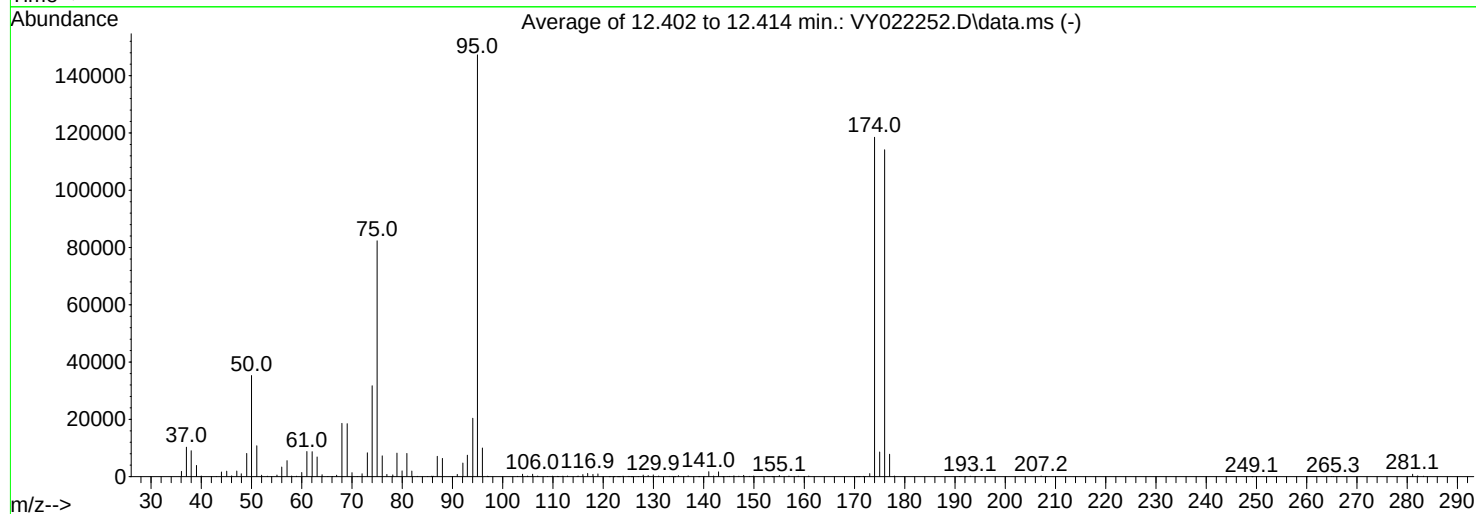
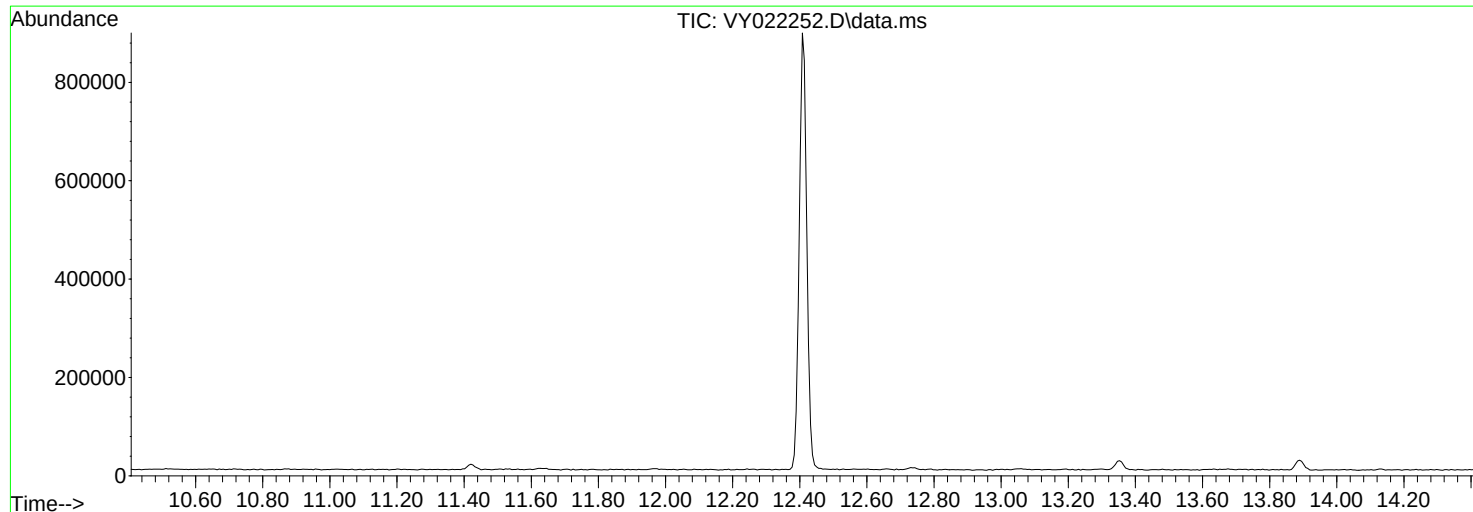
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	6937	PASS
75	95	30	60	58.6	18511	PASS
95	95	100	100	100.0	31605	PASS
96	95	5	9	6.8	2134	PASS
173	174	0.00	2	1.1	225	PASS
174	95	50	100	67.5	21323	PASS
175	174	5	9	7.8	1660	PASS
176	174	95	101	97.2	20720	PASS
177	176	5	9	6.2	1278	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022252.D
Acq On : 15 May 2025 07:52
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

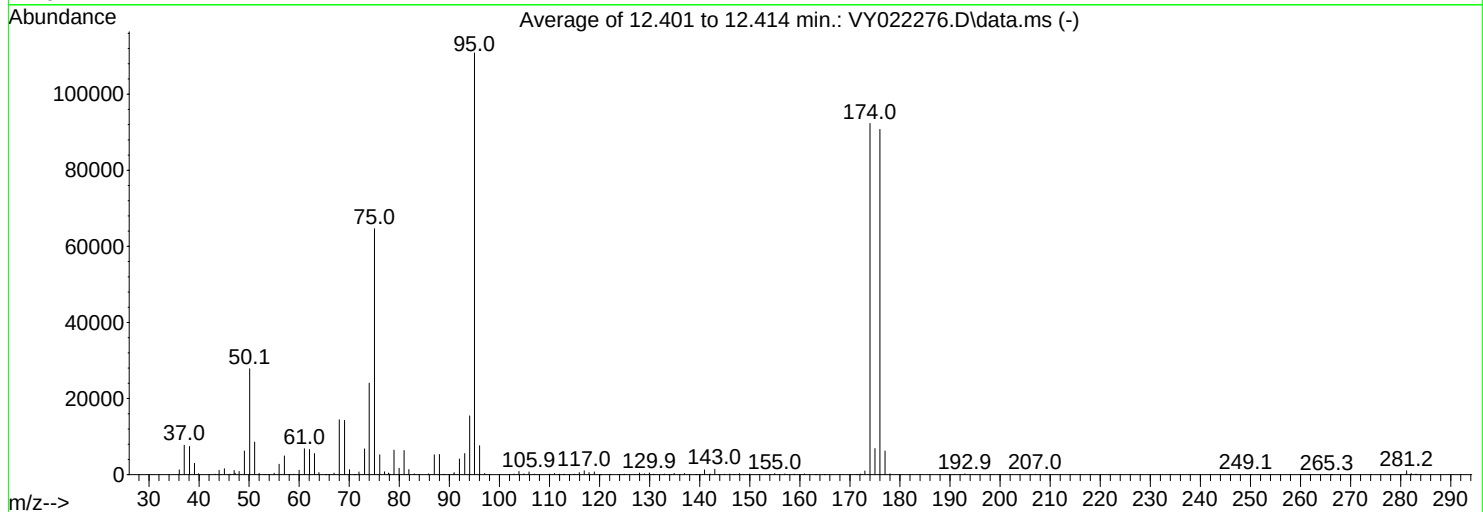
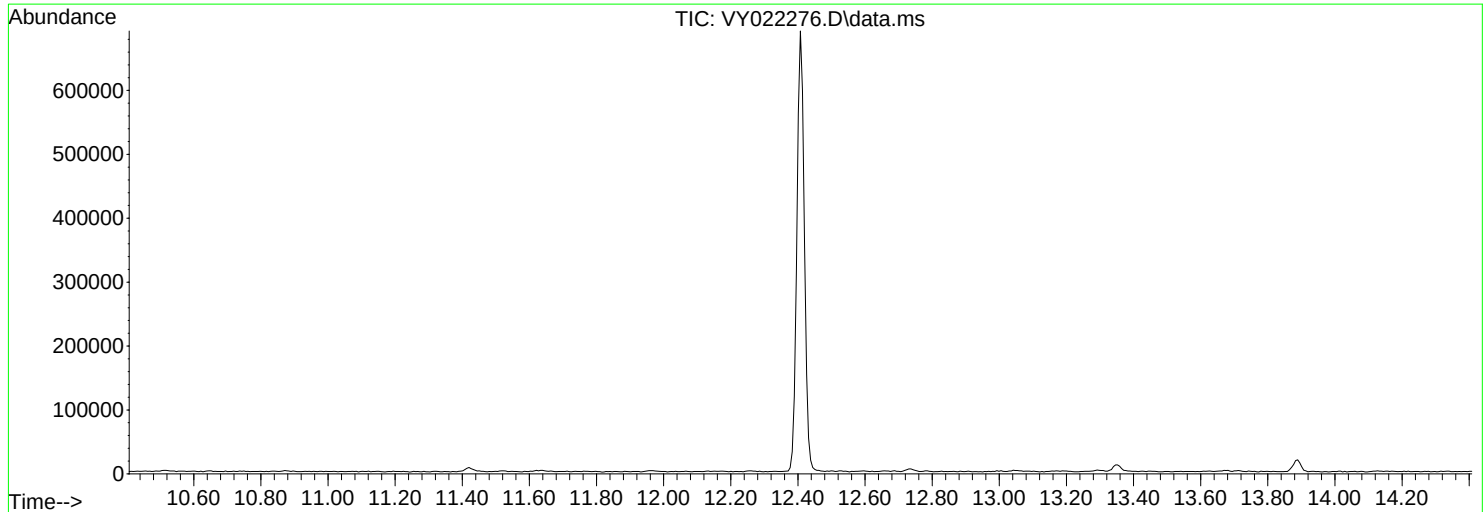
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	24.0	35318	PASS
75	95	30	60	55.9	82344	PASS
95	95	100	100	100.0	147275	PASS
96	95	5	9	6.8	9993	PASS
173	174	0.00	2	0.9	1042	PASS
174	95	50	100	80.5	118504	PASS
175	174	5	9	7.3	8635	PASS
176	174	95	101	96.3	114157	PASS
177	176	5	9	6.8	7810	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022276.D
Acq On : 16 May 2025 07:54
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

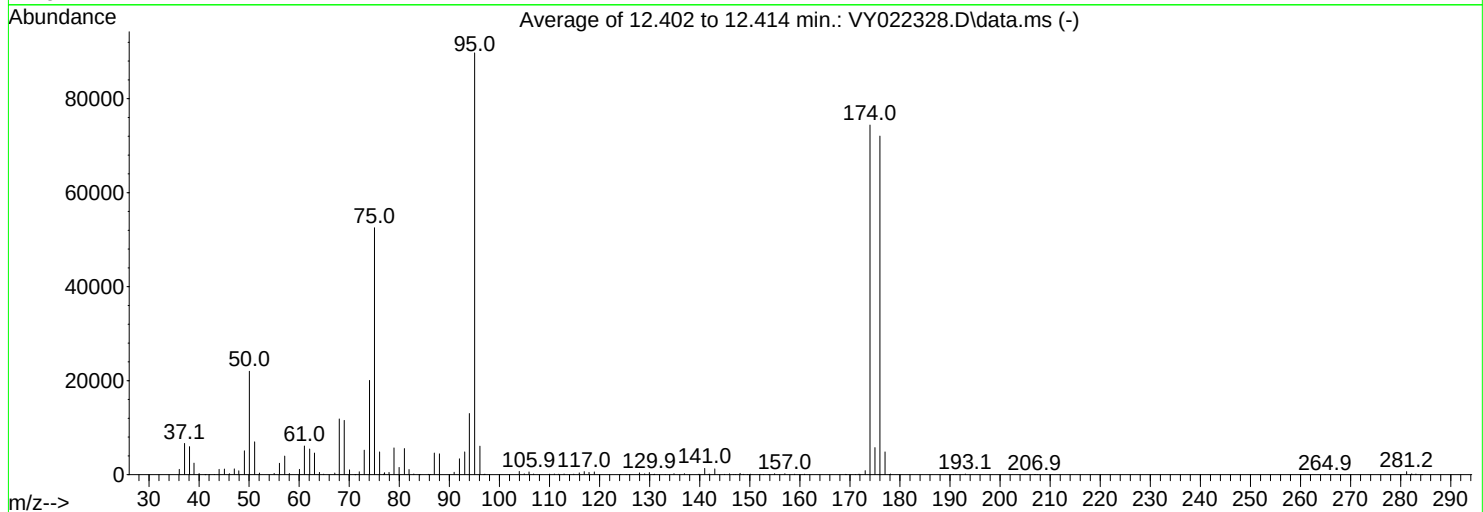
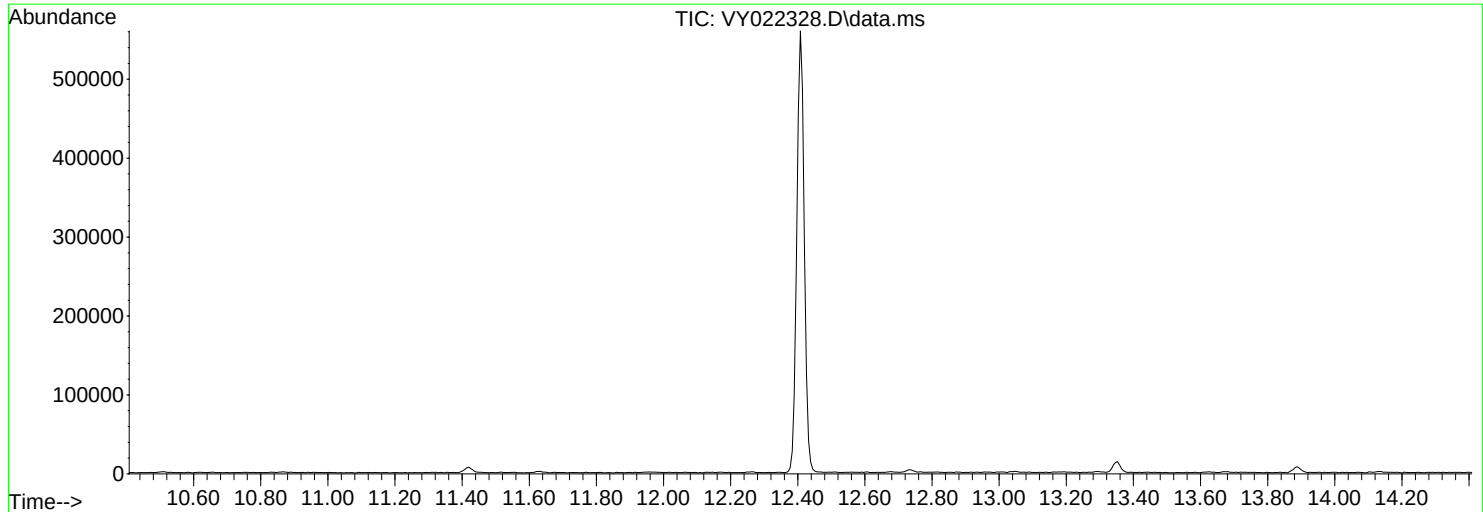
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.1	27835	PASS
75	95	30	60	58.3	64637	PASS
95	95	100	100	100.0	110867	PASS
96	95	5	9	6.9	7634	PASS
173	174	0.00	2	1.0	962	PASS
174	95	50	100	83.3	92307	PASS
175	174	5	9	7.4	6838	PASS
176	174	95	101	98.3	90747	PASS
177	176	5	9	6.9	6231	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022328.D
Acq On : 20 May 2025 08:09
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	21987	PASS
75	95	30	60	58.5	52528	PASS
95	95	100	100	100.0	89755	PASS
96	95	5	9	6.7	6051	PASS
173	174	0.00	2	1.2	859	PASS
174	95	50	100	82.9	74379	PASS
175	174	5	9	7.7	5741	PASS
176	174	95	101	96.8	72035	PASS
177	176	5	9	6.7	4837	PASS

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBL01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086723.D	1		05/21/25 11:44	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	110	U	110	500	ug/Kg
74-87-3	Chloromethane	110	U	110	500	ug/Kg
75-01-4	Vinyl Chloride	79.0	U	79.0	500	ug/Kg
74-83-9	Bromomethane	110	U	110	500	ug/Kg
75-00-3	Chloroethane	130	U	130	500	ug/Kg
75-69-4	Trichlorofluoromethane	120	U	120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U	110	500	ug/Kg
75-35-4	1,1-Dichloroethene	100	U	100	500	ug/Kg
67-64-1	Acetone	470	U	470	2500	ug/Kg
75-15-0	Carbon Disulfide	110	U	110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	73.0	U	73.0	500	ug/Kg
79-20-9	Methyl Acetate	150	U	150	500	ug/Kg
75-09-2	Methylene Chloride	350	U	350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	86.0	U	86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	80.0	U	80.0	500	ug/Kg
110-82-7	Cyclohexane	79.0	U	79.0	500	ug/Kg
78-93-3	2-Butanone	650	U	650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	97.0	U	97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	75.0	U	75.0	500	ug/Kg
74-97-5	Bromochloromethane	120	U	120	500	ug/Kg
67-66-3	Chloroform	84.0	U	84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	93.0	U	93.0	500	ug/Kg
108-87-2	Methylcyclohexane	91.0	U	91.0	500	ug/Kg
71-43-2	Benzene	79.0	U	79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	79.0	U	79.0	500	ug/Kg
79-01-6	Trichloroethene	81.0	U	81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	91.0	U	91.0	500	ug/Kg
75-27-4	Bromodichloromethane	78.0	U	78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	360	U	360	2500	ug/Kg
108-88-3	Toluene	78.0	U	78.0	500	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBL01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086723.D	1		05/21/25 11:44	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	65.0	U	65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	62.0	U	62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	92.0	U	92.0	500	ug/Kg
591-78-6	2-Hexanone	370	U	370	2500	ug/Kg
124-48-1	Dibromochloromethane	87.0	U	87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	88.0	U	88.0	500	ug/Kg
127-18-4	Tetrachloroethene	110	U	110	500	ug/Kg
108-90-7	Chlorobenzene	91.0	U	91.0	500	ug/Kg
100-41-4	Ethyl Benzene	67.0	U	67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	120	U	120	1000	ug/Kg
95-47-6	o-Xylene	82.0	U	82.0	500	ug/Kg
100-42-5	Styrene	71.0	U	71.0	500	ug/Kg
75-25-2	Bromoform	86.0	U	86.0	500	ug/Kg
98-82-8	Isopropylbenzene	78.0	U	78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	120	U	120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	170	U	170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	160	U	160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	150	U	150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	180	U	180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	300	U	300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	320	U	320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		63 - 155	105%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 - 134	106%	SPK: 50
2037-26-5	Toluene-d8	52.0		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		38 - 136	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	8.224			
540-36-3	1,4-Difluorobenzene	315000	9.1			
3114-55-4	Chlorobenzene-d5	298000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.788			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBL01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086723.D	1		05/21/25 11:44	VN052125

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_N\Data\VN052125\
 Data File : VN086723.D
 Acq On : 21 May 2025 11:44
 Operator : JC\MD
 Sample : VN0521MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBL01

Quant Time: May 22 01:19:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	158233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	315437	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126400	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114876	52.539	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.080%
35) Dibromofluoromethane	8.165	113	99727	53.087	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.180%
50) Toluene-d8	10.565	98	404936	52.016	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.040%
62) 4-Bromofluorobenzene	12.847	95	141014	51.300	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.600%

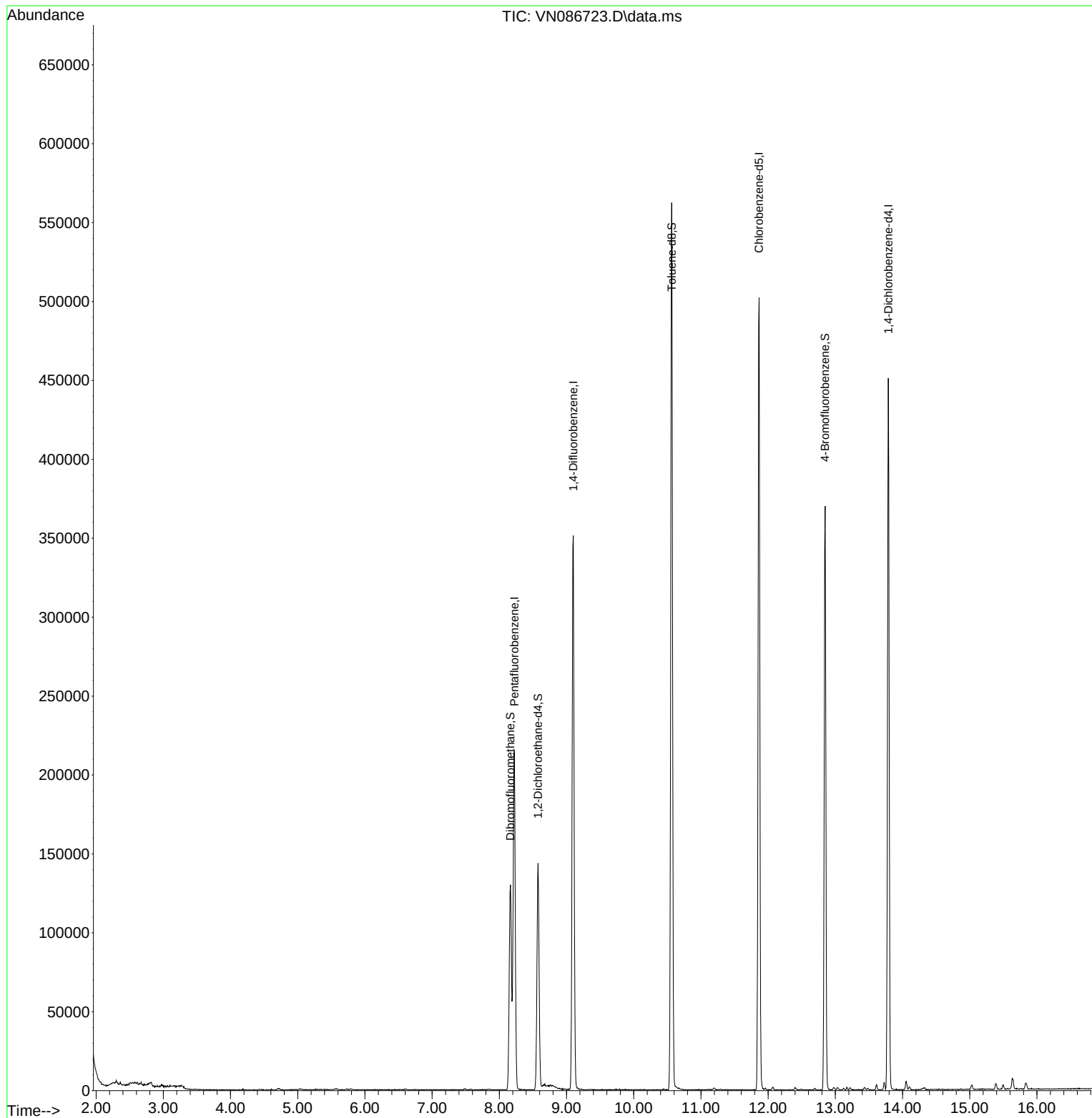
Target Compounds	Qvalue

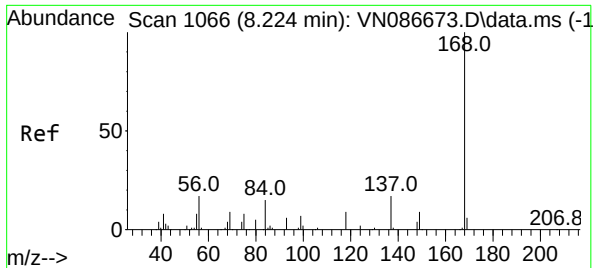
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086723.D
Acq On : 21 May 2025 11:44
Operator : JC\MD
Sample : VN0521MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

Quant Time: May 22 01:19:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086723.D

Acq: 21 May 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

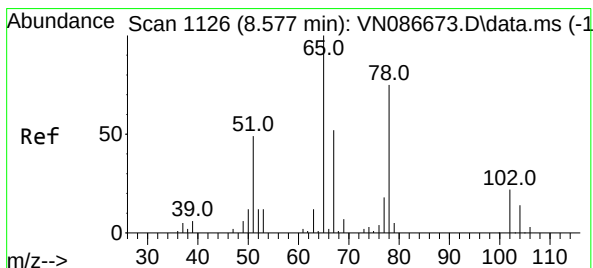
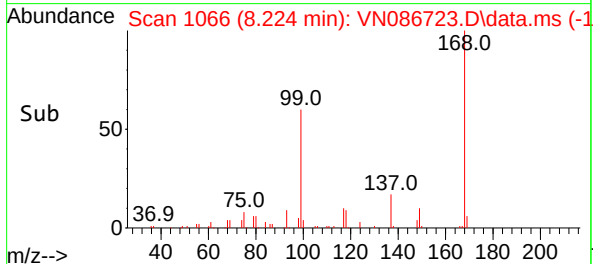
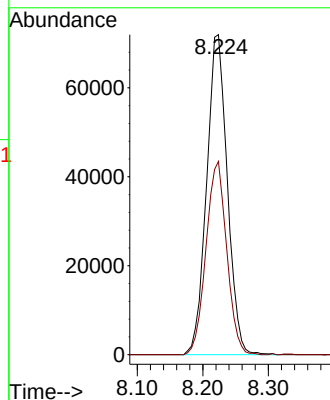
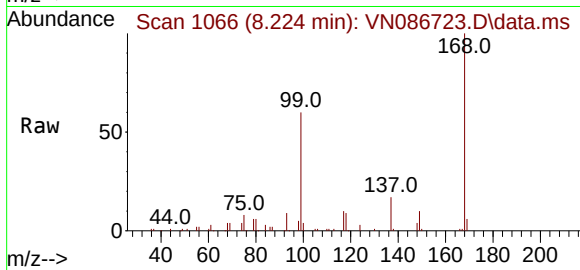
VN0521MBL01

Tgt Ion:168 Resp: 158233

Ion Ratio Lower Upper

168 100

99 60.4 47.0 70.4



#33

1,2-Dichloroethane-d4

Concen: 52.539 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086723.D

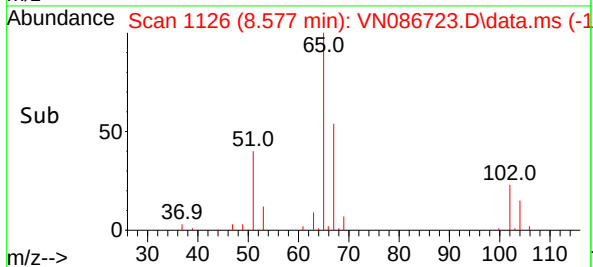
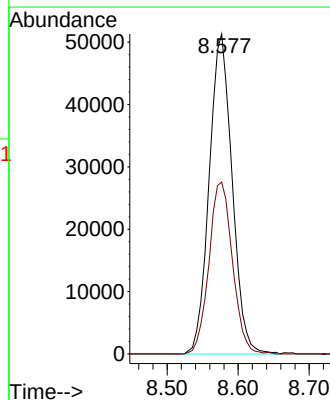
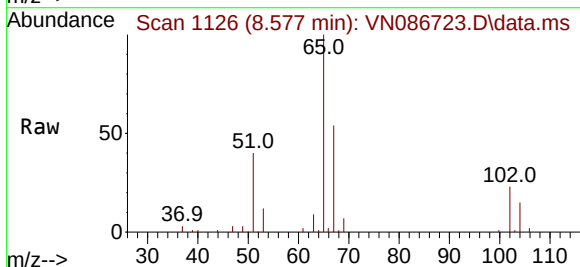
Acq: 21 May 2025 11:44

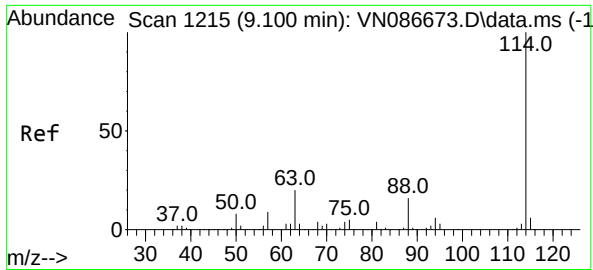
Tgt Ion: 65 Resp: 114876

Ion Ratio Lower Upper

65 100

67 55.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086723.D

Acq: 21 May 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0521MBL01

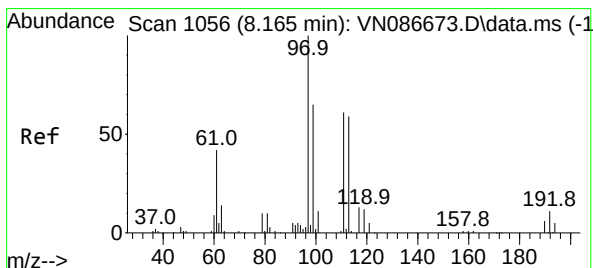
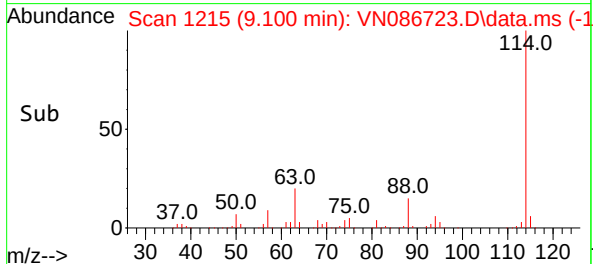
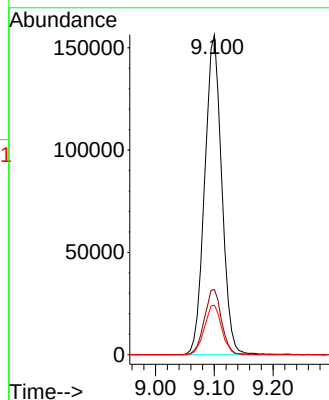
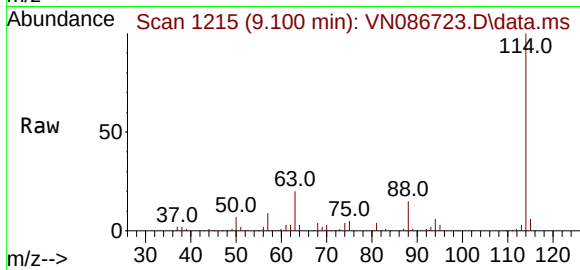
Tgt Ion:114 Resp: 315437

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

88 15.5 0.0 31.2



#35

Dibromofluoromethane

Concen: 53.087 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086723.D

Acq: 21 May 2025 11:44

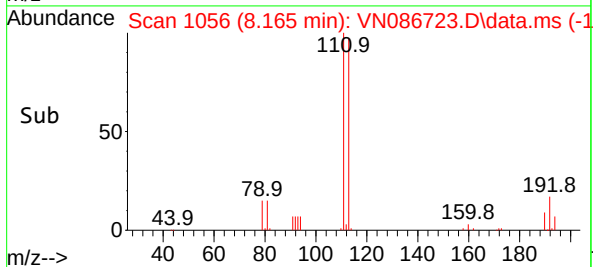
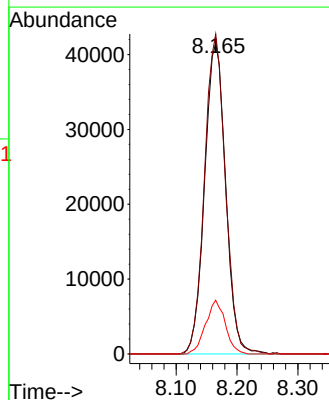
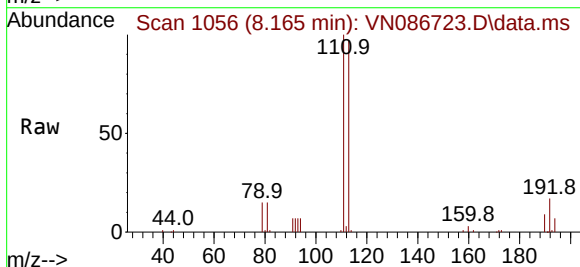
Tgt Ion:113 Resp: 99727

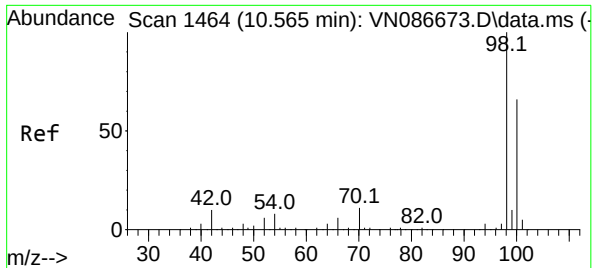
Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.2

192 16.2 13.8 20.8

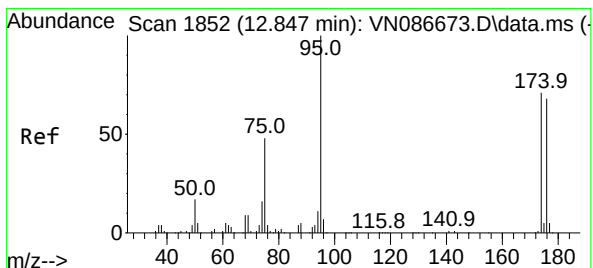
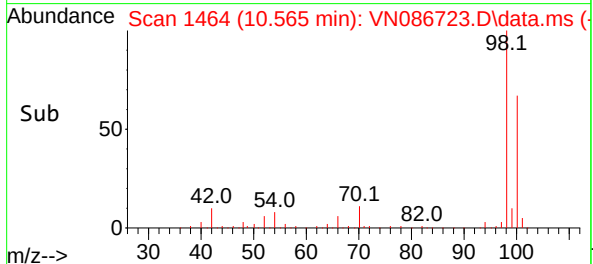
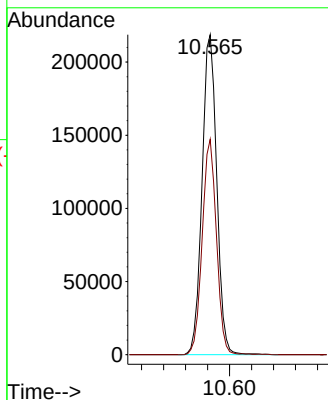
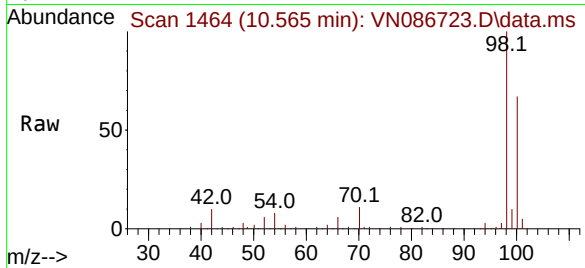




#50
Toluene-d8
Concen: 52.016 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086723.D
Acq: 21 May 2025 11:44

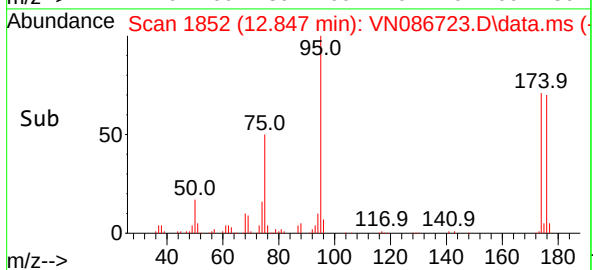
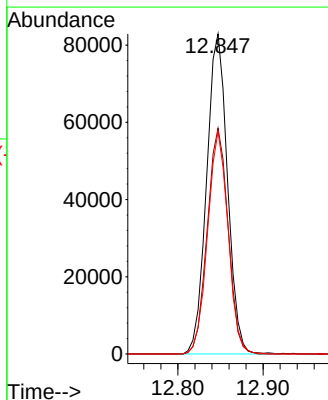
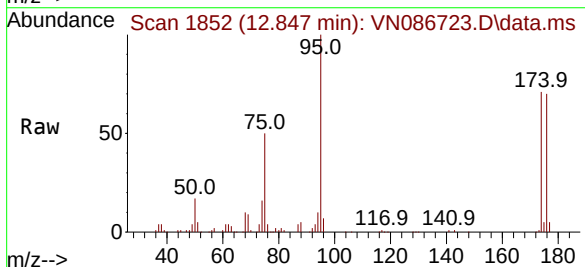
Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

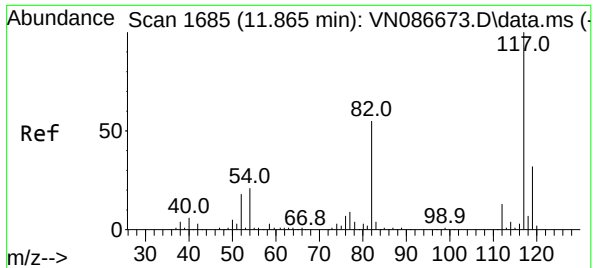
Tgt Ion: 98 Resp: 404936
Ion Ratio Lower Upper
98 100
100 65.3 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 51.300 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086723.D
Acq: 21 May 2025 11:44

Tgt Ion: 95 Resp: 141014
Ion Ratio Lower Upper
95 100
174 70.4 0.0 145.4
176 68.0 0.0 137.8

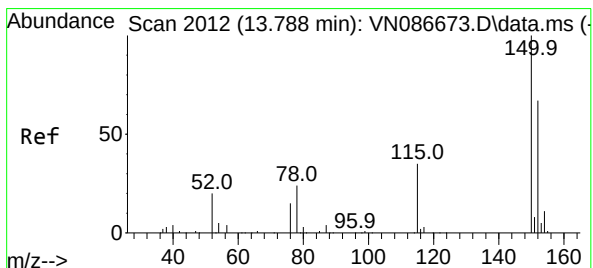
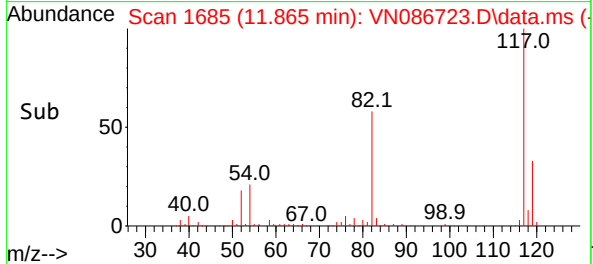
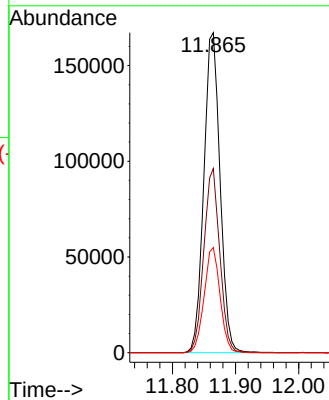
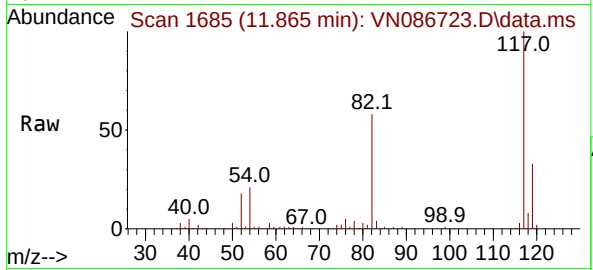




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086723.D
Acq: 21 May 2025 11:44

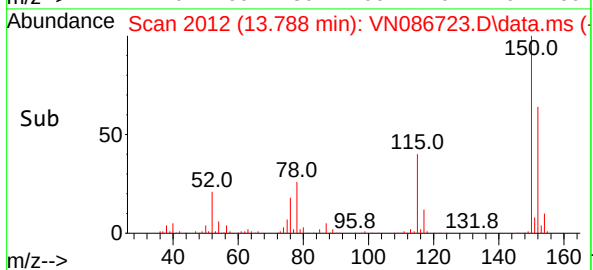
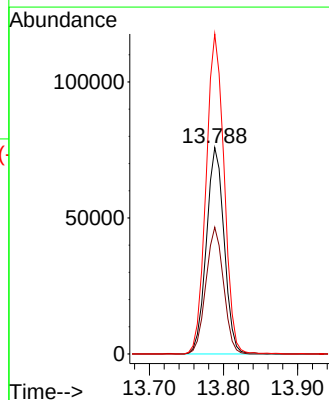
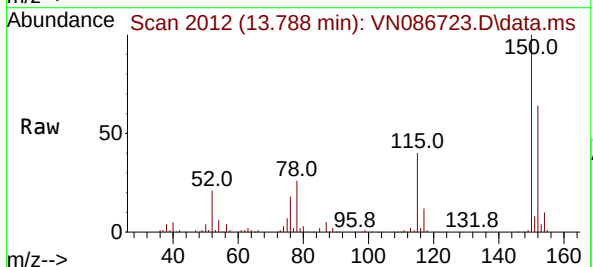
Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

Tgt Ion:117 Resp: 297842
Ion Ratio Lower Upper
117 100
82 57.5 44.2 66.2
119 32.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086723.D
Acq: 21 May 2025 11:44

Tgt Ion:152 Resp: 126400
Ion Ratio Lower Upper
152 100
115 61.0 30.0 90.1
150 157.3 0.0 347.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086723.D
Acq On : 21 May 2025 11:44
Operator : JC\MD
Sample : VN0521MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

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_N\methods\82N051625W.M

Title : SW846 8260

Signal : TIC: VN086723.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1046	1056	1060	rBV	129904	303702	29.32%	5.912%
2	8.224	1060	1066	1079	rVB	214924	476220	45.97%	9.270%
3	8.577	1116	1126	1135	rBV	143521	318850	30.78%	6.207%
4	9.100	1206	1215	1228	rBV	350774	711153	68.65%	13.843%
5	10.565	1455	1464	1480	rBV	562131	1035975	100.00%	20.166%
6	11.865	1677	1685	1698	rBV	502145	891832	86.09%	17.360%
7	12.847	1845	1852	1864	rBV	369791	629567	60.77%	12.255%
8	13.788	2005	2012	2024	rVV	450688	756897	73.06%	14.733%
9	15.635	2319	2326	2333	rBV2	6788	13062	1.26%	0.254%

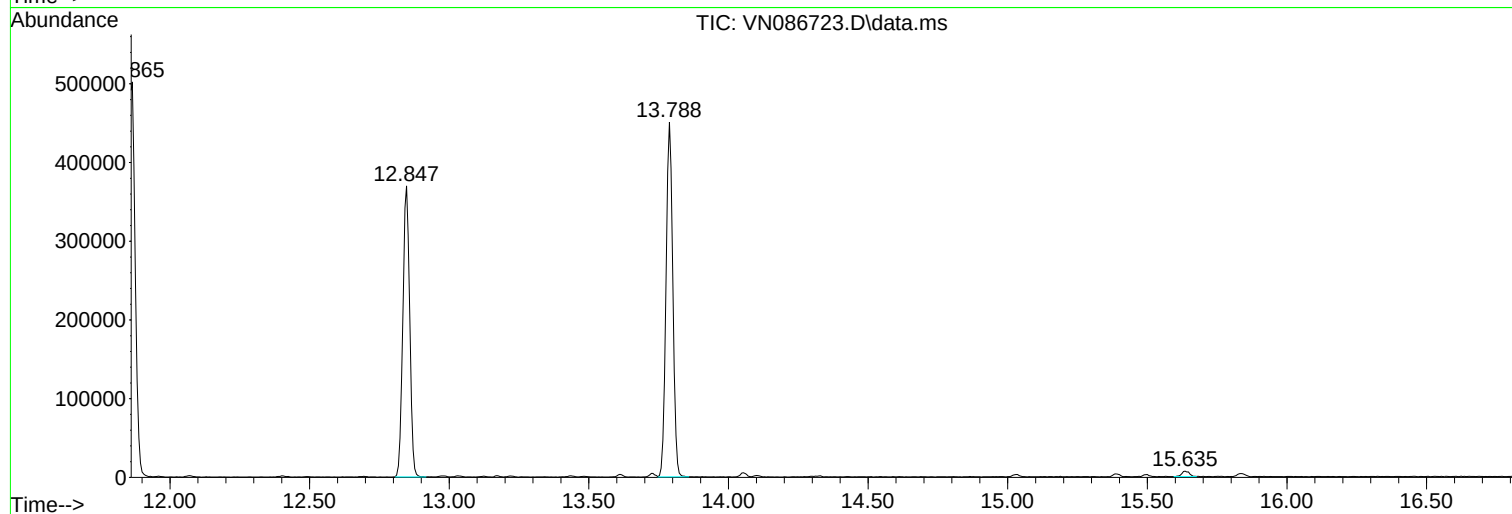
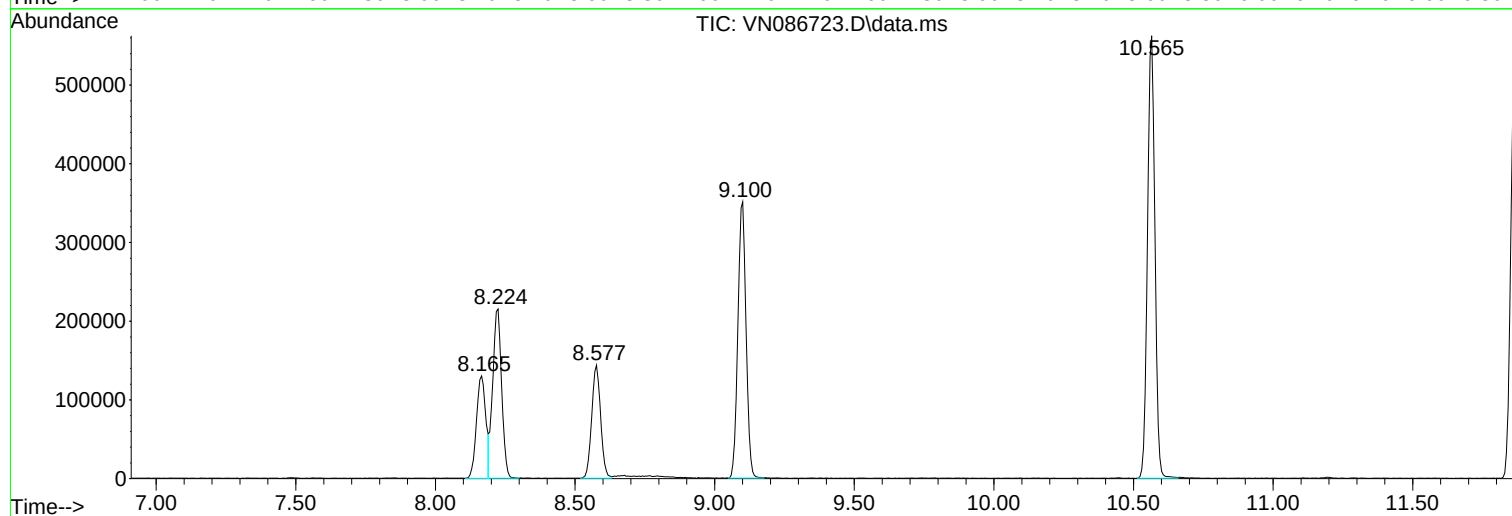
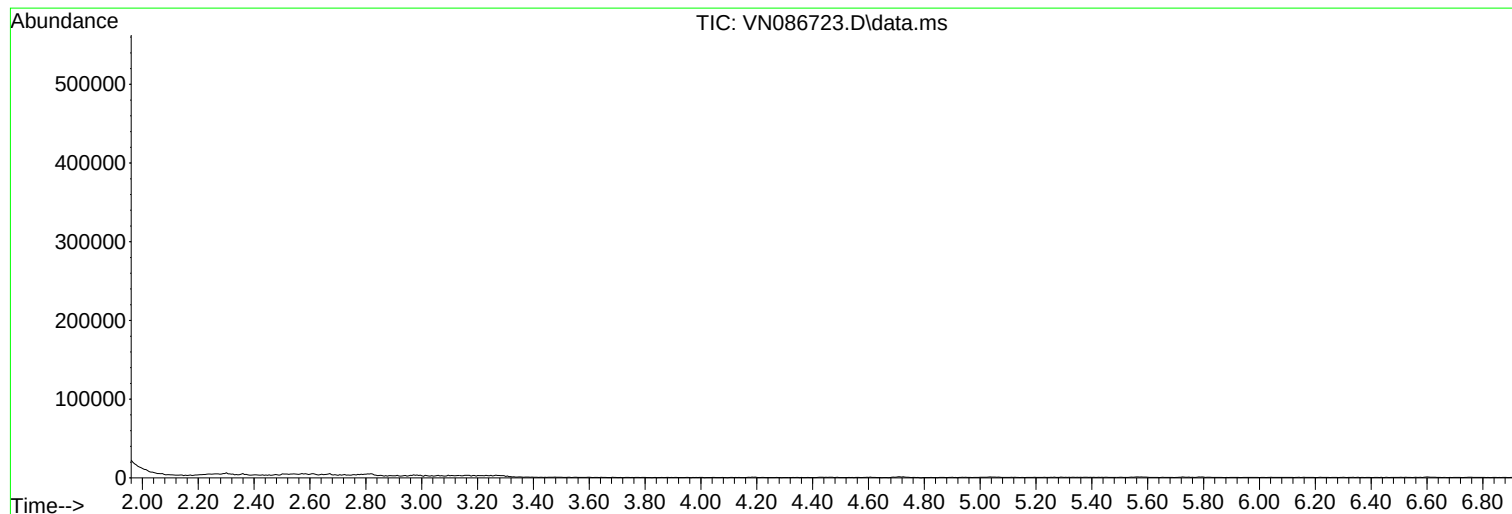
Sum of corrected areas: 5137258

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086723.D
Acq On : 21 May 2025 11:44
Operator : JC\MD
Sample : VN0521MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086723.D
Acq On : 21 May 2025 11:44
Operator : JC\MD
Sample : VN0521MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.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_N\Data\VN052125\
Data File : VN086723.D
Acq On : 21 May 2025 11:44
Operator : JC\MD
Sample : VN0521MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBL01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046202.D	1		05/15/25 10:38	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VX0515WBL01		SDG No.:	Q2032
Lab Sample ID:	VX0515WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046202.D	1		05/15/25 10:38	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65800	5.544			
540-36-3	1,4-Difluorobenzene	131000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51400	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBL01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046202.D	1		05/15/25 10:38	VX051525

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_X\Data\VX051525\
 Data File : VX046202.D
 Acq On : 15 May 2025 10:38
 Operator : JC/MD
 Sample : VX0515WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBL01

Quant Time: May 16 01:01:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	65765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130899	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122283	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51360	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66447	54.195	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.400%
35) Dibromofluoromethane	5.379	113	48539	51.494	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.980%
50) Toluene-d8	8.647	98	163643	50.159	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.320%
62) 4-Bromofluorobenzene	11.079	95	61253	48.946	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.900%

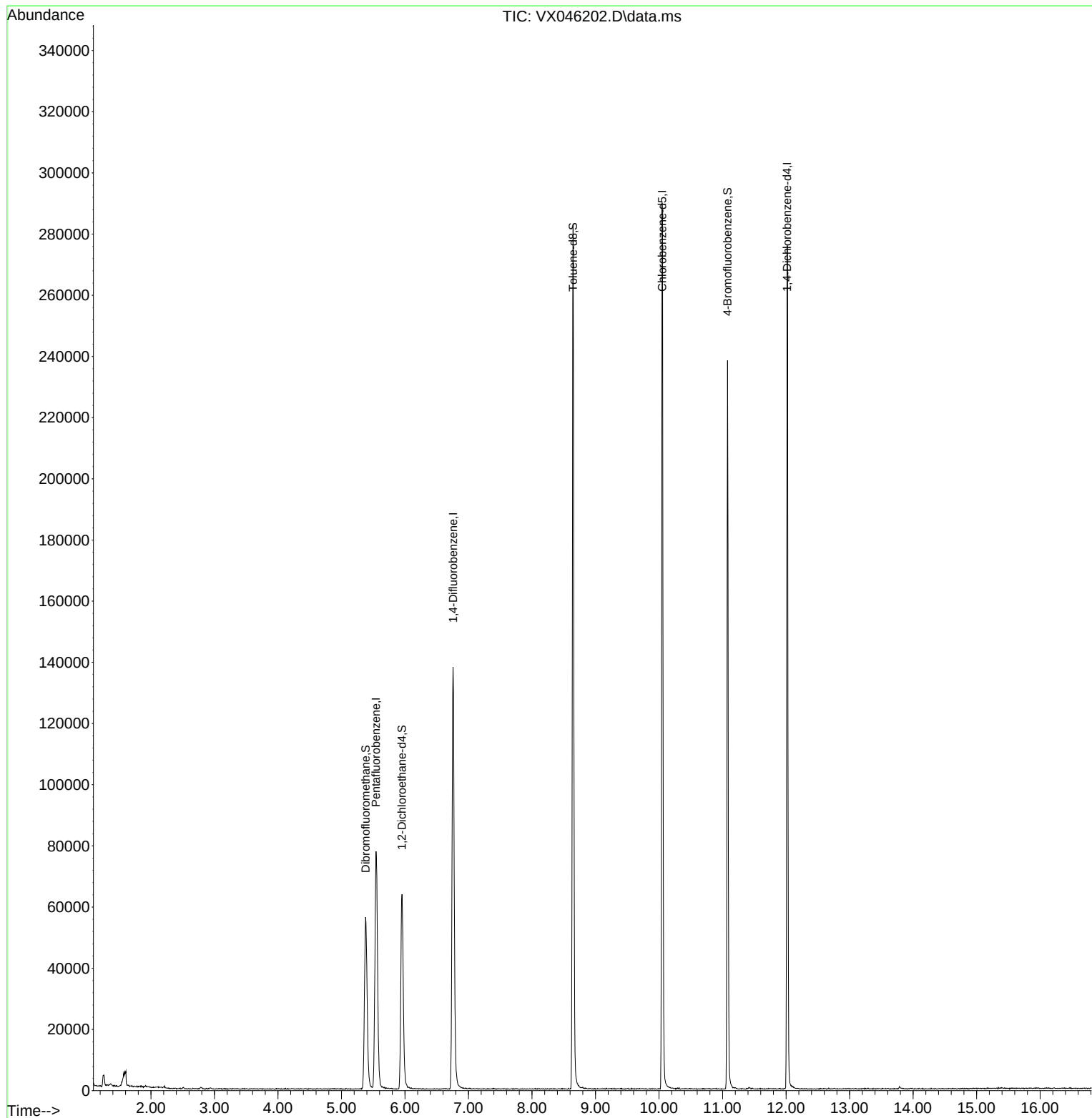
Target Compounds	Qvalue

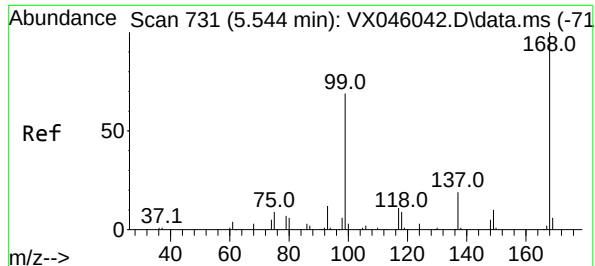
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046202.D
Acq On : 15 May 2025 10:38
Operator : JC/MD
Sample : VX0515WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBL01

Quant Time: May 16 01:01:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

Instrument :

MSVOA_X

ClientSampleId :

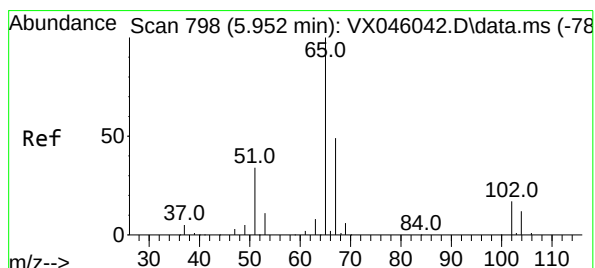
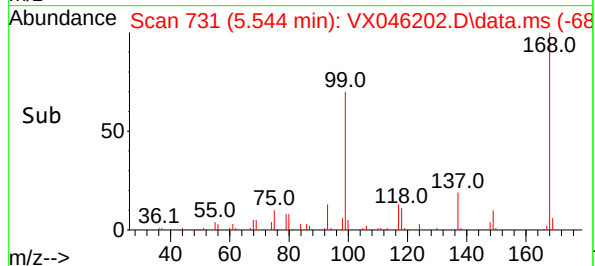
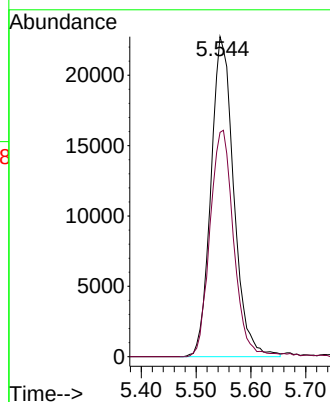
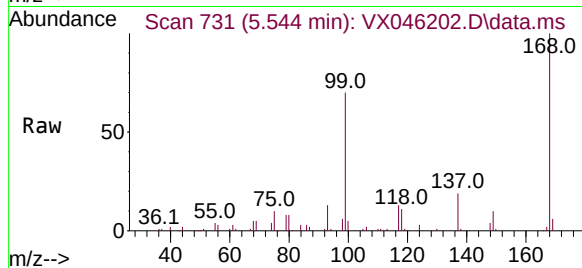
VX0515WBL01

Tgt Ion:168 Resp: 65765

Ion Ratio Lower Upper

168 100

99 70.1 54.9 82.3



#33

1,2-Dichloroethane-d4

Concen: 54.195 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046202.D

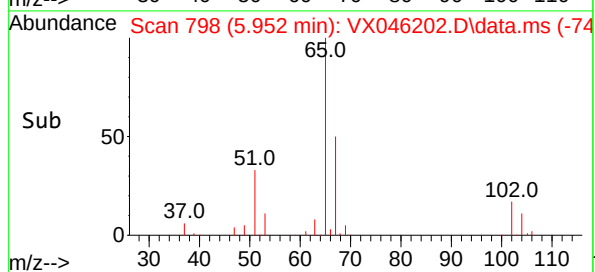
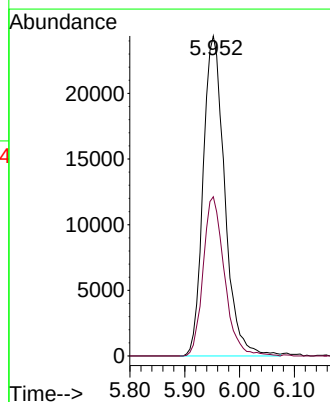
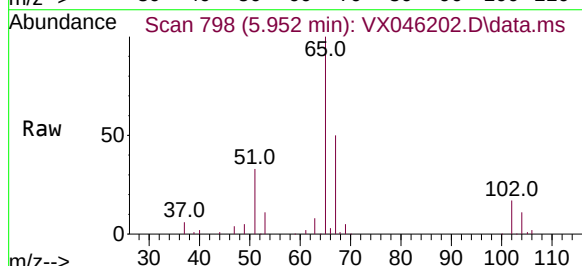
Acq: 15 May 2025 10:38

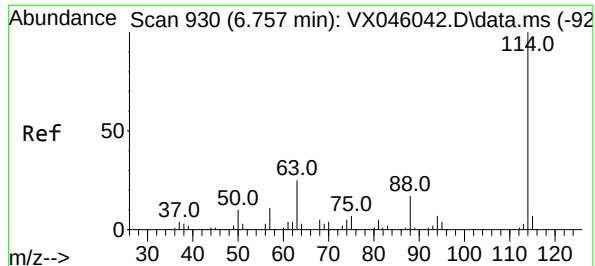
Tgt Ion: 65 Resp: 66447

Ion Ratio Lower Upper

65 100

67 49.2 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

Instrument :

MSVOA_X

ClientSampleId :

VX0515WBL01

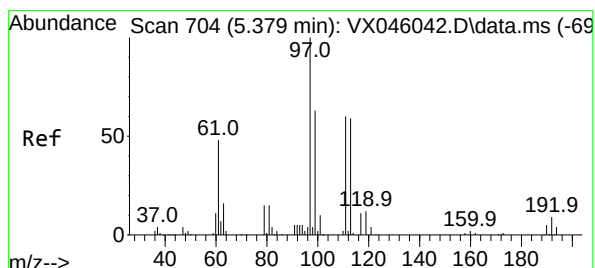
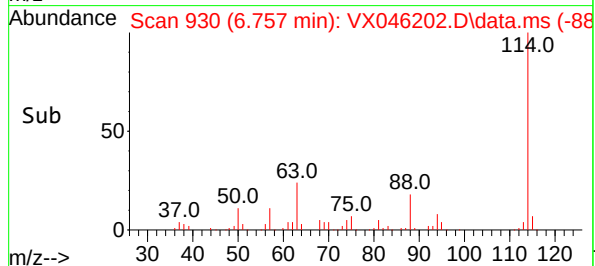
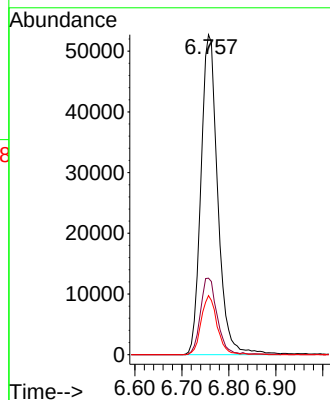
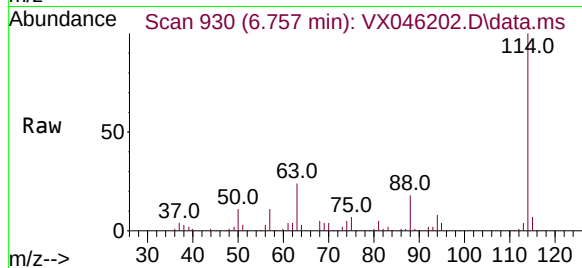
Tgt Ion:114 Resp: 130899

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.2

88 18.5 0.0 33.6



#35

Dibromofluoromethane

Concen: 51.494 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

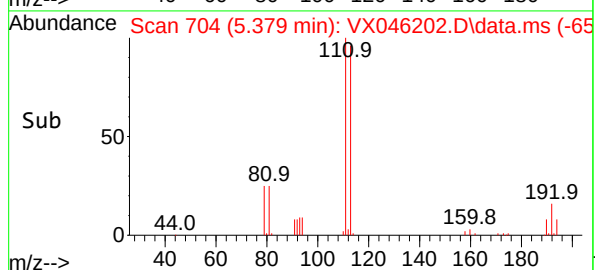
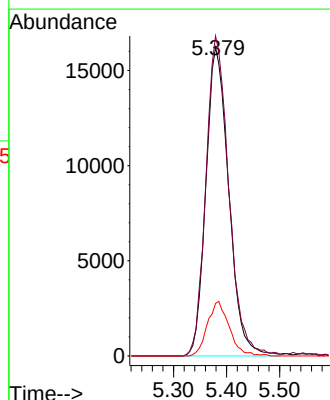
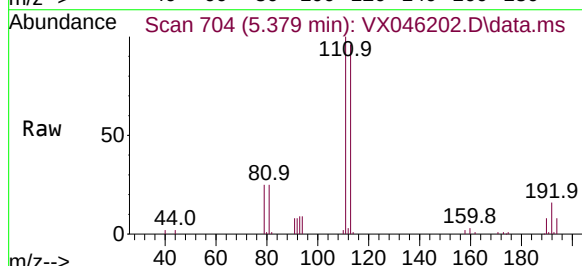
Tgt Ion:113 Resp: 48539

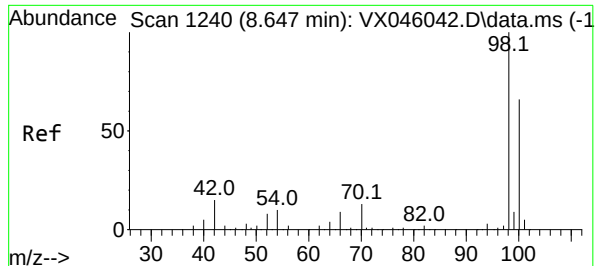
Ion Ratio Lower Upper

113 100

111 103.9 83.1 124.7

192 16.9 13.3 19.9





#50

Toluene-d8

Concen: 50.159 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

Instrument :

MSVOA_X

ClientSampleId :

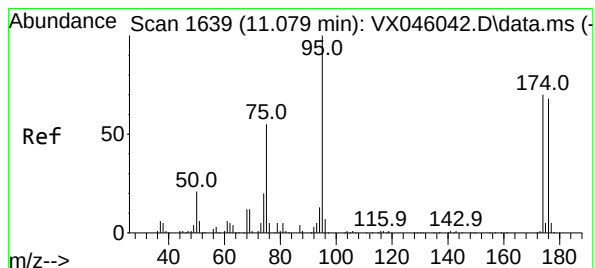
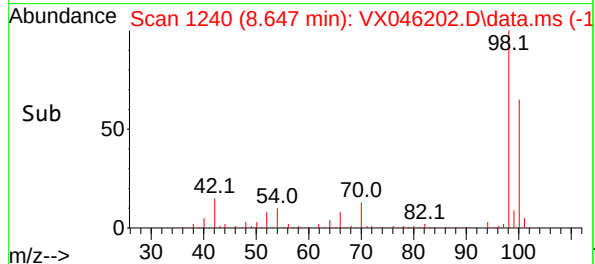
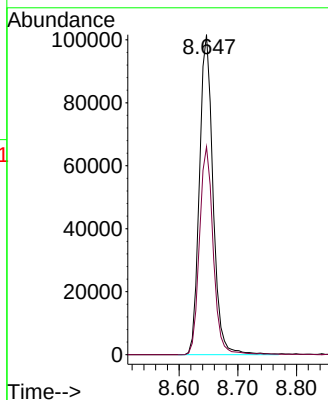
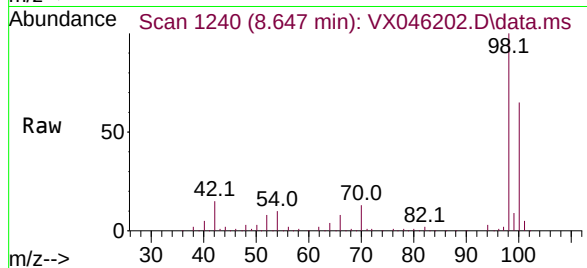
VX0515WBL01

Tgt Ion: 98 Resp: 163643

Ion Ratio Lower Upper

98 100

100 65.8 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 48.946 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

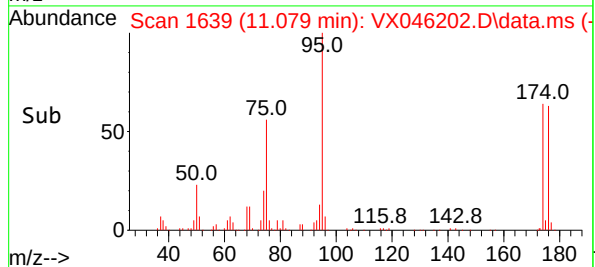
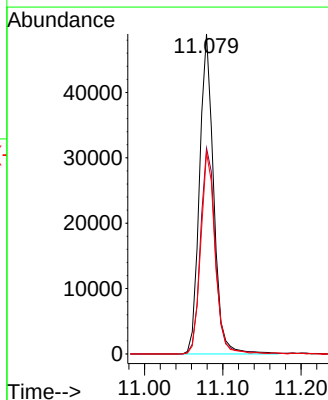
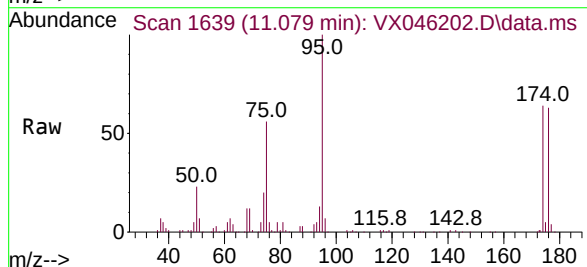
Tgt Ion: 95 Resp: 61253

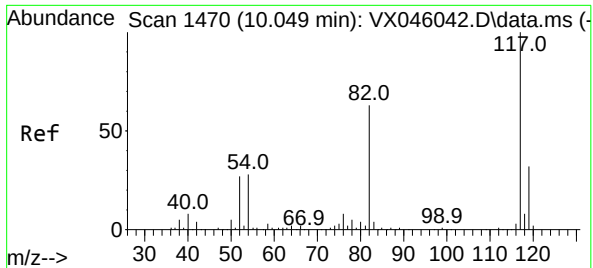
Ion Ratio Lower Upper

95 100

174 67.4 0.0 135.8

176 64.1 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

Instrument :

MSVOA_X

ClientSampleId :

VX0515WBL01

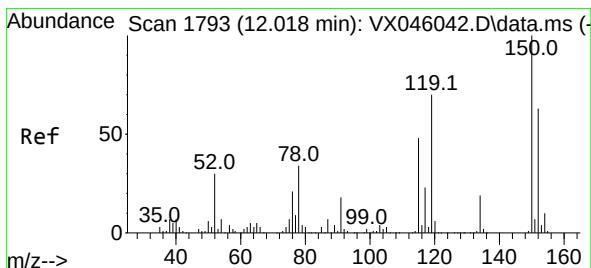
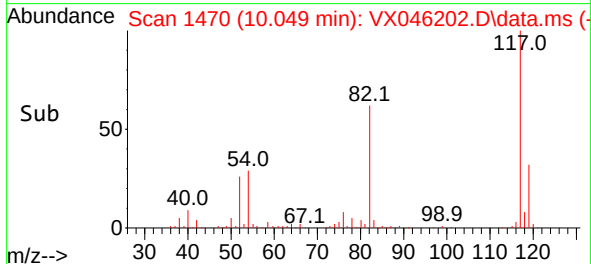
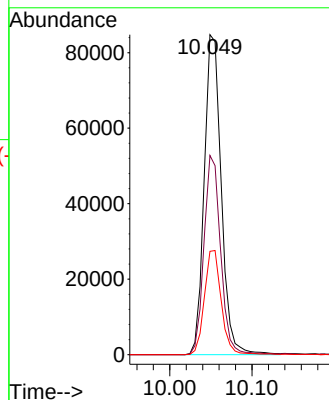
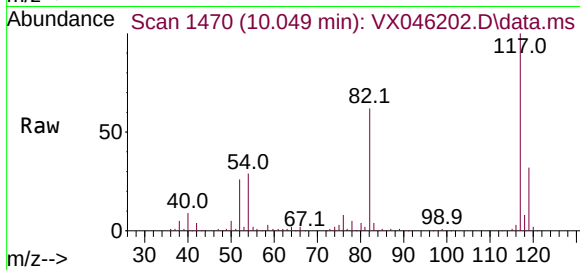
Tgt Ion:117 Resp: 122283

Ion Ratio Lower Upper

117 100

82 62.2 50.6 76.0

119 32.3 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046202.D

Acq: 15 May 2025 10:38

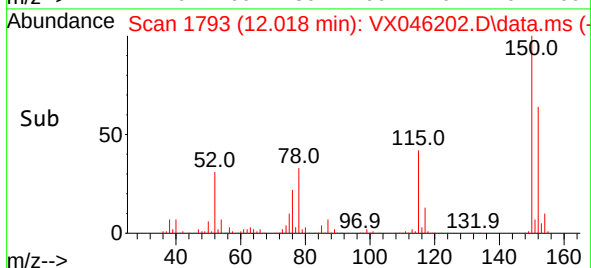
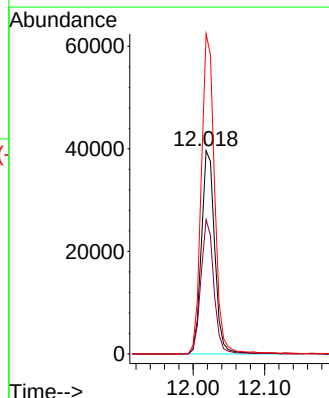
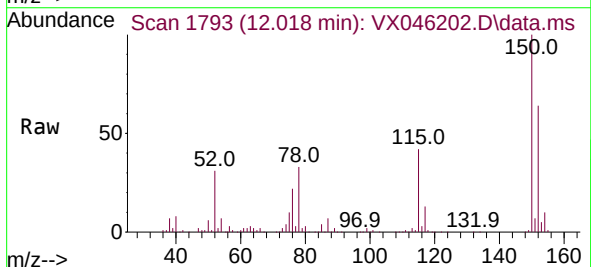
Tgt Ion:152 Resp: 51360

Ion Ratio Lower Upper

152 100

115 64.0 46.9 140.7

150 156.8 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046202.D
Acq On : 15 May 2025 10:38
Operator : JC/MD
Sample : VX0515WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBL01

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_X\Method\82X050525W.M

Title : SW846 8260

Signal : TIC: VX046202.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	22	28	32	rBV3	3887	7826	1.71%	0.322%
2	1.605	72	85	88	rBV6	4606	14421	3.16%	0.593%
3	5.379	694	704	721	rBV	56197	167022	36.56%	6.864%
4	5.544	722	731	746	rVB2	77181	220814	48.34%	9.074%
5	5.952	789	798	812	rBV	63570	172497	37.76%	7.089%
6	6.757	921	930	948	rBV	137969	334499	73.22%	13.746%
7	8.647	1234	1240	1253	rBV	282551	456813	100.00%	18.772%
8	10.049	1465	1470	1484	rBV	289741	413059	90.42%	16.974%
9	11.079	1634	1639	1652	rBV	238040	301740	66.05%	12.400%
10	12.018	1788	1793	1803	rBV	275656	344769	75.47%	14.168%

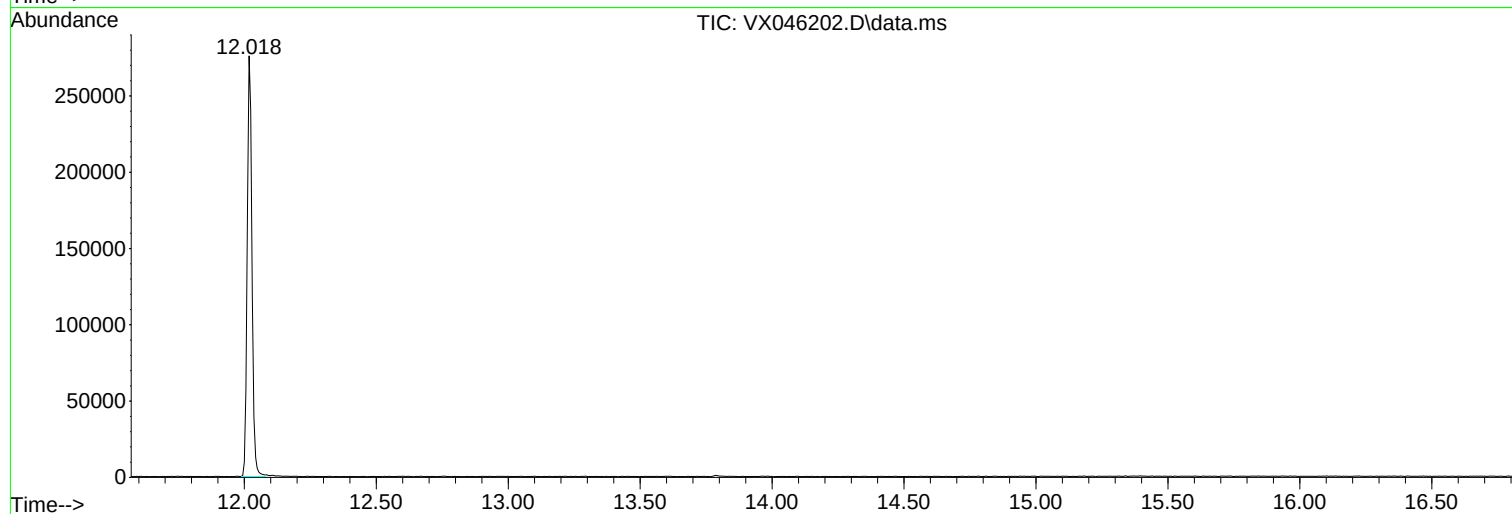
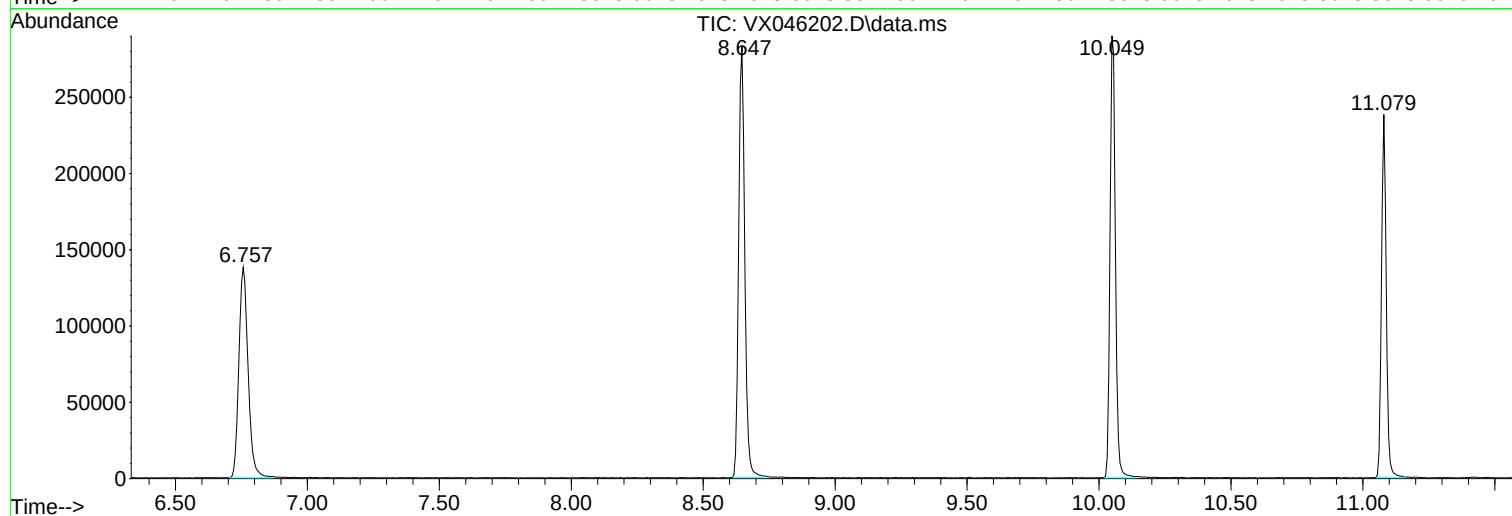
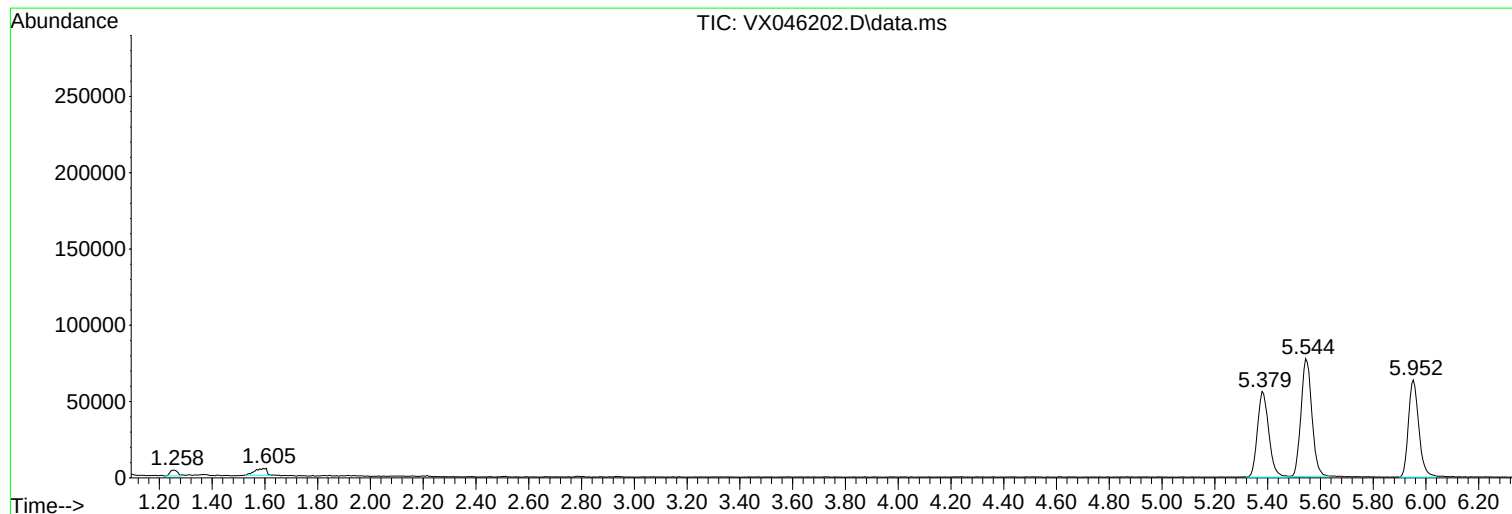
Sum of corrected areas: 2433460

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046202.D
Acq On : 15 May 2025 10:38
Operator : JC/MD
Sample : VX0515WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046202.D
Acq On : 15 May 2025 10:38
Operator : JC/MD
Sample : VX0515WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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_X\Data\VX051525\
Data File : VX046202.D
Acq On : 15 May 2025 10:38
Operator : JC/MD
Sample : VX0515WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBL01	SDG No.:	Q2032
Lab Sample ID:	VY0516SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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:	VY0516SBL01		SDG No.:	Q2032
Lab Sample ID:	VY0516SBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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	43.9		63 - 155	88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		38 - 136	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	314000	7.707			
540-36-3	1,4-Difluorobenzene	556000	8.616			
3114-55-4	Chlorobenzene-d5	426000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347			



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:	VY0516SBL01	SDG No.:	Q2032
Lab Sample ID:	VY0516SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022278.D	1		05/16/25 09:37	VY051625

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_Y\Data\VY051625\
 Data File : VY022278.D
 Acq On : 16 May 2025 09:37
 Operator : SY/MD
 Sample : VY0516SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0516SBL01

Quant Time: May 17 01:27:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	314347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	555500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	426459	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	151389	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150831	43.903	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	87.800%
35) Dibromofluoromethane	7.634	113	158963	47.945	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.880%
50) Toluene-d8	10.109	98	662270	48.771	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.540%
62) 4-Bromofluorobenzene	12.408	95	208685	48.485	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	96.980%

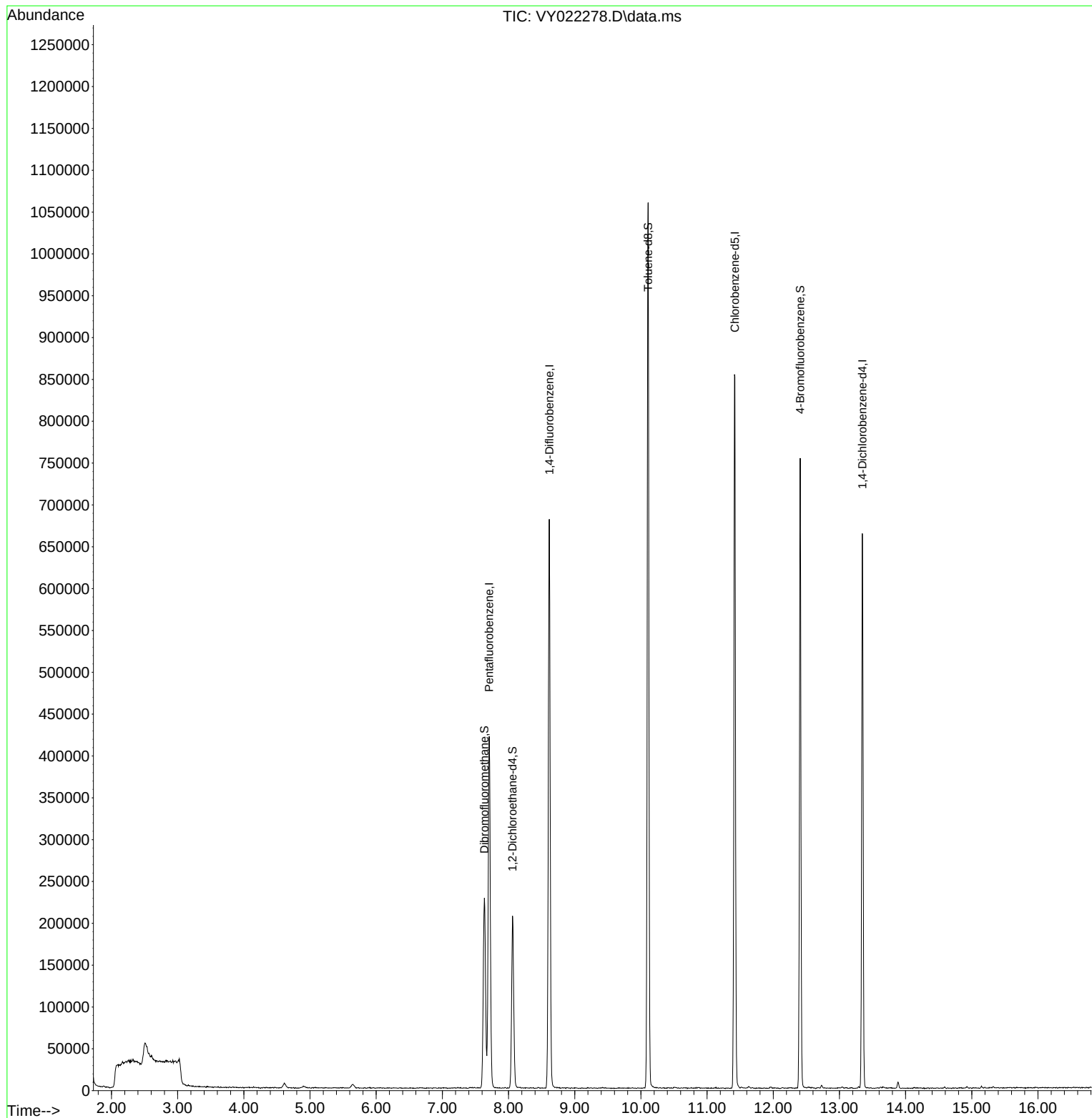
Target Compounds	Qvalue

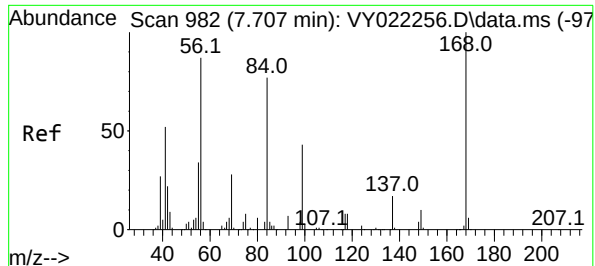
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Time: May 17 01:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

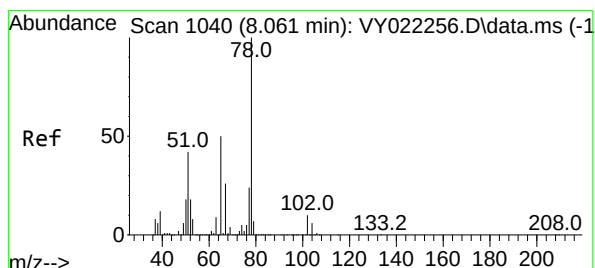
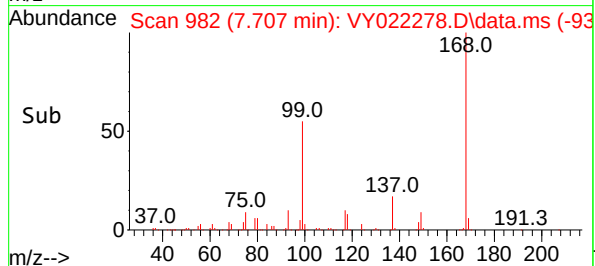
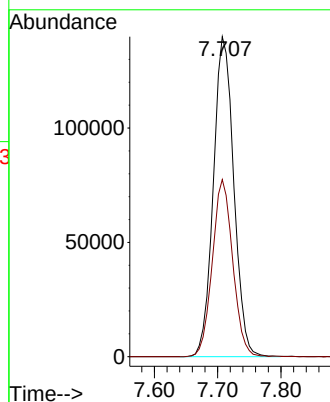
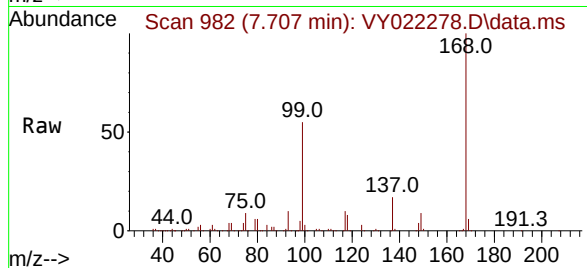




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

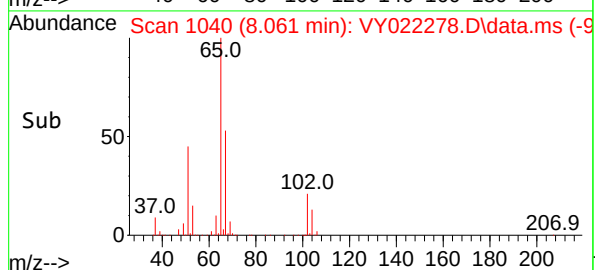
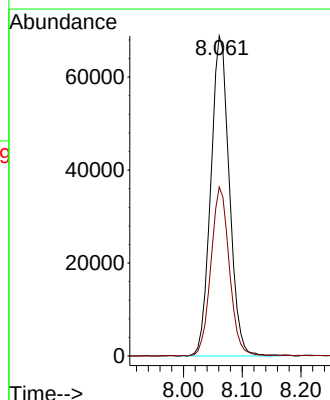
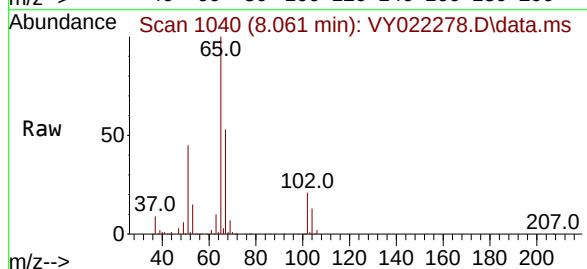
Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

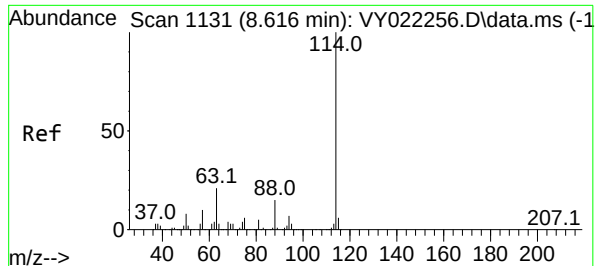
Tgt Ion:168 Resp: 314347
Ion Ratio Lower Upper
168 100
99 55.4 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 43.903 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022278.D
Acq: 16 May 2025 09:37

Tgt Ion: 65 Resp: 150831
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

Instrument :

MSVOA_Y

ClientSampleId :

VY0516SBL01

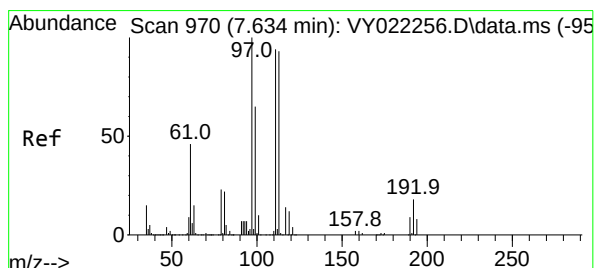
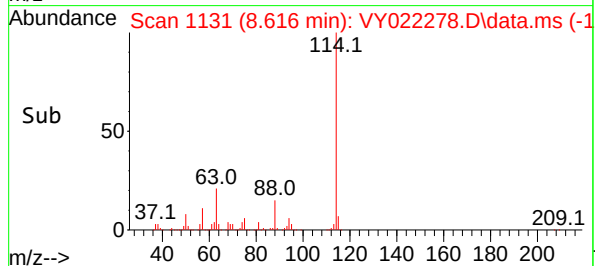
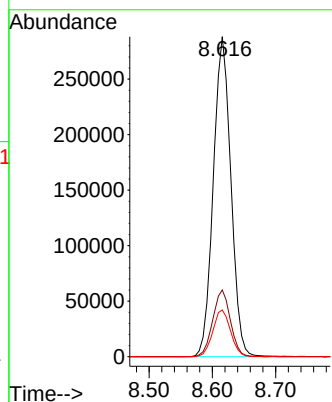
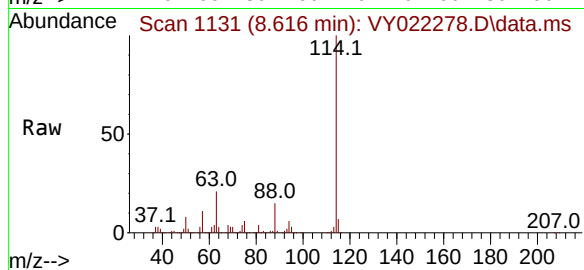
Tgt Ion:114 Resp: 555500

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.0

88 14.6 0.0 29.4



#35

Dibromofluoromethane

Concen: 47.945 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

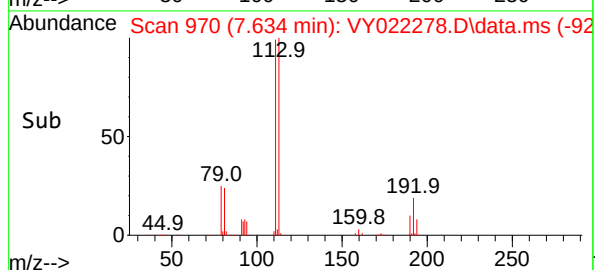
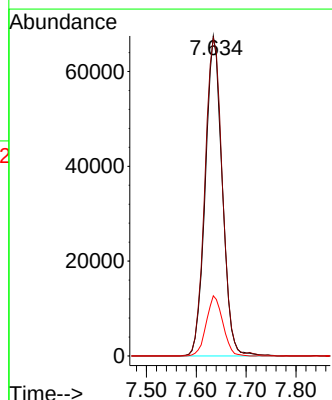
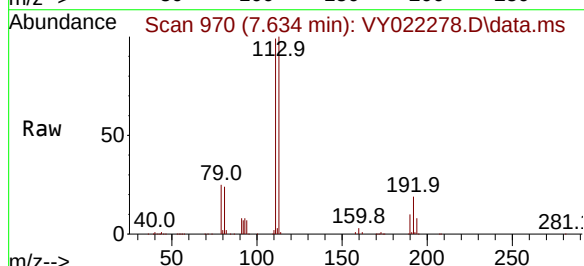
Tgt Ion:113 Resp: 158963

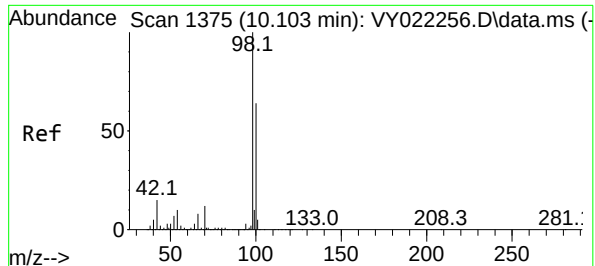
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 18.4 15.2 22.8





#50

Toluene-d8

Concen: 48.771 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

Instrument :

MSVOA_Y

ClientSampleId :

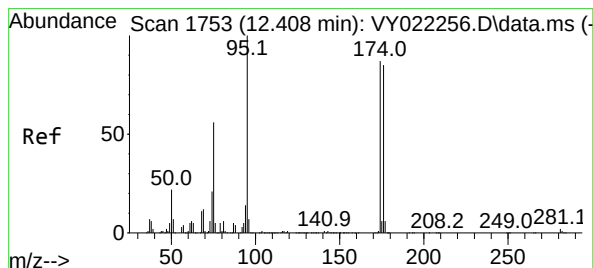
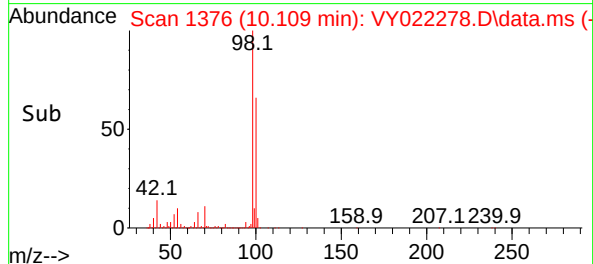
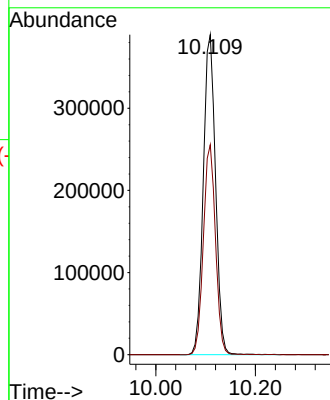
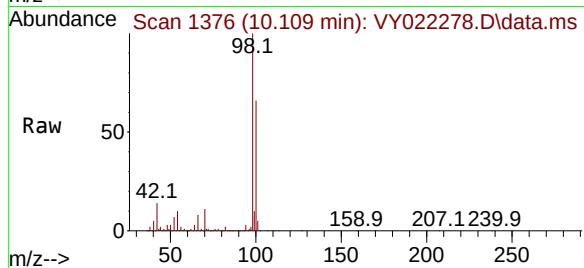
VY0516SBL01

Tgt Ion: 98 Resp: 662270

Ion Ratio Lower Upper

98 100

100 64.9 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 48.485 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

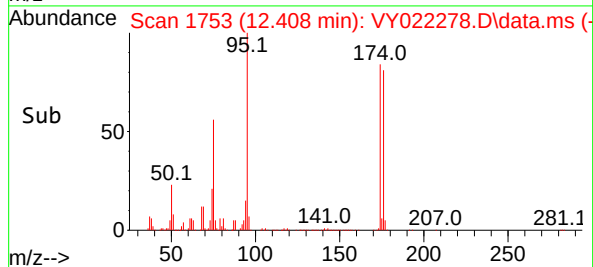
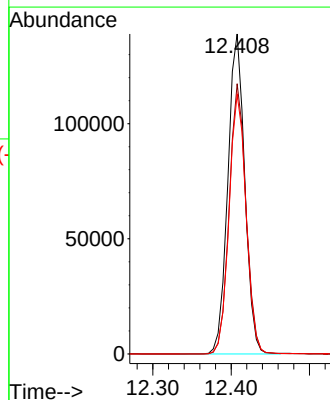
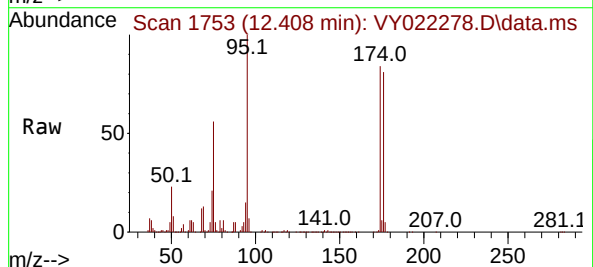
Tgt Ion: 95 Resp: 208685

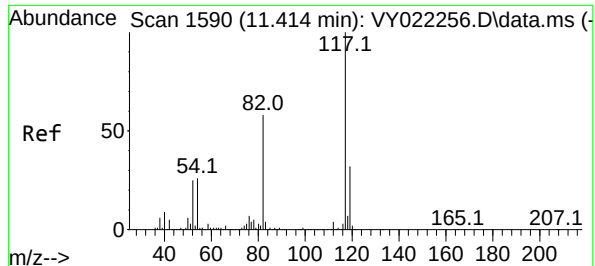
Ion Ratio Lower Upper

95 100

174 83.9 0.0 166.8

176 81.7 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

Instrument :

MSVOA_Y

ClientSampleId :

VY0516SBL01

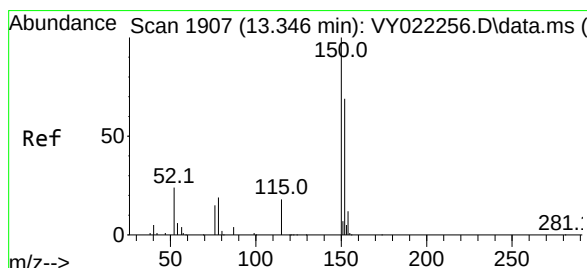
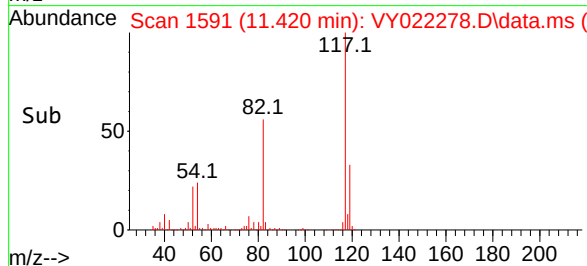
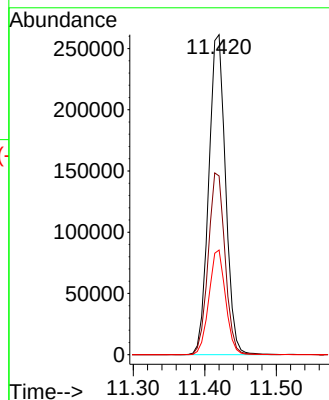
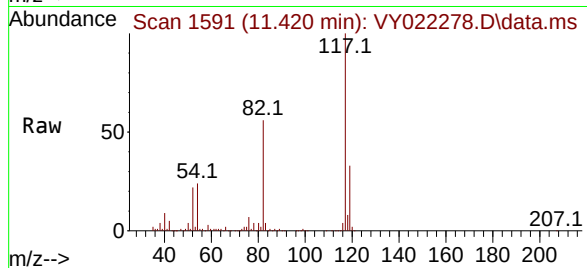
Tgt Ion:117 Resp: 426459

Ion Ratio Lower Upper

117 100

82 55.8 46.6 70.0

119 32.7 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022278.D

Acq: 16 May 2025 09:37

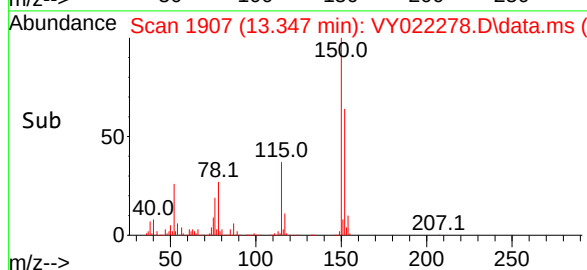
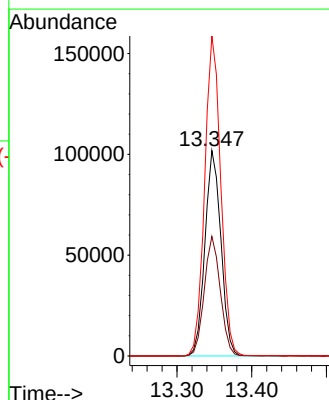
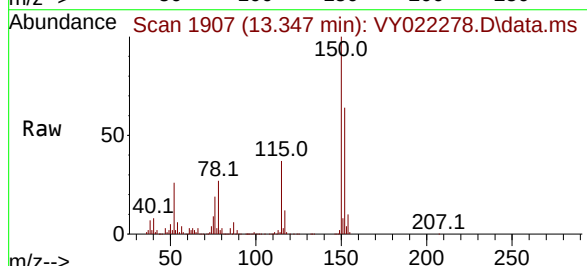
Tgt Ion:152 Resp: 151389

Ion Ratio Lower Upper

152 100

115 58.4 29.4 88.2

150 156.5 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022278.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	124	129	133	rBV6	15187	37517	2.06%	0.432%
2	7.634	960	970	976	rBV	227205	549094	30.21%	6.327%
3	7.707	976	982	995	rVB	419918	942727	51.86%	10.863%
4	8.061	1030	1040	1052	rBV	205731	447251	24.60%	5.154%
5	8.616	1122	1131	1145	rBV	679955	1321951	72.73%	15.232%
6	10.109	1368	1376	1387	rBV	1058309	1817733	100.00%	20.945%
7	11.414	1582	1590	1603	rBV	853205	1412662	77.72%	16.278%
8	12.408	1746	1753	1764	rBV	752746	1152576	63.41%	13.281%
9	13.347	1900	1907	1918	rVB	662743	997052	54.85%	11.489%

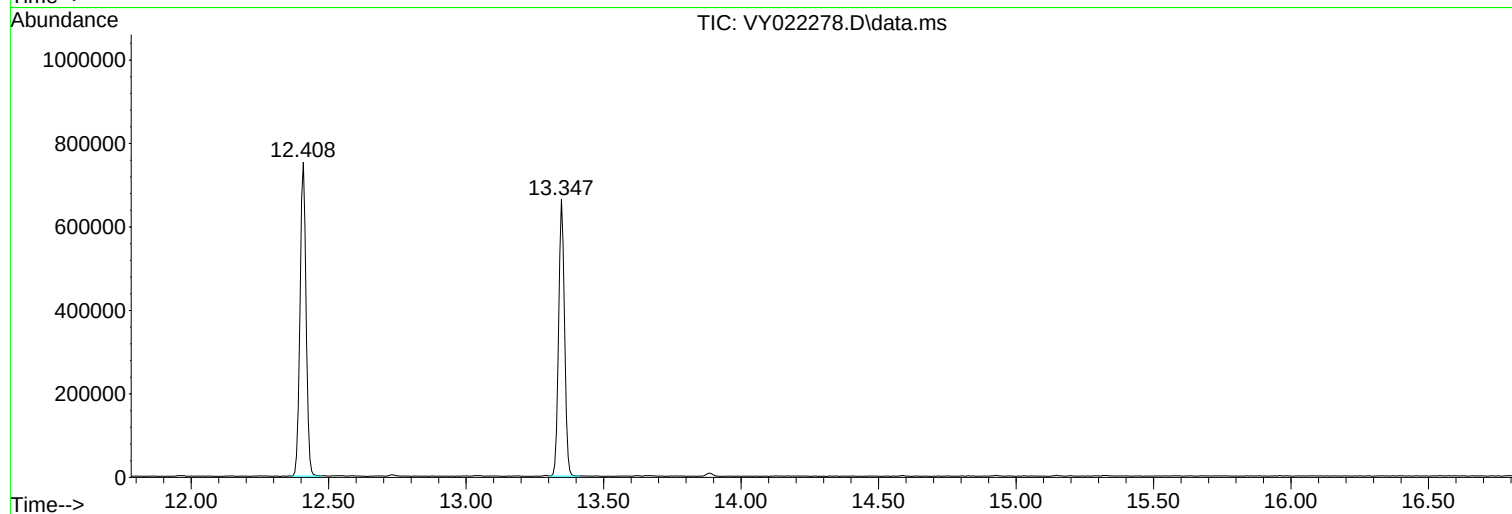
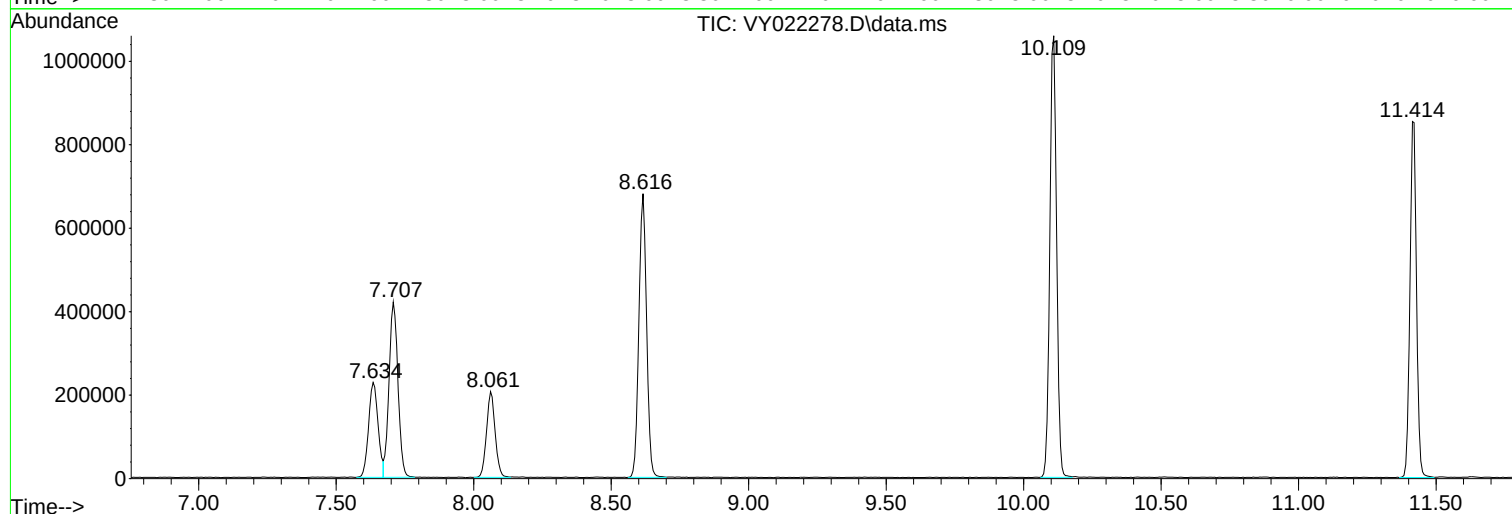
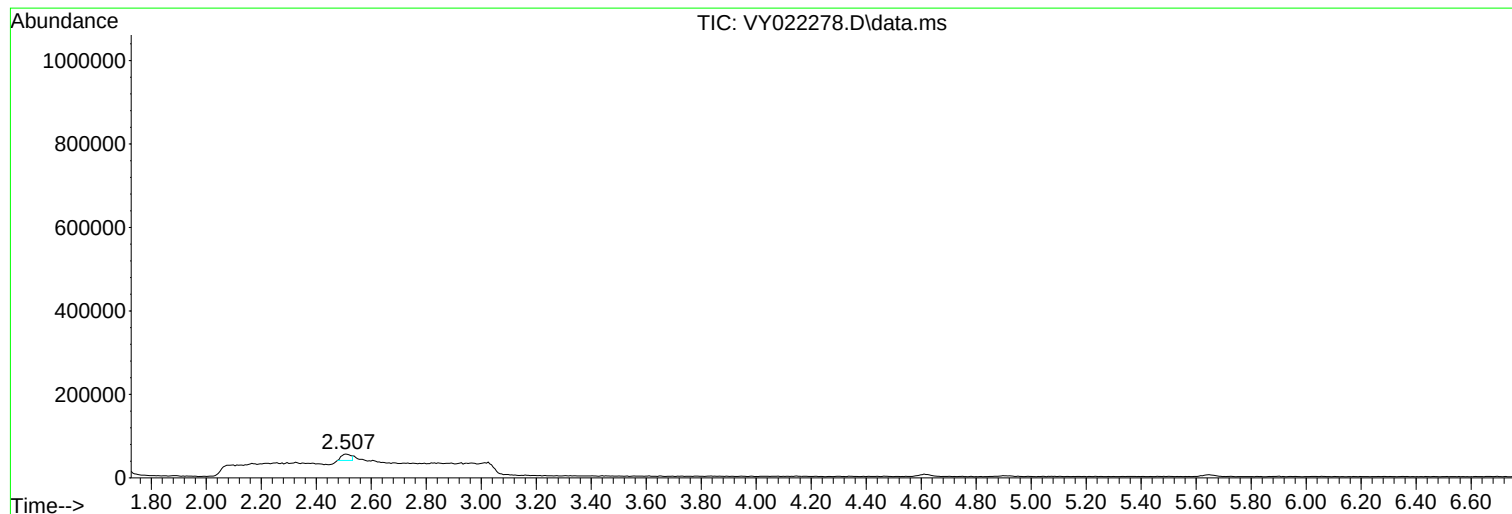
Sum of corrected areas: 8678563

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY051625\
Data File : VY022278.D
Acq On : 16 May 2025 09:37
Operator : SY/MD
Sample : VY0516SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0520SBL01	SDG No.:	Q2032
Lab Sample ID:	VY0520SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022330.D	1		05/20/25 09:48	VY052025

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:	VY0520SBL01	SDG No.:	Q2032
Lab Sample ID:	VY0520SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022330.D	1		05/20/25 09:48	VY052025

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	45.7		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.6		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		38 - 136	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	7.707			
540-36-3	1,4-Difluorobenzene	453000	8.615			
3114-55-4	Chlorobenzene-d5	356000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0520SBL01	SDG No.:	Q2032
Lab Sample ID:	VY0520SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022330.D	1		05/20/25 09:48	VY052025

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_Y\Data\VY052025\
 Data File : VY022330.D
 Acq On : 20 May 2025 09:48
 Operator : SY/MD
 Sample : VY0520SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0520SBL01

Quant Time: May 21 01:43:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	253729	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	453295	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	355808	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	124571	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126632	45.666	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.340%
35) Dibromofluoromethane	7.634	113	130811	48.349	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.700%
50) Toluene-d8	10.109	98	538600	48.607	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.220%
62) 4-Bromofluorobenzene	12.407	95	184563	52.549	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	105.100%

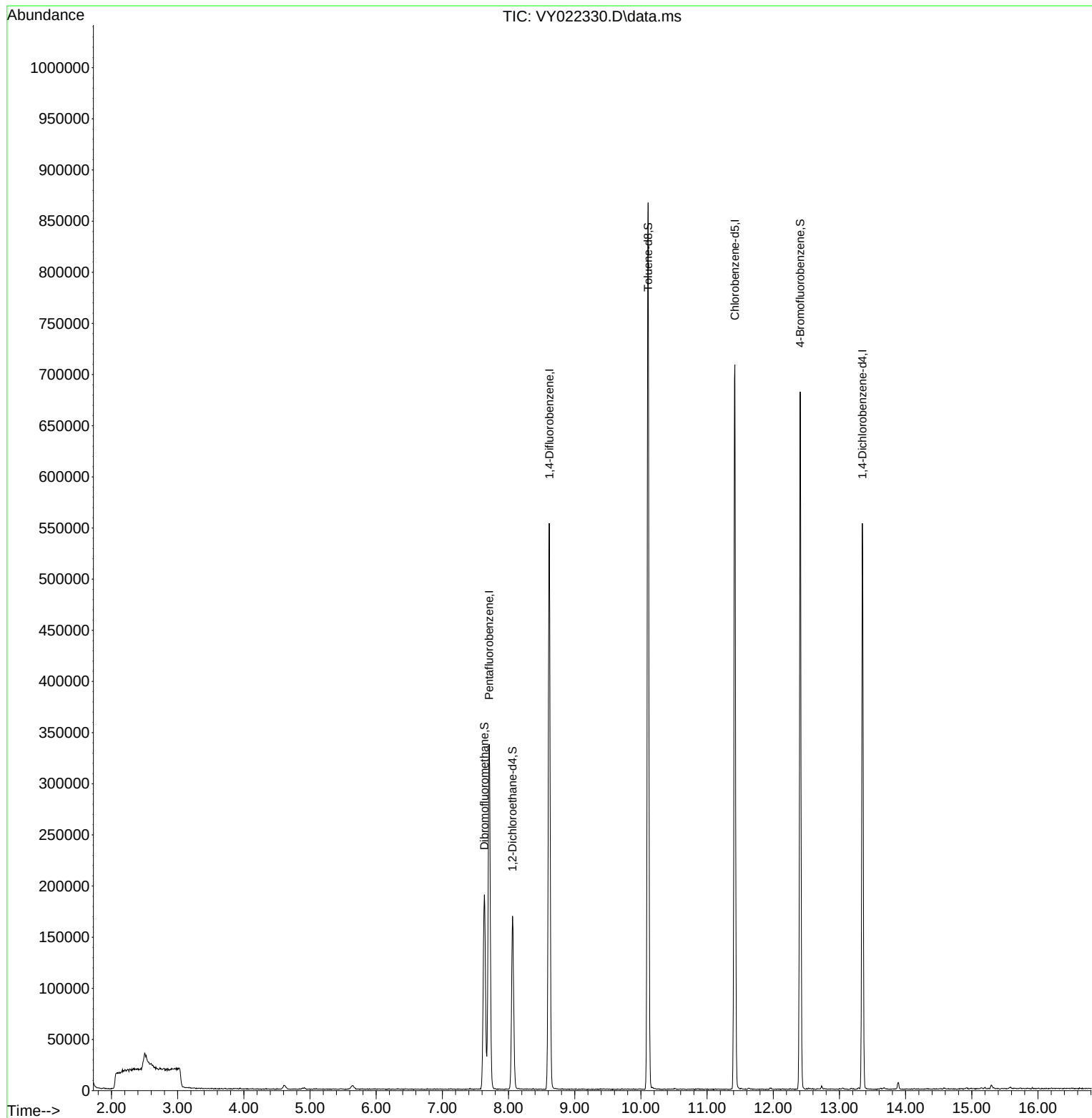
Target Compounds	Qvalue

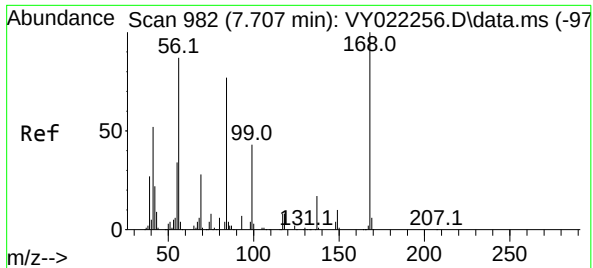
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Time: May 21 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

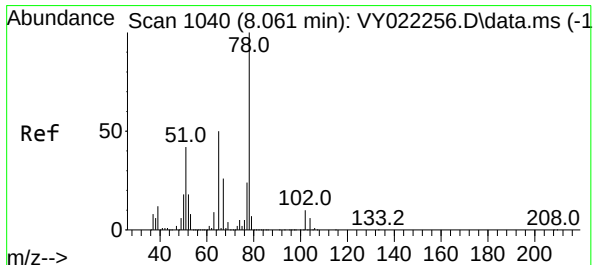
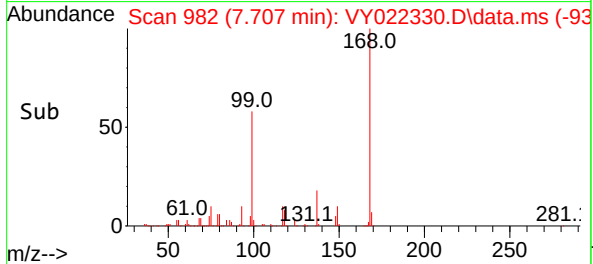
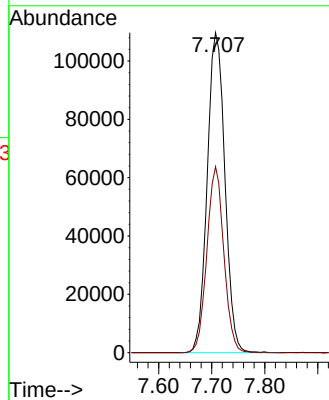
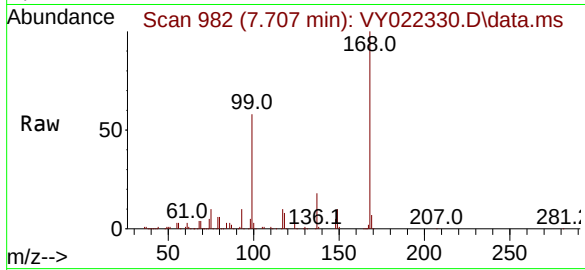




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

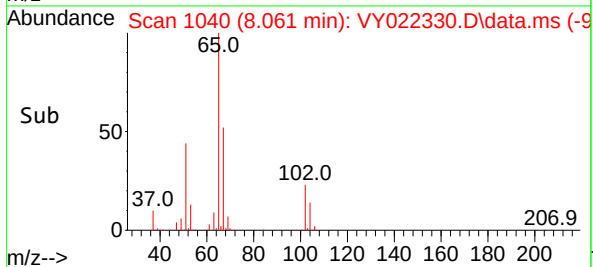
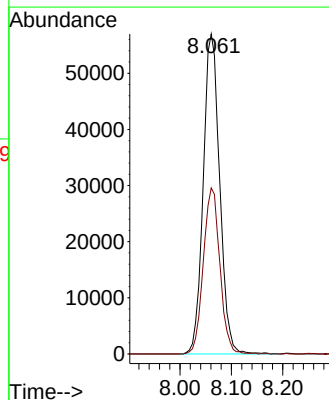
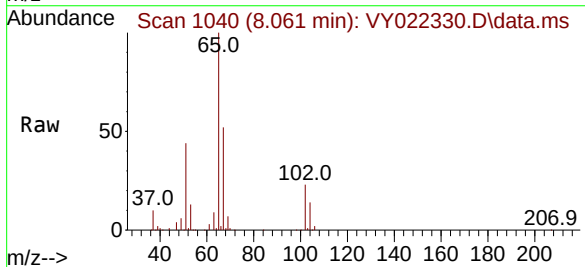
Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

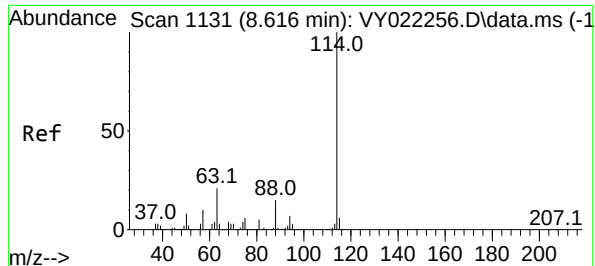
Tgt Ion:168 Resp: 253729
Ion Ratio Lower Upper
168 100
99 58.1 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 45.666 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion: 65 Resp: 126632
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

VY0520SBL01

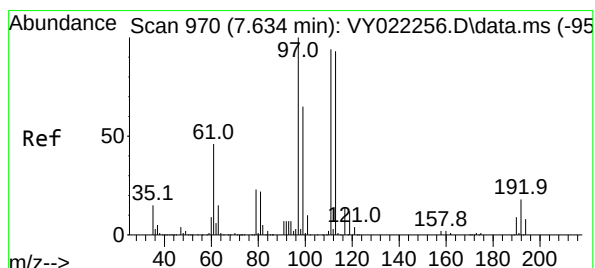
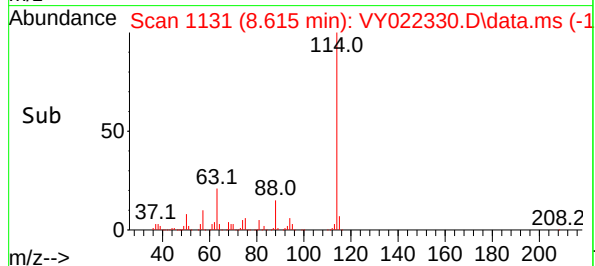
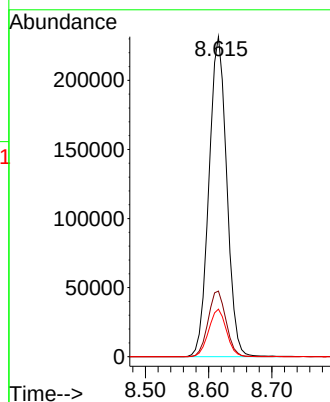
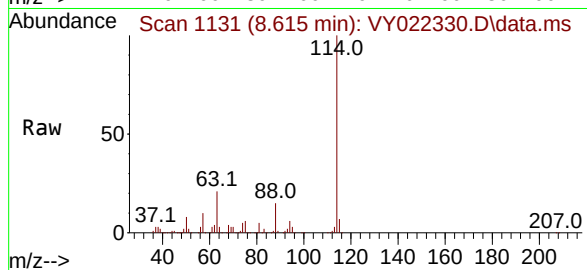
Tgt Ion:114 Resp: 453295

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.0

88 14.9 0.0 29.4



#35

Dibromofluoromethane

Concen: 48.349 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

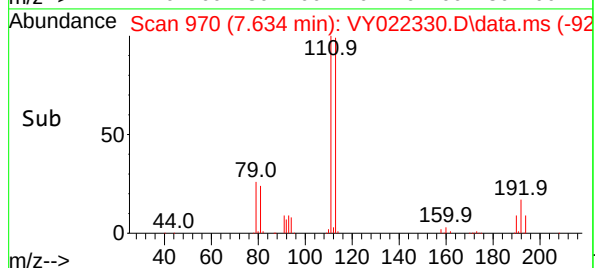
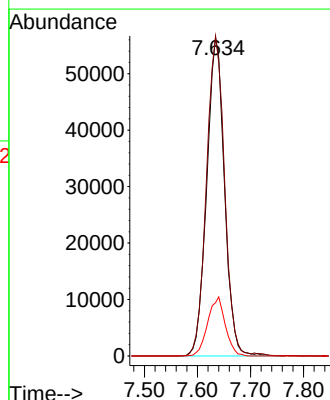
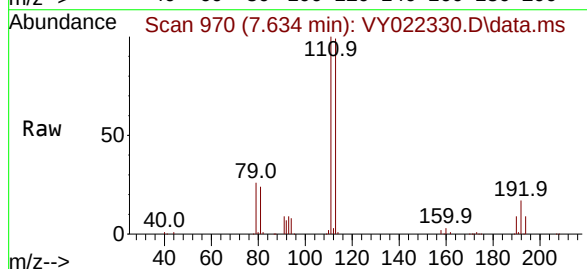
Tgt Ion:113 Resp: 130811

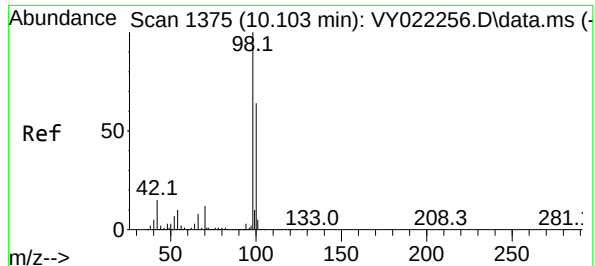
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 18.4 15.2 22.8





#50

Toluene-d8

Concen: 48.607 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

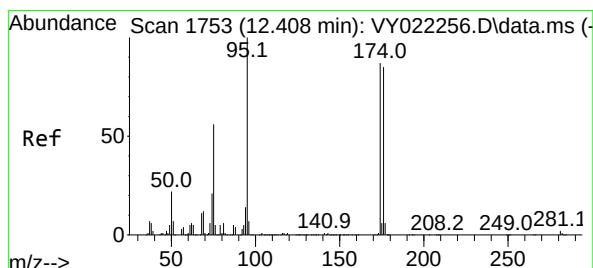
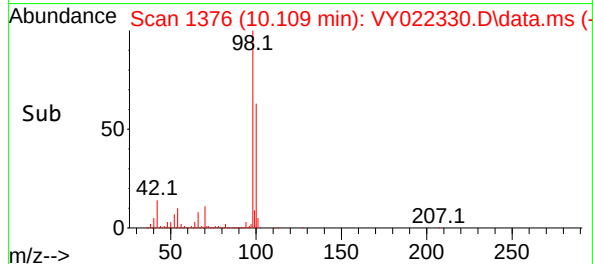
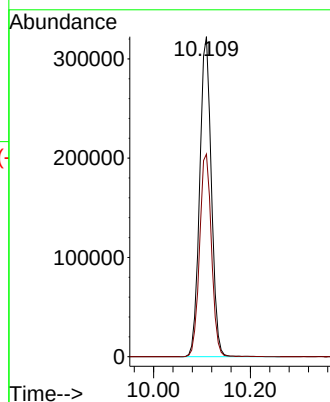
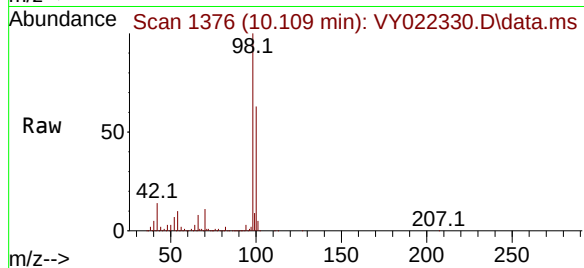
VY0520SBL01

Tgt Ion: 98 Resp: 538600

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 52.549 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

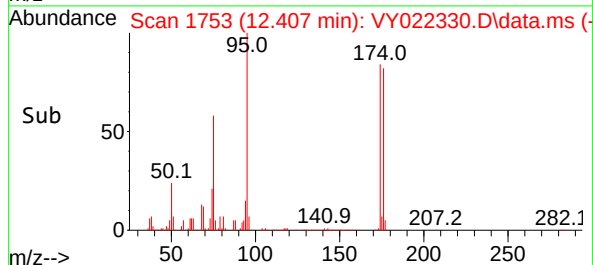
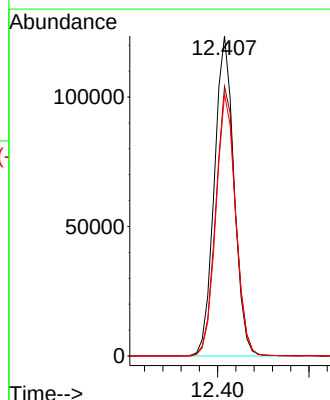
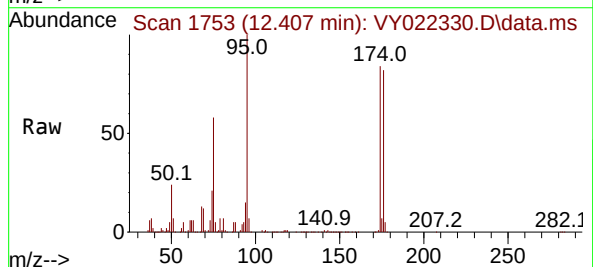
Tgt Ion: 95 Resp: 184563

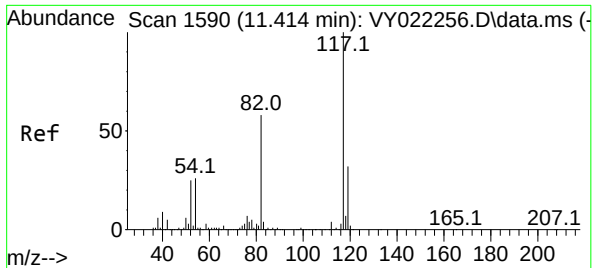
Ion Ratio Lower Upper

95 100

174 85.0 0.0 166.8

176 81.9 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

VY0520SBL01

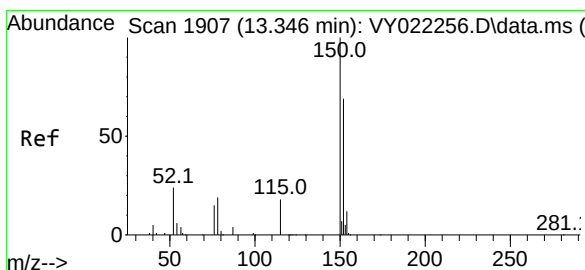
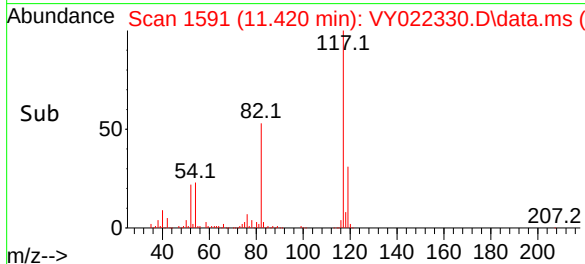
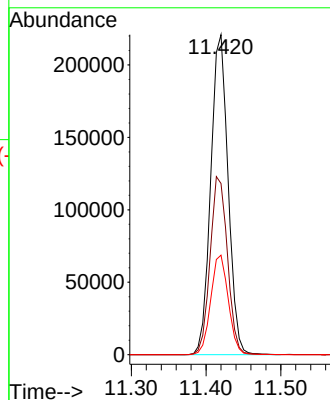
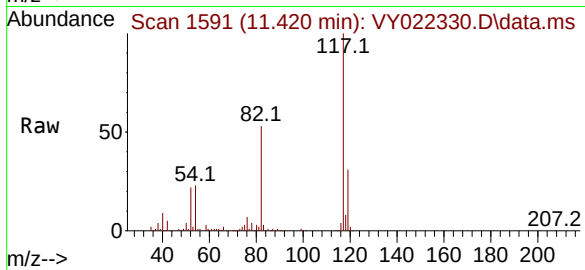
Tgt Ion:117 Resp: 355808

Ion Ratio Lower Upper

117 100

82 53.5 46.6 70.0

119 31.1 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

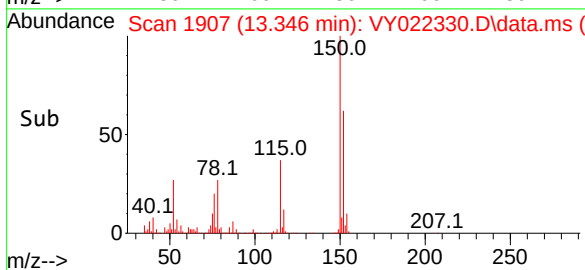
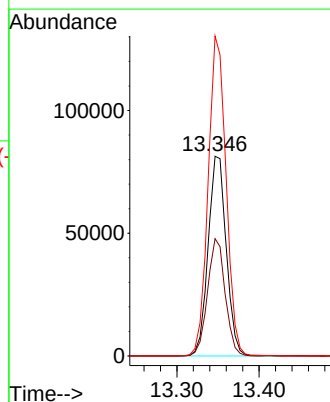
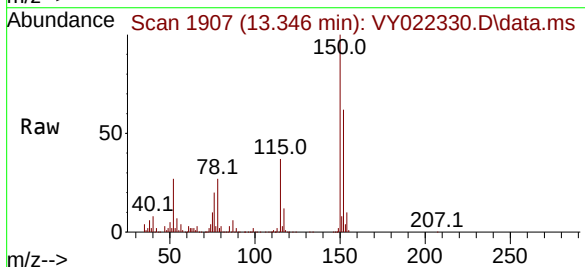
Tgt Ion:152 Resp: 124571

Ion Ratio Lower Upper

152 100

115 57.1 29.4 88.2

150 158.5 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022330.D
 Acq On : 20 May 2025 09:48
 Operator : SY/MD
 Sample : VY0520SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0520SBL01

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022330.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	50	59	60	rBV2	15193	34214	2.32%	0.473%
2	2.501	122	128	131	rBV6	13645	29809	2.02%	0.412%
3	7.634	961	970	976	rBV2	190007	456378	30.96%	6.304%
4	7.707	976	982	994	rVB	336910	762617	51.73%	10.535%
5	8.061	1031	1040	1053	rBV	169211	372273	25.25%	5.143%
6	8.615	1122	1131	1144	rBV	553402	1081691	73.37%	14.943%
7	10.109	1368	1376	1386	rBV	866837	1474301	100.00%	20.366%
8	11.420	1582	1591	1603	rBV	708203	1166913	79.15%	16.120%
9	12.407	1745	1753	1765	rBV	681791	1036262	70.29%	14.315%
10	13.346	1901	1907	1915	rBV	552904	824560	55.93%	11.390%

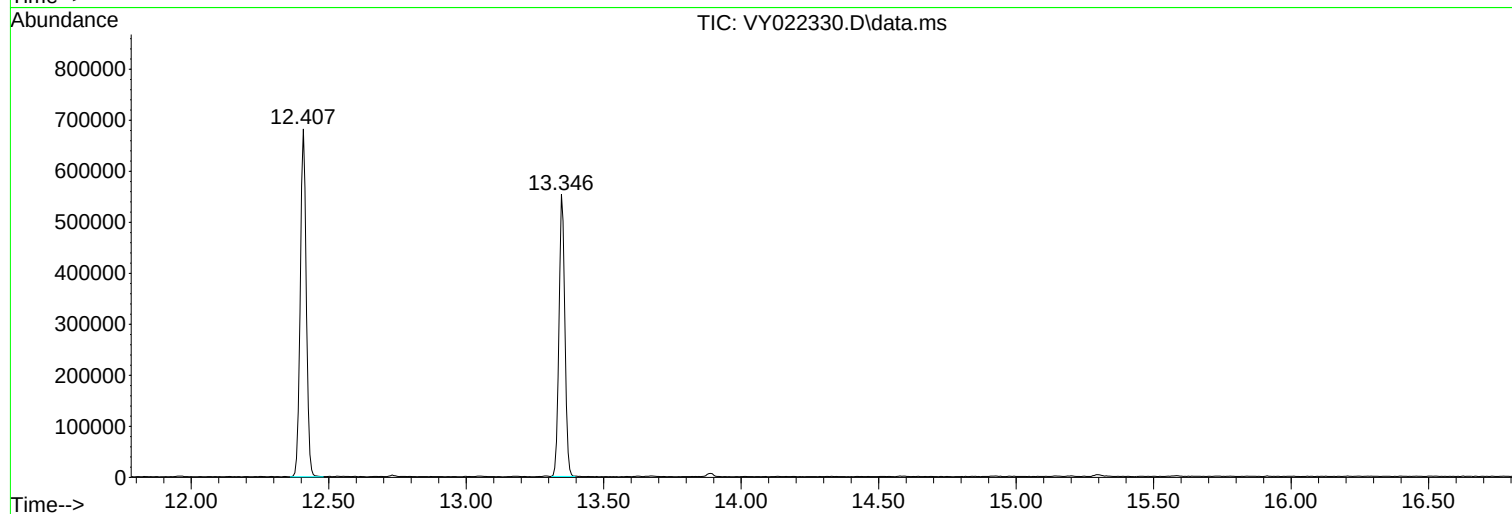
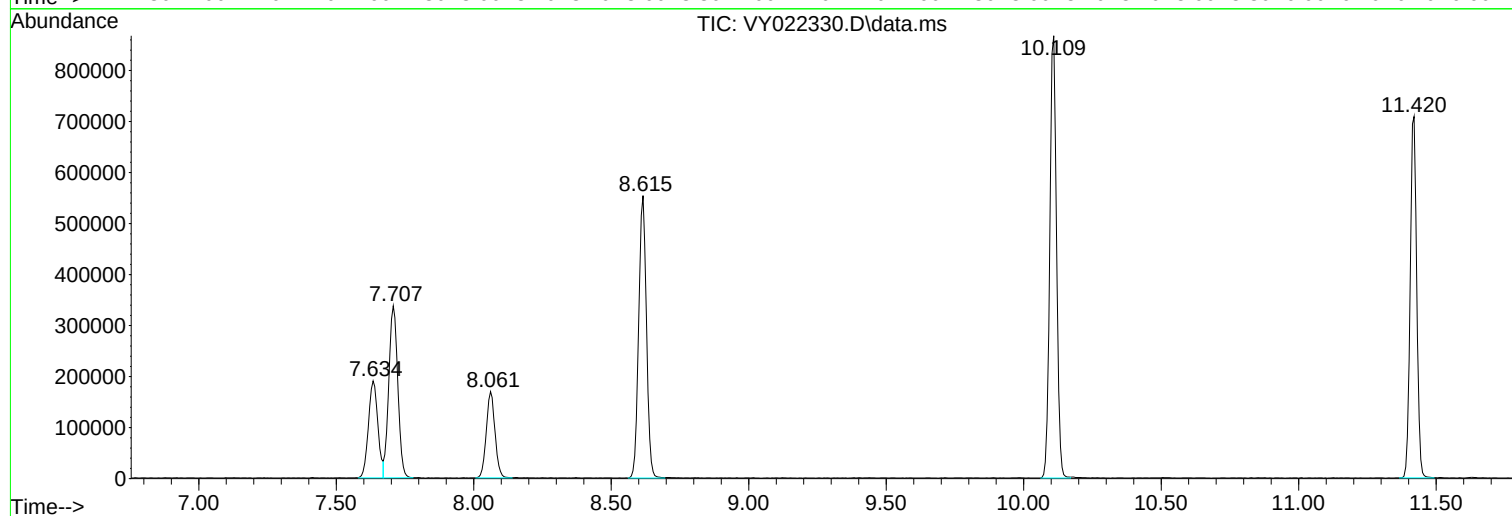
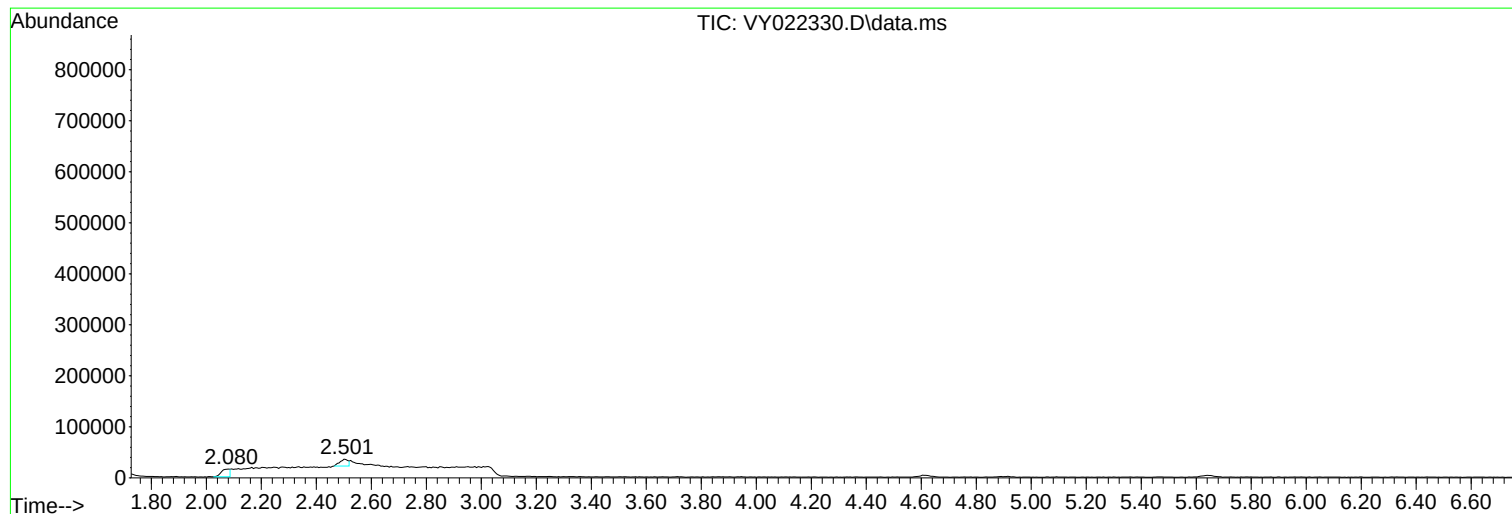
Sum of corrected areas: 7239018

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBS01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086725.D	1		05/21/25 12:32	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2100		110	500	ug/Kg
74-87-3	Chloromethane	2000		110	500	ug/Kg
75-01-4	Vinyl Chloride	2000		79.0	500	ug/Kg
74-83-9	Bromomethane	1900		110	500	ug/Kg
75-00-3	Chloroethane	1900		130	500	ug/Kg
75-69-4	Trichlorofluoromethane	2000		120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2100		110	500	ug/Kg
75-35-4	1,1-Dichloroethene	1900		100	500	ug/Kg
67-64-1	Acetone	9000		470	2500	ug/Kg
75-15-0	Carbon Disulfide	2000		110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2000		73.0	500	ug/Kg
79-20-9	Methyl Acetate	1900		150	500	ug/Kg
75-09-2	Methylene Chloride	1900		350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1900		86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	2000		80.0	500	ug/Kg
110-82-7	Cyclohexane	1900		79.0	500	ug/Kg
78-93-3	2-Butanone	9500		650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	1900		97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1900		75.0	500	ug/Kg
74-97-5	Bromochloromethane	2000		120	500	ug/Kg
67-66-3	Chloroform	1900		84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	2000		93.0	500	ug/Kg
108-87-2	Methylcyclohexane	1900		91.0	500	ug/Kg
71-43-2	Benzene	1900		79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	1900		79.0	500	ug/Kg
79-01-6	Trichloroethene	1900		81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	2000		91.0	500	ug/Kg
75-27-4	Bromodichloromethane	2000		78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9500		360	2500	ug/Kg
108-88-3	Toluene	1900		78.0	500	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBS01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086725.D	1		05/21/25 12:32	VN052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2000		65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2000		62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	1900		92.0	500	ug/Kg
591-78-6	2-Hexanone	9300		370	2500	ug/Kg
124-48-1	Dibromochloromethane	1900		87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	1900		88.0	500	ug/Kg
127-18-4	Tetrachloroethene	2100		110	500	ug/Kg
108-90-7	Chlorobenzene	2000		91.0	500	ug/Kg
100-41-4	Ethyl Benzene	2000		67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	4000		120	1000	ug/Kg
95-47-6	o-Xylene	1900		82.0	500	ug/Kg
100-42-5	Styrene	2000		71.0	500	ug/Kg
75-25-2	Bromoform	2000		86.0	500	ug/Kg
98-82-8	Isopropylbenzene	1900		78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1900		120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	1900		170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	2000		160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	2000		150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1900		180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1900		300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1900		320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 - 134	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		74 - 123	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		38 - 136	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	188000	8.224			
540-36-3	1,4-Difluorobenzene	346000	9.1			
3114-55-4	Chlorobenzene-d5	297000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	134000	13.788			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VN0521MBS01	SDG No.:	Q2032
Lab Sample ID:	VN0521MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086725.D	1		05/21/25 12:32	VN052125

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_N\Data\VN052125\
 Data File : VN086725.D
 Acq On : 21 May 2025 12:32
 Operator : JC\MD
 Sample : VN0521MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/22/2025
 Supervised By : Mahesh Dadoda 05/22/2025

Quant Time: May 22 01:20:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	187953	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	345557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296696	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	134268	51.698	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.400%			
35) Dibromofluoromethane	8.165	113	108136	52.546	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.100%			
50) Toluene-d8	10.565	98	446043	52.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.600%			
62) 4-Bromofluorobenzene	12.847	95	150485	49.974	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.940%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	43058	21.213	ug/l	100
3) Chloromethane	2.359	50	60037	19.556	ug/l	97
4) Vinyl Chloride	2.518	62	55426	20.102	ug/l	97
5) Bromomethane	2.959	94	30185	18.991	ug/l	98
6) Chloroethane	3.124	64	34954	19.352	ug/l	98
7) Trichlorofluoromethane	3.500	101	65959	20.018	ug/l	99
8) Diethyl Ether	3.959	74	26994	19.831	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	40561	20.562	ug/l	97
10) Methyl Iodide	4.594	142	44865	18.284	ug/l	98
11) Tert butyl alcohol	5.512	59	42550	89.956	ug/l	100
12) 1,1-Dichloroethene	4.341	96	40364	19.254	ug/l	92
13) Acrolein	4.177	56	41866	82.795	ug/l	97
14) Allyl chloride	5.024	41	62006	19.541	ug/l	95
15) Acrylonitrile	5.718	53	113196	96.653	ug/l	99
16) Acetone	4.424	43	87750	90.323	ug/l	97
17) Carbon Disulfide	4.712	76	114597	19.744	ug/l	98
18) Methyl Acetate	5.018	43	50594	18.607	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	139192	19.500	ug/l	99
20) Methylene Chloride	5.271	84	48131	18.774	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	43140	19.464	ug/l	94
22) Diisopropyl ether	6.671	45	143741	20.080	ug/l	100
23) Vinyl Acetate	6.600	43	514684	95.664	ug/l	99
24) 1,1-Dichloroethane	6.565	63	82259	19.572	ug/l	97
25) 2-Butanone	7.477	43	142910	95.194	ug/l	98
26) 2,2-Dichloropropane	7.488	77	70176	20.233	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	51679	18.996	ug/l	97
28) Bromochloromethane	7.806	49	37400	19.586	ug/l	100
29) Tetrahydrofuran	7.835	42	95108	97.059	ug/l	98
30) Chloroform	7.965	83	81897	19.468	ug/l	100
31) Cyclohexane	8.253	56	75162	19.283	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	69166	19.501	ug/l	98
36) 1,1-Dichloropropene	8.365	75	58951	19.420	ug/l	98
37) Ethyl Acetate	7.553	43	60511	19.734	ug/l	96
38) Carbon Tetrachloride	8.359	117	57894	19.357	ug/l	99
39) Methylcyclohexane	9.594	83	62680	19.078	ug/l	97
40) Benzene	8.606	78	191458	19.334	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
 Data File : VN086725.D
 Acq On : 21 May 2025 12:32
 Operator : JC\MD
 Sample : VN0521MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0521MBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/22/2025
 Supervised By : Mahesh Dadoda 05/22/2025

Quant Time: May 22 01:20:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	30277	18.287	ug/l	97
42) 1,2-Dichloroethane	8.665	62	59668	19.341	ug/l	99
43) Isopropyl Acetate	8.682	43	113441	18.454	ug/l	95
44) Trichloroethene	9.347	130	46262	19.369	ug/l	96
45) 1,2-Dichloropropane	9.618	63	46101	19.598	ug/l	96
46) Dibromomethane	9.706	93	30477	19.200	ug/l	97
47) Bromodichloromethane	9.888	83	64153	19.616	ug/l	99
48) Methyl methacrylate	9.676	41	44505	18.684	ug/l	100
49) 1,4-Dioxane	9.694	88	18377	364.347	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	293682	94.739	ug/l	100
52) Toluene	10.629	92	117394	19.074	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	67881	19.603	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	74205	19.631	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	44502	19.384	ug/l	97
56) Ethyl methacrylate	10.870	69	69660	18.897	ug/l	97
57) 1,3-Dichloropropane	11.159	76	76975	19.462	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	151785	92.132	ug/l	98
59) 2-Hexanone	11.194	43	210511	92.993	ug/l	100
60) Dibromochloromethane	11.353	129	46382	19.277	ug/l	100
61) 1,2-Dibromoethane	11.465	107	43316	18.775	ug/l	100
64) Tetrachloroethene	11.100	164	47421	20.864	ug/l	95
65) Chlorobenzene	11.888	112	128106	19.690	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	42374	20.175	ug/l	98
67) Ethyl Benzene	11.959	91	217523	19.520	ug/l	98
68) m/p-Xylenes	12.064	106	167445	39.671	ug/l	98
69) o-Xylene	12.394	106	81370	19.391	ug/l	97
70) Styrene	12.406	104	136051	19.803	ug/l	99
71) Bromoform	12.576	173	29216	19.559	ug/l #	96
73) Isopropylbenzene	12.694	105	198561	19.208	ug/l	98
74) N-amyl acetate	12.488	43	81083	18.773	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	60498	19.049	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	50948m	16.831	ug/l	
77) Bromobenzene	12.976	156	48615	18.695	ug/l	98
78) n-propylbenzene	13.029	91	231786	19.538	ug/l	100
79) 2-Chlorotoluene	13.123	91	149362	19.363	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	164336	19.842	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	21643	18.044	ug/l	96
82) 4-Chlorotoluene	13.217	91	147173	19.258	ug/l	99
83) tert-Butylbenzene	13.435	119	136846	18.947	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	164122	19.899	ug/l	99
85) sec-Butylbenzene	13.611	105	191963	19.821	ug/l	98
86) p-Isopropyltoluene	13.723	119	158111	19.917	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	87534	19.439	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	87467	19.605	ug/l	99
89) n-Butylbenzene	14.053	91	131106	19.922	ug/l	98
90) Hexachloroethane	14.329	117	26221	19.908	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	84371	19.699	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10090	19.178	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	34702	19.195	ug/l	99
94) Hexachlorobutadiene	15.494	225	14732	19.641	ug/l	96
95) Naphthalene	15.635	128	112936	17.991	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	32956	18.615	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\
Data File : VN086725.D
Acq On : 21 May 2025 12:32
Operator : JC\MD
Sample : VN0521MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

Quant Time: May 22 01:20:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

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

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

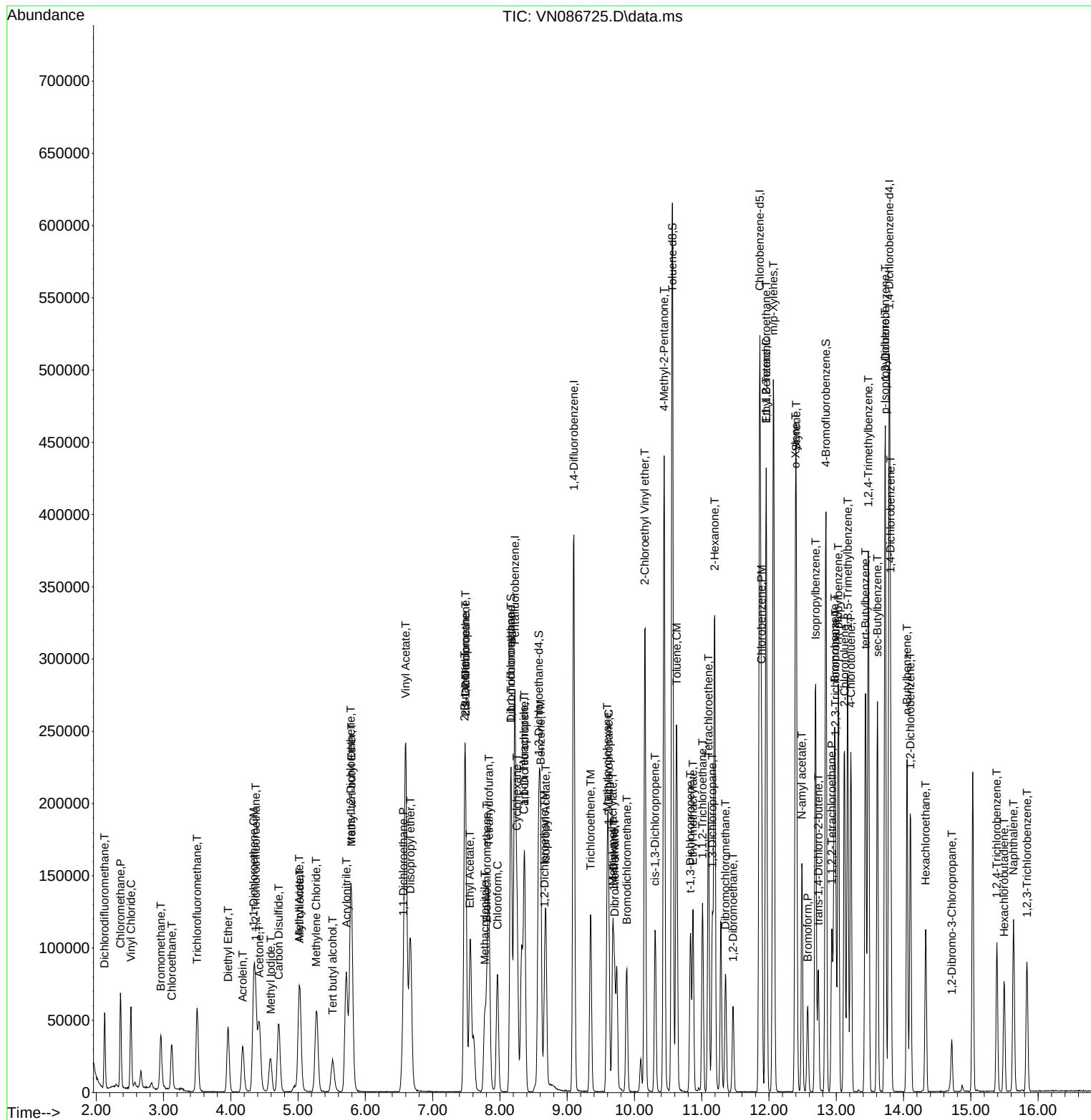
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052125\  
Data File : VN086725.D  
Acq On    : 21 May 2025 12:32  
Operator  : JC\MD  
Sample    : VN0521MBS01  
Misc      : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0521MBS01

Manual Integrations

Reviewed By :John Carlone 05/22/2025
Supervised By :Mahesh Dadoda 05/22/2025

Quant Time: May 22 01:20:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBS01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046206.D	1		05/15/25 12:11	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.22	1.00	ug/L
74-87-3	Chloromethane	19.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.26	1.00	ug/L
74-83-9	Bromomethane	18.9		1.40	5.00	ug/L
75-00-3	Chloroethane	22.5		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.7		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.6		0.22	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.3		0.16	1.00	ug/L
71-43-2	Benzene	20.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.0		0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBS01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046206.D	1		05/15/25 12:11	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.4		0.24	2.00	ug/L
95-47-6	o-Xylene	20.3		0.12	1.00	ug/L
100-42-5	Styrene	20.5		0.15	1.00	ug/L
75-25-2	Bromoform	19.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.8		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.9		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.2		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	89000	5.544			
540-36-3	1,4-Difluorobenzene	158000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	65800	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBS01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046206.D	1		05/15/25 12:11	VX051525

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_X\Data\VX051525\
 Data File : VX046206.D
 Acq On : 15 May 2025 12:11
 Operator : JC/MD
 Sample : VX0515WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:03:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	89041	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	157824	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	139362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65777	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	84109	50.668	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.340%	
35) Dibromofluoromethane	5.379	113	56861	50.032	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.060%	
50) Toluene-d8	8.647	98	195401	49.675	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.360%	
62) 4-Bromofluorobenzene	11.079	95	73760	48.884	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 97.760%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	27470	20.157	ug/l	99
3) Chloromethane	1.307	50	25723	19.463	ug/l	96
4) Vinyl Chloride	1.374	62	23543	19.141	ug/l	97
5) Bromomethane	1.599	94	10767	18.873	ug/l	96
6) Chloroethane	1.672	64	14786	22.518	ug/l	100
7) Trichlorofluoromethane	1.880	101	37119	20.419	ug/l	97
8) Diethyl Ether	2.136	74	11989	19.374	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	22373	19.888	ug/l	98
10) Methyl Iodide	2.447	142	22577	16.961	ug/l	98
11) Tert butyl alcohol	2.971	59	23531	100.985	ug/l	99
12) 1,1-Dichloroethene	2.312	96	20102	19.040	ug/l	98
13) Acrolein	2.233	56	27834	104.889	ug/l	100
14) Allyl chloride	2.660	41	40941	20.290	ug/l	97
15) Acrylonitrile	3.062	53	69714	104.630	ug/l	98
16) Acetone	2.380	43	68020	102.196	ug/l	96
17) Carbon Disulfide	2.508	76	41692	16.656	ug/l	98
18) Methyl Acetate	2.703	43	35065	22.703	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	73662	19.900	ug/l	100
20) Methylene Chloride	2.788	84	24253	19.015	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	20717	19.512	ug/l	97
22) Diisopropyl ether	3.763	45	79562	20.412	ug/l	99
23) Vinyl Acetate	3.721	43	343271	100.132	ug/l	100
24) 1,1-Dichloroethane	3.605	63	43853	20.200	ug/l	98
25) 2-Butanone	4.556	43	102563	106.141	ug/l	100
26) 2,2-Dichloropropane	4.471	77	31325	18.435	ug/l	100
27) cis-1,2-Dichloroethene	4.489	96	25770	20.161	ug/l	98
28) Bromochloromethane	4.897	49	23586	22.571	ug/l	100
29) Tetrahydrofuran	5.007	42	64418	106.388	ug/l	98
30) Chloroform	5.086	83	47424	20.958	ug/l	95
31) Cyclohexane	5.464	56	37793	19.104	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	39621	20.199	ug/l	99
36) 1,1-Dichloropropene	5.684	75	29760	19.489	ug/l	99
37) Ethyl Acetate	4.715	43	34932	18.516	ug/l	99
38) Carbon Tetrachloride	5.678	117	33518	19.536	ug/l	99
39) Methylcyclohexane	7.373	83	36070	18.348	ug/l	99
40) Benzene	6.031	78	89803	20.078	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046206.D
 Acq On : 15 May 2025 12:11
 Operator : JC/MD
 Sample : VX0515WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:03:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	21586	21.872	ug/l	98
42) 1,2-Dichloroethane	6.086	62	39713	20.573	ug/l	99
43) Isopropyl Acetate	6.336	43	57206	19.876	ug/l	99
44) Trichloroethene	7.123	130	20736	19.262	ug/l	92
45) 1,2-Dichloropropane	7.427	63	23243	20.899	ug/l	97
46) Dibromomethane	7.580	93	17546	20.003	ug/l	99
47) Bromodichloromethane	7.818	83	35604	20.608	ug/l	98
48) Methyl methacrylate	7.696	41	30612	20.826	ug/l	98
49) 1,4-Dioxane	7.659	88	12334	441.933	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	203636	106.590	ug/l	98
52) Toluene	8.714	92	54833	19.993	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	28369	18.474	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	33050	19.473	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	22364	20.680	ug/l	99
56) Ethyl methacrylate	9.116	69	34197	19.841	ug/l	96
57) 1,3-Dichloropropane	9.305	76	40187	20.692	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	77611	88.326	ug/l	99
59) 2-Hexanone	9.427	43	152217	107.694	ug/l	99
60) Dibromochloromethane	9.519	129	24617	20.728	ug/l	100
61) 1,2-Dibromoethane	9.604	107	22982	20.447	ug/l	98
64) Tetrachloroethene	9.269	164	19195	19.467	ug/l	94
65) Chlorobenzene	10.079	112	59541	19.520	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	20659	19.834	ug/l	99
67) Ethyl Benzene	10.189	91	106589	19.824	ug/l	98
68) m/p-Xylenes	10.299	106	77543	39.431	ug/l	96
69) o-Xylene	10.640	106	38896	20.288	ug/l	99
70) Styrene	10.652	104	64413	20.510	ug/l	99
71) Bromoform	10.799	173	14962	19.133	ug/l #	97
73) Isopropylbenzene	10.957	105	102905	20.095	ug/l	100
74) N-amyl acetate	10.841	43	49890	19.716	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35452	19.755	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31296m	19.767	ug/l	
77) Bromobenzene	11.195	156	23828	20.042	ug/l	99
78) n-propylbenzene	11.299	91	116803	19.617	ug/l	100
79) 2-Chlorotoluene	11.360	91	75590	19.682	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	87288	20.403	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8314	17.096	ug/l	90
82) 4-Chlorotoluene	11.451	91	85228	20.011	ug/l	99
83) tert-Butylbenzene	11.713	119	84725	19.661	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	87556	20.209	ug/l	98
85) sec-Butylbenzene	11.890	105	104859	19.818	ug/l	99
86) p-Isopropyltoluene	12.006	119	85808	19.647	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	42774	19.714	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	42819	19.324	ug/l	98
89) n-Butylbenzene	12.329	91	70768	18.472	ug/l	98
90) Hexachloroethane	12.536	117	15473	20.109	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	44184	20.293	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7925	19.934	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	22339	17.863	ug/l	98
94) Hexachlorobutadiene	13.725	225	10065	18.428	ug/l	97
95) Naphthalene	13.774	128	81743	17.822	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	23429	18.157	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046206.D
Acq On : 15 May 2025 12:11
Operator : JC/MD
Sample : VX0515WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:03:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

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

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

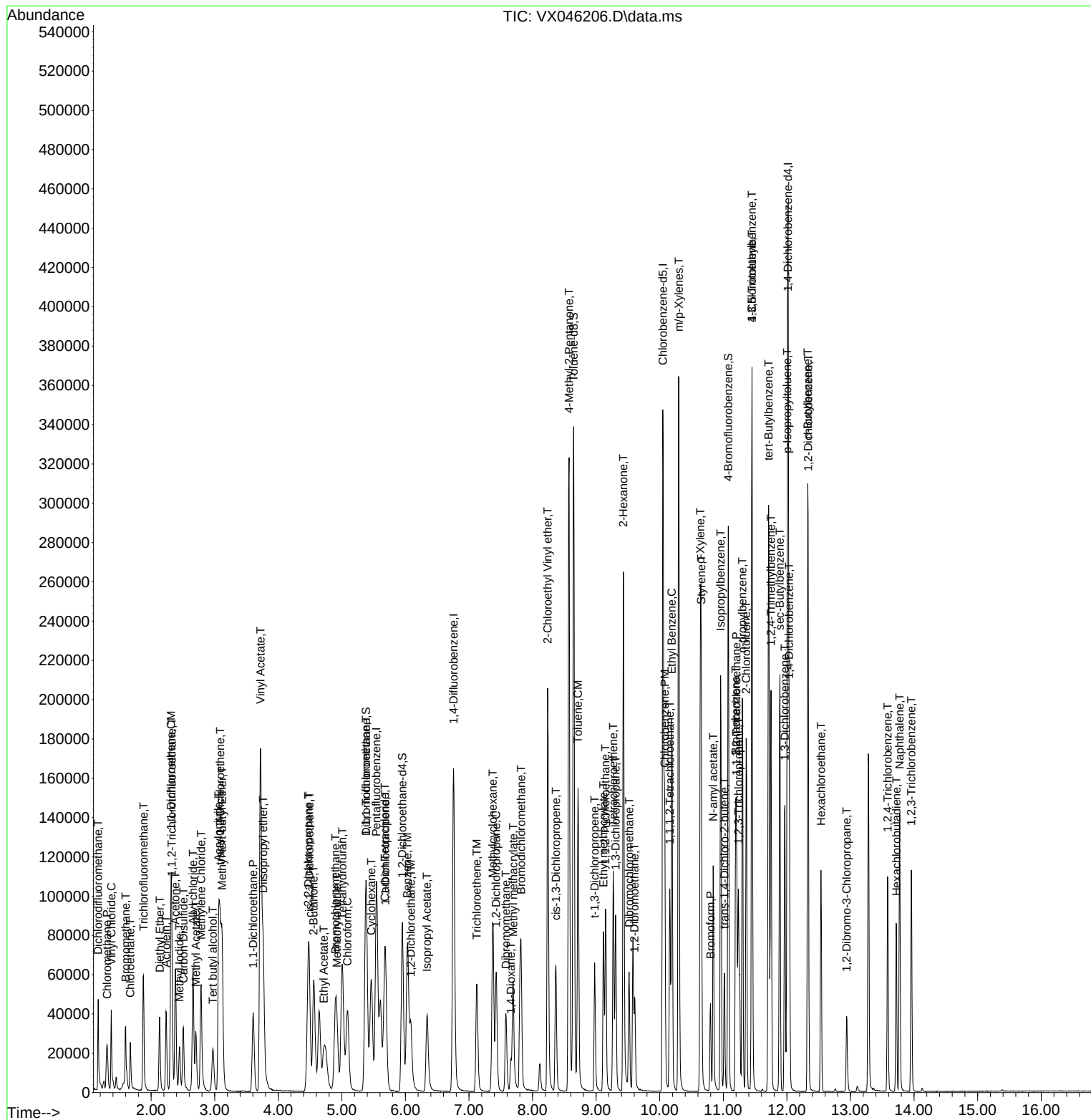
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046206.D
Acq On    : 15 May 2025 12:11
Operator  : JC/MD
Sample    : VX0515WBS01
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 8   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:03:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q2032
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	24.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	26.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	24.7		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	85.5		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	91.5		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	90.9		3.60	25.0	ug/Kg
108-88-3	Toluene	19.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q2032
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.2		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.8		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.82	5.00	ug/Kg
100-42-5	Styrene	18.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.4		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.9		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		63 - 155	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		38 - 136	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	205000	7.707			
540-36-3	1,4-Difluorobenzene	352000	8.616			
3114-55-4	Chlorobenzene-d5	300000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0516SBS01	SDG No.:	Q2032
Lab Sample ID:	VY0516SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022279.D	1		05/16/25 10:09	VY051625

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_Y\Data\VY051625\
 Data File : VY022279.D
 Acq On : 16 May 2025 10:09
 Operator : SY/MD
 Sample : VY0516SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0516SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
 Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:28:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	205076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	351708	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	300126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141210	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	114577	51.121	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.240%	
35) Dibromofluoromethane	7.634	113	106659	50.809	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.620%	
50) Toluene-d8	10.109	98	437632	50.903	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.800%	
62) 4-Bromofluorobenzene	12.408	95	134691	49.426	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 98.860%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	45052	21.053	ug/l	96
3) Chloromethane	2.068	50	109640	24.357	ug/l	99
4) Vinyl Chloride	2.202	62	120955	24.051	ug/l	97
5) Bromomethane	2.592	94	108325	26.460	ug/l	96
6) Chloroethane	2.732	64	77272	24.698	ug/l	97
7) Trichlorofluoromethane	3.049	101	112994	22.191	ug/l	98
8) Diethyl Ether	3.452	74	24161	19.772	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	46362	20.973	ug/l	98
10) Methyl Iodide	4.000	142	47690	18.640	ug/l	99
11) Tert butyl alcohol	4.866	59	16251	94.950	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	45611	20.793	ug/l	96
13) Acrolein	3.653	56	22588	90.276	ug/l	98
14) Allyl chloride	4.385	41	76691	19.939	ug/l	97
15) Acrylonitrile	5.061	53	49210	97.735	ug/l	98
16) Acetone	3.879	43	35951	85.545	ug/l	98
17) Carbon Disulfide	4.104	76	148086	20.702	ug/l	98
18) Methyl Acetate	4.385	43	26179	19.757	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	122697	20.286	ug/l	98
20) Methylene Chloride	4.616	84	54277	19.987	ug/l	91
21) trans-1,2-Dichloroethene	5.116	96	49533	20.457	ug/l	97
22) Diisopropyl ether	6.018	45	160728	19.788	ug/l	99
23) Vinyl Acetate	5.957	43	464752	94.709	ug/l	99
24) 1,1-Dichloroethane	5.915	63	92075	20.290	ug/l	98
25) 2-Butanone	6.896	43	64354	91.546	ug/l	100
26) 2,2-Dichloropropane	6.884	77	80883	20.039	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	57480	20.572	ug/l	99
28) Bromochloromethane	7.250	49	38175	19.722	ug/l	98
29) Tetrahydrofuran	7.268	42	43168	95.450	ug/l	96
30) Chloroform	7.421	83	90925	20.889	ug/l	99
31) Cyclohexane	7.701	56	89576	19.756	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	82428	20.641	ug/l	98
36) 1,1-Dichloropropene	7.835	75	67416	19.498	ug/l	99
37) Ethyl Acetate	6.988	43	30289	18.206	ug/l	96
38) Carbon Tetrachloride	7.817	117	70982	19.833	ug/l	98
39) Methylcyclohexane	9.109	83	90967	19.583	ug/l	96
40) Benzene	8.079	78	206032	20.100	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022279.D
 Acq On : 16 May 2025 10:09
 Operator : SY/MD
 Sample : VY0516SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0516SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
 Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:28:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	20703m	18.760	ug/l	
42) 1,2-Dichloroethane	8.158	62	55663	20.081	ug/l	99
43) Isopropyl Acetate	8.201	43	66577	18.350	ug/l	100
44) Trichloroethene	8.865	130	52001	20.403	ug/l	99
45) 1,2-Dichloropropane	9.140	63	48024	19.433	ug/l	95
46) Dibromomethane	9.231	93	26030	19.529	ug/l	96
47) Bromodichloromethane	9.426	83	69687	20.153	ug/l	99
48) Methyl methacrylate	9.225	41	31270	18.429	ug/l	99
49) 1,4-Dioxane	9.237	88	5450	361.945	ug/l	95
51) 4-Methyl-2-Pentanone	9.999	43	161776	90.873	ug/l	98
52) Toluene	10.170	92	126577	19.501	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	63643	18.860	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	74469	19.261	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	33647	19.714	ug/l	96
56) Ethyl methacrylate	10.438	69	48650	18.299	ug/l	97
57) 1,3-Dichloropropane	10.719	76	58178	19.185	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	99985	83.786	ug/l	100
59) 2-Hexanone	10.761	43	106492	89.217	ug/l	99
60) Dibromochloromethane	10.914	129	43390	19.586	ug/l	98
61) 1,2-Dibromoethane	11.018	107	31515	19.811	ug/l	99
64) Tetrachloroethene	10.646	164	54813	19.759	ug/l	99
65) Chlorobenzene	11.444	112	133251	19.679	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.517	131	44554	19.140	ug/l	100
67) Ethyl Benzene	11.517	91	241283	19.027	ug/l	98
68) m/p-Xylenes	11.627	106	183701	38.444	ug/l	98
69) o-Xylene	11.956	106	87610	19.379	ug/l	96
70) Styrene	11.969	104	144454	18.942	ug/l	99
71) Bromoform	12.133	173	23136	18.414	ug/l #	99
73) Isopropylbenzene	12.255	105	226293	19.344	ug/l	100
74) N-amyl acetate	12.072	43	59704	17.844	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34300	19.065	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	27665m	19.338	ug/l	
77) Bromobenzene	12.529	156	47234	18.904	ug/l	97
78) n-propylbenzene	12.597	91	274165	19.430	ug/l	100
79) 2-Chlorotoluene	12.682	91	148305	19.125	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	178884	18.943	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	11847	16.775	ug/l	93
82) 4-Chlorotoluene	12.779	91	148832	18.660	ug/l	98
83) tert-Butylbenzene	12.999	119	161923	19.292	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	179642	19.163	ug/l	99
85) sec-Butylbenzene	13.176	105	239464	19.219	ug/l	99
86) p-Isopropyltoluene	13.291	119	197757	18.872	ug/l	98
87) 1,3-Dichlorobenzene	13.285	146	93936	18.416	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	92740	18.902	ug/l	99
89) n-Butylbenzene	13.615	91	191322	19.299	ug/l	98
90) Hexachloroethane	13.877	117	40730	19.255	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	81717	19.073	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5507	18.982	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	47875	19.345	ug/l	96
94) Hexachlorobutadiene	15.023	225	26080	18.897	ug/l	98
95) Naphthalene	15.145	128	86461	18.410	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	39190	18.667	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
Data File : VY022279.D
Acq On : 16 May 2025 10:09
Operator : SY/MD
Sample : VY0516SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0516SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025
Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:28:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

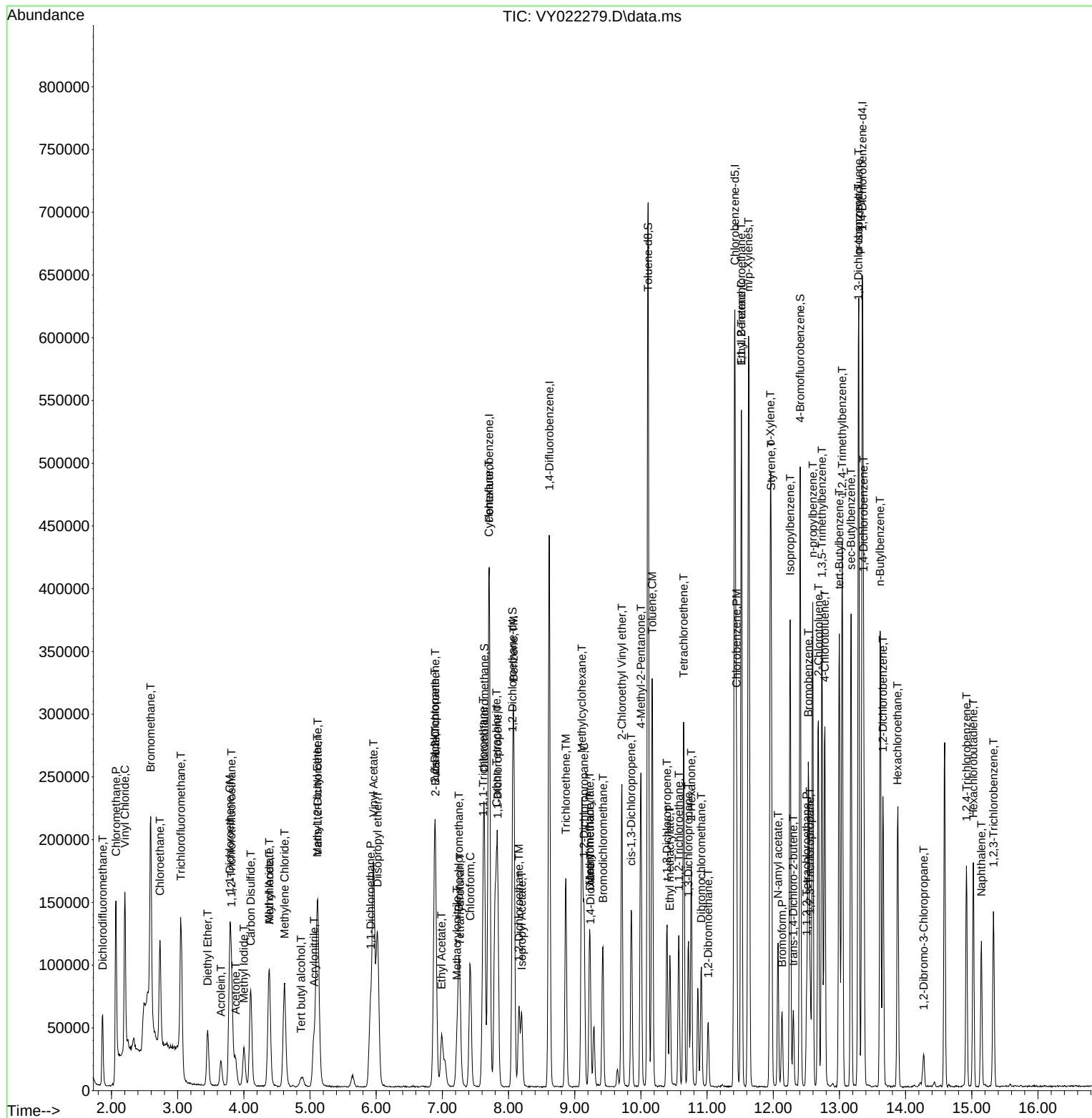
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022279.D
 Acq On : 16 May 2025 10:09
 Operator : SY/MD
 Sample : VY0516SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0516SBS01

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 05/19/2025
 Supervised By : Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:28:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0520SBS01	SDG No.:	Q2032
Lab Sample ID:	VY0520SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022331.D	1		05/20/25 10:21	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	29.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	30.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	37.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	35.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	28.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.6		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	22.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		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	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VY0520SBS01		SDG No.:	Q2032
Lab Sample ID:	VY0520SBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VY022331.D	1		05/20/25 10:21	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	97.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.3		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.3		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.9		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		63 - 155	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	7.707			
540-36-3	1,4-Difluorobenzene	281000	8.616			
3114-55-4	Chlorobenzene-d5	237000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	111000	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0520SBS01	SDG No.:	Q2032
Lab Sample ID:	VY0520SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022331.D	1		05/20/25 10:21	VY052025

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_Y\Data\VY052025\
 Data File : VY022331.D
 Acq On : 20 May 2025 10:21
 Operator : SY/MD
 Sample : VY0520SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0520SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	162404	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	280923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	236555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	111469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	93712	52.798	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.600%			
35) Dibromofluoromethane	7.634	113	87259	52.042	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.080%			
50) Toluene-d8	10.103	98	353867	51.531	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.060%			
62) 4-Bromofluorobenzene	12.408	95	103841	47.707	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.420%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	35898	21.184	ug/l	98
3) Chloromethane	2.068	50	106010	29.739	ug/l	96
4) Vinyl Chloride	2.202	62	121528	30.514	ug/l	99
5) Bromomethane	2.592	94	123030	37.947	ug/l	93
6) Chloroethane	2.733	64	86905	35.075	ug/l	97
7) Trichlorofluoromethane	3.044	101	115381	28.614	ug/l	96
8) Diethyl Ether	3.452	74	21262	21.972	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	39180	22.382	ug/l	98
10) Methyl Iodide	4.001	142	39806	19.647	ug/l	97
11) Tert butyl alcohol	4.885	59	15076	111.229	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	38409	22.110	ug/l	99
13) Acrolein	3.653	56	14505	73.203	ug/l	92
14) Allyl chloride	4.379	41	58664	19.259	ug/l	91
15) Acrylonitrile	5.055	53	44040	110.449	ug/l	99
16) Acetone	3.873	43	33441	100.481	ug/l	96
17) Carbon Disulfide	4.104	76	121089	21.376	ug/l	100
18) Methyl Acetate	4.391	43	22221	21.176	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	105578	22.042	ug/l	100
20) Methylene Chloride	4.616	84	43159	20.069	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	41335	21.557	ug/l	94
22) Diisopropyl ether	6.013	45	129506	20.133	ug/l	94
23) Vinyl Acetate	5.958	43	393589	101.282	ug/l	97
24) 1,1-Dichloroethane	5.909	63	76757	21.359	ug/l	99
25) 2-Butanone	6.897	43	57164	102.685	ug/l	99
26) 2,2-Dichloropropane	6.884	77	65941	20.630	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	47974	21.681	ug/l	98
28) Bromochloromethane	7.244	49	32721	21.346	ug/l	98
29) Tetrahydrofuran	7.262	42	38507	107.516	ug/l	95
30) Chloroform	7.421	83	76921	22.315	ug/l	97
31) Cyclohexane	7.701	56	74031	20.618	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	67990	21.499	ug/l	99
36) 1,1-Dichloropropene	7.835	75	54092	19.586	ug/l	96
37) Ethyl Acetate	6.982	43	27235	20.496	ug/l	97
38) Carbon Tetrachloride	7.817	117	59086	20.669	ug/l	100
39) Methylcyclohexane	9.110	83	75810	20.432	ug/l	95
40) Benzene	8.079	78	170661	20.845	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022331.D
 Acq On : 20 May 2025 10:21
 Operator : SY/MD
 Sample : VY0520SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0520SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	15384	17.453	ug/l #	84
42) 1,2-Dichloroethane	8.158	62	47209	21.323	ug/l	99
43) Isopropyl Acetate	8.195	43	58799	20.290	ug/l	97
44) Trichloroethene	8.866	130	41880	20.573	ug/l	96
45) 1,2-Dichloropropane	9.140	63	40216	20.374	ug/l	96
46) Dibromomethane	9.231	93	22879	21.490	ug/l	98
47) Bromodichloromethane	9.420	83	57637	20.869	ug/l	99
48) Methyl methacrylate	9.219	41	26138	19.286	ug/l	92
49) 1,4-Dioxane	9.238	88	5078	422.215	ug/l #	88
51) 4-Methyl-2-Pentanone	10.000	43	142570	100.263	ug/l	97
52) Toluene	10.170	92	103885	20.038	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	54150	20.090	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	62298	20.174	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	28800	21.126	ug/l	97
56) Ethyl methacrylate	10.439	69	43432	20.452	ug/l	96
57) 1,3-Dichloropropane	10.719	76	51011	21.060	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.713	63	83740	87.855	ug/l	99
59) 2-Hexanone	10.762	43	93178	97.733	ug/l	96
60) Dibromochloromethane	10.908	129	36043	20.369	ug/l	98
61) 1,2-Dibromoethane	11.012	107	27035	21.277	ug/l	99
64) Tetrachloroethene	10.646	164	47128	21.554	ug/l	98
65) Chlorobenzene	11.438	112	109284	20.477	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	36824	20.070	ug/l	99
67) Ethyl Benzene	11.518	91	198160	19.826	ug/l	98
68) m/p-Xylenes	11.627	106	149258	39.630	ug/l	98
69) o-Xylene	11.957	106	71971	20.198	ug/l	97
70) Styrene	11.969	104	118483	19.712	ug/l	99
71) Bromoform	12.133	173	20531	20.732	ug/l #	98
73) Isopropylbenzene	12.255	105	185361	20.072	ug/l	99
74) N-amyl acetate	12.072	43	50457	19.104	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	29407	20.706	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	24209m	21.437	ug/l	
77) Bromobenzene	12.530	156	39771	20.164	ug/l	99
78) n-propylbenzene	12.597	91	226302	20.317	ug/l	100
79) 2-Chlorotoluene	12.682	91	120639	19.708	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	145541	19.524	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.304	75	10455	18.754	ug/l	98
82) 4-Chlorotoluene	12.780	91	123547	19.623	ug/l	98
83) tert-Butylbenzene	12.999	119	131465	19.842	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	142982	19.322	ug/l	97
85) sec-Butylbenzene	13.176	105	196521	19.981	ug/l	100
86) p-Isopropyltoluene	13.292	119	160020	19.345	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	77805	19.324	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	77620	20.041	ug/l	97
89) n-Butylbenzene	13.615	91	154259	19.712	ug/l	99
90) Hexachloroethane	13.877	117	32205	19.287	ug/l	98
91) 1,2-Dichlorobenzene	13.658	146	67307	19.901	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5031	21.968	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	37416	19.152	ug/l	98
94) Hexachlorobutadiene	15.023	225	20316	18.648	ug/l	99
95) Naphthalene	15.145	128	72453	19.543	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	31537	19.029	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

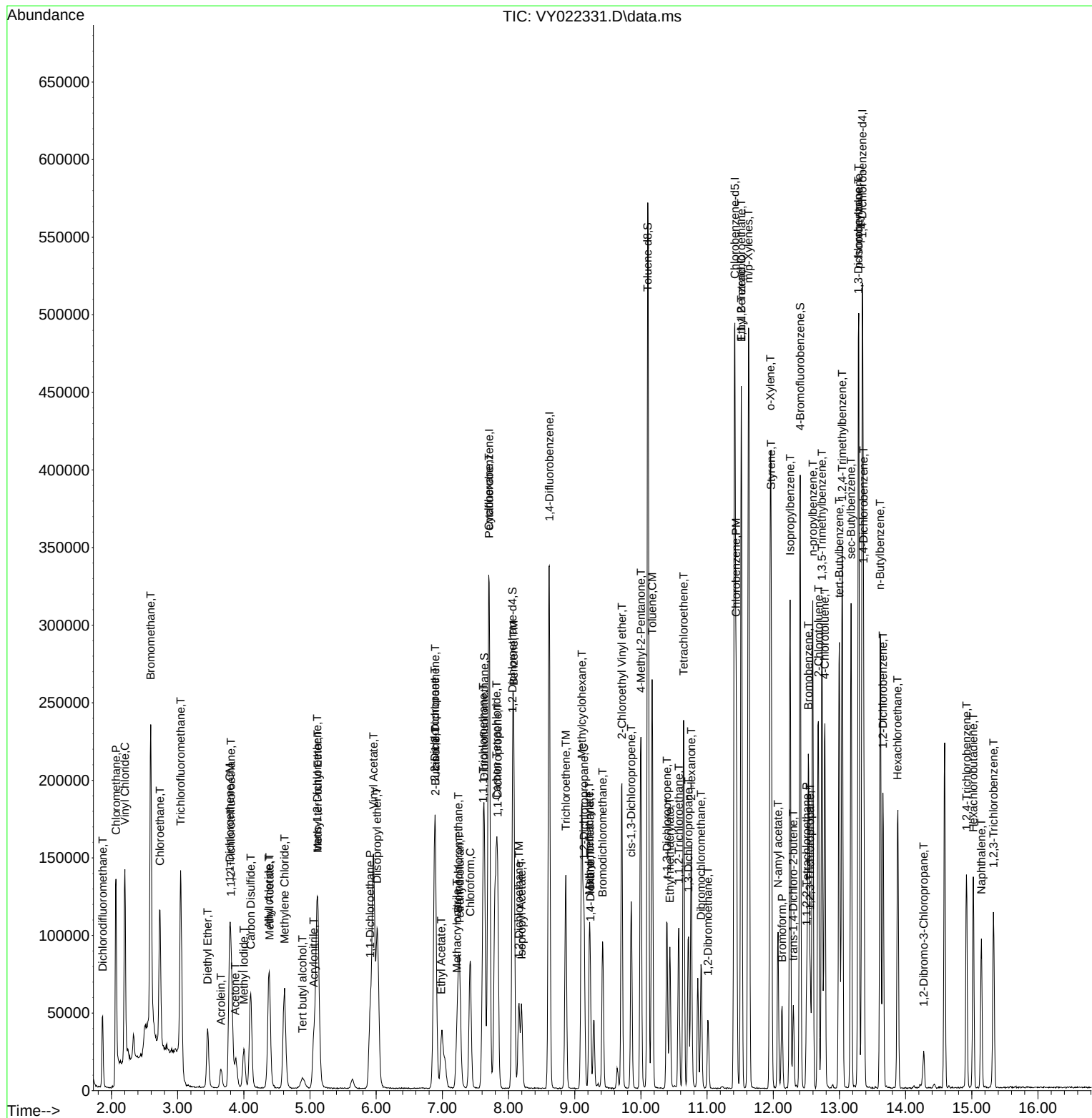
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBSD01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046207.D	1		05/15/25 12:38	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		0.22	1.00	ug/L
74-87-3	Chloromethane	19.3		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.26	1.00	ug/L
74-83-9	Bromomethane	17.8		1.40	5.00	ug/L
75-00-3	Chloroethane	19.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.8		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.1		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.9		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.7		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.6		0.22	1.00	ug/L
67-66-3	Chloroform	20.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.9		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.3		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.3		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.1		0.14	1.00	ug/L

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VX0515WBSD01		SDG No.:	Q2032
Lab Sample ID:	VX0515WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046207.D	1		05/15/25 12:38	VX051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.6		0.24	2.00	ug/L
95-47-6	o-Xylene	20.0		0.12	1.00	ug/L
100-42-5	Styrene	20.5		0.15	1.00	ug/L
75-25-2	Bromoform	19.9		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.3		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.5		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	86400	5.544			
540-36-3	1,4-Difluorobenzene	152000	6.757			
3114-55-4	Chlorobenzene-d5	133000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	63400	12.018			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VX0515WBSD01	SDG No.:	Q2032
Lab Sample ID:	VX0515WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046207.D	1		05/15/25 12:38	VX051525

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_X\Data\VX051525\
 Data File : VX046207.D
 Acq On : 15 May 2025 12:38
 Operator : JC/MD
 Sample : VX0515WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:04:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	86433	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	151750	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	132818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	79550	49.367	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.740%		
35) Dibromofluoromethane	5.379	113	53868	49.295	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.600%		
50) Toluene-d8	8.647	98	183312	48.467	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.940%		
62) 4-Bromofluorobenzene	11.079	95	69470	47.884	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.760%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25515	19.287	ug/l	99
3) Chloromethane	1.307	50	24762	19.302	ug/l	100
4) Vinyl Chloride	1.374	62	21681	18.159	ug/l	95
5) Bromomethane	1.593	94	9877	17.835	ug/l	98
6) Chloroethane	1.672	64	12627	19.810	ug/l	97
7) Trichlorofluoromethane	1.880	101	34989	19.828	ug/l	100
8) Diethyl Ether	2.130	74	11888	19.790	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	21036	19.263	ug/l	99
10) Methyl Iodide	2.447	142	22364	17.308	ug/l	98
11) Tert butyl alcohol	2.971	59	24024	106.212	ug/l	99
12) 1,1-Dichloroethene	2.312	96	18359	17.913	ug/l	97
13) Acrolein	2.233	56	27271	105.868	ug/l	100
14) Allyl chloride	2.654	41	38911	19.865	ug/l	96
15) Acrylonitrile	3.062	53	69412	107.320	ug/l	99
16) Acetone	2.379	43	67256	104.097	ug/l	99
17) Carbon Disulfide	2.501	76	39144	16.110	ug/l	97
18) Methyl Acetate	2.703	43	35757	23.850	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	72291	20.119	ug/l	98
20) Methylene Chloride	2.782	84	23134	18.685	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	19577	18.994	ug/l	98
22) Diisopropyl ether	3.763	45	77299	20.430	ug/l	92
23) Vinyl Acetate	3.721	43	336307	101.060	ug/l	100
24) 1,1-Dichloroethane	3.605	63	42141	19.997	ug/l	99
25) 2-Butanone	4.556	43	100211	106.836	ug/l	98
26) 2,2-Dichloropropane	4.464	77	29004	17.584	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	24006	19.348	ug/l	97
28) Bromochloromethane	4.891	49	22927	22.602	ug/l	95
29) Tetrahydrofuran	5.001	42	62587	106.483	ug/l	99
30) Chloroform	5.080	83	45302	20.624	ug/l	98
31) Cyclohexane	5.464	56	35976	18.734	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	37721	19.811	ug/l	99
36) 1,1-Dichloropropene	5.690	75	27762	18.908	ug/l	98
37) Ethyl Acetate	4.721	43	35167	19.386	ug/l	99
38) Carbon Tetrachloride	5.665	117	31661	19.192	ug/l	99
39) Methylcyclohexane	7.379	83	33833	17.899	ug/l	96
40) Benzene	6.031	78	84839	19.727	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046207.D
 Acq On : 15 May 2025 12:38
 Operator : JC/MD
 Sample : VX0515WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
 Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:04:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	20735m	21.851	ug/l	
42) 1,2-Dichloroethane	6.080	62	38367	20.671	ug/l	99
43) Isopropyl Acetate	6.336	43	56698	20.488	ug/l	99
44) Trichloroethene	7.123	130	19429	18.771	ug/l	90
45) 1,2-Dichloropropane	7.427	63	22755	21.279	ug/l	96
46) Dibromomethane	7.580	93	17222	20.419	ug/l	99
47) Bromodichloromethane	7.818	83	33648	20.256	ug/l	97
48) Methyl methacrylate	7.689	41	29938	21.183	ug/l	98
49) 1,4-Dioxane	7.659	88	12002	447.250	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	200742	109.281	ug/l	99
52) Toluene	8.714	92	53123	20.145	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	27797	18.826	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	32007	19.613	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	22311	21.457	ug/l	94
56) Ethyl methacrylate	9.116	69	34224	20.651	ug/l	98
57) 1,3-Dichloropropane	9.305	76	39056	20.915	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	79190	93.730	ug/l	99
59) 2-Hexanone	9.427	43	150679	110.872	ug/l	98
60) Dibromochloromethane	9.518	129	23664	20.723	ug/l	98
61) 1,2-Dibromoethane	9.604	107	22730	21.032	ug/l	100
64) Tetrachloroethene	9.268	164	18090	19.250	ug/l	95
65) Chlorobenzene	10.079	112	56584	19.464	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	19745	19.891	ug/l	98
67) Ethyl Benzene	10.189	91	101083	19.726	ug/l	99
68) m/p-Xylenes	10.299	106	74126	39.551	ug/l	97
69) o-Xylene	10.640	106	36605	20.034	ug/l	94
70) Styrene	10.652	104	61379	20.507	ug/l	99
71) Bromoform	10.799	173	14833	19.903	ug/l #	99
73) Isopropylbenzene	10.957	105	99102	20.076	ug/l	99
74) N-amyl acetate	10.841	43	48533	19.897	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	35644	20.605	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30553m	20.019	ug/l	
77) Bromobenzene	11.195	156	21783	19.007	ug/l	96
78) n-propylbenzene	11.299	91	111762	19.472	ug/l	100
79) 2-Chlorotoluene	11.360	91	71697	19.366	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	83897	20.344	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	8050	17.172	ug/l	90
82) 4-Chlorotoluene	11.451	91	80748	19.668	ug/l	98
83) tert-Butylbenzene	11.713	119	82463	19.851	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	84059	20.128	ug/l	99
85) sec-Butylbenzene	11.890	105	100420	19.689	ug/l	99
86) p-Isopropyltoluene	12.006	119	82720	19.648	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	40744	19.480	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	40250	18.843	ug/l	95
89) n-Butylbenzene	12.329	91	68030	18.422	ug/l	99
90) Hexachloroethane	12.536	117	14018	18.900	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	42944	20.461	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8016	20.917	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	22965	19.050	ug/l	97
94) Hexachlorobutadiene	13.725	225	10394	19.742	ug/l	98
95) Naphthalene	13.774	128	85011	19.227	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	24043	19.329	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046207.D
Acq On : 15 May 2025 12:38
Operator : JC/MD
Sample : VX0515WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2025
Supervised By :Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:04:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

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

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

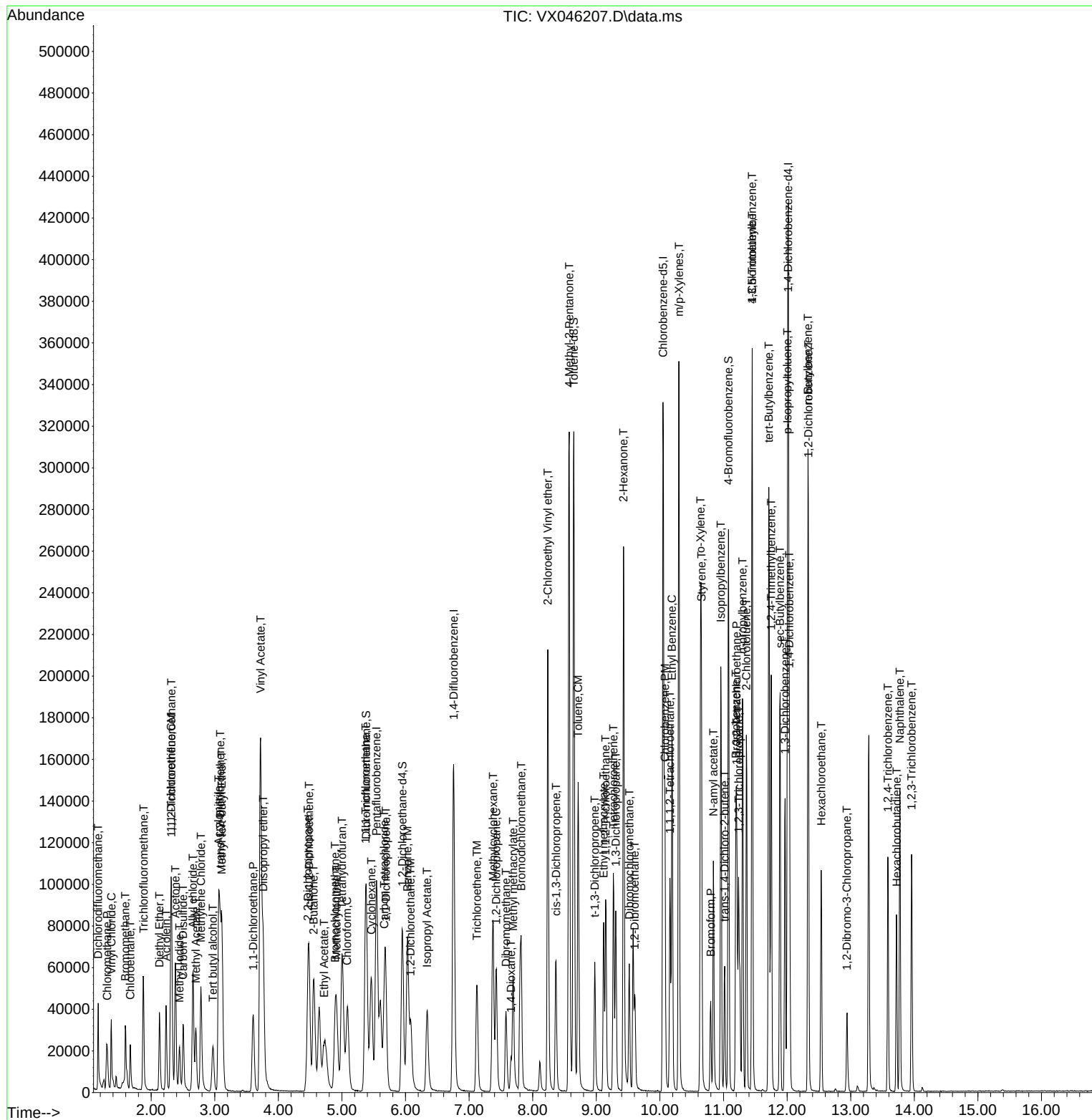
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046207.D
Acq On : 15 May 2025 12:38
Operator : JC/MD
Sample : VX0515WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0515WBSD01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/16/2025
Supervised By : Mahesh Dadoda 05/16/2025

Quant Time: May 16 01:04:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.25 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022348.D	1		05/20/25 17:19	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	57.1		1.20	5.40	ug/Kg
74-87-3	Chloromethane	48.6		1.20	5.40	ug/Kg
75-01-4	Vinyl Chloride	62.4		0.85	5.40	ug/Kg
74-83-9	Bromomethane	60.4		1.20	5.40	ug/Kg
75-00-3	Chloroethane	69.2		1.40	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	59.5		1.30	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	59.9		1.10	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	57.7		1.10	5.40	ug/Kg
67-64-1	Acetone	450		5.10	27.0	ug/Kg
75-15-0	Carbon Disulfide	54.6		1.10	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	61.7		0.79	5.40	ug/Kg
79-20-9	Methyl Acetate	90.7		1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	52.5		3.80	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	55.5		0.93	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	54.3		0.86	5.40	ug/Kg
110-82-7	Cyclohexane	51.5		0.85	5.40	ug/Kg
78-93-3	2-Butanone	320		7.10	27.0	ug/Kg
56-23-5	Carbon Tetrachloride	53.0		1.00	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	55.9		0.81	5.40	ug/Kg
74-97-5	Bromochloromethane	56.3		1.20	5.40	ug/Kg
67-66-3	Chloroform	56.5		0.91	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	56.0		1.00	5.40	ug/Kg
108-87-2	Methylcyclohexane	53.8		0.98	5.40	ug/Kg
71-43-2	Benzene	52.4		0.85	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	57.5		0.85	5.40	ug/Kg
79-01-6	Trichloroethene	53.7		0.87	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	52.7		0.98	5.40	ug/Kg
75-27-4	Bromodichloromethane	55.0		0.84	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	300		3.90	27.0	ug/Kg
108-88-3	Toluene	52.1		0.84	5.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.25 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022348.D	1		05/20/25 17:19	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	53.8		0.70	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	52.5		0.67	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	61.0		0.99	5.40	ug/Kg
591-78-6	2-Hexanone	290		4.00	27.0	ug/Kg
124-48-1	Dibromochloromethane	57.2		0.94	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	61.7		0.95	5.40	ug/Kg
127-18-4	Tetrachloroethene	51.0		1.10	5.40	ug/Kg
108-90-7	Chlorobenzene	48.5		0.98	5.40	ug/Kg
100-41-4	Ethyl Benzene	47.9		0.72	5.40	ug/Kg
179601-23-1	m/p-Xylenes	95.8		1.30	10.8	ug/Kg
95-47-6	o-Xylene	47.9		0.88	5.40	ug/Kg
100-42-5	Styrene	47.4		0.77	5.40	ug/Kg
75-25-2	Bromoform	54.0		0.93	5.40	ug/Kg
98-82-8	Isopropylbenzene	48.3		0.84	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	57.4		1.30	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	45.0		1.80	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	45.8		1.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	48.0		1.60	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	57.0		2.00	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	40.4		3.20	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	42.3		3.40	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	66.5		63 - 155	133%	SPK: 50
1868-53-7	Dibromofluoromethane	60.6		70 - 134	121%	SPK: 50
2037-26-5	Toluene-d8	59.2		74 - 123	118%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		38 - 136	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98600	7.707			
540-36-3	1,4-Difluorobenzene	171000	8.616			
3114-55-4	Chlorobenzene-d5	154000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	73500	13.346			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.25 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022348.D	1		05/20/25 17:19	VY052025

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_Y\Data\VY052025\
 Data File : VY022348.D
 Acq On : 20 May 2025 17:19
 Operator : SY/MD
 Sample : Q2032-05MS
 Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24MS

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:53:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	98597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	170765	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	154458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	73453	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	71710	66.548	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.100%			
35) Dibromofluoromethane	7.634	113	61790	60.624	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 121.240%			
50) Toluene-d8	10.103	98	247206	59.221	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 118.440%			
62) 4-Bromofluorobenzene	12.401	95	75384	56.975	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 113.940%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	54451	52.926	ug/l	97
3) Chloromethane	2.068	50	97533	45.067	ug/l	96
4) Vinyl Chloride	2.202	62	139909	57.863	ug/l	97
5) Bromomethane	2.592	94	110318	56.047	ug/l	99
6) Chloroethane	2.732	64	96479	64.138	ug/l	100
7) Trichlorofluoromethane	3.056	101	135035	55.160	ug/l	97
8) Diethyl Ether	3.452	74	31820	54.162	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	59072	55.583	ug/l	97
10) Methyl Iodide	4.000	142	61911	50.332	ug/l	98
11) Tert butyl alcohol	4.866	59	25328	307.799	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	56454	53.528	ug/l	96
13) Acrolein	3.653	56	15045	125.066	ug/l	96
14) Allyl chloride	4.378	41	83633	45.225	ug/l	95
15) Acrylonitrile	5.061	53	77737	321.126	ug/l	98
16) Acetone	3.872	43	84549	418.451	ug/l	93
17) Carbon Disulfide	4.104	76	174294	50.680	ug/l	99
18) Methyl Acetate	4.385	43	53620	84.169	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	166440	57.235	ug/l	96
20) Methylene Chloride	4.616	84	63571	48.691	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	59970	51.516	ug/l	91
22) Diisopropyl ether	6.018	45	190926	48.890	ug/l	99
23) Vinyl Acetate	5.957	43	460119	195.025	ug/l	98
24) 1,1-Dichloroethane	5.915	63	109906	50.375	ug/l	99
25) 2-Butanone	6.890	43	100929	298.629	ug/l	99
26) 2,2-Dichloropropane	6.884	77	93246	48.052	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	69636	51.837	ug/l	96
28) Bromochloromethane	7.244	49	48596	52.219	ug/l	95
29) Tetrahydrofuran	7.256	42	65288	300.262	ug/l	95
30) Chloroform	7.421	83	109572	52.359	ug/l	99
31) Cyclohexane	7.695	56	104140	47.773	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	99747	51.953	ug/l	99
36) 1,1-Dichloropropene	7.835	75	82963	49.419	ug/l	99
37) Ethyl Acetate	6.982	43	45218	55.980	ug/l	98
38) Carbon Tetrachloride	7.817	117	85388	49.137	ug/l	99
39) Methylcyclohexane	9.103	83	112611	49.929	ug/l	94
40) Benzene	8.079	78	242026	48.631	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022348.D
 Acq On : 20 May 2025 17:19
 Operator : SY/MD
 Sample : Q2032-05MS
 Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24MS

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:53:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	22626	42.228	ug/l #	72
42) 1,2-Dichloroethane	8.158	62	71794	53.345	ug/l	97
43) Isopropyl Acetate	8.195	43	94849	53.843	ug/l	97
44) Trichloroethene	8.865	130	61675	49.840	ug/l	93
45) 1,2-Dichloropropane	9.140	63	58623	48.858	ug/l	99
46) Dibromomethane	9.231	93	35782	55.291	ug/l	98
47) Bromodichloromethane	9.420	83	85593	50.982	ug/l	96
48) Methyl methacrylate	9.219	41	42936	52.118	ug/l	92
49) 1,4-Dioxane	9.237	88	9123	1247.863	ug/l #	89
51) 4-Methyl-2-Pentanone	9.993	43	239701	277.314	ug/l	97
52) Toluene	10.170	92	152272	48.318	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	81763	49.903	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	91494	48.740	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	46854	56.539	ug/l	97
56) Ethyl methacrylate	10.438	69	69278	53.668	ug/l	97
57) 1,3-Dichloropropane	10.713	76	81165	55.125	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	166099	286.673	ug/l	99
59) 2-Hexanone	10.761	43	157385	271.568	ug/l	95
60) Dibromochloromethane	10.908	129	57057	53.046	ug/l	99
61) 1,2-Dibromoethane	11.011	107	44187	57.209	ug/l	99
64) Tetrachloroethene	10.646	164	67556	47.319	ug/l	97
65) Chlorobenzene	11.438	112	156693	44.966	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	55417	46.258	ug/l	99
67) Ethyl Benzene	11.517	91	289818	44.408	ug/l	98
68) m/p-Xylenes	11.627	106	218571	88.880	ug/l	98
69) o-Xylene	11.956	106	103265	44.383	ug/l	98
70) Styrene	11.969	104	172431	43.934	ug/l	98
71) Bromoform	12.133	173	32396	50.101	ug/l #	99
73) Isopropylbenzene	12.255	105	272467	44.775	ug/l	100
74) N-amyl acetate	12.066	43	70724	40.637	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	49803	53.217	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	37502m	50.395	ug/l	
77) Bromobenzene	12.529	156	59041	45.427	ug/l	100
78) n-propylbenzene	12.590	91	324607	44.225	ug/l	100
79) 2-Chlorotoluene	12.676	91	173702	43.064	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	212718	43.304	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	16984	46.234	ug/l	100
82) 4-Chlorotoluene	12.773	91	175161	42.219	ug/l	99
83) tert-Butylbenzene	12.999	119	200289	45.874	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	210512	43.171	ug/l	98
85) sec-Butylbenzene	13.176	105	294440	45.431	ug/l	99
86) p-Isopropyltoluene	13.291	119	236452	43.379	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	110665	41.710	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	108417	42.481	ug/l	99
89) n-Butylbenzene	13.615	91	215787	41.845	ug/l	100
90) Hexachloroethane	13.877	117	48695	44.255	ug/l	94
91) 1,2-Dichlorobenzene	13.657	146	99142	44.486	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7985	52.912	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	48226	37.462	ug/l	99
94) Hexachlorobutadiene	15.023	225	28085	39.121	ug/l	97
95) Naphthalene	15.145	128	116441	47.665	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	42800	39.191	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022348.D
Acq On : 20 May 2025 17:19
Operator : SY/MD
Sample : Q2032-05MS
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24MS

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:53:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

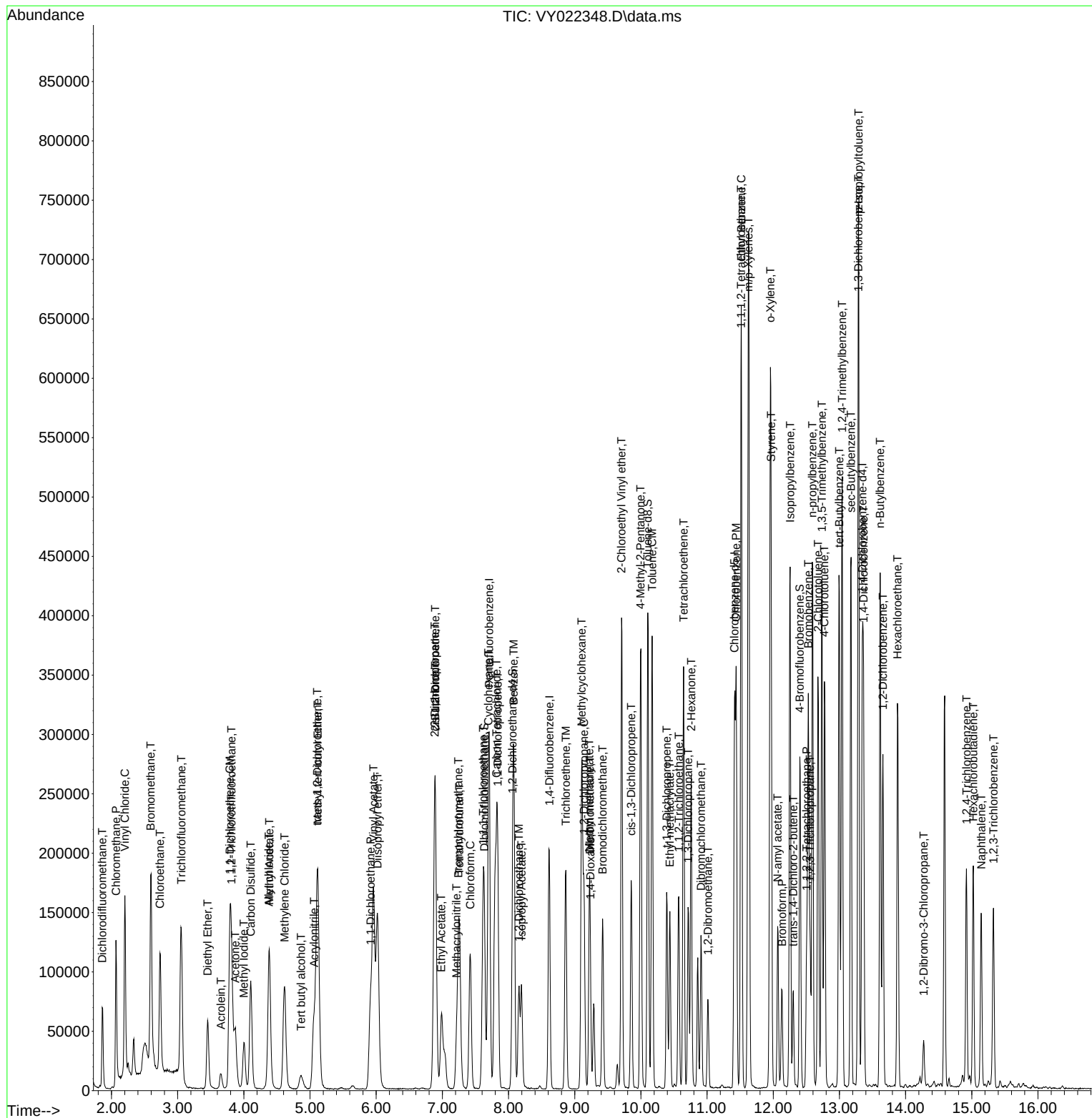
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022348.D
Acq On : 20 May 2025 17:19
Operator : SY/MD
Sample : Q2032-05MS
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24MS

Quant Time: May 21 01:53:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025



Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.23 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022349.D	1		05/20/25 17:41	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	67.9		1.20	5.40	ug/Kg
74-87-3	Chloromethane	45.9		1.20	5.40	ug/Kg
75-01-4	Vinyl Chloride	72.2		0.85	5.40	ug/Kg
74-83-9	Bromomethane	40.4		1.20	5.40	ug/Kg
75-00-3	Chloroethane	68.0		1.40	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	57.0		1.30	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	80.3		1.10	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	68.0		1.10	5.40	ug/Kg
67-64-1	Acetone	500		5.10	27.0	ug/Kg
75-15-0	Carbon Disulfide	57.7		1.10	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	47.0		0.79	5.40	ug/Kg
79-20-9	Methyl Acetate	120		1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	40.2		3.80	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	52.0		0.93	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	46.5		0.87	5.40	ug/Kg
110-82-7	Cyclohexane	66.4		0.85	5.40	ug/Kg
78-93-3	2-Butanone	330		7.10	27.0	ug/Kg
56-23-5	Carbon Tetrachloride	76.2		1.00	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	45.5		0.81	5.40	ug/Kg
74-97-5	Bromochloromethane	45.9		1.20	5.40	ug/Kg
67-66-3	Chloroform	44.4		0.91	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	60.7		1.00	5.40	ug/Kg
108-87-2	Methylcyclohexane	81.2		0.98	5.40	ug/Kg
71-43-2	Benzene	53.7		0.85	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	51.3		0.85	5.40	ug/Kg
79-01-6	Trichloroethene	61.5		0.88	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	49.9		0.98	5.40	ug/Kg
75-27-4	Bromodichloromethane	48.3		0.84	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	320		3.90	27.0	ug/Kg
108-88-3	Toluene	49.3		0.84	5.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.23 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022349.D	1		05/20/25 17:41	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	42.8		0.70	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	40.9		0.67	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	56.7		1.00	5.40	ug/Kg
591-78-6	2-Hexanone	290		4.00	27.0	ug/Kg
124-48-1	Dibromochloromethane	46.4		0.94	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	52.9		0.95	5.40	ug/Kg
127-18-4	Tetrachloroethene	73.6		1.10	5.40	ug/Kg
108-90-7	Chlorobenzene	53.7		0.98	5.40	ug/Kg
100-41-4	Ethyl Benzene	58.8		0.72	5.40	ug/Kg
179601-23-1	m/p-Xylenes	110		1.30	10.8	ug/Kg
95-47-6	o-Xylene	55.0		0.89	5.40	ug/Kg
100-42-5	Styrene	43.6		0.77	5.40	ug/Kg
75-25-2	Bromoform	54.0		0.93	5.40	ug/Kg
98-82-8	Isopropylbenzene	77.5		0.84	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	81.8		1.30	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	46.9		1.80	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	44.4		1.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	47.3		1.60	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	62.1		2.00	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	24.3		3.20	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	22.1		3.40	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.0		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	52.1		74 - 123	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		38 - 136	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	16200	7.707			
540-36-3	1,4-Difluorobenzene	22600	8.616			
3114-55-4	Chlorobenzene-d5	16000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	6320	13.347			

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	74.2
Sample Wt/Vol:	6.23 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022349.D	1		05/20/25 17:41	VY052025

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_Y\Data\VY052025\
 Data File : VY022349.D
 Acq On : 20 May 2025 17:41
 Operator : SY/MD
 Sample : Q2032-06MSD
 Misc : 6.23g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24MSD

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	16153	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	22646	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	16045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	6318	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	8294	46.982	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	93.960%	
35) Dibromofluoromethane	7.634	113	6826	50.501	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	101.000%	
50) Toluene-d8	10.103	98	28858	52.130	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	104.260%	
62) 4-Bromofluorobenzene	12.408	95	7351	41.895	ug/l	0.00
Spiked Amount 50.000	Range 30	- 143	Recovery	=	83.780%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	10576	62.747	ug/l	95
3) Chloromethane	2.068	50	15048	42.442	ug/l	95
4) Vinyl Chloride	2.202	62	26429	66.719	ug/l	100
5) Bromomethane	2.598	94	12046	37.356	ug/l	96
6) Chloroethane	2.739	64	15500	62.896	ug/l	96
7) Trichlorofluoromethane	3.056	101	21134	52.695	ug/l	99
8) Diethyl Ether	3.446	74	4070	42.286	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.806	101	12921	74.211	ug/l	97
10) Methyl Iodide	3.995	142	11297	56.060	ug/l	98
11) Tert butyl alcohol	4.842	59	4804	356.353	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	10869	62.906	ug/l	91
13) Acrolein	3.647	56	2482	125.939	ug/l	86
14) Allyl chloride	4.379	41	11650	38.454	ug/l	93
15) Acrylonitrile	5.049	53	11901	300.084	ug/l	96
16) Acetone	3.854	43	15288	461.846	ug/l	99
17) Carbon Disulfide	4.104	76	30044	53.323	ug/l	96
18) Methyl Acetate	4.379	43	11502	110.206	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	20723	43.498	ug/l	94
20) Methylene Chloride	4.610	84	7940	37.121	ug/l	87
21) trans-1,2-Dichloroethene	5.110	96	9176	48.114	ug/l	90
22) Diisopropyl ether	6.025	45	21616	33.786	ug/l	97
23) Vinyl Acetate	5.964	43	36533m	94.519	ug/l	
24) 1,1-Dichloroethane	5.909	63	15360	42.973	ug/l #	91
25) 2-Butanone	6.896	43	16846	304.245	ug/l	94
26) 2,2-Dichloropropane	6.890	77	16228	51.045	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	9267	42.107	ug/l	98
28) Bromochloromethane	7.244	49	6476	42.476	ug/l	98
29) Tetrahydrofuran	7.262	42	11083	311.125	ug/l	93
30) Chloroform	7.421	83	14078	41.062	ug/l	94
31) Cyclohexane	7.701	56	21939	61.432	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	17639	56.078	ug/l	99
36) 1,1-Dichloropropene	7.841	75	14864	66.765	ug/l	97
37) Ethyl Acetate	6.982	43	5897	55.051	ug/l #	90
38) Carbon Tetrachloride	7.817	117	16234	70.445	ug/l	88
39) Methylcyclohexane	9.103	83	22450	75.057	ug/l	94
40) Benzene	8.079	78	32761	49.638	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022349.D
 Acq On : 20 May 2025 17:41
 Operator : SY/MD
 Sample : Q2032-06MSD
 Misc : 6.23g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-24MSD

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	4410	62.063	ug/l #	68
42) 1,2-Dichloroethane	8.158	62	8464	47.423	ug/l	99
43) Isopropyl Acetate	8.195	43	12549	53.717	ug/l	97
44) Trichloroethene	8.866	130	9336	56.890	ug/l	97
45) 1,2-Dichloropropane	9.140	63	7344	46.154	ug/l	89
46) Dibromomethane	9.225	93	4390	51.152	ug/l	97
47) Bromodichloromethane	9.420	83	9943	44.659	ug/l	94
48) Methyl methacrylate	9.219	41	5980	54.736	ug/l	96
49) 1,4-Dioxane	9.219	88	1721	1775.079	ug/l	95
51) 4-Methyl-2-Pentanone	9.993	43	33849	295.294	ug/l	97
52) Toluene	10.170	92	19038	45.553	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	8593	39.548	ug/l	93
54) cis-1,3-Dichloropropene	9.853	75	9418	37.832	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	5756	52.376	ug/l	90
56) Ethyl methacrylate	10.439	69	7975	46.586	ug/l	95
57) 1,3-Dichloropropane	10.713	76	9586	49.093	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	18139	236.070	ug/l	98
59) 2-Hexanone	10.762	43	20675	269.010	ug/l	97
60) Dibromochloromethane	10.914	129	6117	42.883	ug/l	100
61) 1,2-Dibromoethane	11.012	107	5012	48.932	ug/l	97
64) Tetrachloroethene	10.646	164	10095	68.069	ug/l	89
65) Chlorobenzene	11.438	112	17975	49.656	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	5931	47.659	ug/l	95
67) Ethyl Benzene	11.518	91	36875	54.393	ug/l	95
68) m/p-Xylenes	11.633	106	26611	104.170	ug/l	95
69) o-Xylene	11.957	106	12285	50.829	ug/l	90
70) Styrene	11.969	104	16436	40.314	ug/l	96
71) Bromoform	12.133	173	3353	49.918	ug/l #	99
73) Isopropylbenzene	12.255	105	37516	71.675	ug/l	99
74) N-amyl acetate	12.072	43	2552	17.048	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.505	83	6089	75.643	ug/l	94
76) 1,2,3-Trichloropropane	12.554	75	3767m	58.852	ug/l	
77) Bromobenzene	12.530	156	5816	52.026	ug/l	94
78) n-propylbenzene	12.597	91	42156	66.772	ug/l	98
79) 2-Chlorotoluene	12.682	91	19408	55.939	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	25630	60.660	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	1224	38.738	ug/l	93
82) 4-Chlorotoluene	12.773	91	17538	49.145	ug/l	95
83) tert-Butylbenzene	12.999	119	26015	69.274	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	21900	52.214	ug/l	96
85) sec-Butylbenzene	13.176	105	39635	71.099	ug/l	100
86) p-Isopropyltoluene	13.292	119	28766	61.354	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	9902	43.389	ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	9009	41.040	ug/l	100
89) n-Butylbenzene	13.621	91	25111	56.613	ug/l	98
90) Hexachloroethane	13.877	117	4873	51.488	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	8375	43.690	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.279	75	745	57.394	ug/l	83
93) 1,2,4-Trichlorobenzene	14.926	180	2487	22.460	ug/l	95
94) Hexachlorobutadiene	15.023	225	2736	44.308	ug/l	97
95) Naphthalene	15.145	128	5908	28.116	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	1923	20.472	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022349.D
Acq On : 20 May 2025 17:41
Operator : SY/MD
Sample : Q2032-06MSD
Misc : 6.23g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-24MSD

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Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:54:23 2025
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Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

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

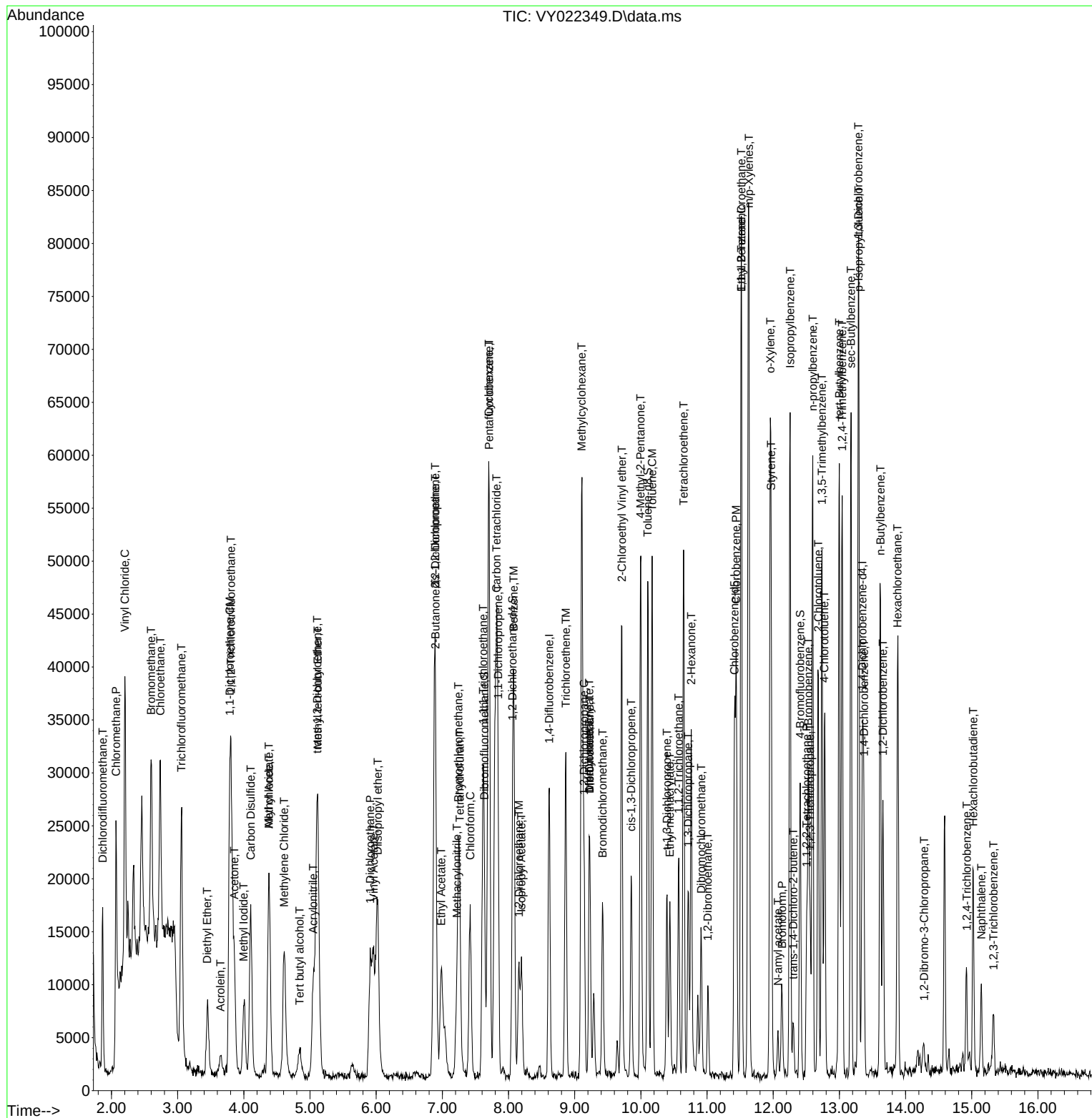
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022349.D
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Manual Integrations

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	vn051625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN086661.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:32:47 AM	MMDadoda	5/19/2025 2:39:59 PM	Peak Integrated by Software
VSTDCCC020	VN086667.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:01 AM	MMDadoda	5/19/2025 2:40:37 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	1,4-Dichlorobenzene	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	Isopropyl Acetate	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	Ethyl Acetate	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	Vinyl Acetate	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC010	VN086671.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:17 AM	MMDadoda	5/19/2025 2:40:45 PM	Peak Integrated by Software
VSTDICC010	VN086671.D	Vinyl Acetate	JOHN	5/19/2025 9:33:17 AM	MMDadoda	5/19/2025 2:40:45 PM	Peak Integrated by Software
VSTDICC020	VN086672.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:24 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICCC050	VN086673.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:44 AM	MMDadoda	5/19/2025 2:40:38 PM	Peak Integrated by Software
VSTDICC100	VN086674.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:48 AM	MMDadoda	5/19/2025 2:40:42 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn051625

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN086676.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:53 AM	MMDadoda	5/19/2025 2:40:47 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN052125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086722.D	1,2,3-Trichloropropane	JOHN	5/22/2025 7:50:47 AM	MMDadoda	5/22/2025 8:23:56 AM	Peak Integrated by Software
VN0521MBS01	VN086725.D	1,2,3-Trichloropropane	JOHN	5/22/2025 7:50:51 AM	MMDadoda	5/22/2025 8:23:56 AM	Peak Integrated by Software
VSTDCCC050	VN086748.D	1,2,3-Trichloropropane	JOHN	5/22/2025 7:51:25 AM	MMDadoda	5/22/2025 8:24:09 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX050525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VX046041.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:13 AM	MMDadoda	5/6/2025 12:42:46 PM	Peak Integrated by Software
VSTDICCC050	VX046042.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:18 AM	MMDadoda	5/6/2025 12:42:48 PM	Peak Integrated by Software
VSTDICC100	VX046043.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:22 AM	MMDadoda	5/6/2025 12:42:50 PM	Peak Integrated by Software
VSTDICC150	VX046044.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:27 AM	MMDadoda	5/6/2025 12:42:53 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	Ethyl Acetate	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,4-Dichlorobenzene	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Bromochloromethane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Ethyl Acetate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Methyl methacrylate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICV050	VX046048.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:45 AM	MMDadoda	5/6/2025 12:41:37 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

VX050525

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VX051525

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046200.D	1,2,3-Trichloropropane	sam	5/16/2025 8:30:42 AM	MMDadoda	5/16/2025 11:49:28 AM	Peak Integrated by Software
VX0515WBS01	VX046206.D	1,2,3-Trichloropropane	sam	5/16/2025 8:30:44 AM	MMDadoda	5/16/2025 11:49:29 AM	Peak Integrated by Software
VX0515WBSD01	VX046207.D	1,2,3-Trichloropropane	sam	5/16/2025 8:30:46 AM	MMDadoda	5/16/2025 11:49:31 AM	Peak Integrated by Software
VX0515WBSD01	VX046207.D	Methacrylonitrile	sam	5/16/2025 8:30:46 AM	MMDadoda	5/16/2025 11:49:31 AM	Peak Integrated by Software
VSTDCCC050	VX046226.D	1,2,3-Trichloropropane	sam	5/16/2025 8:30:49 AM	MMDadoda	5/16/2025 11:49:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY051525

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY051625

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022277.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:38:54 PM	Sam	5/19/2025 2:44:19 PM	Peak Integrated by Software
VY0516SBS01	VY022279.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:38:56 PM	Sam	5/19/2025 2:44:20 PM	Peak Integrated by Software
VY0516SBS01	VY022279.D	Methacrylonitrile	MMDadoda	5/19/2025 2:38:56 PM	Sam	5/19/2025 2:44:20 PM	Peak Integrated by Software
VSTDCCC050	VY022301.D	1,2,3-Trichloropropane	MMDadoda	5/19/2025 2:39:03 PM	Sam	5/19/2025 2:44:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vy052025

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022329.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:03 PM	Sam	5/21/2025 3:55:05 PM	Peak Integrated by Software
VSTDCCC050	VY022329.D	Methacrylonitrile	MMDadod a	5/21/2025 3:43:03 PM	Sam	5/21/2025 3:55:05 PM	Peak Integrated by Software
VY0520SBS01	VY022331.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:06 PM	Sam	5/21/2025 3:55:08 PM	Peak Integrated by Software
Q2032-05MS	VY022348.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:10 PM	Sam	5/21/2025 3:55:10 PM	Peak Integrated by Software
Q2032-06MSD	VY022349.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:14 PM	Sam	5/21/2025 3:55:13 PM	Peak Integrated by Software
Q2032-06MSD	VY022349.D	Vinyl Acetate	MMDadod a	5/21/2025 3:43:14 PM	Sam	5/21/2025 3:55:13 PM	Peak Integrated by Software
VSTDCCC050	VY022352.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:22 PM	Sam	5/21/2025 3:55:19 PM	Peak Integrated by Software
VSTDCCC050	VY022352.D	Methacrylonitrile	MMDadod a	5/21/2025 3:43:22 PM	Sam	5/21/2025 3:55:19 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN051625

Review By	John Carlone	Review On	5/19/2025 9:34:08 AM
Supervise By	Maresh Dadoda	Supervise On	5/19/2025 2:40:58 PM
SubDirectory	VN051625	HP Acquire Method	HP Processing Method 624N042325W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133946,VP133952		
CCC Internal Standard/PEM	VP133947,VP133948		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133981		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086660.D	16 May 2025 09:17	JC\MD	Ok
2	VSTDCCC020	VN086661.D	16 May 2025 11:37	JC\MD	Ok,M
3	VN0516WBS01	VN086662.D	16 May 2025 12:13	JC\MD	Ok,M
4	VN0516WBSD01	VN086663.D	16 May 2025 12:46	JC\MD	Ok,M
5	VN0516WBL01	VN086664.D	16 May 2025 13:20	JC\MD	Ok
6	Q2006-01	VN086665.D	16 May 2025 13:54	JC\MD	Ok
7	IBLK	VN086666.D	16 May 2025 14:46	JC\MD	Ok
8	VSTDCCC020	VN086667.D	16 May 2025 15:09	JC\MD	Ok,M
9	BFB	VN086668.D	16 May 2025 15:33	JC\MD	Ok
10	VSTDICC001	VN086669.D	16 May 2025 16:31	JC\MD	Ok,M
11	VSTDICC005	VN086670.D	16 May 2025 16:55	JC\MD	Ok,M
12	VSTDICC010	VN086671.D	16 May 2025 17:19	JC\MD	Ok,M
13	VSTDICC020	VN086672.D	16 May 2025 17:43	JC\MD	Ok,M
14	VSTDICCC050	VN086673.D	16 May 2025 18:08	JC\MD	Ok,M
15	VSTDICC100	VN086674.D	16 May 2025 18:32	JC\MD	Ok,M
16	IBLK	VN086675.D	16 May 2025 18:56	JC\MD	Ok
17	VSTDICV050	VN086676.D	16 May 2025 19:20	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN052125

Review By	John Carlone	Review On	5/22/2025 8:01:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/22/2025 8:24:13 AM
SubDirectory	VN052125	HP Acquire Method	HP Processing Method 82N051625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133982		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133983,VP133984		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086721.D	21 May 2025 10:37	JC\MD	Ok
2	VSTDCCC050	VN086722.D	21 May 2025 11:10	JC\MD	Ok,M
3	VN0521MBL01	VN086723.D	21 May 2025 11:44	JC\MD	Ok
4	VN0521WBL01	VN086724.D	21 May 2025 12:08	JC\MD	Ok
5	VN0521MBS01	VN086725.D	21 May 2025 12:32	JC\MD	Ok,M
6	VN0521WBS01	VN086726.D	21 May 2025 13:05	JC\MD	Ok,M
7	Q2068-01	VN086727.D	21 May 2025 13:29	JC\MD	Not Ok
8	VN0521WBSD01	VN086728.D	21 May 2025 13:53	JC\MD	Ok,M
9	Q2068-01	VN086729.D	21 May 2025 14:17	JC\MD	Ok
10	PB168093TB	VN086730.D	21 May 2025 14:41	JC\MD	Ok
11	Q2078-05	VN086731.D	21 May 2025 15:05	JC\MD	Dilution
12	Q2078-09	VN086732.D	21 May 2025 15:29	JC\MD	ReRun
13	Q2078-13	VN086733.D	21 May 2025 15:53	JC\MD	Ok
14	Q2078-17	VN086734.D	21 May 2025 16:18	JC\MD	Ok
15	Q2079-01	VN086735.D	21 May 2025 16:42	JC\MD	ReRun
16	Q2079-05	VN086736.D	21 May 2025 17:06	JC\MD	ReRun
17	Q2079-09	VN086737.D	21 May 2025 17:30	JC\MD	Ok
18	Q2084-05	VN086738.D	21 May 2025 17:54	JC\MD	Ok
19	Q2092-02	VN086739.D	21 May 2025 18:18	JC\MD	Ok
20	Q2093-02	VN086740.D	21 May 2025 18:42	JC\MD	Ok
21	Q2095-04	VN086741.D	21 May 2025 19:06	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN052125

Review By	John Carlone	Review On	5/22/2025 8:01:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/22/2025 8:24:13 AM
SubDirectory	VN052125	HP Acquire Method	HP Processing Method 82N051625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133982		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133983,VP133984		

22	Q2095-08	VN086742.D	21 May 2025 19:31	JC\MD	Ok,M
23	Q2078-01	VN086743.D	21 May 2025 19:54	JC\MD	ReRun
24	Q2032-01ME	VN086744.D	21 May 2025 20:18	JC\MD	Ok
25	Q2075-06ME	VN086745.D	21 May 2025 20:42	JC\MD	Not Ok
26	Q2071-19DL	VN086746.D	21 May 2025 21:06	JC\MD	Ok
27	VN0521MBS01	VN086747.D	21 May 2025 21:30	JC\MD	Not Ok
28	VSTDCCC050	VN086748.D	21 May 2025 21:54	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM
Supervise By	Maresh Dadoda	Supervise On	5/6/2025 12:43:00 PM
SubDirectory	VX050525	HP Acquire Method	HP Processing Method 82X050525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133811		
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP133838		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046038.D	05 May 2025 09:37	JC/MD	Ok
2	VSTDIC001	VX046039.D	05 May 2025 10:49	JC/MD	Not Ok
3	VSTDIC005	VX046040.D	05 May 2025 11:12	JC/MD	Not Ok
4	VSTDIC020	VX046041.D	05 May 2025 11:35	JC/MD	Ok,M
5	VSTDIC050	VX046042.D	05 May 2025 11:58	JC/MD	Ok,M
6	VSTDIC100	VX046043.D	05 May 2025 12:21	JC/MD	Ok,M
7	VSTDIC150	VX046044.D	05 May 2025 12:45	JC/MD	Ok,M
8	IBLK	VX046045.D	05 May 2025 13:08	JC/MD	Ok
9	VSTDIC005	VX046046.D	05 May 2025 16:04	JC/MD	Ok,M
10	VSTDIC001	VX046047.D	05 May 2025 16:27	JC/MD	Ok,M
11	VSTDICV050	VX046048.D	05 May 2025 16:50	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX051525

Review By	John Carlone	Review On	5/16/2025 9:22:10 AM
Supervise By	Maresh Dadoda	Supervise On	5/16/2025 11:49:40 AM
SubDirectory	VX051525	HP Acquire Method	HP Processing Method 82X050525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133928		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133929,VP133930		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046199.D	15 May 2025 08:47	JC/MD	Ok
2	VSTDCCC050	VX046200.D	15 May 2025 09:52	JC/MD	Ok,M
3	VX0515MBL01	VX046201.D	15 May 2025 10:15	JC/MD	Ok
4	VX0515WBL01	VX046202.D	15 May 2025 10:38	JC/MD	Ok
5	Q2018-06	VX046203.D	15 May 2025 11:01	JC/MD	Ok
6	Q2032-11	VX046204.D	15 May 2025 11:25	JC/MD	Ok
7	Q2032-12	VX046205.D	15 May 2025 11:48	JC/MD	Ok
8	VX0515WBS01	VX046206.D	15 May 2025 12:11	JC/MD	Ok,M
9	VX0515WBSD01	VX046207.D	15 May 2025 12:38	JC/MD	Ok,M
10	Q2050-02	VX046208.D	15 May 2025 13:01	JC/MD	Ok
11	Q2050-01	VX046209.D	15 May 2025 13:24	JC/MD	Ok
12	Q2050-08	VX046210.D	15 May 2025 13:47	JC/MD	Ok
13	Q2050-03	VX046211.D	15 May 2025 14:11	JC/MD	Ok
14	Q2050-04	VX046212.D	15 May 2025 14:34	JC/MD	Ok
15	Q2050-05	VX046213.D	15 May 2025 14:58	JC/MD	Ok
16	Q2050-06	VX046214.D	15 May 2025 15:21	JC/MD	Ok
17	Q2050-07	VX046215.D	15 May 2025 15:44	JC/MD	Ok
18	Q2050-09	VX046216.D	15 May 2025 16:08	JC/MD	Ok
19	Q2019-04	VX046217.D	15 May 2025 16:31	JC/MD	Ok
20	Q2034-16	VX046218.D	15 May 2025 16:54	JC/MD	Ok
21	Q2034-20	VX046219.D	15 May 2025 17:18	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX051525

Review By	John Carlone	Review On	5/16/2025 9:22:10 AM
Supervise By	Mahesh Dadoda	Supervise On	5/16/2025 11:49:40 AM
SubDirectory	VX051525	HP Acquire Method	HP Processing Method 82X050525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133928		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133929,VP133930		

22	Q2032-09	VX046220.D	15 May 2025 17:41	JC/MD	Ok
23	Q2034-04	VX046221.D	15 May 2025 18:04	JC/MD	Ok
24	Q2034-08	VX046222.D	15 May 2025 18:28	JC/MD	Ok
25	Q2034-12	VX046223.D	15 May 2025 18:51	JC/MD	Ok
26	Q2038-02	VX046224.D	15 May 2025 19:15	JC/MD	Ok
27	Q2043-05	VX046225.D	15 May 2025 19:38	JC/MD	Ok
28	VSTDCCC050	VX046226.D	15 May 2025 20:01	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Maresh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133916			
Initial Calibration Stds		VP133918,VP133919,VP133920,VP133921,VP133922,VP133923			
CCC		VP133925			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133924			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Maresh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133916			
Initial Calibration Stds		VP133918,VP133919,VP133920,VP133921,VP133922,VP133923			
CCC		VP133925			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133924			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM		
Supervise By	Maresh Dadoda	Supervise On	5/19/2025 2:39:18 PM		
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133936			
CCC		VP133942,VP133943			
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	VY022276.D	16 May 2025 07:54	SY/MD	Ok
2	VSTDCCC050	VY022277.D	16 May 2025 08:24	SY/MD	Ok,M
3	VY0516SBL01	VY022278.D	16 May 2025 09:37	SY/MD	Ok
4	VY0516SBS01	VY022279.D	16 May 2025 10:09	SY/MD	Ok,M
5	VY0516SBSD01	VY022280.D	16 May 2025 10:32	SY/MD	Ok,M
6	Q1984-07RE	VY022281.D	16 May 2025 11:17	SY/MD	Confirms
7	Q1984-09	VY022282.D	16 May 2025 11:41	SY/MD	Ok
8	Q1984-11	VY022283.D	16 May 2025 12:04	SY/MD	Ok
9	Q1984-13	VY022284.D	16 May 2025 12:29	SY/MD	Ok
10	Q1984-15RE	VY022285.D	16 May 2025 12:54	SY/MD	Confirms
11	Q1982-01	VY022286.D	16 May 2025 13:17	SY/MD	Ok
12	Q1982-02	VY022287.D	16 May 2025 13:41	SY/MD	Ok
13	Q1982-03	VY022288.D	16 May 2025 14:04	SY/MD	Ok
14	Q1982-07	VY022289.D	16 May 2025 14:28	SY/MD	Ok
15	Q1982-08	VY022290.D	16 May 2025 14:51	SY/MD	Ok
16	Q2010-03	VY022291.D	16 May 2025 15:15	SY/MD	Ok
17	Q2010-04	VY022292.D	16 May 2025 15:38	SY/MD	Ok
18	Q2003-02	VY022293.D	16 May 2025 16:02	SY/MD	ReRun
19	Q2032-03	VY022294.D	16 May 2025 16:25	SY/MD	Ok
20	Q2032-04	VY022295.D	16 May 2025 16:48	SY/MD	Ok
21	Q2032-07	VY022296.D	16 May 2025 17:12	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM		
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133936			
CCC		VP133942,VP133943			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2032-08	VY022297.D	16 May 2025 17:35	SY/MD	Ok
23	Q1984-19	VY022298.D	16 May 2025 17:59	SY/MD	Ok
24	Q2032-05MS	VY022299.D	16 May 2025 18:21	SY/MD	Not Ok
25	Q2032-06MSD	VY022300.D	16 May 2025 18:44	SY/MD	Not Ok
26	VSTDCCC050	VY022301.D	16 May 2025 19:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133969			
CCC		VP133970,VP133971			
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	VY022328.D	20 May 2025 08:09	SY/MD	Ok
2	VSTDCCC050	VY022329.D	20 May 2025 08:40	SY/MD	Ok,M
3	VY0520SBL01	VY022330.D	20 May 2025 09:48	SY/MD	Ok
4	VY0520SBS01	VY022331.D	20 May 2025 10:21	SY/MD	Ok,M
5	VY0520SBSD01	VY022332.D	20 May 2025 10:43	SY/MD	Ok,M
6	Q2062-19	VY022333.D	20 May 2025 11:28	SY/MD	Ok
7	Q2062-23	VY022334.D	20 May 2025 11:51	SY/MD	Ok
8	Q2071-11	VY022335.D	20 May 2025 12:15	SY/MD	Ok
9	Q2056-02	VY022336.D	20 May 2025 12:38	SY/MD	Ok
10	Q2056-03	VY022337.D	20 May 2025 13:01	SY/MD	Ok
11	Q2056-04	VY022338.D	20 May 2025 13:25	SY/MD	Ok
12	Q2056-05	VY022339.D	20 May 2025 13:48	SY/MD	Not Ok
13	Q2080-02	VY022340.D	20 May 2025 14:12	SY/MD	Ok
14	Q2080-08	VY022341.D	20 May 2025 14:35	SY/MD	Ok
15	Q2032-02	VY022342.D	20 May 2025 14:59	SY/MD	Ok
16	Q2075-01	VY022343.D	20 May 2025 15:22	SY/MD	Ok
17	Q2075-02	VY022344.D	20 May 2025 15:45	SY/MD	Ok
18	Q2075-03	VY022345.D	20 May 2025 16:09	SY/MD	Ok
19	Q2084-02	VY022346.D	20 May 2025 16:32	SY/MD	Ok
20	Q2032-01	VY022347.D	20 May 2025 16:56	SY/MD	Dilution
21	Q2032-05MS	VY022348.D	20 May 2025 17:19	SY/MD	Ok,M

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133969			
CCC		VP133970,VP133971			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2032-06MSD	VY022349.D	20 May 2025 17:41	SY/MD	Ok,M
23	Q2075-04MS	VY022350.D	20 May 2025 18:04	SY/MD	Ok,M
24	Q2075-05MSD	VY022351.D	20 May 2025 18:26	SY/MD	Ok,M
25	VSTDCCC050	VY022352.D	20 May 2025 19:34	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN051625

Review By	John Carlone	Review On	5/19/2025 9:34:08 AM
Supervise By	Maresh Dadoda	Supervise On	5/19/2025 2:40:58 PM
SubDirectory	VN051625	HP Acquire Method	HP Processing Method 624N042325W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133946,VP133952
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133947,VP133948 VP133981

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086660.D	16 May 2025 09:17		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN086661.D	16 May 2025 11:37	pH#Lot#V12668	JC\MD	Ok,M
3	VN0516WBS01	VN0516WBS01	VN086662.D	16 May 2025 12:13		JC\MD	Ok,M
4	VN0516WBSD01	VN0516WBSD01	VN086663.D	16 May 2025 12:46		JC\MD	Ok,M
5	VN0516WBL01	VN0516WBL01	VN086664.D	16 May 2025 13:20		JC\MD	Ok
6	Q2006-01	EFF-WW	VN086665.D	16 May 2025 13:54	vial A pH<2	JC\MD	Ok
7	IBLK	IBLK	VN086666.D	16 May 2025 14:46		JC\MD	Ok
8	VSTDCCC020	VSTDCCC020EC	VN086667.D	16 May 2025 15:09		JC\MD	Ok,M
9	BFB	BFB	VN086668.D	16 May 2025 15:33		JC\MD	Ok
10	VSTDICC001	VSTDICC001	VN086669.D	16 May 2025 16:31		JC\MD	Ok,M
11	VSTDICC005	VSTDICC005	VN086670.D	16 May 2025 16:55		JC\MD	Ok,M
12	VSTDICC010	VSTDICC010	VN086671.D	16 May 2025 17:19		JC\MD	Ok,M
13	VSTDICC020	VSTDICC020	VN086672.D	16 May 2025 17:43		JC\MD	Ok,M
14	VSTDICCC050	VSTDICCC050	VN086673.D	16 May 2025 18:08		JC\MD	Ok,M
15	VSTDICC100	VSTDICC100	VN086674.D	16 May 2025 18:32		JC\MD	Ok,M
16	IBLK	IBLK	VN086675.D	16 May 2025 18:56		JC\MD	Ok
17	VSTDICV050	ICVVN051625	VN086676.D	16 May 2025 19:20		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN052125

Review By	John Carlone	Review On	5/22/2025 8:01:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/22/2025 8:24:13 AM
SubDirectory	VN052125	HP Acquire Method	HP Processing Method 82N051625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133982
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133983,VP133984

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086721.D	21 May 2025 10:37		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086722.D	21 May 2025 11:10	pH#Lot#V12668	JC\MD	Ok,M
3	VN0521MBL01	VN0521MBL01	VN086723.D	21 May 2025 11:44		JC\MD	Ok
4	VN0521WBL01	VN0521WBL01	VN086724.D	21 May 2025 12:08		JC\MD	Ok
5	VN0521MBS01	VN0521MBS01	VN086725.D	21 May 2025 12:32		JC\MD	Ok,M
6	VN0521WBS01	VN0521WBS01	VN086726.D	21 May 2025 13:05		JC\MD	Ok,M
7	Q2068-01	LAW-25-0075	VN086727.D	21 May 2025 13:29	run straight MEOH	JC\MD	Not Ok
8	VN0521WBSD01	VN0521WBSD01	VN086728.D	21 May 2025 13:53		JC\MD	Ok,M
9	Q2068-01	LAW-25-0075	VN086729.D	21 May 2025 14:17		JC\MD	Ok
10	PB168093TB	PB168093TB	VN086730.D	21 May 2025 14:41		JC\MD	Ok
11	Q2078-05	WC-A4-05-G	VN086731.D	21 May 2025 15:05	vial A pH#5.0 Surrogate fail;Need 20X	JC\MD	Dilution
12	Q2078-09	WC-A1-06A-G	VN086732.D	21 May 2025 15:29	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
13	Q2078-13	WC-A1-07A-G	VN086733.D	21 May 2025 15:53	vial A pH#5.0	JC\MD	Ok
14	Q2078-17	WC-A4-06-G	VN086734.D	21 May 2025 16:18	vial A pH#5.0	JC\MD	Ok
15	Q2079-01	WC-A2-01-G	VN086735.D	21 May 2025 16:42	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
16	Q2079-05	WC-A2-02-G	VN086736.D	21 May 2025 17:06	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
17	Q2079-09	WC-A2-03-G	VN086737.D	21 May 2025 17:30	vial A pH#5.0	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN052125

Review By	John Carlone	Review On	5/22/2025 8:01:52 AM
Supervise By	Maresh Dadoda	Supervise On	5/22/2025 8:24:13 AM
SubDirectory	VN052125	HP Acquire Method	HP Processing Method 82N051625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133982		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133983,VP133984		

18	Q2084-05	OR-640-COMP-66	VN086738.D	21 May 2025 17:54	vial A pH#5.0	JC\MD	Ok
19	Q2092-02	VNJ-202	VN086739.D	21 May 2025 18:18	vial A pH#5.0	JC\MD	Ok
20	Q2093-02	SOIL-DRUM	VN086740.D	21 May 2025 18:42	vial A pH#5.0	JC\MD	Ok
21	Q2095-04	WCS-TP1	VN086741.D	21 May 2025 19:06	vial A pH#5.0	JC\MD	Ok
22	Q2095-08	WCS-TP2	VN086742.D	21 May 2025 19:31	vial A pH#5.0 RT Shifted	JC\MD	Ok,M
23	Q2078-01	WC-A4-04-G	VN086743.D	21 May 2025 19:54	vial A pH#5.0 Surrogate Fail	JC\MD	ReRun
24	Q2032-01ME	TP-11ME	VN086744.D	21 May 2025 20:18	vial C	JC\MD	Ok
25	Q2075-06ME	SS-MW1-11.5ME	VN086745.D	21 May 2025 20:42	Not Match	JC\MD	Not Ok
26	Q2071-19DL	L2-WC-6-VOC DL	VN086746.D	21 May 2025 21:06		JC\MD	Ok
27	VN0521MBS01	VN0521MBS01	VN086747.D	21 May 2025 21:30	Recovery failed	JC\MD	Not Ok
28	VSTDCCC050	VSTDCCC050EC	VN086748.D	21 May 2025 21:54		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:43:00 PM
SubDirectory	VX050525	HP Acquire Method	HP Processing Method 82X050525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133811		
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP133838		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046038.D	05 May 2025 09:37		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX046039.D	05 May 2025 10:49	Not used	JC/MD	Not Ok
3	VSTDIC005	VSTDIC005	VX046040.D	05 May 2025 11:12	Not used	JC/MD	Not Ok
4	VSTDIC020	VSTDIC020	VX046041.D	05 May 2025 11:35		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX046042.D	05 May 2025 11:58		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX046043.D	05 May 2025 12:21		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX046044.D	05 May 2025 12:45		JC/MD	Ok,M
8	IBLK	IBLK	VX046045.D	05 May 2025 13:08		JC/MD	Ok
9	VSTDIC005	VSTDIC005	VX046046.D	05 May 2025 16:04		JC/MD	Ok,M
10	VSTDIC001	VSTDIC001	VX046047.D	05 May 2025 16:27		JC/MD	Ok,M
11	VSTDICV050	ICVVX050525	VX046048.D	05 May 2025 16:50		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX051525

Review By	John Carlone	Review On	5/16/2025 9:22:10 AM
Supervise By	Maresh Dadoda	Supervise On	5/16/2025 11:49:40 AM
SubDirectory	VX051525	HP Acquire Method	HP Processing Method 82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133928
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133929,VP133930

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046199.D	15 May 2025 08:47		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046200.D	15 May 2025 09:52	pH#Lot#V12668	JC/MD	Ok,M
3	VX0515MBL01	VX0515MBL01	VX046201.D	15 May 2025 10:15		JC/MD	Ok
4	VX0515WBL01	VX0515WBL01	VX046202.D	15 May 2025 10:38		JC/MD	Ok
5	Q2018-06	FB	VX046203.D	15 May 2025 11:01	vial B pH<2 FB	JC/MD	Ok
6	Q2032-11	FB-05132025	VX046204.D	15 May 2025 11:25	vial B pH<2 FB	JC/MD	Ok
7	Q2032-12	TB	VX046205.D	15 May 2025 11:48	vial B pH<2 TB	JC/MD	Ok
8	VX0515WBS01	VX0515WBS01	VX046206.D	15 May 2025 12:11		JC/MD	Ok,M
9	VX0515WBSD01	VX0515WBSD01	VX046207.D	15 May 2025 12:38		JC/MD	Ok,M
10	Q2050-02	BP-VPB-182-GW-60-62	VX046208.D	15 May 2025 13:01	vial A pH<2	JC/MD	Ok
11	Q2050-01	BP-VPB-182-TB-20250	VX046209.D	15 May 2025 13:24	vial A pH<2 TB	JC/MD	Ok
12	Q2050-08	BP-VPB-182-EB-20250	VX046210.D	15 May 2025 13:47	vial A pH<2 EB	JC/MD	Ok
13	Q2050-03	BP-VPB-182-GW-100-1	VX046211.D	15 May 2025 14:11	vial A pH<2	JC/MD	Ok
14	Q2050-04	BP-VPB-182-GW-150-1	VX046212.D	15 May 2025 14:34	vial A pH<2	JC/MD	Ok
15	Q2050-05	BP-VPB-182-GW-205-2	VX046213.D	15 May 2025 14:58	vial A pH<2	JC/MD	Ok
16	Q2050-06	BP-VPB-182-GW-220-2	VX046214.D	15 May 2025 15:21	vial A pH<2	JC/MD	Ok
17	Q2050-07	BP-VPB-182-DUP-2025	VX046215.D	15 May 2025 15:44	vial A pH<2	JC/MD	Ok
18	Q2050-09	BP-VPB-182-GW-240-2	VX046216.D	15 May 2025 16:08	vial A pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX051525

Review By	John Carlone	Review On	5/16/2025 9:22:10 AM
Supervise By	Maresh Dadoda	Supervise On	5/16/2025 11:49:40 AM
SubDirectory	VX051525	HP Acquire Method	HP Processing Method 82X050525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133928		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133929,VP133930		

19	Q2019-04	MH-K	VX046217.D	15 May 2025 16:31	vial A pH#5.0	JC/MD	Ok
20	Q2034-16	L3-WC-4	VX046218.D	15 May 2025 16:54	vial A pH#5.0	JC/MD	Ok
21	Q2034-20	L3-WC-5	VX046219.D	15 May 2025 17:18	vial A pH#5.0	JC/MD	Ok
22	Q2032-09	COMP-1	VX046220.D	15 May 2025 17:41	vial A pH#5.0	JC/MD	Ok
23	Q2034-04	L3-WC-1	VX046221.D	15 May 2025 18:04	vial A pH#5.0	JC/MD	Ok
24	Q2034-08	L3-WC-2	VX046222.D	15 May 2025 18:28	vial A pH#5.0	JC/MD	Ok
25	Q2034-12	L3-WC-3	VX046223.D	15 May 2025 18:51	vial A pH#5.0	JC/MD	Ok
26	Q2038-02	72-11991	VX046224.D	15 May 2025 19:15	vial A pH#5.0	JC/MD	Ok
27	Q2043-05	3139	VX046225.D	15 May 2025 19:38	vial A pH<2 sample oily,smelly	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX046226.D	15 May 2025 20:01		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y HP Processing Method 82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133916			
Initial Calibration Stds		VP133918,VP133919,VP133920,VP133921,VP133922,VP133923			
CCC		VP133925			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133924			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM
Supervise By	Maresh Dadoda	Supervise On	5/19/2025 2:39:18 PM
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y HP Processing Method 82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133936
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133942,VP133943 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022276.D	16 May 2025 07:54		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022277.D	16 May 2025 08:24		SY/MD	Ok,M
3	VY0516SBL01	VY0516SBL01	VY022278.D	16 May 2025 09:37		SY/MD	Ok
4	VY0516SBS01	VY0516SBS01	VY022279.D	16 May 2025 10:09		SY/MD	Ok,M
5	VY0516SBSD01	VY0516SBSD01	VY022280.D	16 May 2025 10:32		SY/MD	Ok,M
6	Q1984-07RE	OU4-TS-24-050725RE	VY022281.D	16 May 2025 11:17	vial-B Surrogate fail	SY/MD	Confirms
7	Q1984-09	OU4-TS-25-050725	VY022282.D	16 May 2025 11:41	vial-B	SY/MD	Ok
8	Q1984-11	OU4-TS-26-050725	VY022283.D	16 May 2025 12:04	vial-B	SY/MD	Ok
9	Q1984-13	OU4-TS-27-050725	VY022284.D	16 May 2025 12:29	vial-B	SY/MD	Ok
10	Q1984-15RE	OU4-TS-28-050725RE	VY022285.D	16 May 2025 12:54	vial-B Surrogate fail	SY/MD	Confirms
11	Q1982-01	TP-1	VY022286.D	16 May 2025 13:17	vial-B	SY/MD	Ok
12	Q1982-02	TP-2B	VY022287.D	16 May 2025 13:41	vial-B	SY/MD	Ok
13	Q1982-03	TP-3	VY022288.D	16 May 2025 14:04	Vial A	SY/MD	Ok
14	Q1982-07	TP-8	VY022289.D	16 May 2025 14:28	Vial A	SY/MD	Ok
15	Q1982-08	TP-9	VY022290.D	16 May 2025 14:51	Vial A	SY/MD	Ok
16	Q2010-03	TP-14	VY022291.D	16 May 2025 15:15	vial-B	SY/MD	Ok
17	Q2010-04	TP-17	VY022292.D	16 May 2025 15:38	vial-B	SY/MD	Ok
18	Q2003-02	VOC	VY022293.D	16 May 2025 16:02	vial-A Internal standard fail	SY/MD	ReRun

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051625

Review By	Amit Patel	Review On	5/19/2025 1:35:43 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:39:18 PM		
SubDirectory	VY051625	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133936			
CCC		VP133942,VP133943			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2032-03	TP-29-99	VY022294.D	16 May 2025 16:25	vial-A	SY/MD	Ok
20	Q2032-04	TP-24	VY022295.D	16 May 2025 16:48	vial-A	SY/MD	Ok
21	Q2032-07	TP-37	VY022296.D	16 May 2025 17:12	vial-A	SY/MD	Ok
22	Q2032-08	TP-32	VY022297.D	16 May 2025 17:35	vial-A	SY/MD	Ok
23	Q1984-19	OU4-TB01-050725	VY022298.D	16 May 2025 17:59	vial-A	SY/MD	Ok
24	Q2032-05MS	TP-24MS	VY022299.D	16 May 2025 18:21	vial-A Internal standard fail;Recovery Fail	SY/MD	Not Ok
25	Q2032-06MSD	TP-24MSD	VY022300.D	16 May 2025 18:44	vial-A Internal standard fail;Surrogate fail	SY/MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VY022301.D	16 May 2025 19:29		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052025

Review By	Maresh Dadoda	Review On	5/21/2025 3:43:30 PM
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y HP Processing Method 82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133969
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133970,VP133971 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022328.D	20 May 2025 08:09		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022329.D	20 May 2025 08:40		SY/MD	Ok,M
3	VY0520SBL01	VY0520SBL01	VY022330.D	20 May 2025 09:48		SY/MD	Ok
4	VY0520SBS01	VY0520SBS01	VY022331.D	20 May 2025 10:21		SY/MD	Ok,M
5	VY0520SBSD01	VY0520SBSD01	VY022332.D	20 May 2025 10:43		SY/MD	Ok,M
6	Q2062-19	L1-WC-5-VOC	VY022333.D	20 May 2025 11:28	vial-B	SY/MD	Ok
7	Q2062-23	L1-WC-6-VOC	VY022334.D	20 May 2025 11:51	vial-B	SY/MD	Ok
8	Q2071-11	L1-WC-9-VOC	VY022335.D	20 May 2025 12:15	vial-B	SY/MD	Ok
9	Q2056-02	GVD12	VY022336.D	20 May 2025 12:38	vial-B	SY/MD	Ok
10	Q2056-03	GVD13	VY022337.D	20 May 2025 13:01	vial-B	SY/MD	Ok
11	Q2056-04	GVD14	VY022338.D	20 May 2025 13:25	vial-A	SY/MD	Ok
12	Q2056-05	GVD15	VY022339.D	20 May 2025 13:48	vial-A Internal standard fail	SY/MD	Not Ok
13	Q2080-02	PL-HRH-VOC-01	VY022340.D	20 May 2025 14:12	vial-A	SY/MD	Ok
14	Q2080-08	PL-HRH-VOC-02	VY022341.D	20 May 2025 14:35	vial-A	SY/MD	Ok
15	Q2032-02	TP-29	VY022342.D	20 May 2025 14:59	vial-A	SY/MD	Ok
16	Q2075-01	SS-10	VY022343.D	20 May 2025 15:22	vial-A	SY/MD	Ok
17	Q2075-02	SS-910	VY022344.D	20 May 2025 15:45	vial-A	SY/MD	Ok
18	Q2075-03	SS-11	VY022345.D	20 May 2025 16:09	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133969			
CCC		VP133970,VP133971			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2084-02	OR-640-VOC-66	VY022346.D	20 May 2025 16:32	vial-A	SY/MD	Ok
20	Q2032-01	TP-11	VY022347.D	20 May 2025 16:56	vial-A Surrogate fail;Need MeOH	SY/MD	Dilution
21	Q2032-05MS	TP-24MS	VY022348.D	20 May 2025 17:19	vial-B	SY/MD	Ok,M
22	Q2032-06MSD	TP-24MSD	VY022349.D	20 May 2025 17:41	vial-B Internal standard fail	SY/MD	Ok,M
23	Q2075-04MS	SS-11MS	VY022350.D	20 May 2025 18:04	vial-A	SY/MD	Ok,M
24	Q2075-05MSD	SS-11MSD	VY022351.D	20 May 2025 18:26	vial-A	SY/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VY022352.D	20 May 2025 19:34	ENDCCC failed for com.#06	SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

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
Q2021-01	WASTE	1	1.14	10.48	11.62	10.41	88.5	
Q2021-02	VOC	2	1.19	10.25	11.44	9.99	85.9	
Q2021-03	1	3	1.15	10.01	11.16	9.88	87.2	
Q2021-04	2	4	1.18	10.25	11.43	9.88	84.9	
Q2021-05	3	5	1.17	10.09	11.26	10.12	88.7	
Q2021-06	4	6	1.16	10.60	11.76	10.5	88.1	
Q2021-07	5	7	1.18	10.60	11.78	10.36	86.6	
Q2021-08	6	8	1.18	10.21	11.39	10.12	87.6	
Q2032-01	TP-11	9	1.14	10.08	11.22	8.83	76.3	
Q2032-02	TP-29	10	1.18	10.39	11.57	10.13	86.1	
Q2032-03	TP-29-99	11	1.19	10.40	11.59	10.22	86.8	
Q2032-04	TP-24	12	1.15	10.70	11.85	9.09	74.2	
Q2032-05	Q2032-04MS	13	1.15	10.70	11.85	9.09	74.2	
Q2032-06	Q2032-04MSD	14	1.15	10.70	11.85	9.09	74.2	
Q2032-07	TP-37	15	1.19	10.00	11.19	9.44	82.5	
Q2032-08	TP-32	16	1.17	10.08	11.25	9.92	86.8	
Q2034-01	L3-WC-1	17	1.14	10.24	11.38	10.11	87.6	
Q2034-02	L3-WC-1-EPH	18	1.18	10.23	11.41	10.22	88.4	
Q2034-03	L3-WC-1-VOC	19	1.15	10.10	11.25	10.19	89.5	
Q2034-04	L3-WC-1	20	1.14	10.24	11.38	10.11	87.6	
Q2034-05	L3-WC-2	21	1.17	10.18	11.35	9.88	85.6	
Q2034-06	L3-WC-2-EPH	22	1.18	10.71	11.89	10.47	86.7	
Q2034-07	L3-WC-2-VOC	23	1.19	10.52	11.71	10.46	88.1	
Q2034-09	L3-WC-3	24	1.14	10.26	11.4	9.65	82.9	
Q2034-10	L3-WC-3-EPH	25	1.14	10.26	11.4	10.11	87.4	
Q2034-11	L3-WC-3-VOC	26	1.19	10.53	11.72	10.39	87.4	
Q2034-13	L3-WC-4	27	1.18	10.51	11.69	10.26	86.4	
Q2034-14	L3-WC-4-EPH	28	1.15	10.42	11.57	10.23	87.1	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

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
Q2034-15	L3-WC-4-VOC	29	1.15	10.37	11.52	10.7	92.1	
Q2034-17	L3-WC-5	30	1.13	10.76	11.89	10.49	87.0	
Q2034-18	L3-WC-5-EPH	31	1.15	10.66	11.81	10.02	83.2	
Q2034-19	L3-WC-5-VOC	32	1.19	10.72	11.91	10.6	87.8	
Q2034-21	L3-WC-6	33	1.18	10.14	11.32	9.92	86.2	
Q2034-22	L3-WC-6-EPH	34	1.14	10.08	11.22	10.6	93.8	
Q2034-23	L3-WC-6-VOC	35	1.11	10.00	11.11	9.3	81.9	
Q2038-01	72-11991	36	1.15	10.56	11.71	10.81	91.5	
Q2039-01	TR-05-05142025	37	1.18	9.92	11.1	9.54	84.3	
Q2039-02	TR-05-05142025-E2	38	1.15	10.23	11.38	10.17	88.2	
Q2040-01	1	39	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-02	2	40	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-03	3	41	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-04	4	42	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-05	5	43	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-06	6	44	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-07	7	45	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2041-01	HIH359A-1-1	46	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-02	HIH359A-1-2	47	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-03	HIA9895-1-1	48	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-04	HIA9895-1-2	49	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-05	250-1-1	50	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-06	250-1-2	51	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-07	250-2-1	52	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-08	250-2-2	53	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-01	HEI570L-1-1	54	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-02	HEI570L-1-2	55	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-04	HEI570L-2-1	56	1.00	1.00	2.00	2.00	100.0	oilc



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

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
Q2042-05	HEI570L-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
Q2043-01	281	58	1.18	10.26	11.44	9.29	79.0	
Q2043-02	281-E2	59	1.16	10.44	11.6	10.6	90.4	
Q2043-03	72-12000	60	1.19	10.35	11.54	8.15	67.2	
Q2043-04	72-12000-E2	61	1.11	10.38	11.49	6.56	52.5	
Q2044-01	3858	62	1.00	1.00	2.00	2.00	100.0	oil sample
Q2046-01	BC136902-1-1	63	1.00	1.00	2.00	2.00	100.0	oilc
Q2046-02	BC136902-1-2	64	1.00	1.00	2.00	2.00	100.0	oilc
Q2047-01	SU-04-051425	65	1.18	10.07	11.25	10.72	94.7	
Q2047-02	SU-04-051425-E2	66	1.18	10.37	11.55	10.9	93.7	
Q2048-01	L2-WC-1	67	1.19	10.47	11.66	10.29	86.9	
Q2048-02	L2-WC-1-EPH	68	1.19	10.30	11.49	9.87	84.3	
Q2048-03	L2-WC-1-VOC	69	1.18	10.31	11.49	10.17	87.2	
Q2048-05	L2-WC-2	70	1.16	10.26	11.42	9.82	84.4	
Q2048-06	L2-WC-2-EPH	71	1.17	10.13	11.3	9.06	77.9	
Q2048-07	L2-WC-2-VOC	72	1.18	10.42	11.6	9.88	83.5	
Q2048-09	L2-WC-3	73	1.17	10.15	11.32	9.02	77.3	
Q2048-10	L2-WC-3-EPH	74	1.18	10.07	11.25	9.17	79.3	
Q2048-11	L2-WC-3-VOC	75	1.17	10.49	11.66	9.94	83.6	
Q2048-13	L2-WC-4	76	1.11	10.64	11.75	10.24	85.8	
Q2048-14	L2-WC-4-EPH	77	1.19	10.13	11.32	10.04	87.4	
Q2048-15	L2-WC-4-VOC	78	1.13	10.07	11.2	9.81	86.2	

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

WORKLIST(Hardcopy Internal Chain)

VB 135767

WorkList Name : %1-051425

WorkList ID : 189504

Department : Wet-Chemistry

Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2021-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-08	6	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2032-01	TP-11	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2032-02	TP-29	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-03	TP-29-99	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-04	TP-24	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-05	Q2032-04MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-06	Q2032-04MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-07	TP-37	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-08	TP-32	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2034-01	L3-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-02	L3-WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-03	L3-WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-04	L3-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-05	L3-WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO

Date/Time 05/14/25 15:10

Raw Sample Received by: JB WOC

Raw Sample Relinquished by: [Signature]

Date/Time 05/14/25

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JB WOC

WORKLIST(Hardcopy Internal Chain)

B 135767

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2034-06	L3-WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-07	L3-WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-09	L3-WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-10	L3-WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-11	L3-WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-13	L3-WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-14	L3-WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-15	L3-WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-17	L3-WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-18	L3-WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-19	L3-WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-21	L3-WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-22	L3-WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-23	L3-WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2038-01	72-11991	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2039-01	TR-05-05142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/14/2025	Chemtech -SO
Q2039-02	TR-05-05142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/14/2025	Chemtech -SO
Q2040-01	1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-02	2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-03	3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-04	4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO

Date/Time 05-14-25 15:10 Date/Time 05-14-25 Date/Time 17:30
 Raw Sample Received by: SP WOC Raw Sample Received by: CP SR Raw Sample Received by: CP SR
 Raw Sample Relinquished by: CP SR Raw Sample Relinquished by: SP WOC

WORKLIST(Hardcopy Internal Chain)

23567

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2040-05	5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-06	6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-07	7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2041-01	HIH359A-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-02	HIH359A-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-03	HIA9895-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-04	HIA9895-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-05	250-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-06	250-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-07	250-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-08	250-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2042-01	HEI570L-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-02	HEI570L-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-04	HEI570L-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-05	HEI570L-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2043-01	281	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2043-02	281-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2043-03	72-12000	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2043-04	72-12000-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2044-01	3858	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2046-01	BC136902-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO

Date/Time 05-14-25 1340
 Raw Sample Received by: cl sm
 Raw Sample Relinquished by: cl sm

WORKLIST(Hardcopy Internal Chain)

87135767

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2046-02	BC136902-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2047-01	SU-04-051425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/14/2025	Chemtech -SO
Q2047-02	SU-04-051425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/14/2025	Chemtech -SO
Q2048-01	L2-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-02	L2-WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-03	L2-WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-05	L2-WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-06	L2-WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-07	L2-WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-09	L2-WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-10	L2-WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-11	L2-WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-13	L2-WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-14	L2-WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-15	L2-WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO

Date/Time 05-14-25 15:10
 Raw Sample Received by: SP WOC
 Raw Sample Relinquished by: CL 5m
 Date/Time 05-14-25 17:30
 Raw Sample Received by: SP WOC
 Raw Sample Relinquished by: SP WOC

Preservation Log

BalanceID: VOA-SC-2

Review By: Amit

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q2032-01	39.04-32.90=6.14	11:00	41.37-33.07=8.3	11:01	34.55-27.66=6.89	11:02	V14143	05/15/2025	8260 TERRACORE SAMPLES
2	Q2032-02	41.42-33.19=8.23	11:03	39.69-32.45=7.24	11:04	41.03-27.59=13.44	11:05	V14143	05/15/2025	
3	Q2032-03	40.13-32.80=7.33	11:06	39.83-33.10=6.73	11:07	39.86-27.90=11.96	11:08	V14143	05/15/2025	
4	Q2032-04	39.28-32.89=6.39	11:09	39.80-32.60=7.2	11:10	34.27-28.31=5.96	11:11	V14143	05/15/2025	
5	Q2032-05	39.38-32.69=6.69	11:12	39.17-32.92=6.25	11:13	34.70-28.00=6.7	11:14	V14143	05/15/2025	
6	Q2032-06	38.85-32.93=5.92	11:15	39.17-32.94=6.23	11:17	40.96-27.76=13.2	11:17	V14143	05/15/2025	
7	Q2032-07	41.17-33.04=8.13	11:18	39.80-33.07=6.73	11:19	38.79-28.04=10.75	11:20	V14143	05/15/2025	
8	Q2032-08	39.20-32.92=6.28	11:21	38.91-32.89=6.02	11:22	38.77-27.89=10.88	11:23	V14143	05/15/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING 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: 732-590-4679 FAX: 732-225-7851

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 732-590-4679 FAX: 732-225-7851

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 732-590-4679

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ 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. 2. 3. 4. 5. 6. 7. 8. 9.
TCL VOC TCL SVOC METALS PCB PESTICIDES HERBICIDES PRO/CRO FULL TCLP RCRA CHARAL

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-11	SOIL		X	5/13/25	0830	6	X	X	X	X	X	X	X			E
2.	TP-29	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
3.	TP-29-99	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
4.	TP-24	SOIL		X	5/13/25	1130	18	X	X	X	X	X	X	X			E; MS/MSD
5.	TP-37	SOIL		X	5/13/25	1250	6	X	X	X	X	X	X	X			E
6.	TP-32	SOIL		X	5/13/25	1330	6	X	X	X	X	X	X	X			E
7.	COMP-1	SOIL	X		5/13/25	1405	4								X	X	E
8.	FB-05132025	ADUERS		X	5/13/25	1445	10	X	X	X	X	X	X	X			E, A, B
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME: 5/13/25 1505	RECEIVED BY: 1505	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.2 °C
1. [Signature]		1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 5-13-25	RECEIVED BY:	
3. [Signature]		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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/13/2025 4:20:00 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
Q2032-01	TP-11	Solid	05/13/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-02	TP-29	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-03	TP-29-99	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-04	TP-24	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-05	Q2032-04MS	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-06	Q2032-04MSD	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-07	TP-37	Solid	05/13/2025	12:50	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-08	TP-32	Solid	05/13/2025	13:30					

LOGIN REPORT/SAMPLE TRANSFER

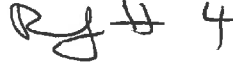
Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive Date/Time : 5/13/2025 4:20:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	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
Q2032-11	FB-05132025	Water	05/13/2025	14:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-12	TB	Water	05/13/2025	00:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinquished By : 

Date / Time : 5/14/25 0940

Received By : 

Date / Time : 5/14/24 9:50 

Storage Area : VOA Refridgerator Room

