

Cover Page

Order ID : Q1901

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1901-01
Q1901-02
Q1901-03
Q1901-04
Q1901-05
Q1901-06
Q1901-07
Q1901-08
Q1901-09
Q1901-10
Q1901-11

Client Sample Number

B-170-SB00
B-167-SB01
B-170-SB01
B-167-SB02
B-170-SB02
FB04262025
TB04262025
B-167-SB01
B-170-SB01
B-167-SB02
B-170-SB02

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: 5/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Chemtech Project # Q1901

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

9 Solid samples were received on 04/28/2025.

2 Water samples were received on 04/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for B-170-SB02 [4-Bromofluorobenzene - 66%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike for {VX0429WBS01} with File ID: VX045975.D met requirements for all samples except for Methyl Acetate[142%] this compound did not meet the NJDKQP criteria and in-house criteria, is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VX0429WBSD01} with File ID: VX045976.D met requirements for all samples except for Methyl Acetate[150%] this compound did not



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meet the NJDKQP criteria and in-house criteria is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X040225W.M) for t-1,3dichloropropene is passing on Linear Regression.

The %RSD is greater than 20% in the Initial Calibration method (82Y042225S.M) for Acetone is passing on Linear Regression.

The Continuous Calibration File ID VX045972.D met the requirements except for Bromoform, cis-1,3-Dichloropropene Methyl Acetate and Styrene are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

The Sample #B-167-SB02 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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 #: Q1901

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 Custody

✓

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: MAHESH PATEL

Date: 05/05/2025

LAB CHRONICLE

OrderID:	Q1901	OrderDate:	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-01	B-170-SB00	SOIL	VOC-TCLVOA-10	8260D	04/26/25		04/30/25	04/28/25
Q1901-02	B-167-SB01	SOIL	VOC-TCLVOA-10	8260D	04/26/25		04/30/25	04/28/25
Q1901-03	B-170-SB01	SOIL	VOC-TCLVOA-10	8260D	04/26/25		04/30/25	04/28/25
Q1901-04	B-167-SB02	SOIL	VOC-TCLVOA-10	8260D	04/26/25		04/30/25	04/28/25
Q1901-05	B-170-SB02	SOIL	VOC-TCLVOA-10	8260D	04/26/25		04/30/25	04/28/25
Q1901-06	FB04262025	Water	VOC-TCLVOA-10	8260-Low	04/26/25		04/29/25	04/28/25
Q1901-07	TB04262025	Water	VOC-TCLVOA-10	8260-Low	04/26/25		04/29/25	04/28/25
Q1901-08	B-167-SB01	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-09	B-170-SB01	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-10	B-167-SB02	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25
Q1901-11	B-170-SB02	TCLP	TCLP VOA	8260D	04/26/25		04/30/25	04/28/25

Hit Summary Sheet SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-170-SB00							
Q1901-01	B-170-SB00	SOIL	Dodecane	* 18.1	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Decane	* 19.0	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	o-Cymene	* 9.90	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Benzene, 1-ethyl-2,4-dimethyl-	* 7.90	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Undecane	* 25.8	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Cyclohexane, butyl-	* 9.60	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	* 11.7	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Undecane, 2,6-dimethyl-	* 13.1	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	1H-Indene, 1-ethyloctahydro-7-	* 8.20	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	trans-Decalin, 2-methyl-	* 9.70	J	0	0	ug/Kg
Q1901-01	B-170-SB00	SOIL	Naphthalene	* 3.00	J	2.10	4.00	ug/Kg
Total Tics :					136			
Total Concentration:					136			
Client ID:	B-167-SB02							
Q1901-04	B-167-SB02	SOIL	Acetone	210		8.10	42.6	ug/Kg
Q1901-04	B-167-SB02	SOIL	Carbon Disulfide	8.30	J	1.80	8.50	ug/Kg
Q1901-04	B-167-SB02	SOIL	2-Butanone	39.9	J	11.1	42.6	ug/Kg
Total Voc :					258			
Total Concentration:					258			
Client ID:	B-170-SB02							
Q1901-05	B-170-SB02	SOIL	Carbon Disulfide	12.5		1.30	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	Benzene	1.60	J	0.95	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	m/p-Xylenes	2.20	J	1.50	12.1	ug/Kg
Q1901-05	B-170-SB02	SOIL	o-Xylene	1.70	J	0.99	6.00	ug/Kg
Q1901-05	B-170-SB02	SOIL	Isopropylbenzene	12.2		0.94	6.00	ug/Kg
Total Voc :					30.2			
Q1901-05	B-170-SB02	SOIL	1,2,4-Trimethylbenzene	* 1.50	J	0.77	6.00	ug/Kg
Total Tics :					1.50			
Total Concentration:					31.7			
Client ID:	FB04262025							
Q1901-06	FB04262025	Water	Acetone	4.70	J	1.50	5.00	ug/L
Total Voc :					4.70			
Total Concentration:					4.70			
Client ID:	TB04262025							
Q1901-07	TB04262025	Water	Acetone	1.70	J	1.50	5.00	ug/L
Total Voc :					1.70			
Total Concentration:					1.70			

Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units



QC SUMMARY

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1901-01	B-170-SB00	1,2-Dichloroethane-d4	50	54.0	108	70 (63)	130 (155)
		Dibromofluoromethane	50	51.0	102	70 (70)	130 (134)
		Toluene-d8	50	48.3	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.9	94	70 (38)	130 (136)
Q1901-02	B-167-SB01	1,2-Dichloroethane-d4	50	53.3	107	70 (63)	130 (155)
		Dibromofluoromethane	50	51.1	102	70 (70)	130 (134)
		Toluene-d8	50	47.7	95	70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.1	72	70 (38)	130 (136)
Q1901-03	B-170-SB01	1,2-Dichloroethane-d4	50	53.9	108	70 (63)	130 (155)
		Dibromofluoromethane	50	50.0	100	70 (70)	130 (134)
		Toluene-d8	50	48.2	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.2	82	70 (38)	130 (136)
Q1901-04	B-167-SB02	1,2-Dichloroethane-d4	50	53.5	107	70 (63)	130 (155)
		Dibromofluoromethane	50	51.0	102	70 (70)	130 (134)
		Toluene-d8	50	47.7	95	70 (74)	130 (123)
		4-Bromofluorobenzene	50	39.4	79	70 (38)	130 (136)
Q1901-05	B-170-SB02	1,2-Dichloroethane-d4	50	49.6	99	70 (63)	130 (155)
		Dibromofluoromethane	50	49.8	100	70 (70)	130 (134)
		Toluene-d8	50	46.7	93	70 (74)	130 (123)
		4-Bromofluorobenzene	50	33.0	66 *	70 (38)	130 (136)
VY0430SBL01	VY0430SBL01	1,2-Dichloroethane-d4	50	52.3	105	70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104	70 (70)	130 (134)
		Toluene-d8	50	48.2	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.3	107	70 (38)	130 (136)
VY0430SBS01	VY0430SBS01	1,2-Dichloroethane-d4	50	49.5	99	70 (63)	130 (155)
		Dibromofluoromethane	50	52.6	105	70 (70)	130 (134)
		Toluene-d8	50	52.7	105	70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.8	104	70 (38)	130 (136)
VY0430SBSD01	VY0430SBSD01	1,2-Dichloroethane-d4	50	49.0	98	70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102	70 (70)	130 (134)
		Toluene-d8	50	51.3	103	70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101	70 (38)	130 (136)

Surrogate Summary

SDG No.: **Q1901**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1901-06	FB04262025	1,2-Dichloroethane-d4	50	54.6	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.4	101	70 (77)	130 (121)
Q1901-07	TB04262025	1,2-Dichloroethane-d4	50	54.2	108	70 (74)	130 (125)
		Dibromofluoromethane	50	51.9	104	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.9	108	70 (77)	130 (121)
VX0429WBL01	VX0429WBL01	1,2-Dichloroethane-d4	50	55.1	110	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VX0429WBS01	VX0429WBS01	1,2-Dichloroethane-d4	50	53.9	108	70 (74)	130 (125)
		Dibromofluoromethane	50	55.4	111	70 (75)	130 (124)
		Toluene-d8	50	53.0	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.4	113	70 (77)	130 (121)
VX0429WBSD0	VX0429WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	54.8	110	70 (75)	130 (124)
		Toluene-d8	50	51.7	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.4	111	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045975.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0429WBS01	Dichlorodifluoromethane	20	17.4	ug/L	87			40 (69)	160 (116)	
	Chloromethane	20	16.3	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	16.9	ug/L	85			70 (65)	130 (117)	
	Bromomethane	20	17.5	ug/L	88			40 (58)	160 (125)	
	Chloroethane	20	20.4	ug/L	102			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.4	ug/L	97			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/L	102			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	97.8	ug/L	98			40 (60)	160 (125)	
	Carbon disulfide	20	13.4	ug/L	67			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.1	ug/L	106			70 (78)	130 (114)	
	Methyl Acetate	20	28.4	ug/L	142		*	70 (67)	130 (125)	
	Methylene Chloride	20	19.2	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.1	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	18.0	ug/L	90			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	21.2	ug/L	106			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	22.0	ug/L	110			70 (70)	130 (124)	
	Chloroform	20	21.1	ug/L	106			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	18.8	ug/L	94			70 (72)	130 (115)	
	Benzene	20	19.7	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.5	ug/L	108			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.9	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	21.4	ug/L	107			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	20.5	ug/L	103			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	21.5	ug/L	108			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.9	ug/L	110			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.1	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.7	ug/L	109			70 (81)	130 (110)	
	Tetrachloroethene	20	20.0	ug/L	100			70 (67)	130 (123)	
	Chlorobenzene	20	20.8	ug/L	104			70 (82)	130 (109)	
	Ethyl Benzene	20	20.9	ug/L	104			70 (83)	130 (109)	
	m/p-Xylenes	40	41.7	ug/L	104			70 (82)	130 (110)	
	o-Xylene	20	20.9	ug/L	104			70 (83)	130 (109)	
	Styrene	20	21.4	ug/L	107			70 (80)	130 (111)	
	Bromoform	20	21.2	ug/L	106			70 (79)	130 (109)	
	Isopropylbenzene	20	20.4	ug/L	102			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/L	104			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045975.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0429WBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/L	108			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	20.1	ug/L	101			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045976.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0429WBSD01	Dichlorodifluoromethane	20	17.3	ug/L	86	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.4	ug/L	82	1		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	16.9	ug/L	85	0		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.3	ug/L	86	2		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	7		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106	4		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.2	ug/L	96	3		70 (74)	130 (110)	20 (20)
	Acetone	100	100	ug/L	100	2		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	13.4	ug/L	67	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.9	ug/L	110	4		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	30.0	ug/L	150	5	*	70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.4	ug/L	102	6		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.6	ug/L	93	4		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.0	ug/L	100	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.4	ug/L	92	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.2	ug/L	106	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.5	ug/L	103	3		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.9	ug/L	115	4		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.5	ug/L	108	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.9	ug/L	104	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.9	ug/L	100	6		70 (72)	130 (115)	20 (20)
	Benzene	20	19.8	ug/L	99	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.2	ug/L	111	3		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.6	ug/L	98	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.7	ug/L	109	5		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.4	ug/L	107	0		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		40 (74)	160 (118)	20 (20)
	Toluene	20	20.1	ug/L	101	2		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.3	ug/L	102	5		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.3	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.6	ug/L	108	2		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.1	ug/L	111	5		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	22.1	ug/L	111	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.7	ug/L	99	1		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.5	ug/L	108	4		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.2	ug/L	106	2		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.6	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	21.5	ug/L	108	4		70 (83)	130 (109)	20 (20)
	Styrene	20	21.7	ug/L	109	2		70 (80)	130 (111)	20 (20)
	Bromoform	20	21.2	ug/L	106	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.9	ug/L	100	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105	1		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.2	ug/L	101	0		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.0	ug/L	100	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	21.2	ug/L	106	0		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX045976.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0429WBSD01	1,2-Dibromo-3-Chloropropane	20	22.3	ug/L	112	4		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.9	ug/L	104	6		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102	1		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY022072.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0430SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			40 (64)	160 (136)	
	Chloromethane	20	22.2	ug/Kg	111			40 (70)	160 (130)	
	Vinyl chloride	20	20.7	ug/Kg	104			70 (72)	130 (129)	
	Bromomethane	20	22.8	ug/Kg	114			40 (58)	160 (141)	
	Chloroethane	20	21.2	ug/Kg	106			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.8	ug/Kg	109			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.7	ug/Kg	99			70 (79)	130 (121)	
	Acetone	100	94.5	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	19.9	ug/Kg	100			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			70 (77)	130 (129)	
	Methyl Acetate	20	20.3	ug/Kg	102			70 (69)	130 (149)	
	Methylene Chloride	20	20.0	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.9	ug/Kg	100			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	92.7	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.3	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	20.0	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.2	ug/Kg	96			70 (77)	130 (123)	
	Benzene	20	20.6	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.2	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	20.9	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	Bromodichloromethane	20	20.9	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	2-Hexanone	100	99.9	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.6	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	21.1	ug/Kg	106			70 (83)	130 (125)	
	Chlorobenzene	20	20.1	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	40.6	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	19.7	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	Bromoform	20	20.9	ug/Kg	104			70 (75)	130 (127)	
	Isopropylbenzene	20	18.8	ug/Kg	94			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/Kg	99			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY022072.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0430SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.7	ug/Kg	99			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY022073.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0430SBSD01	Dichlorodifluoromethane	20	20.3	ug/Kg	102	5		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.5	ug/Kg	98	12		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.7	ug/Kg	99	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.5	ug/Kg	98	15		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.5	ug/Kg	98	8		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	20.4	ug/Kg	102	7		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	0		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.2	ug/Kg	101	2		70 (79)	130 (121)	30 (20)
	Acetone	100	89.4	ug/Kg	89	7		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.7	ug/Kg	99	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	18.6	ug/Kg	93	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.5	ug/Kg	108	6		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.1	ug/Kg	101	1		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.0	ug/Kg	100	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.8	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.9	ug/Kg	95	0		70 (76)	130 (122)	30 (20)
	2-Butanone	100	91.4	ug/Kg	91	2		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	0		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.2	ug/Kg	101	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.0	ug/Kg	95	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.5	ug/Kg	103	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.5	ug/Kg	103	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.4	ug/Kg	102	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.6	ug/Kg	103	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	98.5	ug/Kg	99	1		40 (70)	160 (135)	30 (20)
	Toluene	20	20.5	ug/Kg	103	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101	2		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	94.3	ug/Kg	94	6		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.2	ug/Kg	101	5		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	2		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.3	ug/Kg	106	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.3	ug/Kg	102	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.4	ug/Kg	97	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.3	ug/Kg	101	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.4	ug/Kg	97	2		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.3	ug/Kg	102	2		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.3	ug/Kg	97	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.4	ug/Kg	102	1		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY022073.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0430SBSD01	1,2-Dibromo-3-Chloropropane	20	18.4	ug/Kg	92	1		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	18.8	ug/Kg	94	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95	4		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0429WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VX045974.D

Lab Sample ID: VX0429WBL01

Date Analyzed: 04/29/2025

Time Analyzed: 11:58

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
VX0429WBS01	VX0429WBS01	VX045975.D	04/29/2025
VX0429WBSD01	VX0429WBSD01	VX045976.D	04/29/2025
TB04262025	Q1901-07	VX045978.D	04/29/2025
FB04262025	Q1901-06	VX045979.D	04/29/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0430SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: VY022071.D

Lab Sample ID: VY0430SBL01

Date Analyzed: 04/30/2025

Time Analyzed: 09:57

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
VY0430SBS01	VY0430SBS01	VY022072.D	04/30/2025
VY0430SBSD01	VY0430SBSD01	VY022073.D	04/30/2025
B-170-SB00	Q1901-01	VY022086.D	04/30/2025
B-167-SB01	Q1901-02	VY022087.D	04/30/2025
B-170-SB01	Q1901-03	VY022088.D	04/30/2025
B-167-SB02	Q1901-04	VY022089.D	04/30/2025
B-170-SB02	Q1901-05	VY022090.D	04/30/2025

COMMENTS: _____



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
Lab File ID: VX045524.D BFB Injection Date: 04/01/2025
Instrument ID: MSVOA_X BFB Injection Time: 16:15
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	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (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
VSTDIC001	VSTDIC001	VX045525.D	04/01/2025	17:06
VSTDIC005	VSTDIC005	VX045526.D	04/01/2025	17:29
VSTDIC020	VSTDIC020	VX045527.D	04/01/2025	17:52
VSTDIC050	VSTDIC050	VX045528.D	04/01/2025	18:15
VSTDIC100	VSTDIC100	VX045529.D	04/01/2025	18:38
VSTDIC150	VSTDIC150	VX045530.D	04/01/2025	19:02



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
Lab File ID: VX045971.D BFB Injection Date: 04/29/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:35
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	23.5
75	30.0 - 60.0% of mass 95	57.1
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.8 (7.3) 1
176	95.0 - 101.0% of mass 174	64.2 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (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	VX045972.D	04/29/2025	11:06
VX0429WBL01	VX0429WBL01	VX045974.D	04/29/2025	11:58
VX0429WBS01	VX0429WBS01	VX045975.D	04/29/2025	12:21
VX0429WBSD01	VX0429WBSD01	VX045976.D	04/29/2025	12:49
TB04262025	Q1901-07	VX045978.D	04/29/2025	13:35
FB04262025	Q1901-06	VX045979.D	04/29/2025	13:58



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: PORT06
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
Lab File ID: VY021952.D BFB Injection Date: 04/22/2025
Instrument ID: MSVOA_Y BFB Injection Time: 11:33
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	16.9
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	7.1 (8) 1
176	95.0 - 101.0% of mass 174	84.9 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY021953.D	04/22/2025	13:39
VSTDIC010	VSTDIC010	VY021954.D	04/22/2025	14:44
VSTDIC020	VSTDIC020	VY021955.D	04/22/2025	15:07
VSTDIC050	VSTDIC050	VY021956.D	04/22/2025	15:29
VSTDIC100	VSTDIC100	VY021957.D	04/22/2025	15:52
VSTDIC150	VSTDIC150	VY021958.D	04/22/2025	16:15



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: PORT06
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
Lab File ID: VY022069.D BFB Injection Date: 04/30/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:50
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	15.8
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.6 (1.8) 1
174	50.0 - 100.0% of mass 95	90.5
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	87.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.4 (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	VY022070.D	04/30/2025	09:20
VY0430SBL01	VY0430SBL01	VY022071.D	04/30/2025	09:57
VY0430SBS01	VY0430SBS01	VY022072.D	04/30/2025	10:30
VY0430SBSD01	VY0430SBSD01	VY022073.D	04/30/2025	10:52
B-170-SB00	Q1901-01	VY022086.D	04/30/2025	16:42
B-167-SB01	Q1901-02	VY022087.D	04/30/2025	17:05
B-170-SB01	Q1901-03	VY022088.D	04/30/2025	17:29
B-167-SB02	Q1901-04	VY022089.D	04/30/2025	17:52
B-170-SB02	Q1901-05	VY022090.D	04/30/2025	18:16

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VX045972.D Date Analyzed: 04/29/2025
 Instrument ID: MSVOA_X Time Analyzed: 11:06
 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	79737	5.54	136469	6.76	117675	10.05
UPPER LIMIT	159474	6.044	272938	7.257	235350	10.549
LOWER LIMIT	39868.5	5.044	68234.5	6.257	58837.5	9.549
EPA SAMPLE NO.						
FB04262025	64509	5.54	127954	6.76	115874	10.05
TB04262025	67274	5.54	131446	6.76	123412	10.05
VX0429WBL01	63902	5.55	127024	6.76	116648	10.05
VX0429WBS01	80632	5.55	140487	6.76	122568	10.05
VX0429WBSD01	77095	5.54	135079	6.76	118384	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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VX045972.D Date Analyzed: 04/29/2025
 Instrument ID: MSVOA_X Time Analyzed: 11:06
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	59672	12.018				
UPPER LIMIT	119344	12.518				
LOWER LIMIT	29836	11.518				
EPA SAMPLE NO.						
FB04262025	48370	12.02				
TB04262025	53777	12.02				
VX0429WBL01	47876	12.02				
VX0429WBS01	59236	12.02				
VX0429WBSD01	57470	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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VY022070.D Date Analyzed: 04/30/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:20
 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	299393	7.71	438020	8.62	420486	11.41
UPPER LIMIT	598786	8.207	876040	9.116	840972	11.914
LOWER LIMIT	149697	7.207	219010	8.116	210243	10.914
EPA SAMPLE NO.						
B-170-SB00	314687	7.71	598350	8.61	545344	11.41
B-167-SB01	348376	7.71	652384	8.61	556238	11.41
B-170-SB01	370218	7.71	709340	8.61	640665	11.41
B-167-SB02	381091	7.71	712829	8.61	629182	11.41
B-170-SB02	384809	7.71	709625	8.61	563942	11.41
VY0430SBL01	311598	7.71	580894	8.62	511027	11.41
VY0430SBS01	286487	7.71	433702	8.62	405299	11.41
VY0430SBSD01	289313	7.71	439988	8.61	406945	11.41

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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901
 Lab File ID: VY022070.D Date Analyzed: 04/30/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:20
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	233640	13.346				
UPPER LIMIT	467280	13.846				
LOWER LIMIT	116820	12.846				
EPA SAMPLE NO.						
B-170-SB00	231898	13.35				
B-167-SB01	176600	13.35				
B-170-SB01	256467	13.35				
B-167-SB02	233488	13.35				
B-170-SB02	150773	13.35				
VY0430SBL01	186896	13.35				
VY0430SBS01	222589	13.35				
VY0430SBSD01	218185	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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB00	SDG No.:	Q1901
Lab Sample ID:	Q1901-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.6
Sample Wt/Vol:	6.67 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
VY022086.D	1		04/30/25 16:42	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.92	U	0.92	4.00	ug/Kg
74-87-3	Chloromethane	0.92	U	0.92	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.00	ug/Kg
74-83-9	Bromomethane	0.87	U	0.87	4.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.98	U	0.98	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.81	U	0.81	4.00	ug/Kg
67-64-1	Acetone	3.80	U	3.80	20.2	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.59	U	0.59	4.00	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.00	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.00	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.00	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.00	ug/Kg
74-97-5	Bromochloromethane	0.93	U	0.93	4.00	ug/Kg
67-66-3	Chloroform	0.68	U	0.68	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.00	ug/Kg
71-43-2	Benzene	0.64	U	0.64	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	4.00	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.63	U	0.63	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.2	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/28/25
Client Sample ID:	B-170-SB00			SDG No.:	Q1901
Lab Sample ID:	Q1901-01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	92.6
Sample Wt/Vol:	6.67	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
VY022086.D	1		04/30/25 16:42	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.70	U	0.70	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.71	U	0.71	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.85	U	0.85	4.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.10	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.00	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.00	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.98	U	0.98	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.00	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	54.0	70 (63) - 130 (155)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0	70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	48.3	70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9	70 (38) - 130 (136)	94%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	315000	7.707
540-36-3	1,4-Difluorobenzene	598000	8.609
3114-55-4	Chlorobenzene-d5	545000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB00	SDG No.:	Q1901
Lab Sample ID:	Q1901-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	92.6
Sample Wt/Vol:	6.67 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
VY022086.D	1		04/30/25 16:42	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000124-18-5	Decane	19.0	J		12.7	ug/Kg
001678-93-9	Cyclohexane, butyl-	9.60	J		13.2	ug/Kg
001120-21-4	Undecane	25.8	J		13.7	ug/Kg
000527-84-4	o-Cymene	9.90	J		13.9	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	9.70	J		14.2	ug/Kg
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	7.90	J		14.2	ug/Kg
000112-40-3	Dodecane	18.1	J		14.5	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	11.7	J		14.6	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	13.1	J		14.6	ug/Kg
056324-71-1	1H-Indene, 1-ethyloctahydro-7a-met	8.20	J		14.8	ug/Kg
91-20-3	Naphthalene	3.00	J		15.1	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\VY043025\
 Data File : VY022086.D
 Acq On : 30 Apr 2025 16:42
 Operator : SY/MD
 Sample : Q1901-01
 Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB00

Quant Time: May 01 01:38:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

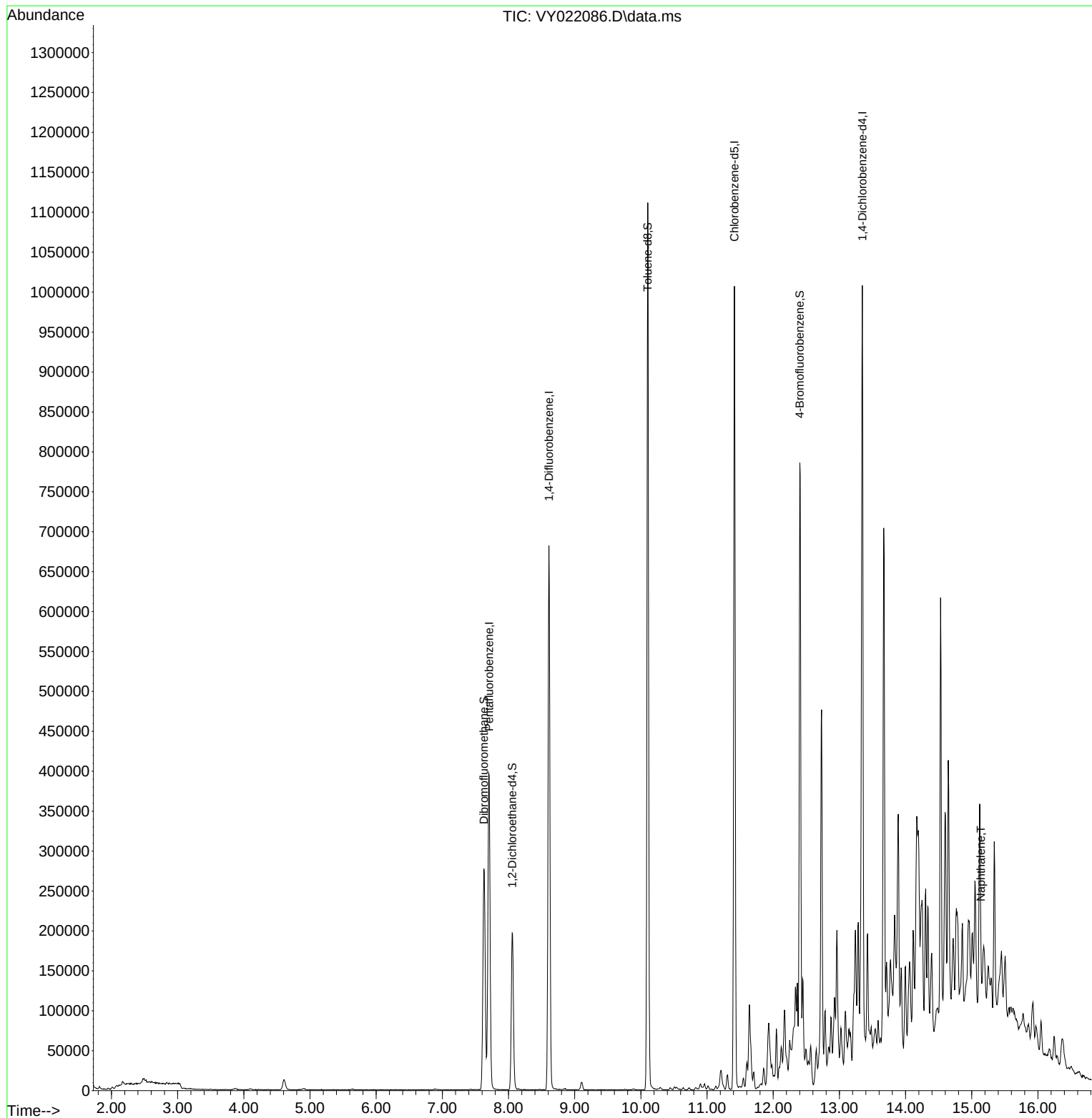
Internal Standards						
1) Pentafluorobenzene	7.707	168	314687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	598350	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	545344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	231898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	156877	53.971	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.940%	
35) Dibromofluoromethane	7.628	113	201431	50.956	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.920%	
50) Toluene-d8	10.103	98	719534	48.282	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 96.560%	
62) 4-Bromofluorobenzene	12.401	95	235187	46.879	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 93.760%	
Target Compounds						
					Qvalue	
95) Naphthalene	15.139	128	24453	3.746	ug/l #	89

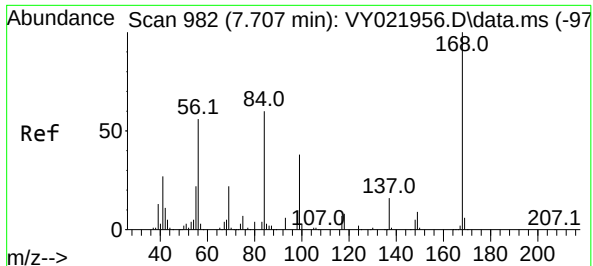
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Time: May 01 01:38:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

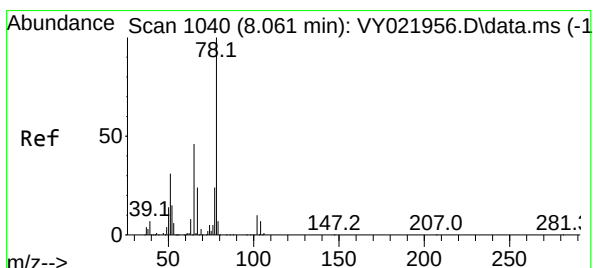
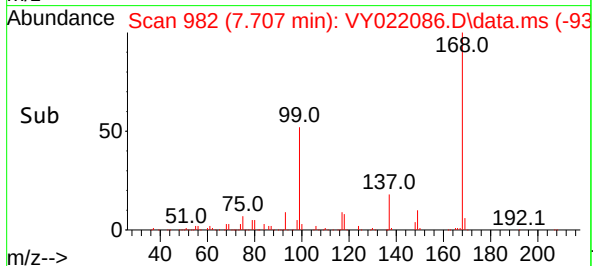
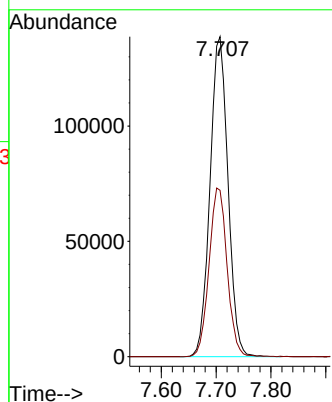
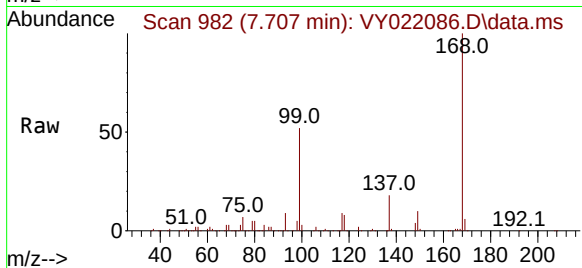




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

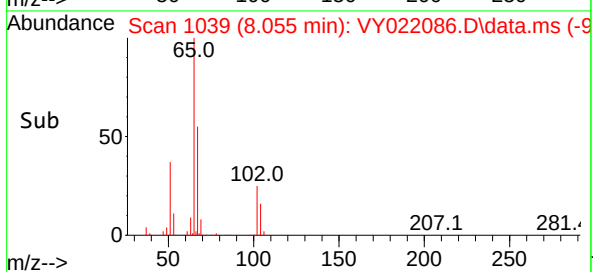
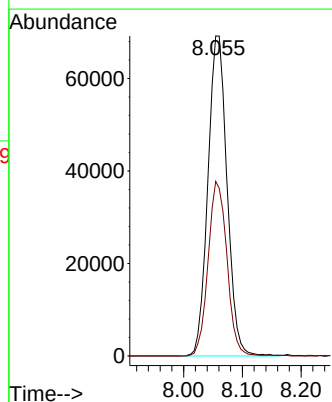
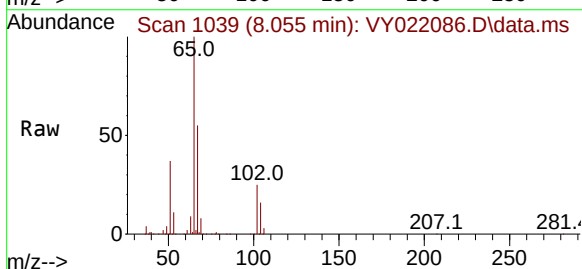
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

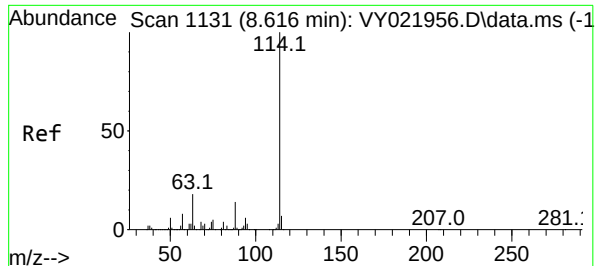
Tgt Ion:168 Resp: 314687
Ion Ratio Lower Upper
168 100
99 52.0 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 53.971 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

Tgt Ion: 65 Resp: 156877
Ion Ratio Lower Upper
65 100
67 53.5 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB00

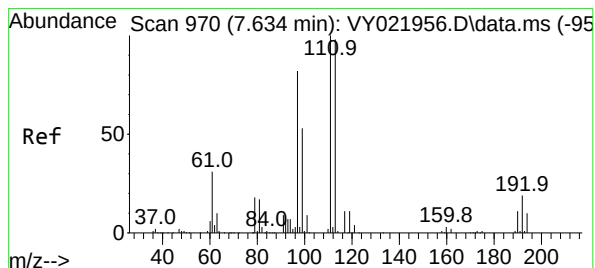
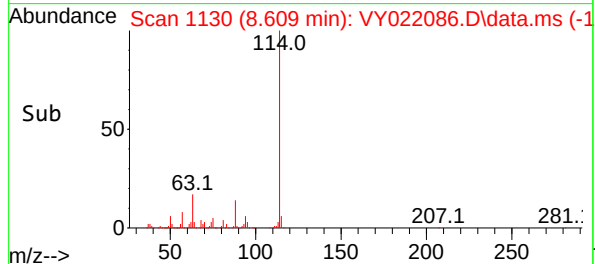
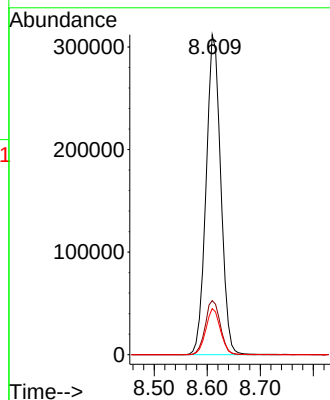
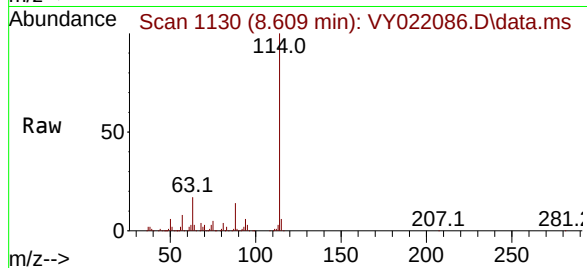
Tgt Ion:114 Resp: 598350

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.4

88 14.4 0.0 28.2



#35

Dibromofluoromethane

Concen: 50.956 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

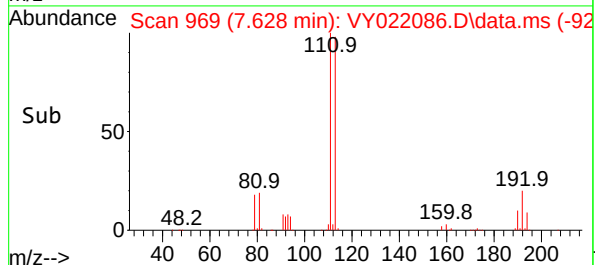
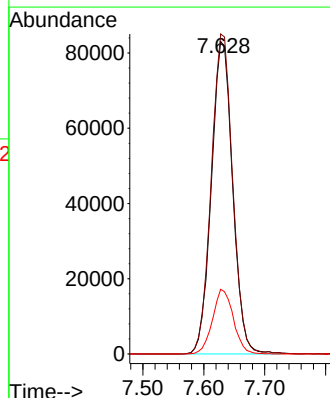
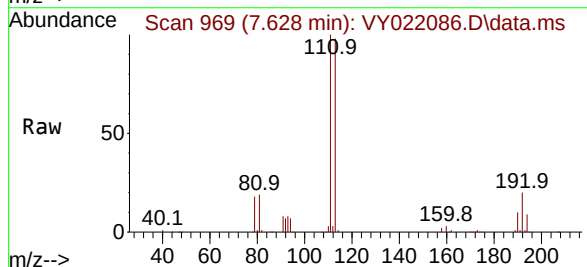
Tgt Ion:113 Resp: 201431

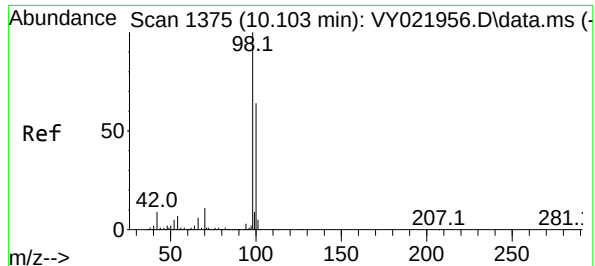
Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

192 20.2 15.6 23.4





#50

Toluene-d8

Concen: 48.282 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

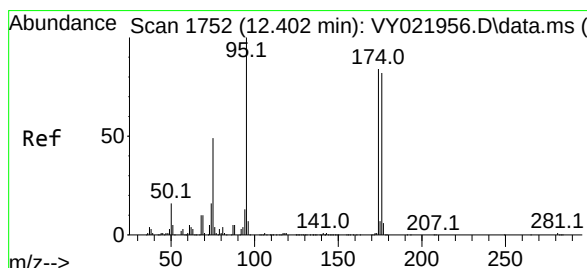
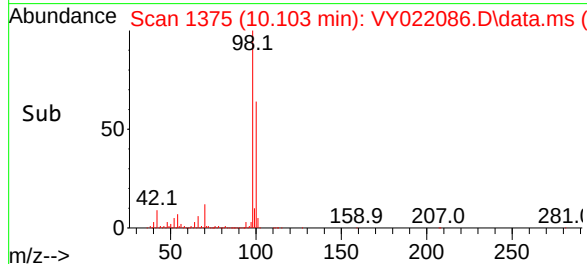
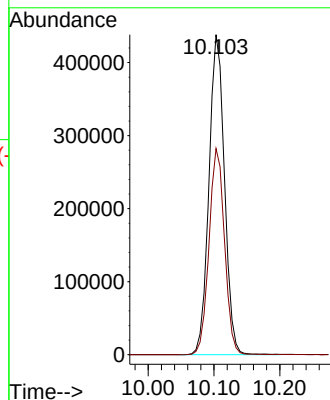
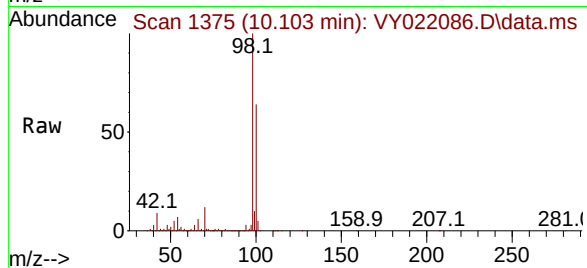
B-170-SB00

Tgt Ion: 98 Resp: 719534

Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 46.879 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

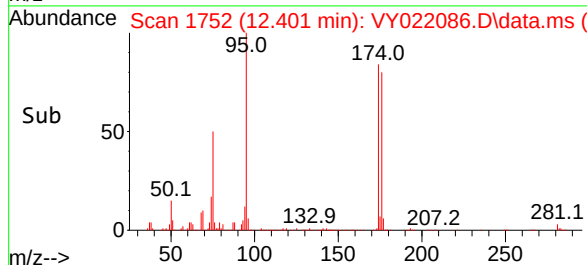
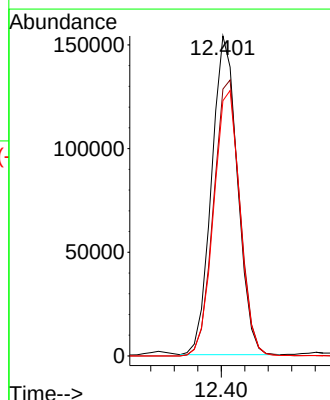
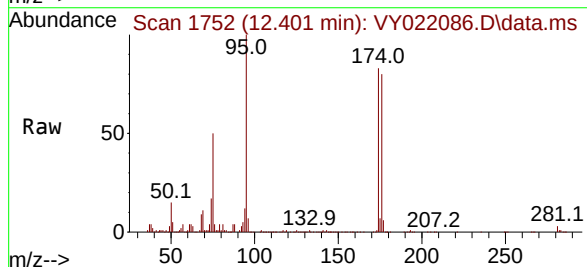
Tgt Ion: 95 Resp: 235187

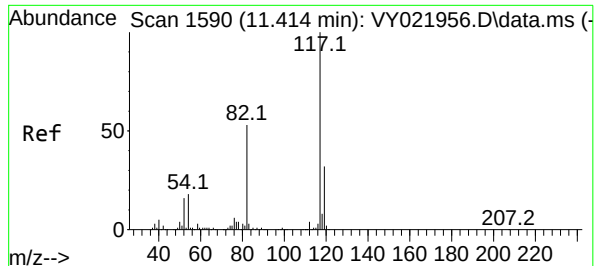
Ion Ratio Lower Upper

95 100

174 88.2 0.0 179.0

176 85.1 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB00

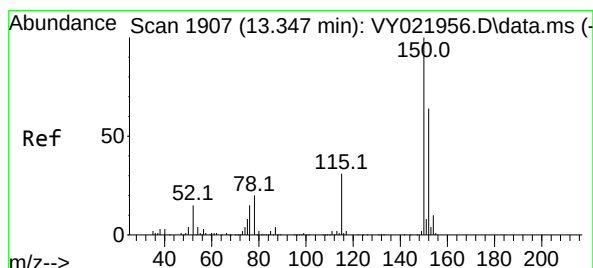
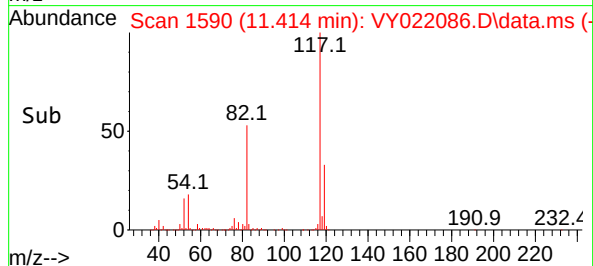
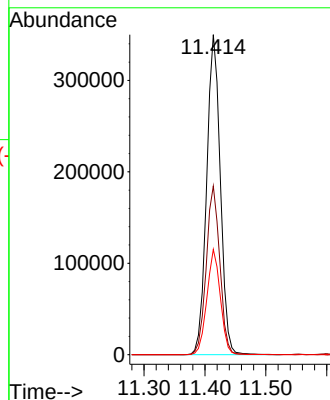
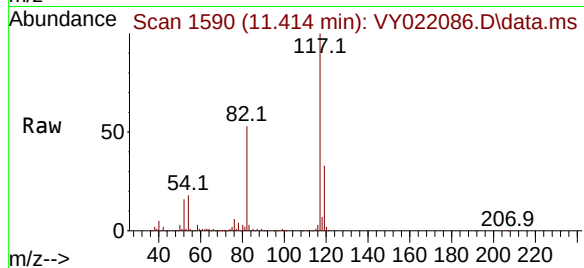
Tgt Ion:117 Resp: 545344

Ion Ratio Lower Upper

117 100

82 52.7 42.1 63.1

119 32.9 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

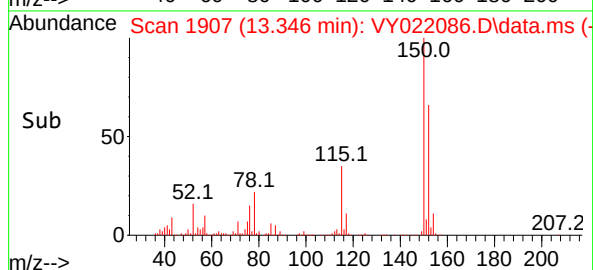
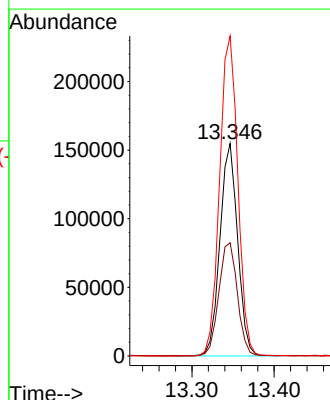
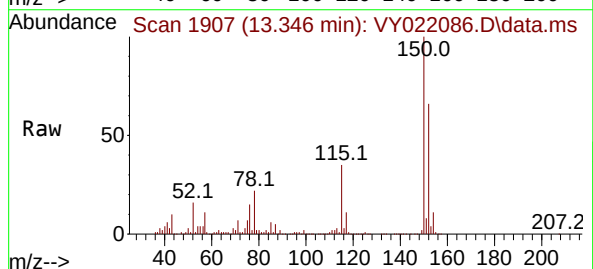
Tgt Ion:152 Resp: 231898

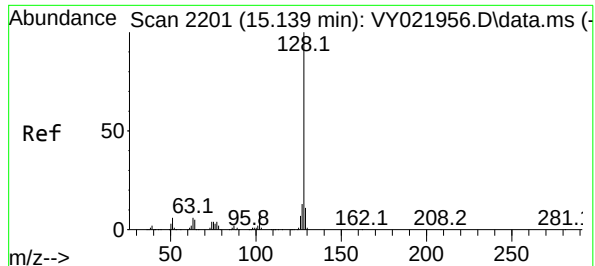
Ion Ratio Lower Upper

152 100

115 55.8 28.0 84.0

150 154.8 0.0 345.6





#95

Naphthalene

Concen: 3.746 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY022086.D

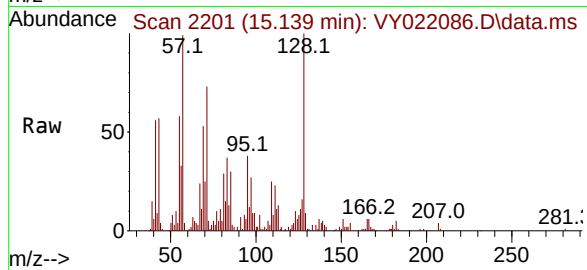
Acq: 30 Apr 2025 16:42

Instrument :

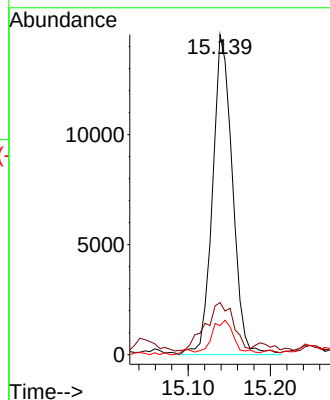
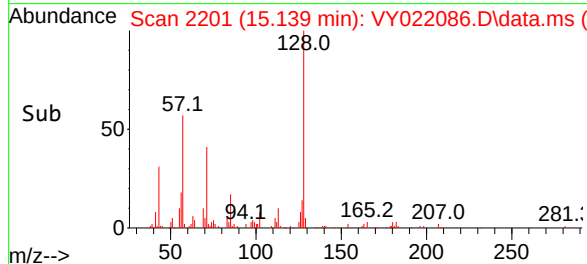
MSVOA_Y

ClientSampleId :

B-170-SB00



Tgt Ion:	128	Resp:	24453
Ion	Ratio	Lower	Upper
128	100		
127	21.3	10.6	16.0#
129	11.2	8.9	13.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022086.D
 Acq On : 30 Apr 2025 16:42
 Operator : SY/MD
 Sample : Q1901-01
 Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB00

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\82Y042225S.M
 Title : SW846 8260

Signal : TIC: VY022086.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.604	463	473	483	rBV	12819	39114	2.12%	0.184%
2	7.628	960	969	975	rBV	276785	665873	36.15%	3.131%
3	7.701	975	981	995	rVB	395495	913707	49.60%	4.297%
4	8.055	1030	1039	1052	rBV	197176	450754	24.47%	2.120%
5	8.609	1120	1130	1143	rBV	681639	1317051	71.50%	6.194%
6	9.103	1202	1211	1217	rVB4	9579	21546	1.17%	0.101%
7	10.103	1367	1375	1391	rBV	1111070	1841973	100.00%	8.662%
8	11.213	1547	1557	1567	rVB4	23807	62470	3.39%	0.294%
9	11.310	1567	1573	1580	rVB	18221	31278	1.70%	0.147%
10	11.414	1582	1590	1600	rBV	1005574	1566813	85.06%	7.368%
11	11.603	1616	1621	1623	rVV2	31544	52842	2.87%	0.248%
12	11.639	1623	1627	1635	rVV2	104547	233528	12.68%	1.098%
13	11.706	1635	1638	1643	rVB2	20843	30329	1.65%	0.143%
14	11.853	1658	1662	1667	rVB2	20732	32326	1.75%	0.152%
15	11.932	1667	1675	1681	rBV5	77667	205791	11.17%	0.968%
16	12.048	1690	1694	1698	rVB	61606	81263	4.41%	0.382%
17	12.121	1702	1706	1709	rVV3	27745	40898	2.22%	0.192%
18	12.170	1709	1714	1723	rVB5	74873	151689	8.24%	0.713%
19	12.249	1723	1727	1732	rBV3	37080	79049	4.29%	0.372%
20	12.334	1738	1741	1744	rBV	50297	69036	3.75%	0.325%
21	12.365	1744	1746	1748	rVV	64564	61149	3.32%	0.288%
22	12.401	1748	1752	1757	rVV	725948	1139726	61.88%	5.360%
23	12.444	1757	1759	1764	rVB2	100768	129377	7.02%	0.608%
24	12.493	1764	1767	1771	rVB4	19470	26867	1.46%	0.126%
25	12.566	1776	1779	1786	rVB3	48767	83180	4.52%	0.391%
26	12.651	1786	1793	1796	rBV4	44626	88163	4.79%	0.415%
27	12.731	1796	1806	1811	rBV2	449334	752542	40.86%	3.539%
28	12.785	1811	1815	1819	rVB2	67887	101413	5.51%	0.477%
29	12.834	1819	1823	1826	rBV4	22569	38294	2.08%	0.180%
30	12.871	1826	1829	1833	rVB4	45049	58348	3.17%	0.274%
31	12.926	1833	1838	1841	rBV4	69963	124812	6.78%	0.587%
32	12.962	1841	1844	1850	rVB	159944	235941	12.81%	1.110%
33	13.023	1850	1854	1860	rVB4	45027	81147	4.41%	0.382%
34	13.090	1860	1865	1870	rBV2	66473	128789	6.99%	0.606%
35	13.145	1871	1874	1876	rBV2	18914	22924	1.24%	0.108%
36	13.243	1881	1890	1893	rBV3	163601	377608	20.50%	1.776%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

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\82Y042225S.M
Title : SW846 8260

37	13.285	1893	1897	1900	rVV2	134881	193603	10.51%	0.910%
38	13.346	1900	1907	1915	rVB	945130	1600256	86.88%	7.525%
39	13.426	1915	1920	1923	rBV2	133477	180606	9.81%	0.849%
40	13.584	1943	1946	1950	rBV3	28328	33438	1.82%	0.157%
41	13.669	1954	1960	1965	rBV2	642561	1020378	55.40%	4.798%
42	13.712	1965	1967	1971	rVB2	67115	78047	4.24%	0.367%
43	13.773	1973	1977	1982	rBV3	57829	106285	5.77%	0.500%
44	13.834	1983	1987	1991	rBV4	100334	165564	8.99%	0.779%
45	13.889	1991	1996	2000	rVB2	239835	391617	21.26%	1.842%
46	13.932	2000	2003	2009	rVB2	101263	160541	8.72%	0.755%
47	13.999	2009	2014	2018	rBV3	102599	170044	9.23%	0.800%
48	14.060	2018	2024	2029	rBV4	93006	209629	11.38%	0.986%
49	14.114	2029	2033	2037	rBV4	115058	184155	10.00%	0.866%
50	14.169	2037	2042	2044	rBV5	215816	383840	20.84%	1.805%
51	14.249	2050	2055	2060	rVB3	138781	314340	17.07%	1.478%
52	14.303	2060	2064	2067	rVV2	162541	241777	13.13%	1.137%
53	14.334	2067	2069	2074	rVV4	145712	204765	11.12%	0.963%
54	14.395	2074	2079	2085	rVB6	97971	181461	9.85%	0.853%
55	14.529	2096	2101	2107	rBV2	520060	715944	38.87%	3.367%
56	14.596	2107	2112	2116	rVV3	248485	461624	25.06%	2.171%
57	14.645	2116	2120	2127	rVV2	310732	518896	28.17%	2.440%
58	14.718	2127	2132	2136	rVV4	85035	161082	8.75%	0.758%
59	14.767	2136	2140	2147	rVV5	119793	323349	17.55%	1.521%
60	14.858	2151	2155	2159	rVB5	97584	140383	7.62%	0.660%
61	14.950	2166	2170	2176	rBV5	75525	160716	8.73%	0.756%
62	15.011	2176	2180	2183	rVV3	60794	99410	5.40%	0.467%
63	15.047	2183	2186	2192	rVB3	152289	257991	14.01%	1.213%
64	15.120	2193	2198	2203	rBV3	247862	412428	22.39%	1.939%
65	15.181	2204	2208	2215	rVB6	64983	144227	7.83%	0.678%
66	15.248	2215	2219	2224	rBV6	39981	85660	4.65%	0.403%
67	15.340	2230	2234	2241	rBV	208159	296140	16.08%	1.393%
68	15.925	2325	2330	2334	rVB2	43661	82388	4.47%	0.387%
69	16.047	2346	2350	2357	rVB3	41932	71957	3.91%	0.338%
70	16.242	2378	2382	2388	rBV2	29275	48969	2.66%	0.230%
71	16.370	2396	2403	2414	rVB6	37364	125697	6.82%	0.591%

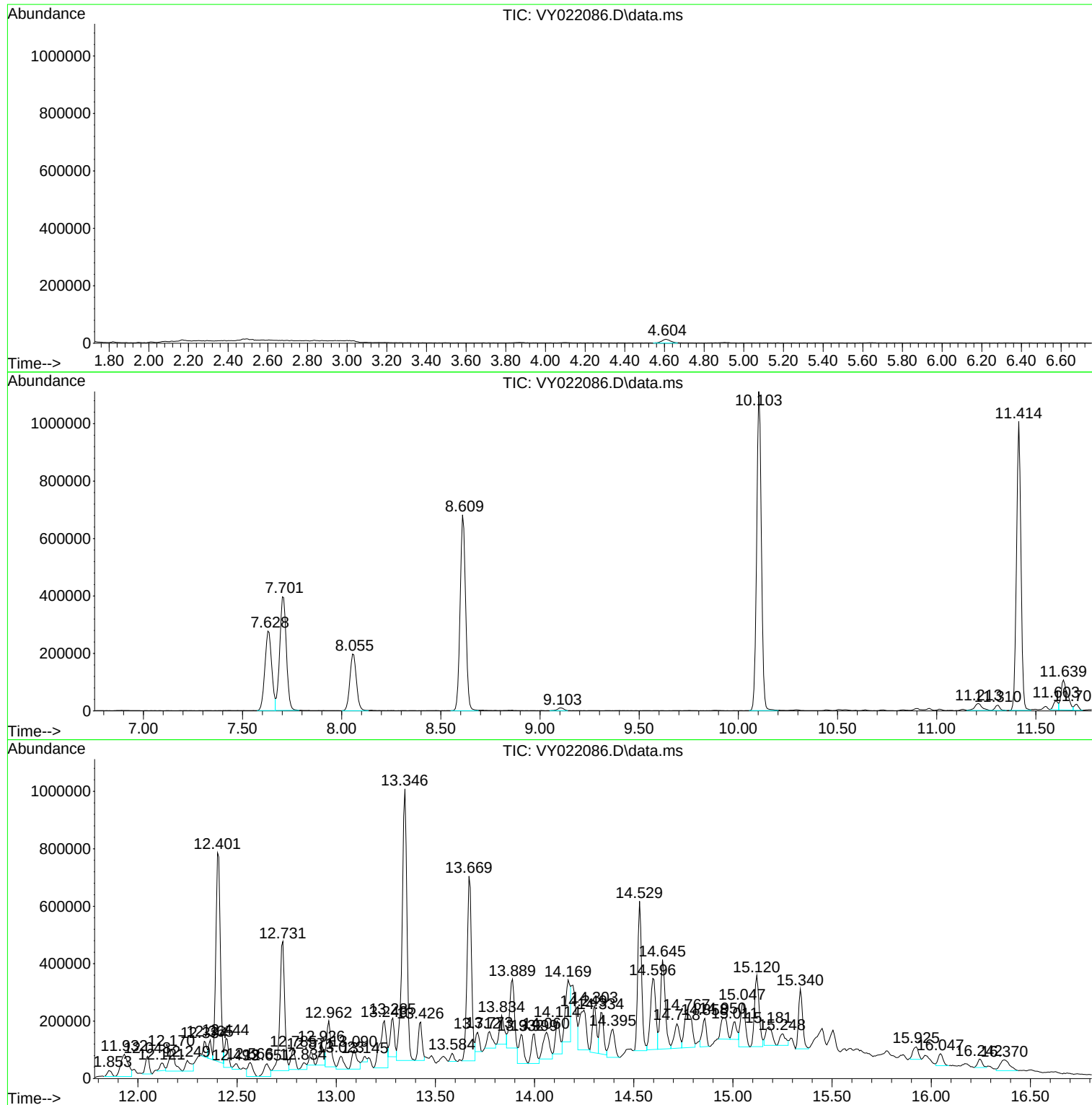
Sum of corrected areas: 21264817

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

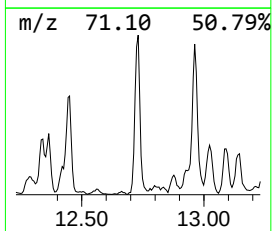
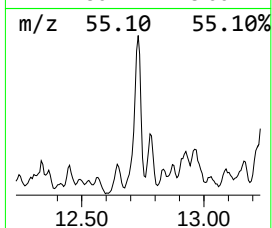
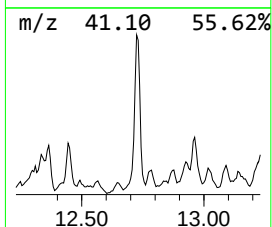
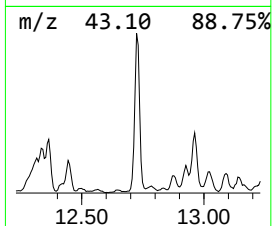
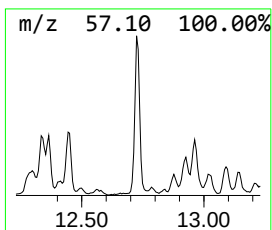
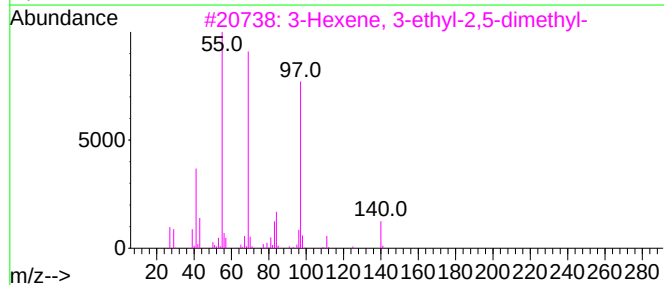
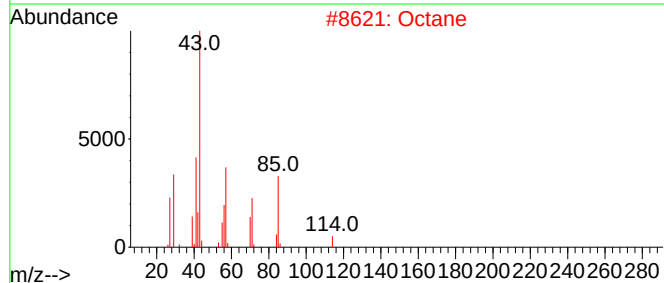
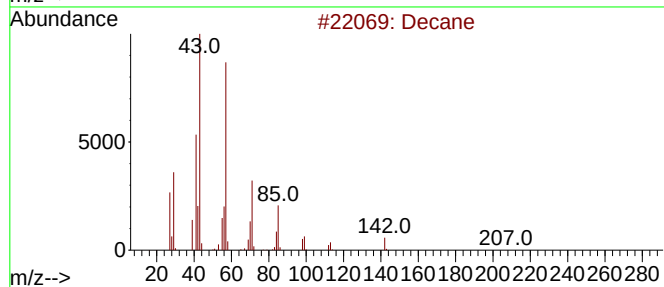
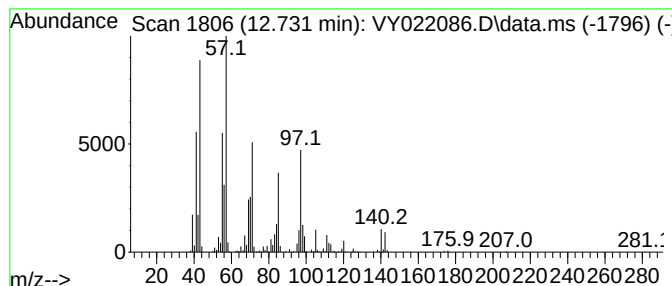
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Quant Title : SW846 8260

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

Peak Number 1 Decane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	23.51 ug/l	752542	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane	142	C10H22	000124-18-5	64
2			Octane	114	C8H18	000111-65-9	43
3			3-Hexene, 3-ethyl-2,5-dimethyl-	140	C10H20	062338-08-3	30
4			Dodecane, 1-iodo-	296	C12H25I	004292-19-7	27
5			Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	25



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

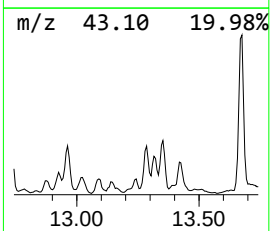
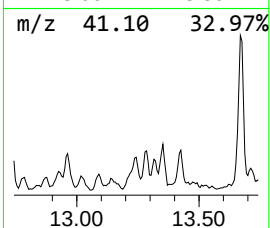
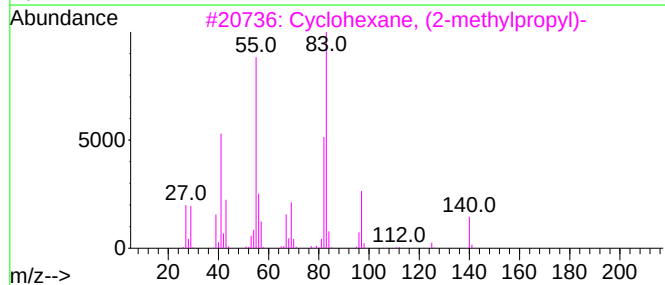
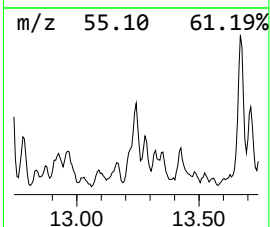
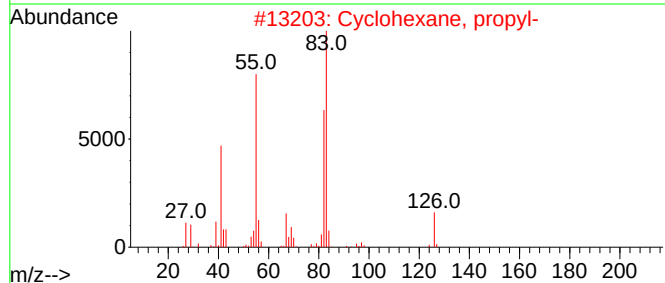
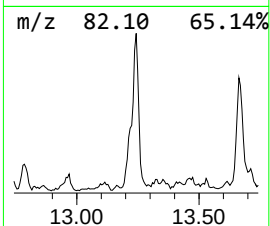
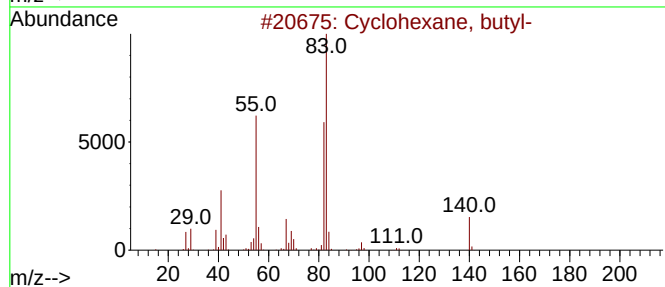
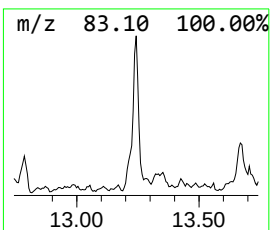
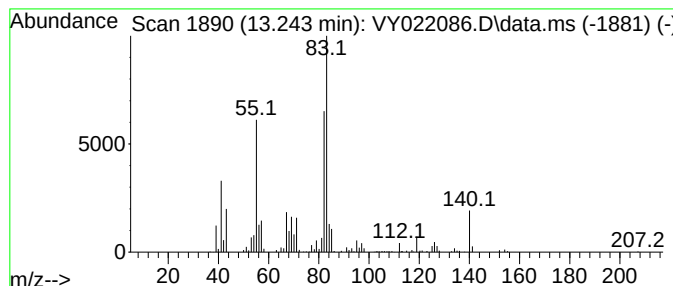
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Quant Title : SW846 8260

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

Peak Number 2 Cyclohexane, butyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.243	11.80 ug/l	377608	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, butyl-	140	C10H20	001678-93-9	94
2			Cyclohexane, propyl-	126	C9H18	001678-92-8	76
3			Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
4			Cyclohexane, pentyl-	154	C11H22	004292-92-6	62
5			Cyclohexane, octyl-	196	C14H28	001795-15-9	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

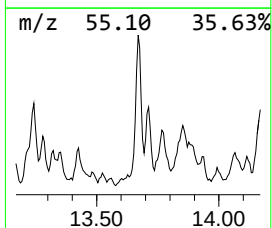
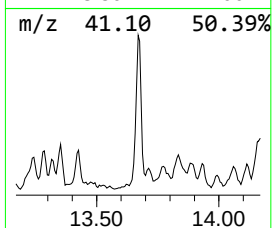
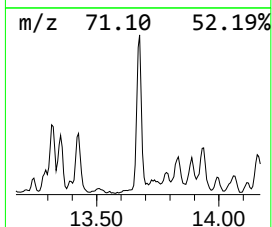
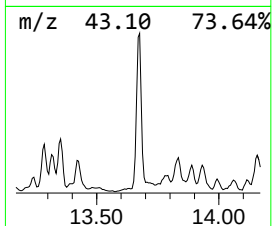
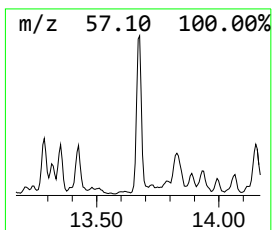
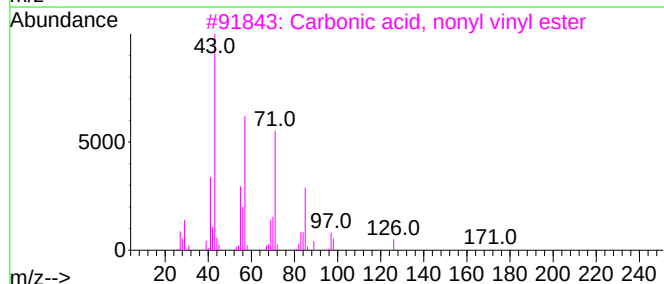
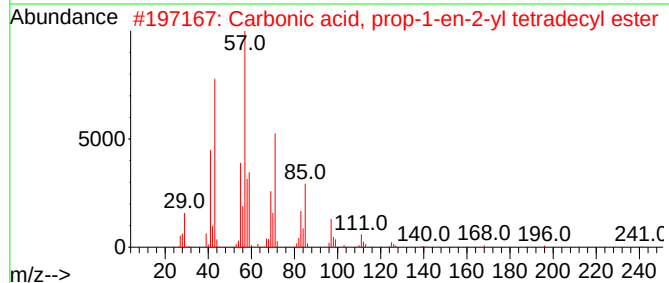
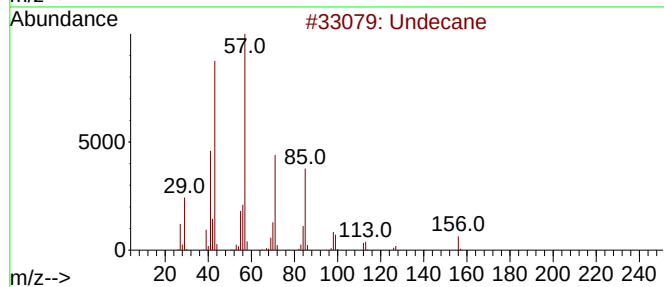
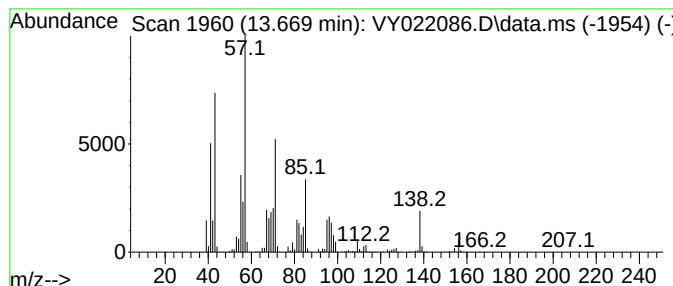
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Quant Title : SW846 8260

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

Peak Number 3 Undecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.669	31.88 ug/l	1020380	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	64
2	Carbonic acid, prop-1-en-2-yl te...			298	C18H34O3	1000382-90-9	53
3	Carbonic acid, nonyl vinyl ester			214	C12H22O3	1000383-25-6	49
4	Carbonic acid, prop-1-en-2-yl tr...			284	C17H32O3	1000382-90-8	49
5	Carbonic acid, nonyl prop-1-en-2...			228	C13H24O3	1000382-53-9	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

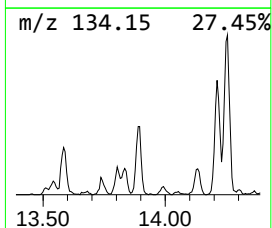
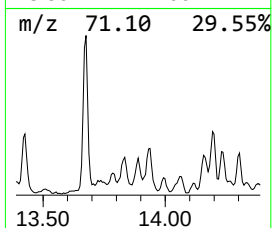
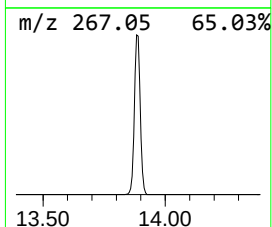
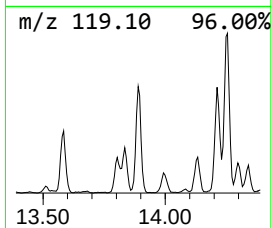
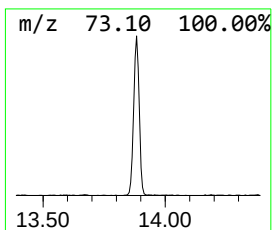
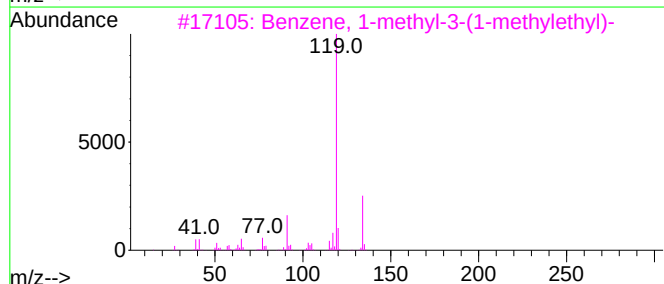
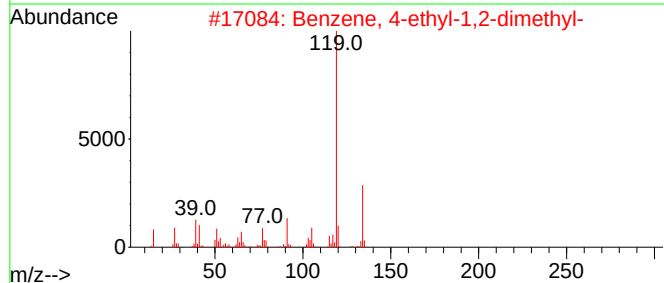
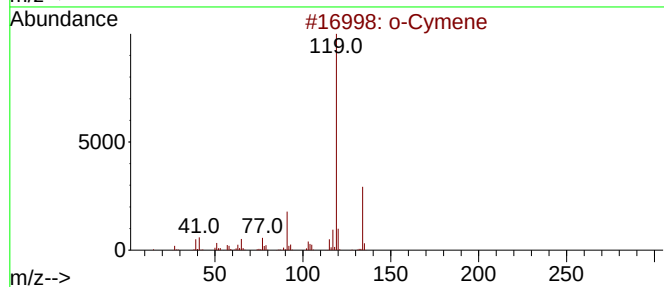
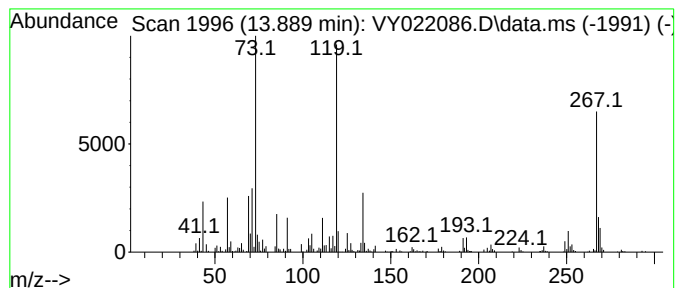
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Quant Title : SW846 8260

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

Peak Number 4 o-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	12.24 ug/l	391617	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			o-Cymene	134	C10H14	000527-84-4	89
2			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	89
3			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	86
4			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	86
5			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

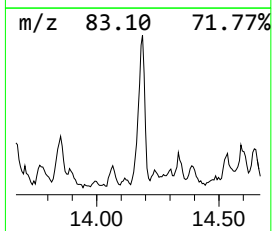
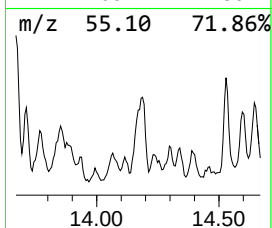
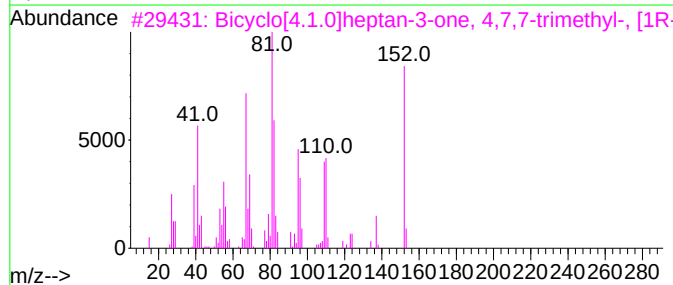
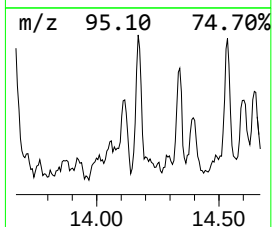
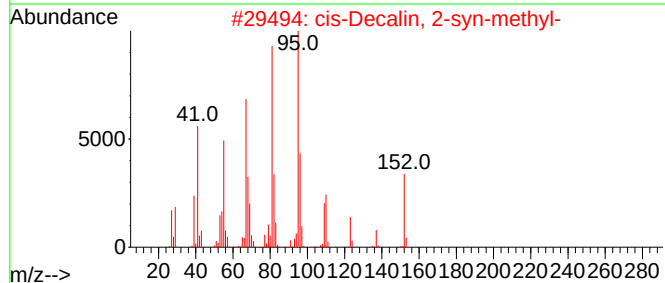
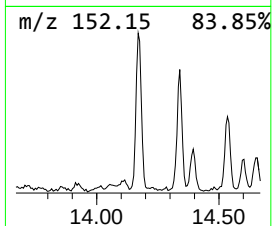
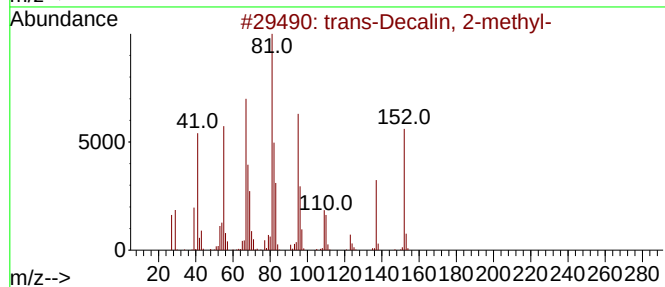
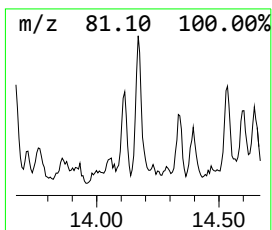
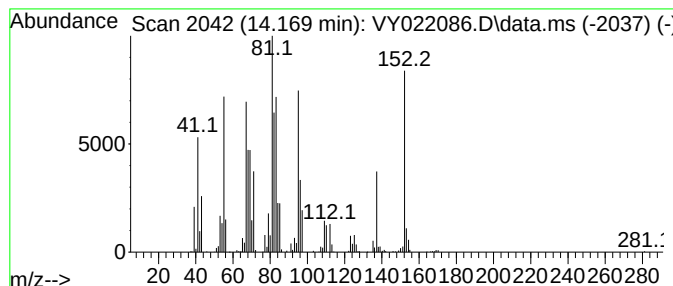
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Quant Title : SW846 8260

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

Peak Number 5 trans-Decalin, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	11.99 ug/l	383840	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	90
2			cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	62
3			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	62
4			Decalin, anti-1-methyl-, cis-	152	C11H20	1000158-89-0	58
5			Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

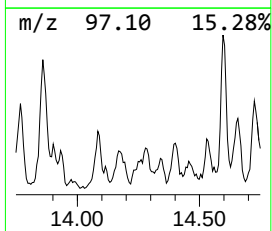
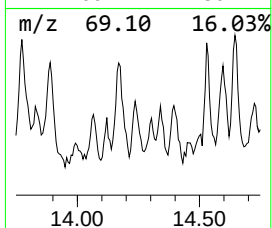
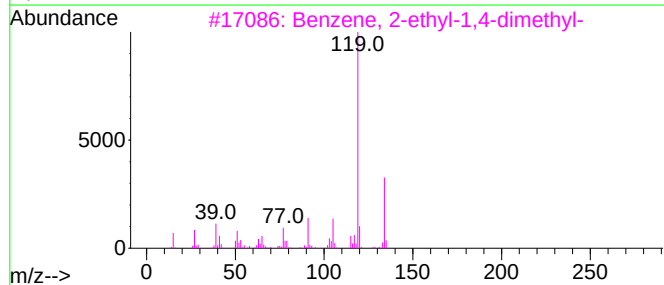
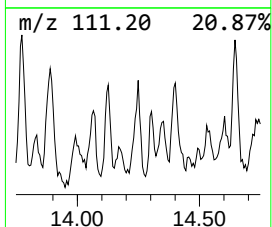
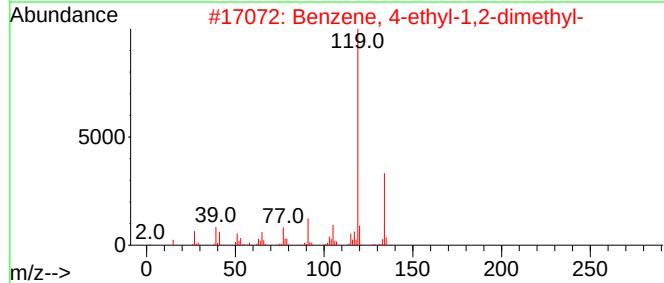
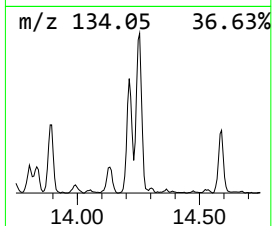
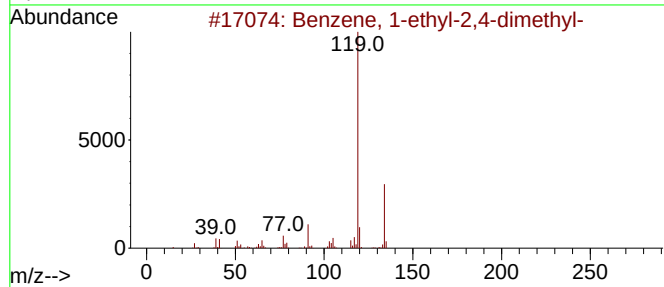
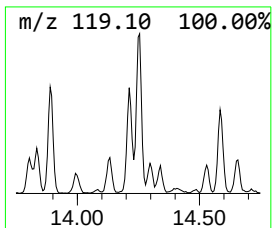
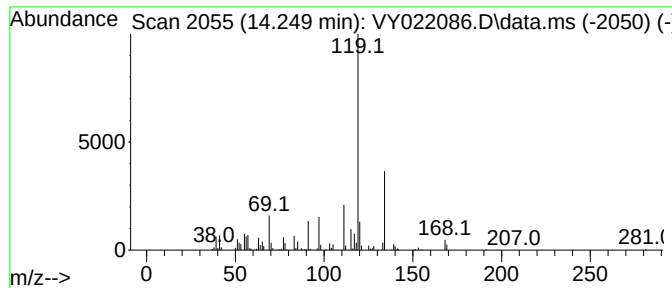
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Quant Title : SW846 8260

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

Peak Number 6 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.249	9.82 ug/l	314340	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	76
2			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	72
3			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	72
4			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	72
5			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

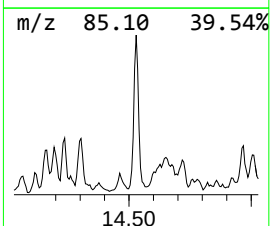
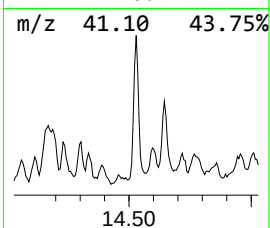
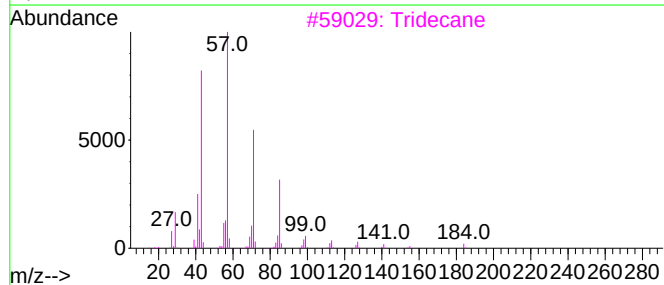
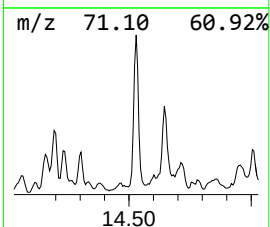
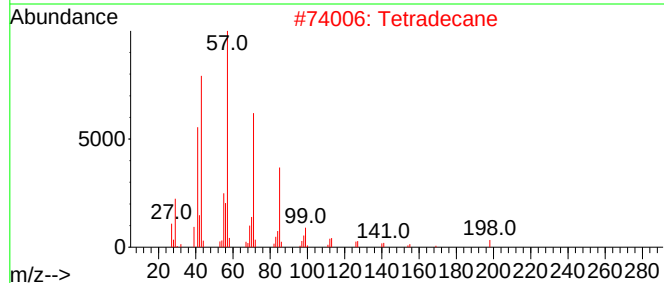
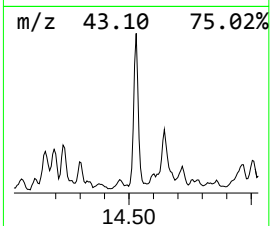
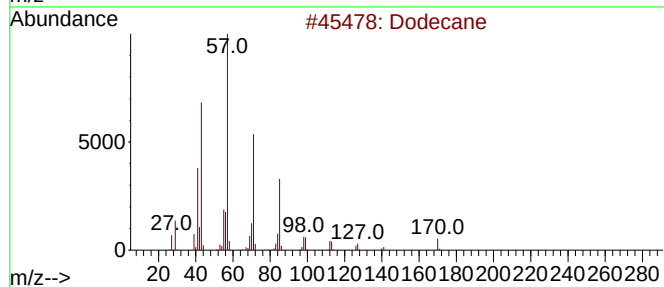
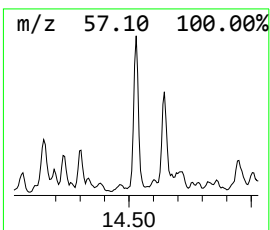
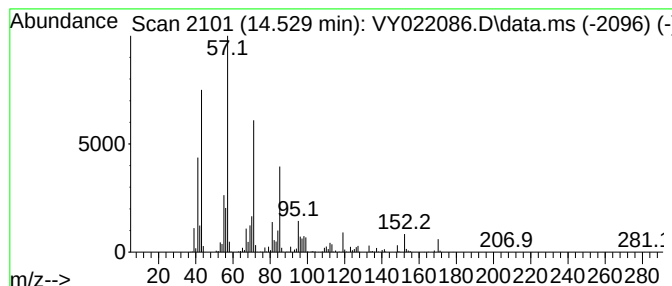
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Quant Title : SW846 8260

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

Peak Number 7 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	22.37 ug/l	715944	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane	170	C12H26	000112-40-3	95
2			Tetradecane	198	C14H30	000629-59-4	72
3			Tridecane	184	C13H28	000629-50-5	64
4			Nonadecane	268	C19H40	000629-92-5	64
5			10-Methylnonadecane	282	C20H42	056862-62-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

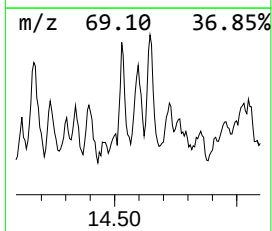
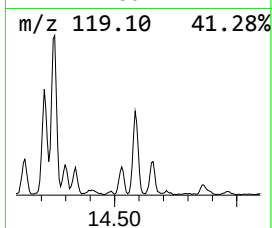
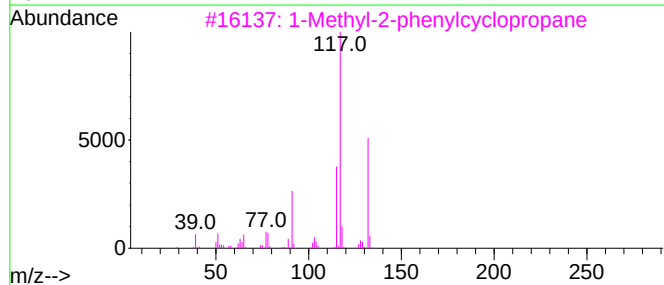
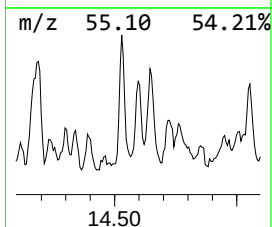
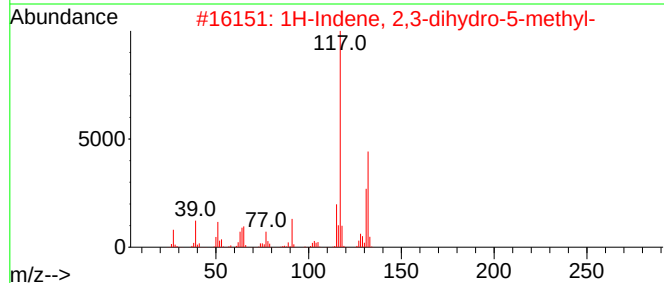
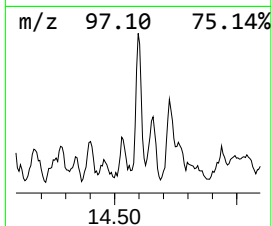
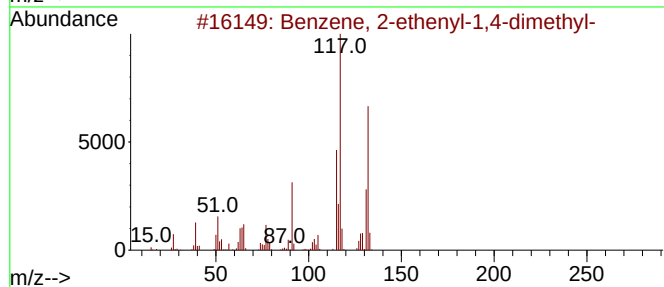
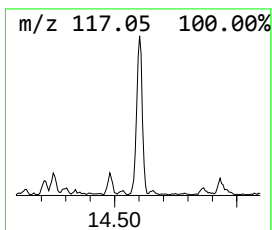
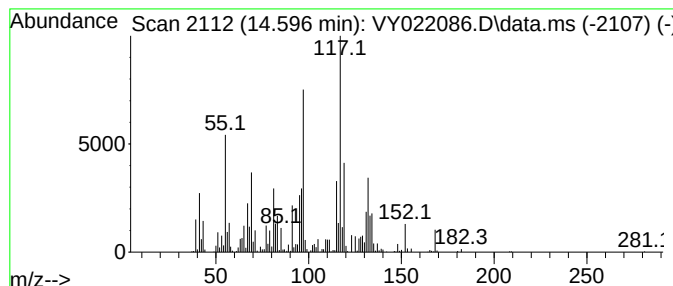
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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

Peak Number 8 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	14.42 ug/l	461624	1,4-Dichlorobenzene-d4	13.346

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	56
2		1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	38
3		1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	38
4		Benzene, (3-chloro-1-propenyl)-	152	C9H9Cl	002687-12-9	35
5		1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

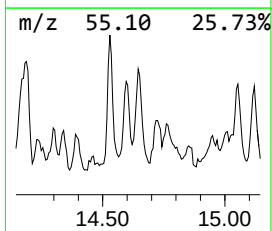
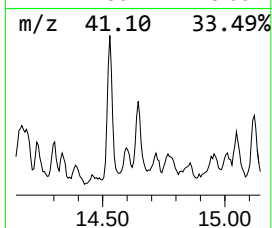
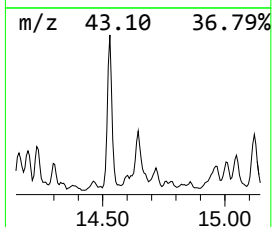
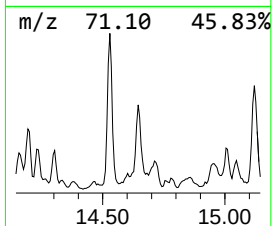
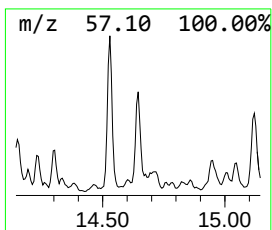
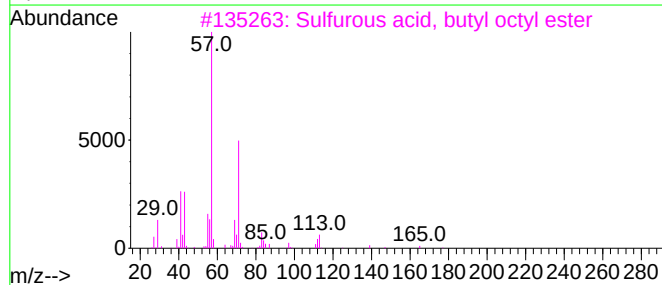
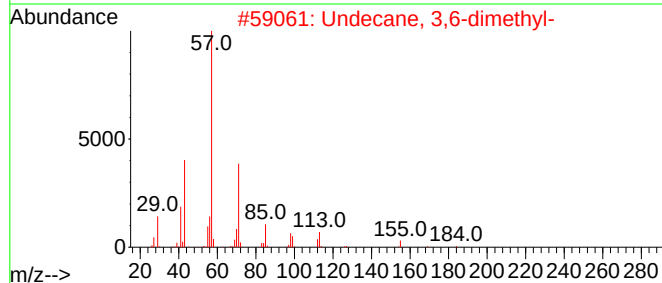
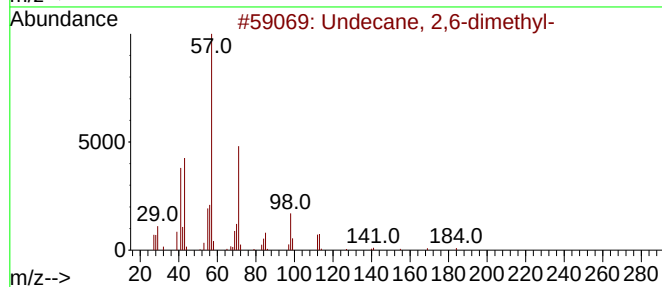
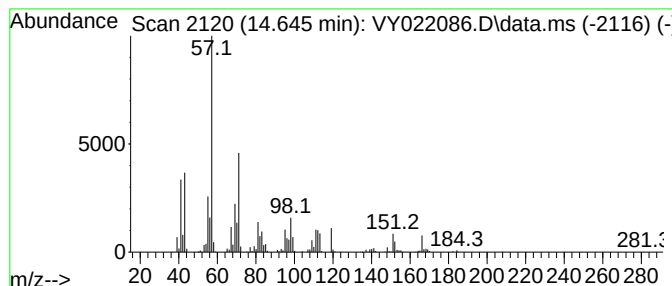
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Quant Title : SW846 8260

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

Peak Number 9 Undecane, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	16.21 ug/l	518896	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	53
2			Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	49
3			Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	46
4			Nonane, 3-methyl-	142	C10H22	005911-04-6	46
5			Carbonic acid, 2,2,2-trichloroet...	262	C8H13Cl3O3	1000357-89-3	43

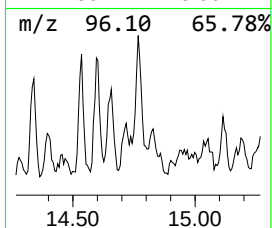
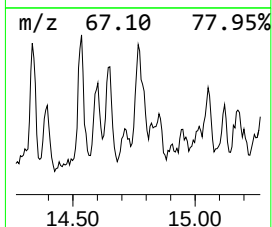
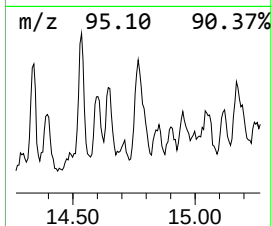
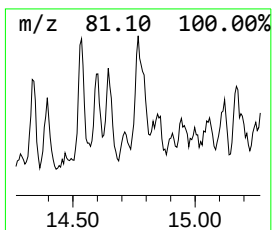


Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

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

Peak Number	Compound Name	Concentration	Rank
10	1H-Indene, 1-ethyloctahydro...		9

R.T.	EstConc	Area	Relative to ISTD			R.T.
14.767	10.10 ug/l	323349	1,4-Dichlorobenzene-d4			13.346
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1-ethyloctahydro-7a-m...	166	C12H22		056324-71-1	74
2	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O		015932-80-6	60
3	Cyclohexene,1-hexyl-	166	C12H22		003964-66-7	60
4	Cyclohexene, 1-pentyl-	152	C11H20		015232-85-6	60
5	Decalin, anti-1-methyl-, cis-	152	C11H20		1000158-89-0	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022086.D
Acq On : 30 Apr 2025 16:42
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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
Decane	12.731	23.5	ug/l	752542	4	13.346	1600260	50.0
Cyclohexane, bu...	13.243	11.8	ug/l	377608	4	13.346	1600260	50.0
Undecane	13.669	31.9	ug/l	1020380	4	13.346	1600260	50.0
o-Cymene	13.889	12.2	ug/l	391617	4	13.346	1600260	50.0
trans-Decalin, ...	14.169	12.0	ug/l	383840	4	13.346	1600260	50.0
Benzene, 1-ethy...	14.249	9.8	ug/l	314340	4	13.346	1600260	50.0
Dodecane	14.529	22.4	ug/l	715944	4	13.346	1600260	50.0
Benzene, 2-ethe...	14.596	14.4	ug/l	461624	4	13.346	1600260	50.0
Undecane, 2,6-d...	14.645	16.2	ug/l	518896	4	13.346	1600260	50.0
1H-Indene, 1-et...	14.767	10.1	ug/l	323349	4	13.346	1600260	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	7.83 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
VY022087.D	1		04/30/25 17:05	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.88	U	0.88	3.90	ug/Kg
74-87-3	Chloromethane	0.88	U	0.88	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.61	U	0.61	3.90	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	3.90	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.94	U	0.94	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.82	U	0.82	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.77	U	0.77	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.56	U	0.56	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.70	U	2.70	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.61	U	0.61	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.90	ug/Kg
74-97-5	Bromochloromethane	0.89	U	0.89	3.90	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	3.90	ug/Kg
71-43-2	Benzene	0.61	U	0.61	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.70	U	0.70	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.60	U	0.60	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.3	ug/Kg
108-88-3	Toluene	0.60	U	0.60	3.90	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	04/28/25	
Client Sample ID:	B-167-SB01		SDG No.:	Q1901	
Lab Sample ID:	Q1901-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	82.6	
Sample Wt/Vol:	7.83	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
VY022087.D	1		04/30/25 17:05	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.50	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.71	U	0.71	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.3	ug/Kg
124-48-1	Dibromochloromethane	0.67	U	0.67	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.81	U	0.81	3.90	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.96	U	0.96	7.70	ug/Kg
95-47-6	o-Xylene	0.63	U	0.63	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.60	U	0.60	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	0.94	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	53.3		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.1		70 (38) - 130 (136)	72%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	348000	7.707			
540-36-3	1,4-Difluorobenzene	652000	8.61			
3114-55-4	Chlorobenzene-d5	556000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.6
Sample Wt/Vol:	7.83 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
VY022087.D	1		04/30/25 17:05	VY043025

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\VY043025\
 Data File : VY022087.D
 Acq On : 30 Apr 2025 17:05
 Operator : SY/MD
 Sample : Q1901-02
 Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-167-SB01

Quant Time: May 01 01:38:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	348376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	652384	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	556238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	176600	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	171544	53.310	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	106.620%
35) Dibromofluoromethane	7.628	113	220356	51.127	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.260%
50) Toluene-d8	10.103	98	774744	47.680	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.360%
62) 4-Bromofluorobenzene	12.402	95	197352	36.079	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	72.160%

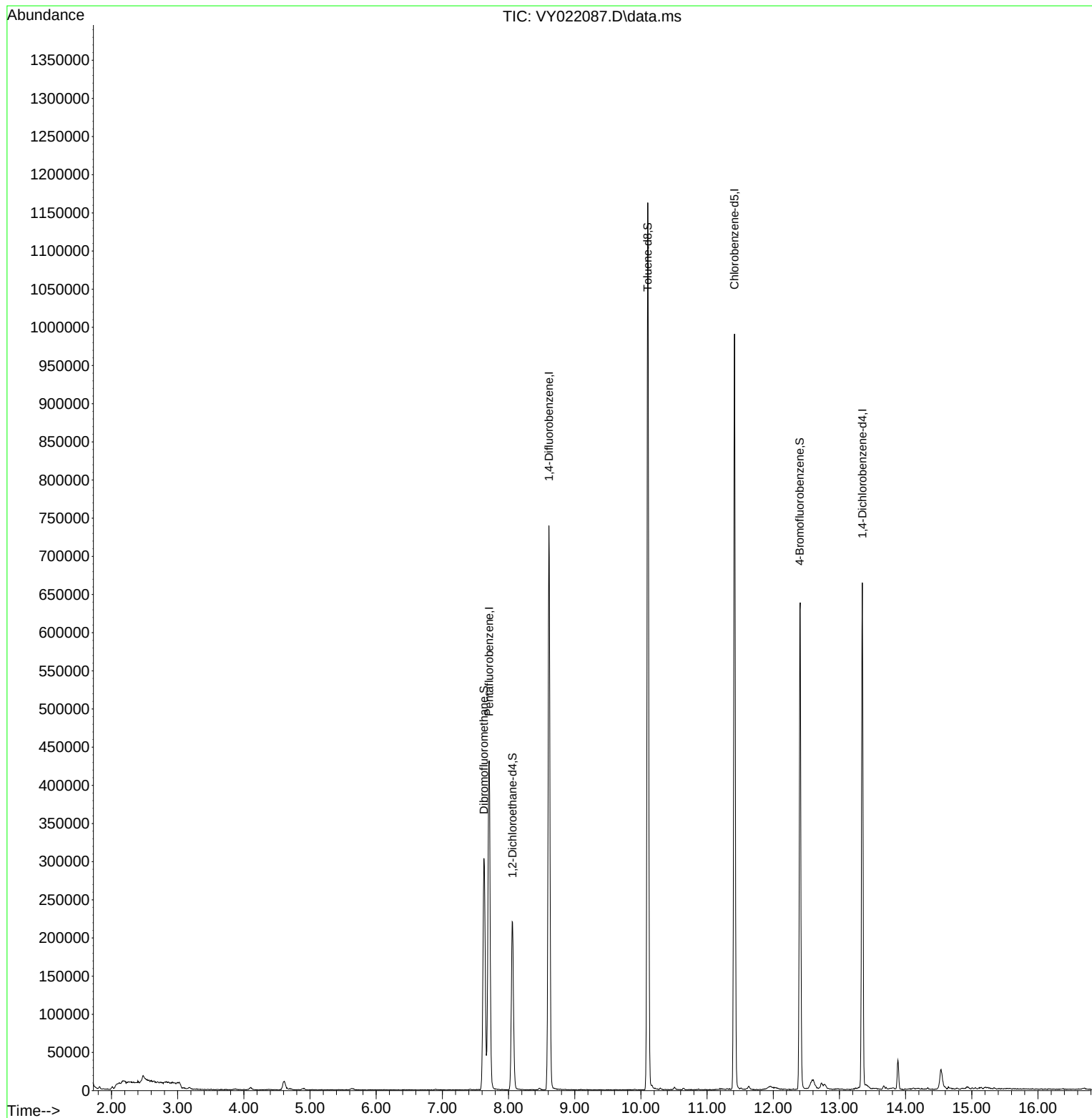
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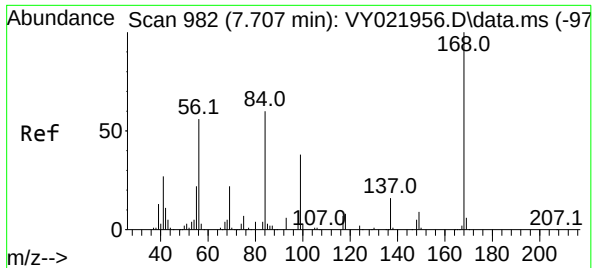
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Time: May 01 01:38:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

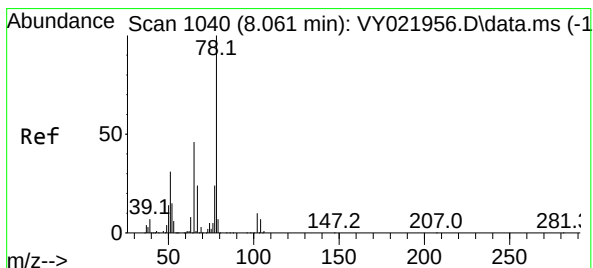
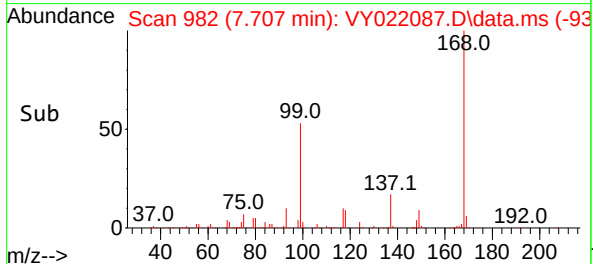
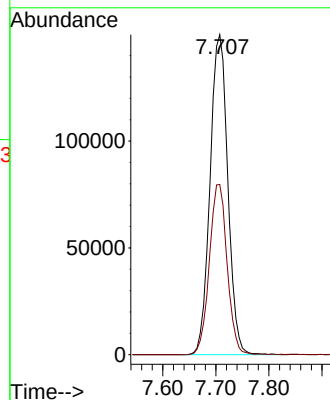
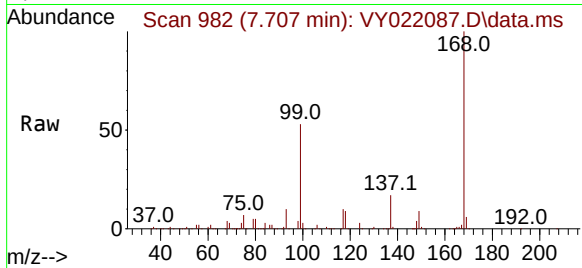




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

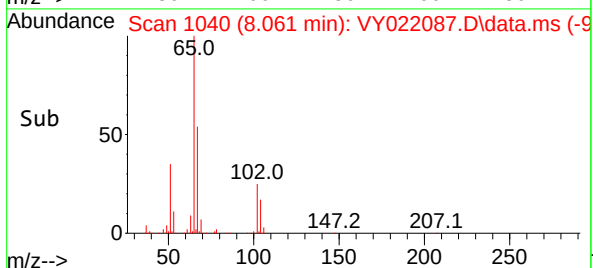
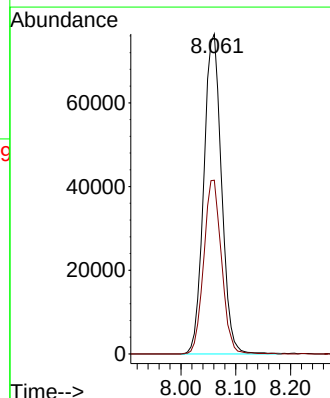
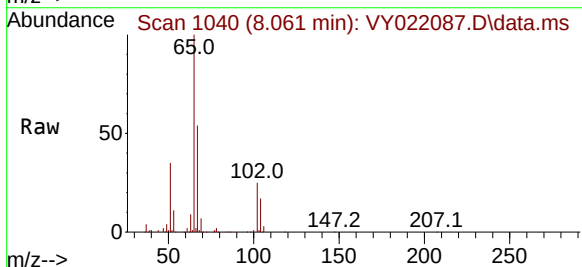
Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

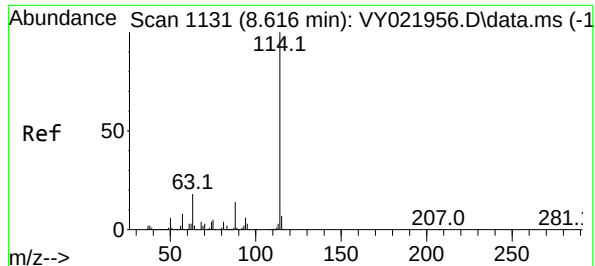
Tgt Ion:168 Resp: 348376
Ion Ratio Lower Upper
168 100
99 53.2 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 53.310 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 65 Resp: 171544
Ion Ratio Lower Upper
65 100
67 54.4 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022087.D

Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_Y

ClientSampleId :

B-167-SB01

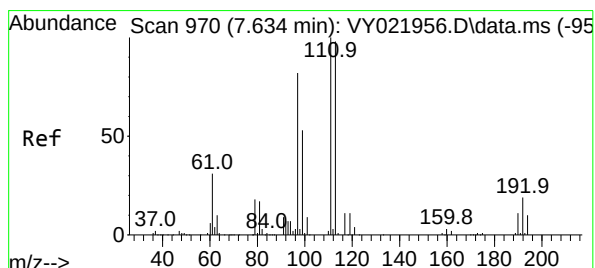
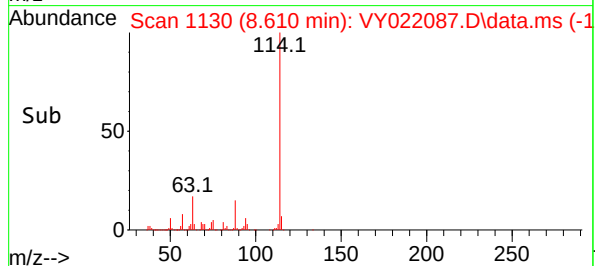
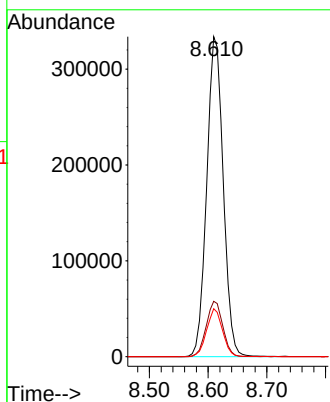
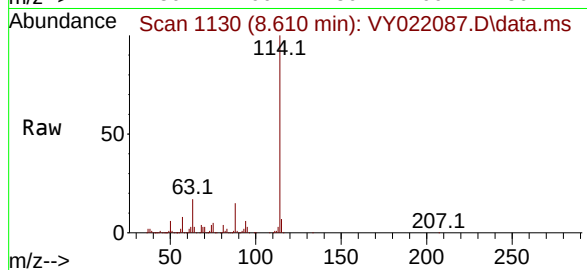
Tgt Ion:114 Resp: 652384

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.4

88 15.0 0.0 28.2



#35

Dibromofluoromethane

Concen: 51.127 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY022087.D

Acq: 30 Apr 2025 17:05

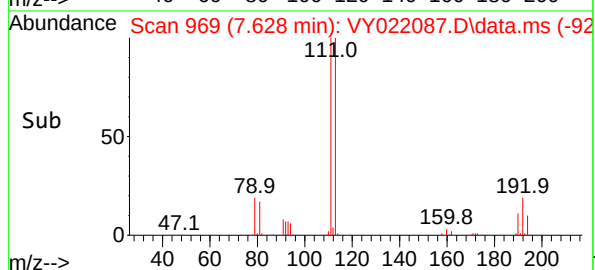
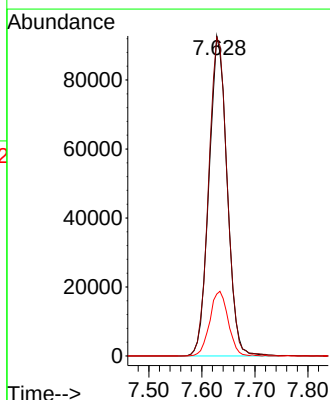
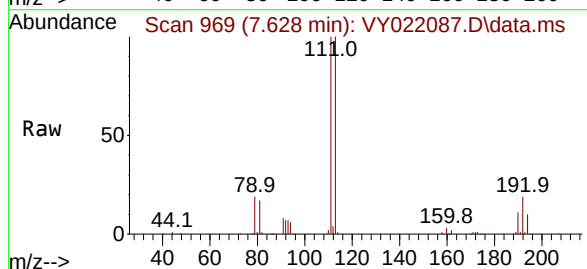
Tgt Ion:113 Resp: 220356

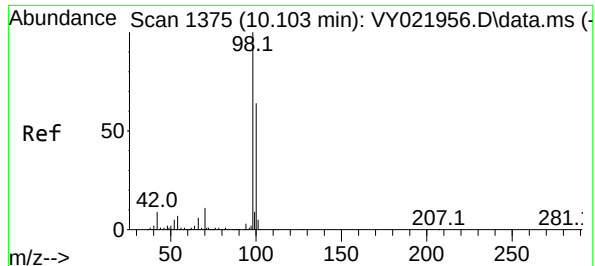
Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.8

192 20.5 15.6 23.4

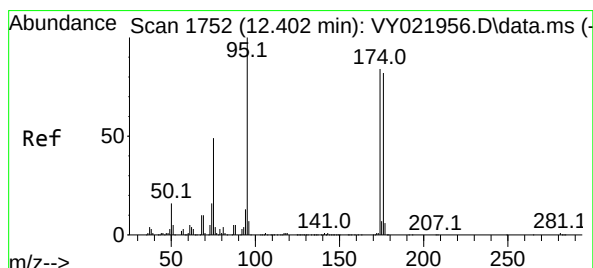
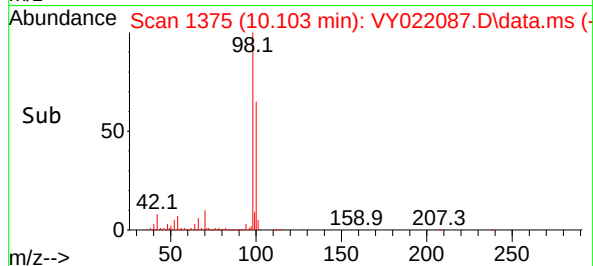
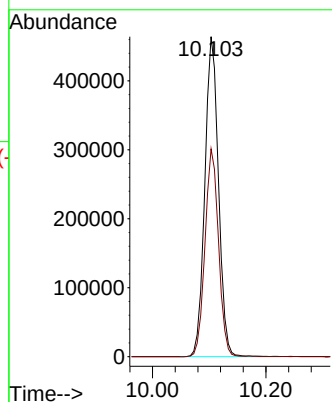
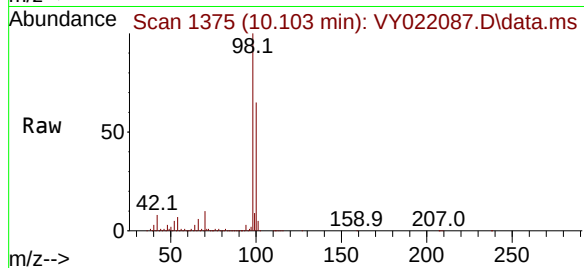




#50
Toluene-d8
Concen: 47.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

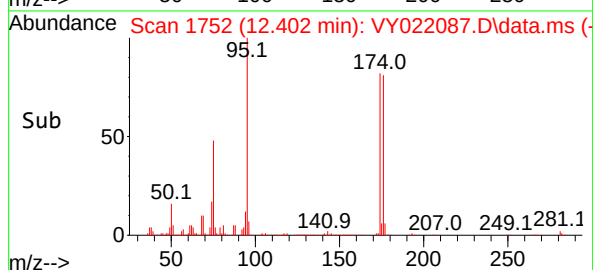
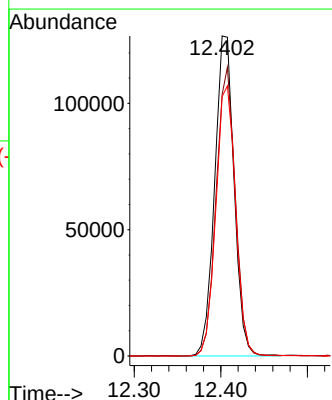
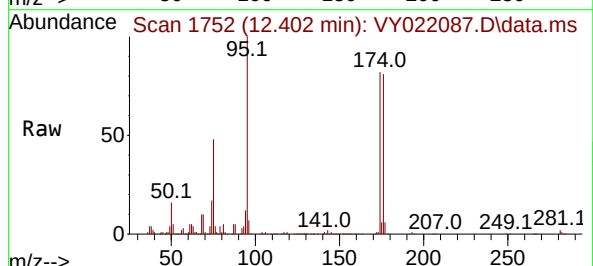
Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

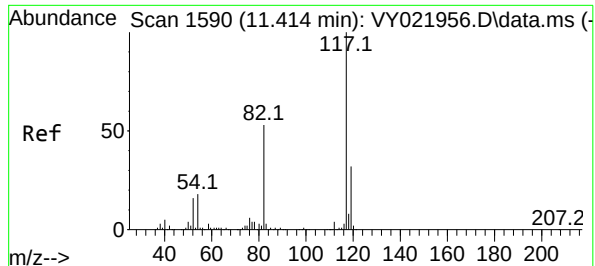
Tgt Ion: 98 Resp: 774744
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 36.079 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 95 Resp: 197352
Ion Ratio Lower Upper
95 100
174 89.1 0.0 179.0
176 85.9 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022087.D

Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_Y

ClientSampleId :

B-167-SB01

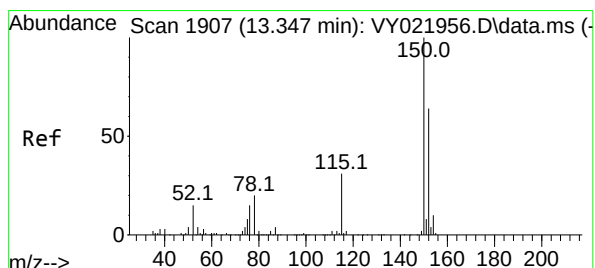
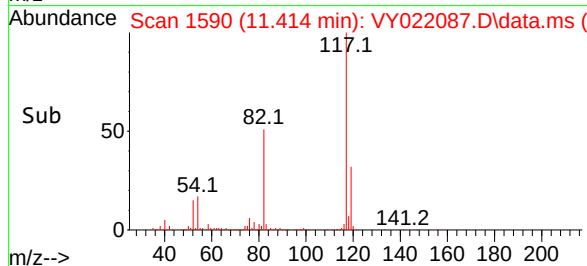
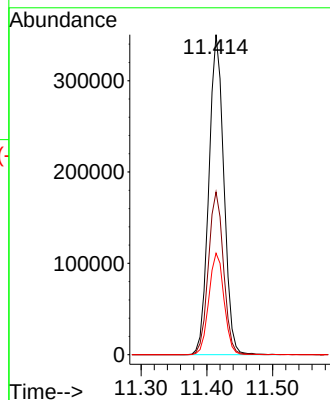
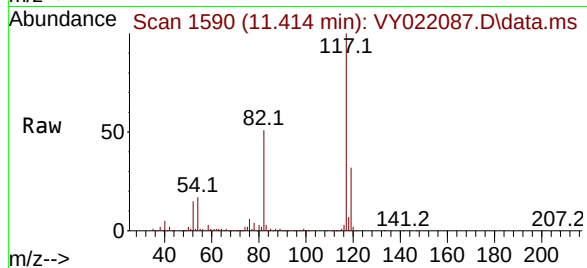
Tgt Ion:117 Resp: 556238

Ion Ratio Lower Upper

117 100

82 50.8 42.1 63.1

119 31.7 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022087.D

Acq: 30 Apr 2025 17:05

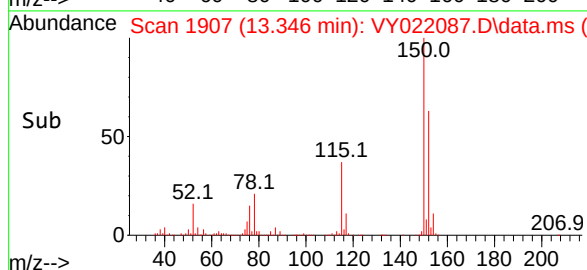
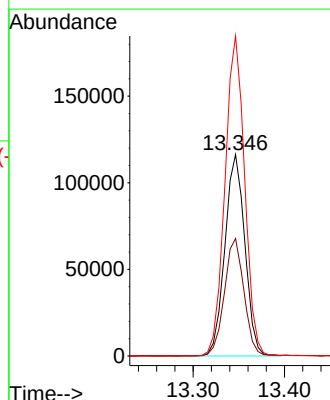
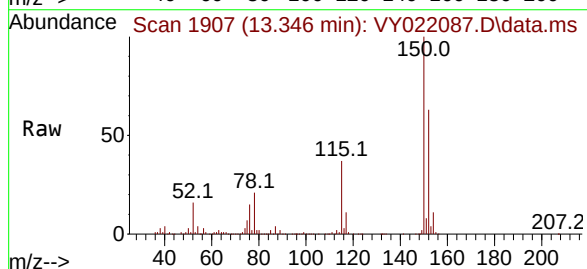
Tgt Ion:152 Resp: 176600

Ion Ratio Lower Upper

152 100

115 57.1 28.0 84.0

150 156.7 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

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\82Y042225S.M

Title : SW846 8260

Signal : TIC: VY022087.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	466	474	486	rBV3	10797	33974	1.73%	0.360%
2	7.628	960	969	975	rBV	303091	717981	36.65%	7.598%
3	7.707	975	982	995	rVB	430331	1006973	51.40%	10.656%
4	8.055	1029	1039	1053	rBV	220335	507154	25.89%	5.367%
5	8.610	1121	1130	1145	rBV	738952	1430705	73.03%	15.141%
6	10.103	1366	1375	1384	rBV	1162637	1959042	100.00%	20.732%
7	11.414	1581	1590	1603	rBV	989968	1589638	81.14%	16.822%
8	12.408	1745	1753	1764	rBV	637371	1033090	52.73%	10.933%
9	12.584	1772	1782	1783	rBV5	10844	22801	1.16%	0.241%
10	13.346	1900	1907	1914	rBV	661155	1006788	51.39%	10.654%
11	13.883	1990	1995	2001	rVB	37935	61829	3.16%	0.654%
12	14.535	2091	2102	2116	rBV2	26000	79525	4.06%	0.842%

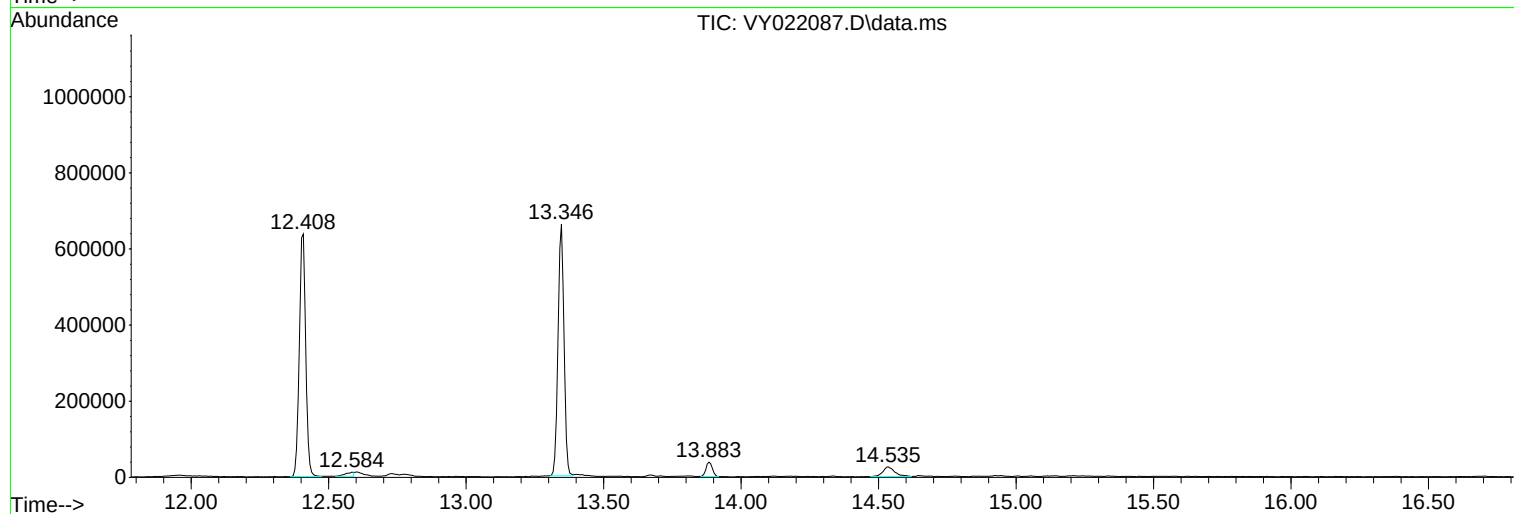
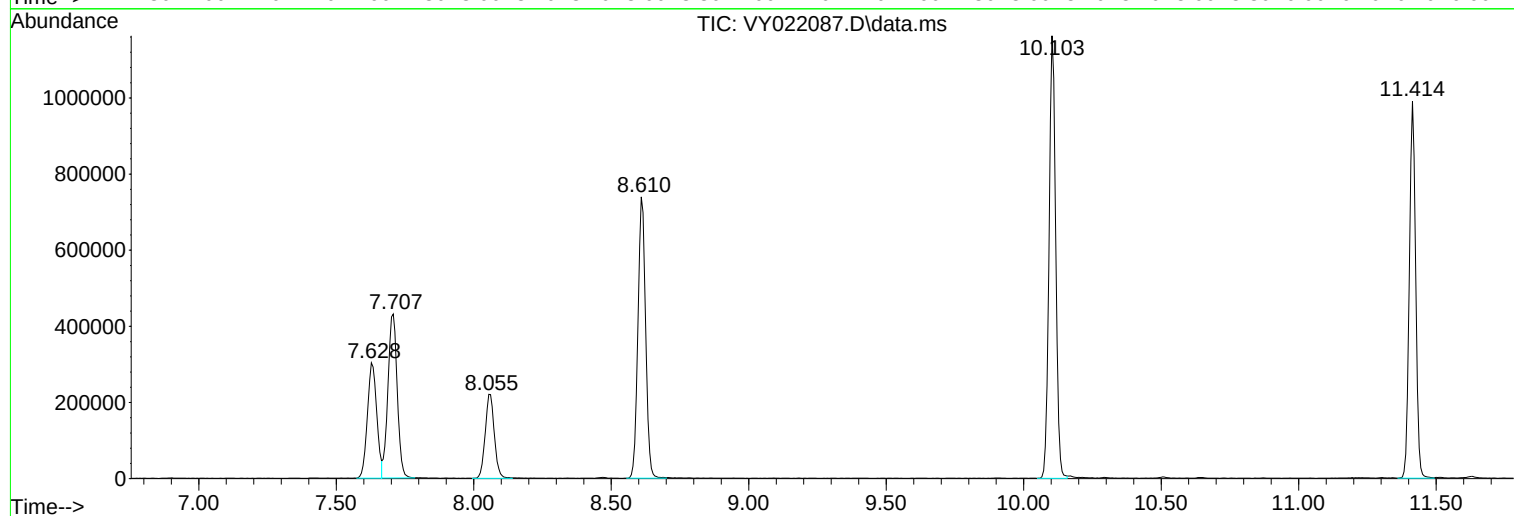
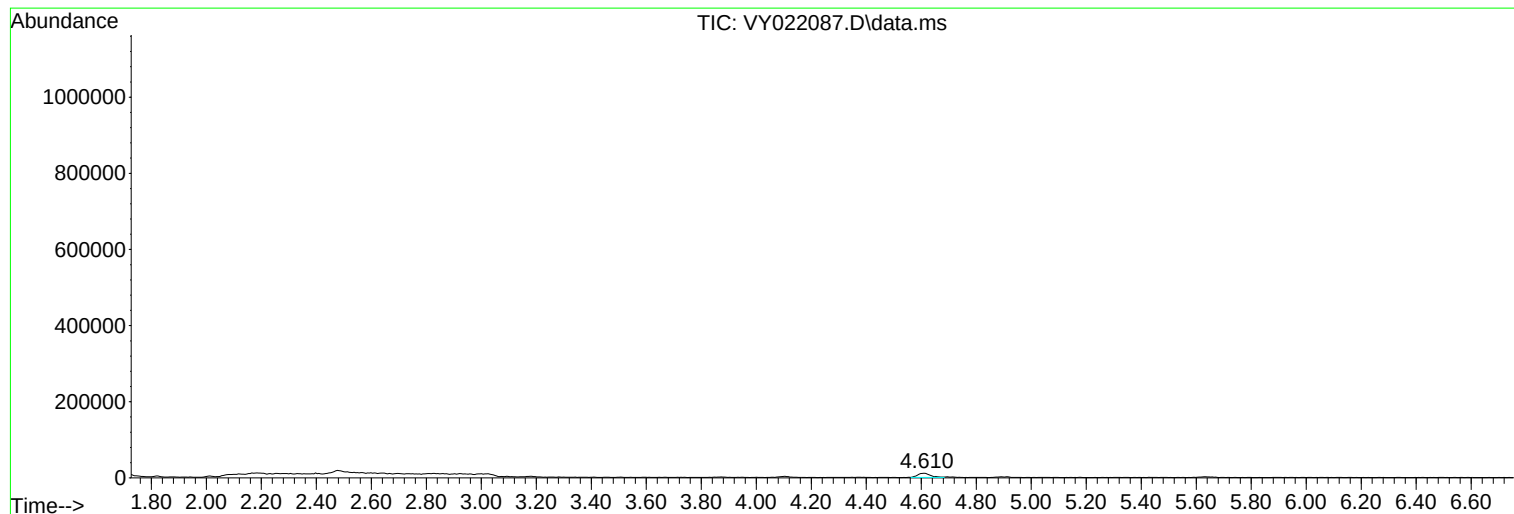
Sum of corrected areas: 9449500

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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\VY043025\
Data File : VY022087.D
Acq On : 30 Apr 2025 17:05
Operator : SY/MD
Sample : Q1901-02
Misc : 7.83g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	7.35 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
VY022088.D	1		04/30/25 17:29	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	U	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.82	U	0.82	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.5	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.5	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	04/28/25	
Client Sample ID:	B-170-SB01		SDG No.:	Q1901	
Lab Sample ID:	Q1901-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	83	
Sample Wt/Vol:	7.35	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
VY022088.D	1		04/30/25 17:29	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.5	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.20	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (63) - 130 (155)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (38) - 130 (136)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	370000	7.707			
540-36-3	1,4-Difluorobenzene	709000	8.609			
3114-55-4	Chlorobenzene-d5	641000	11.413			
3855-82-1	1,4-Dichlorobenzene-d4	256000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	7.35 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
VY022088.D	1		04/30/25 17:29	VY043025

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\VY043025\
 Data File : VY022088.D
 Acq On : 30 Apr 2025 17:29
 Operator : SY/MD
 Sample : Q1901-03
 Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB01

Quant Time: May 01 01:38:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	370218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	709340	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	640665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	256467	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	184332	53.904	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	107.800%
35) Dibromofluoromethane	7.628	113	234145	49.964	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.920%
50) Toluene-d8	10.103	98	851694	48.208	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.420%
62) 4-Bromofluorobenzene	12.407	95	245148	41.219	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.440%

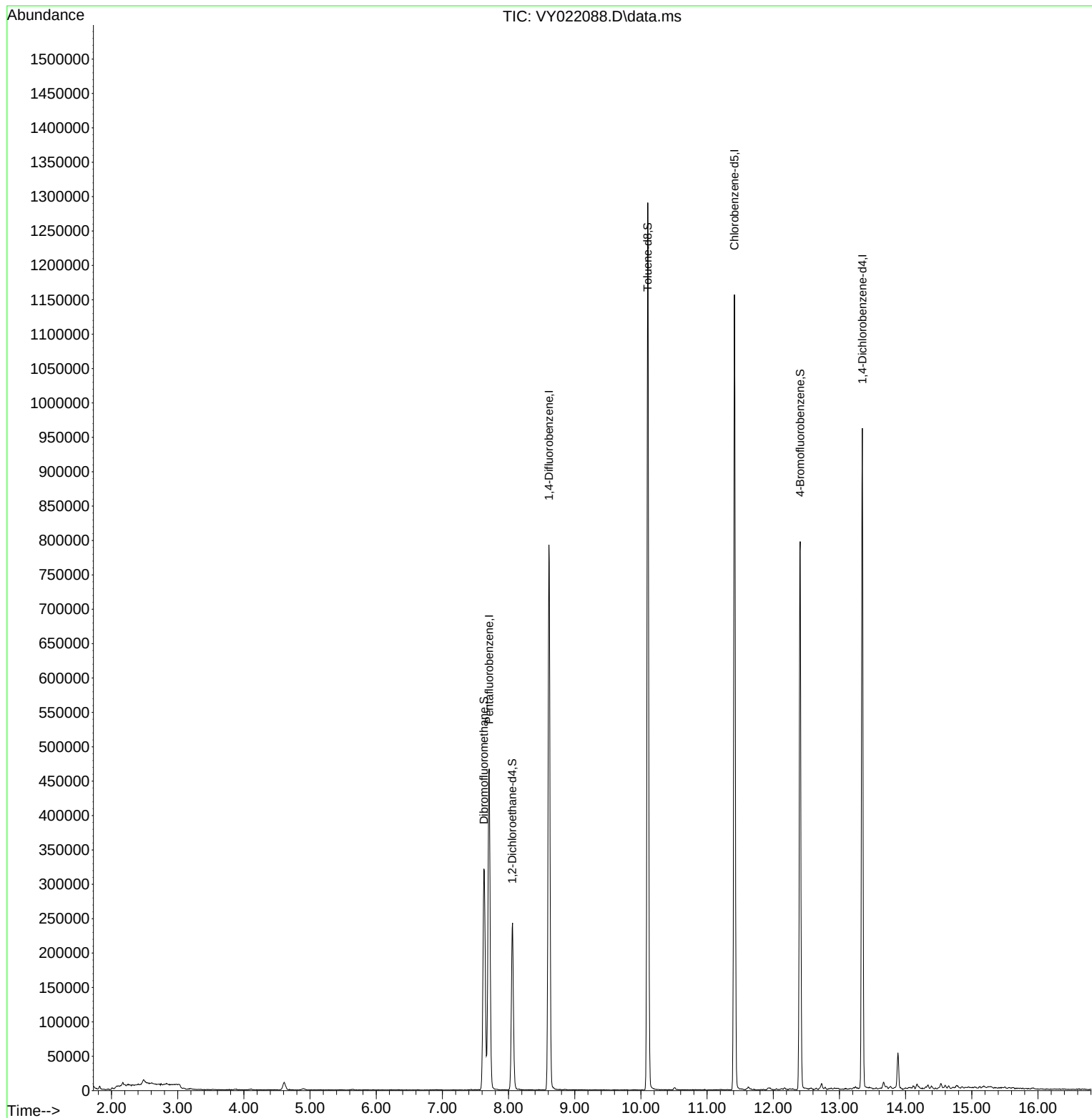
Target Compounds	Qvalue

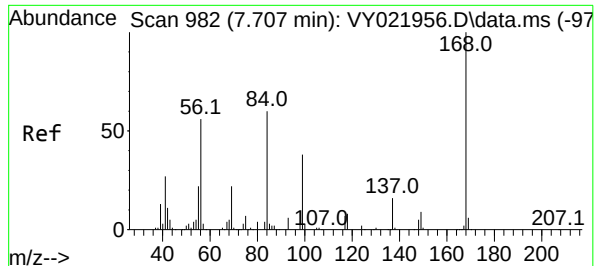
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022088.D
Acq On : 30 Apr 2025 17:29
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Time: May 01 01:38:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

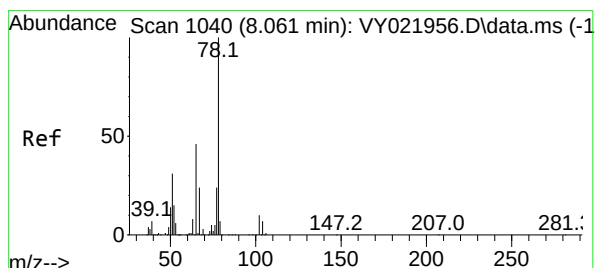
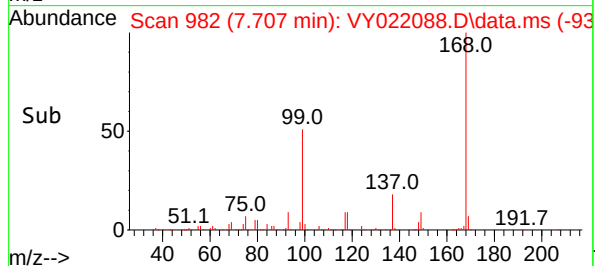
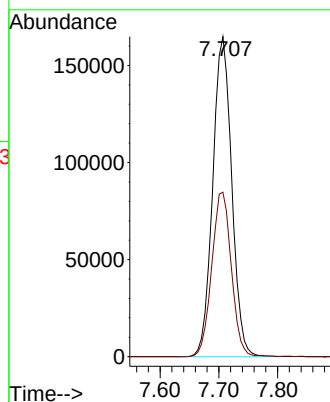
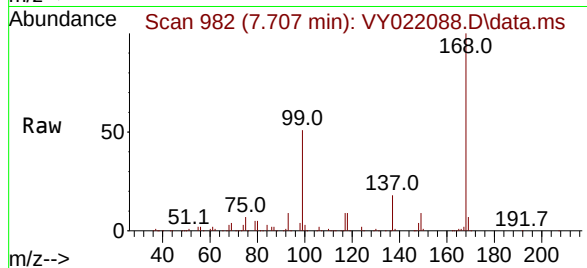




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022088.D
Acq: 30 Apr 2025 17:29

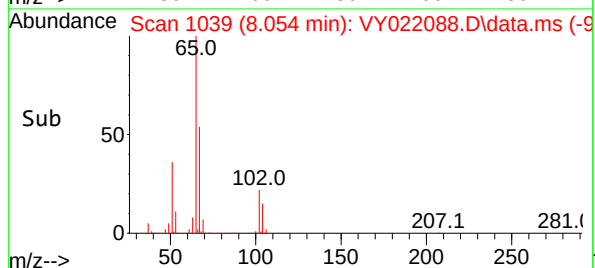
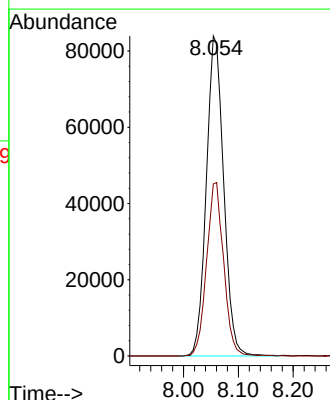
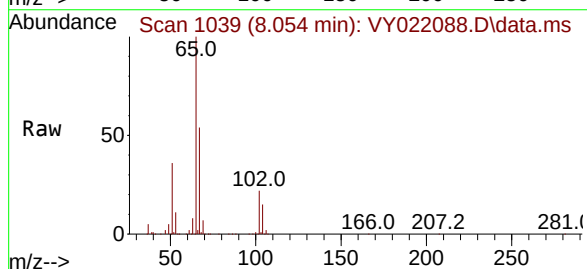
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

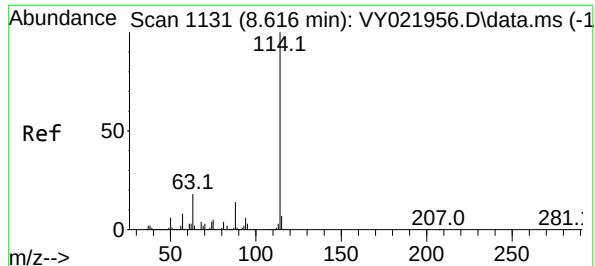
Tgt Ion:168 Resp: 370218
Ion Ratio Lower Upper
168 100
99 51.4 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 53.904 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.007 min
Lab File: VY022088.D
Acq: 30 Apr 2025 17:29

Tgt Ion: 65 Resp: 184332
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.007 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB01

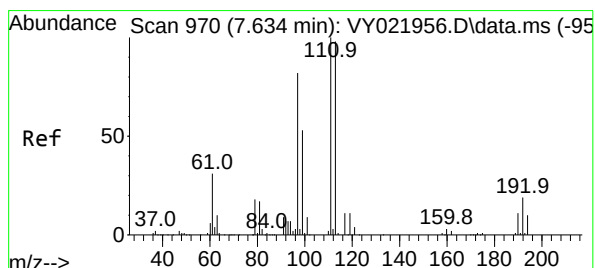
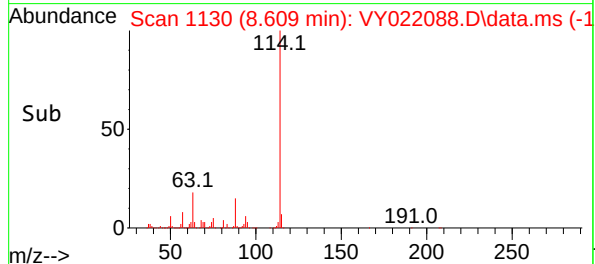
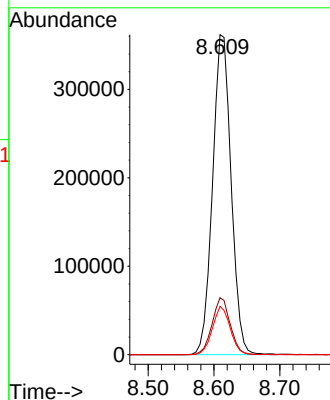
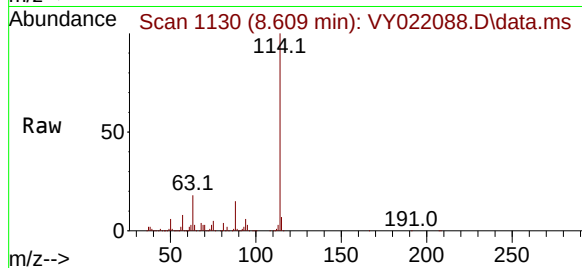
Tgt Ion:114 Resp: 709340

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.4

88 15.1 0.0 28.2



#35

Dibromofluoromethane

Concen: 49.964 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.007 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

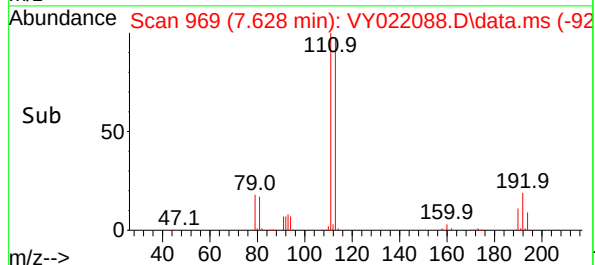
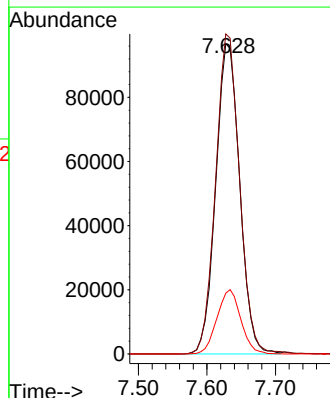
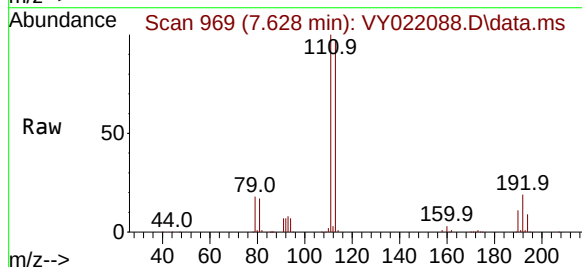
Tgt Ion:113 Resp: 234145

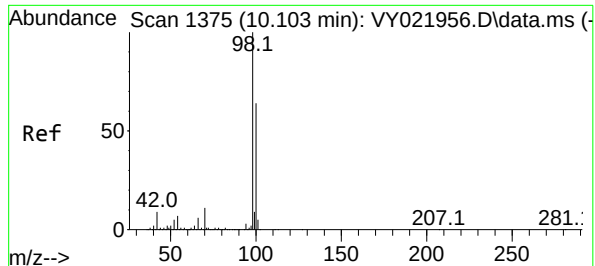
Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

192 20.6 15.6 23.4





#50

Toluene-d8

Concen: 48.208 ug/l

RT: 10.103 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

Instrument :

MSVOA_Y

ClientSampleId :

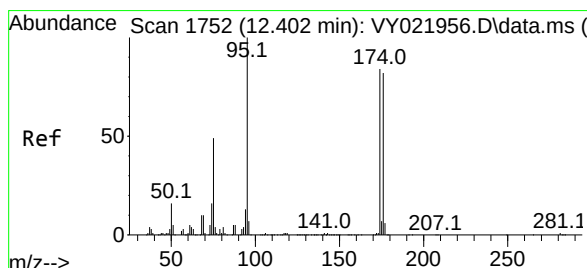
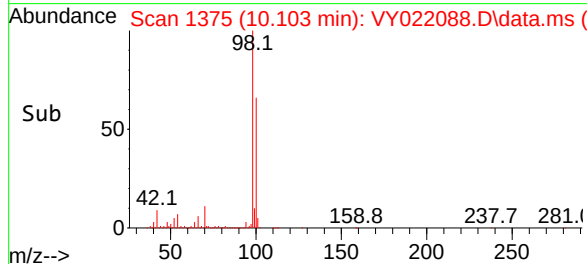
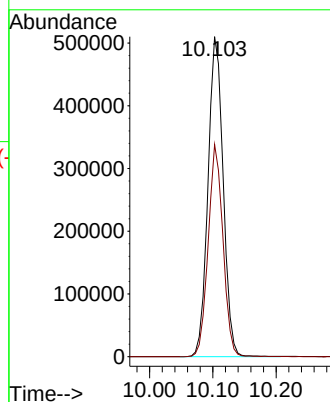
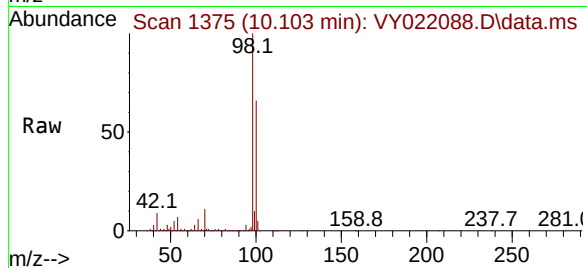
B-170-SB01

Tgt Ion: 98 Resp: 851694

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 41.219 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

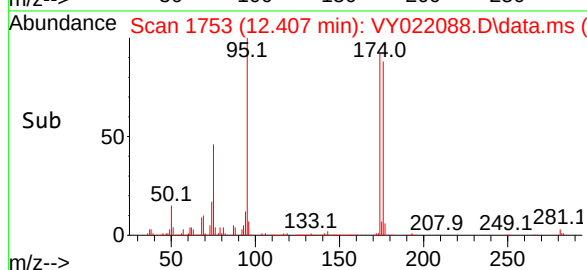
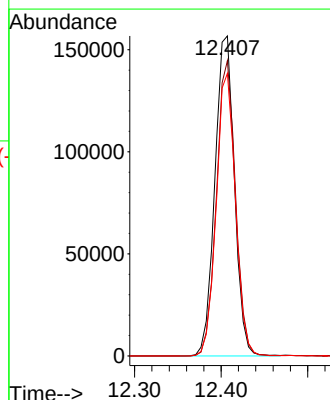
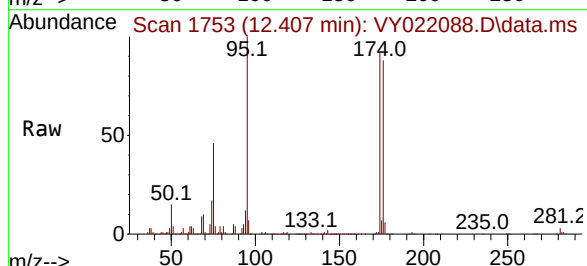
Tgt Ion: 95 Resp: 245148

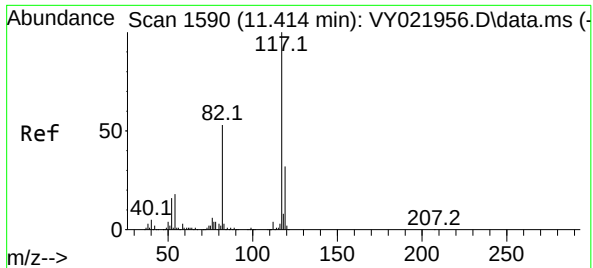
Ion Ratio Lower Upper

95 100

174 90.3 0.0 179.0

176 86.9 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.413 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB01

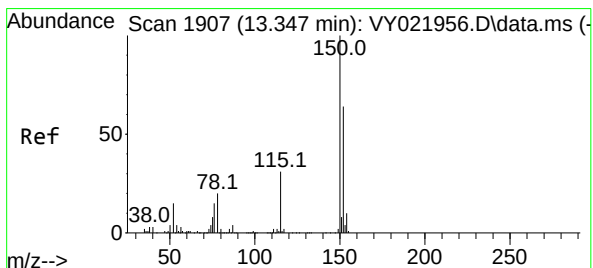
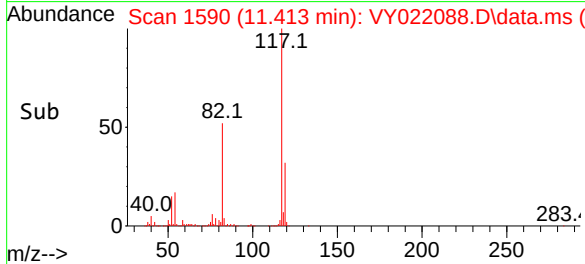
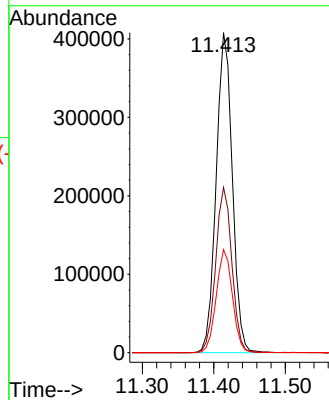
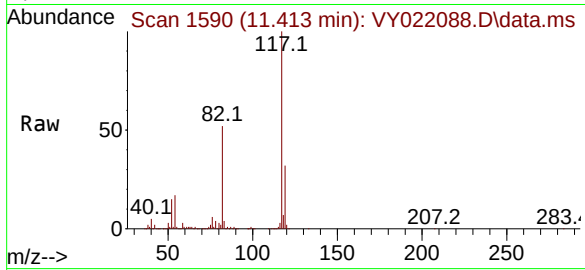
Tgt Ion:117 Resp: 640665

Ion Ratio Lower Upper

117 100

82 51.7 42.1 63.1

119 32.2 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

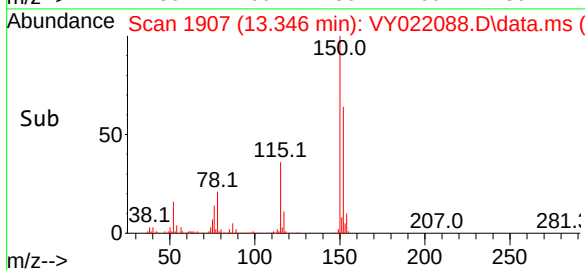
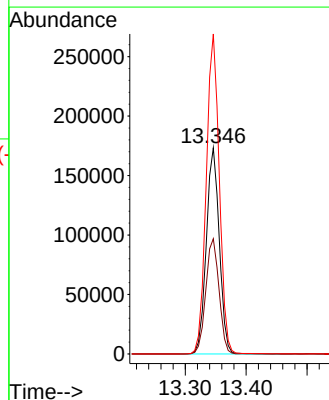
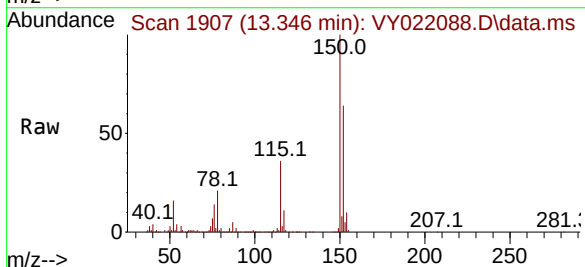
Tgt Ion:152 Resp: 256467

Ion Ratio Lower Upper

152 100

115 56.9 28.0 84.0

150 155.9 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022088.D
Acq On : 30 Apr 2025 17:29
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

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\82Y042225S.M

Title : SW846 8260

Signal : TIC: VY022088.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.482	118	125	133	rBV8	6969	21849	1.01%	0.202%
2	4.610	463	474	485	rBV5	11146	33004	1.53%	0.306%
3	7.628	959	969	975	rBV	321427	774452	35.90%	7.173%
4	7.707	975	982	995	rVB	466121	1074191	49.80%	9.949%
5	8.060	1030	1040	1053	rBV	242952	528439	24.50%	4.894%
6	8.609	1120	1130	1141	rBV	792900	1550806	71.89%	14.363%
7	10.103	1365	1375	1395	rBV	1290453	2157142	100.00%	19.979%
8	11.413	1582	1590	1603	rBV	1156271	1827560	84.72%	16.926%
9	12.407	1744	1753	1763	rBV	797227	1289145	59.76%	11.940%
10	13.346	1898	1907	1917	rBV	960294	1455872	67.49%	13.484%
11	13.883	1988	1995	2001	rVB	51531	84804	3.93%	0.785%

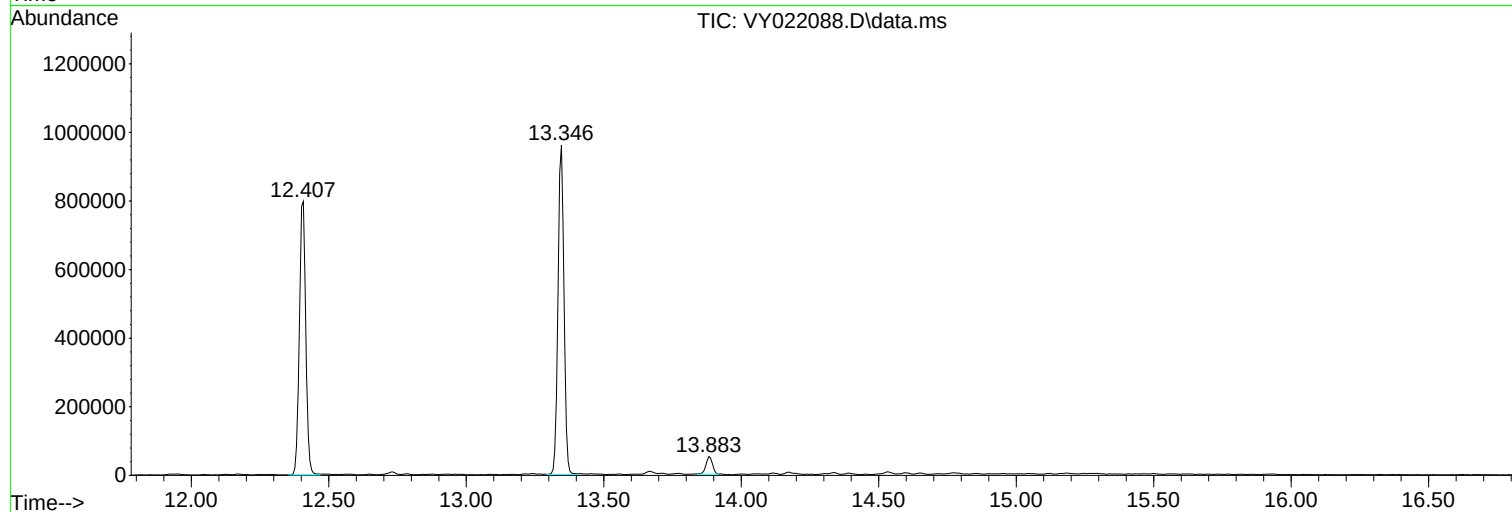
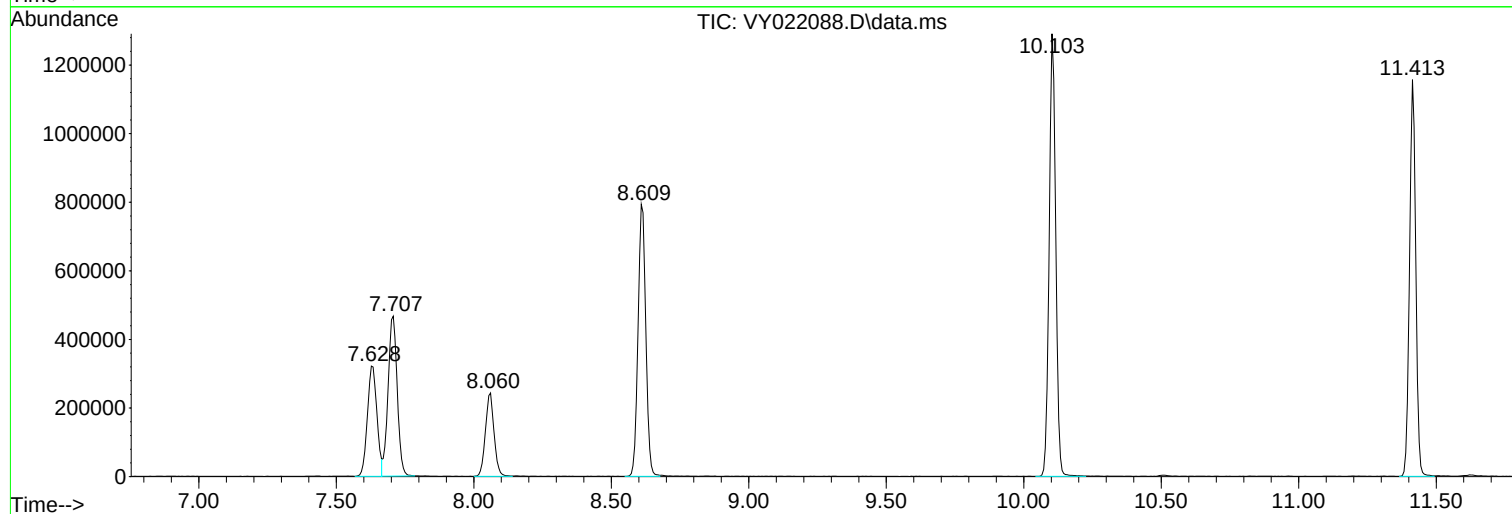
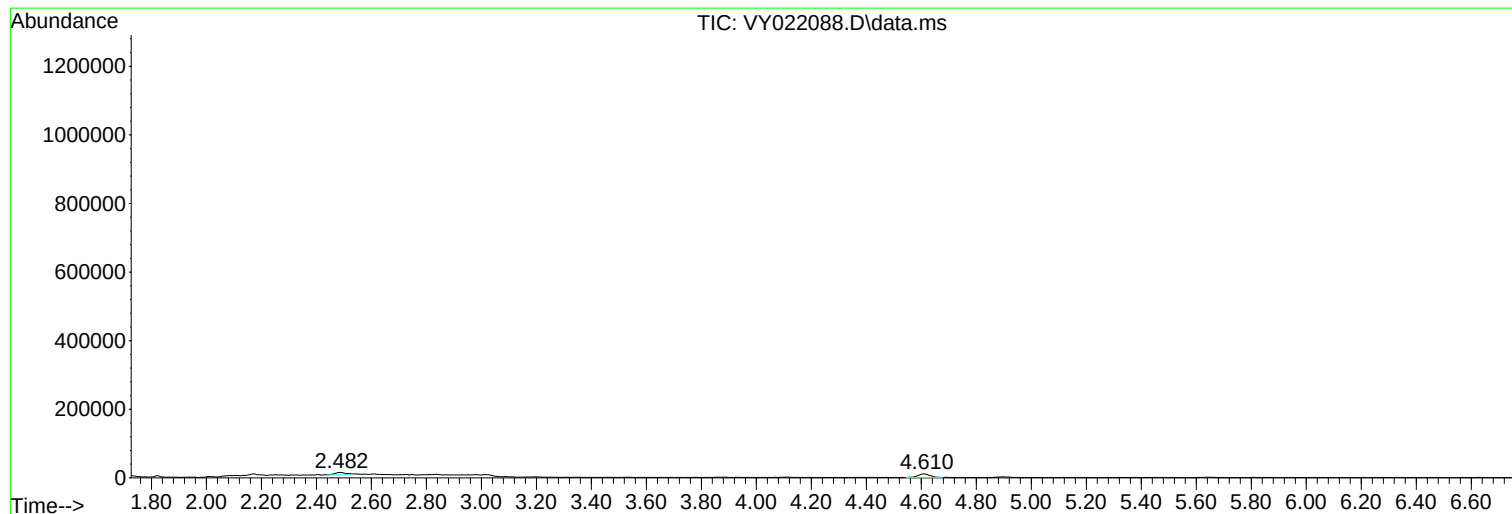
Sum of corrected areas: 10797264

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022088.D
Acq On : 30 Apr 2025 17:29
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022088.D
Acq On : 30 Apr 2025 17:29
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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\VY043025\
Data File : VY022088.D
Acq On : 30 Apr 2025 17:29
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52 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
VY022089.D	1		04/30/25 17:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	8.50	ug/Kg
74-87-3	Chloromethane	1.90	U	1.90	8.50	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.50	ug/Kg
74-83-9	Bromomethane	1.80	U	1.80	8.50	ug/Kg
75-00-3	Chloroethane	2.10	U	2.10	8.50	ug/Kg
75-69-4	Trichlorofluoromethane	2.10	U	2.10	8.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.50	ug/Kg
75-35-4	1,1-Dichloroethene	1.70	U	1.70	8.50	ug/Kg
67-64-1	Acetone	210		8.10	42.6	ug/Kg
75-15-0	Carbon Disulfide	8.30	J	1.80	8.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	8.50	ug/Kg
79-20-9	Methyl Acetate	2.60	U	2.60	8.50	ug/Kg
75-09-2	Methylene Chloride	6.00	U	6.00	17.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	8.50	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	8.50	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	8.50	ug/Kg
78-93-3	2-Butanone	39.9	J	11.1	42.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	8.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	8.50	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	8.50	ug/Kg
67-66-3	Chloroform	1.40	U	1.40	8.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.50	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.50	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.50	ug/Kg
107-06-2	1,2-Dichloroethane	1.30	U	1.30	8.50	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.50	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	1.50	8.50	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	8.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.10	U	6.10	42.6	ug/Kg
108-88-3	Toluene	1.30	U	1.30	8.50	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52	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
VY022089.D	1		04/30/25 17:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.10	U	1.10	8.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	8.50	ug/Kg
591-78-6	2-Hexanone	6.30	U	6.30	42.6	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	8.50	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	1.50	8.50	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	1.80	8.50	ug/Kg
108-90-7	Chlorobenzene	1.50	U	1.50	8.50	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.50	ug/Kg
179601-23-1	m/p-Xylenes	2.10	U	2.10	17.0	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	8.50	ug/Kg
100-42-5	Styrene	1.20	U	1.20	8.50	ug/Kg
75-25-2	Bromoform	1.50	U	1.50	8.50	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	8.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	2.10	8.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.90	U	2.90	8.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	2.70	8.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	2.50	8.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	3.10	8.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.10	U	5.10	8.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.40	U	5.40	8.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.3		70 (38) - 130 (136)	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	381000	7.707			
540-36-3	1,4-Difluorobenzene	713000	8.609			
3114-55-4	Chlorobenzene-d5	629000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	233000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	53.2
Sample Wt/Vol:	5.52 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
VY022089.D	1		04/30/25 17:52	VY043025

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\VY043025\
 Data File : VY022089.D
 Acq On : 30 Apr 2025 17:52
 Operator : SY/MD
 Sample : Q1901-04
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-167-SB02

Quant Time: May 01 01:39:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

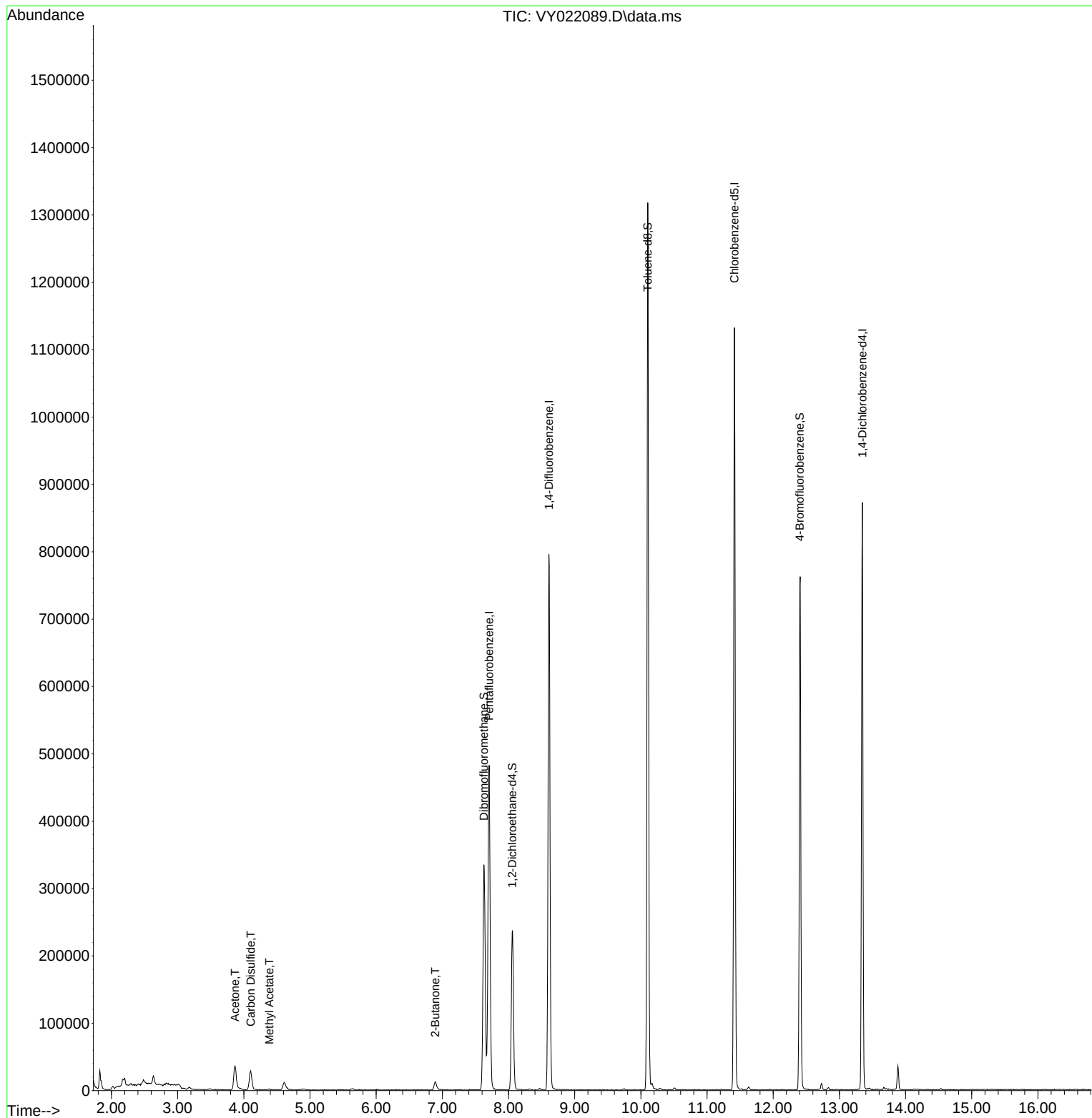
Internal Standards						
1) Pentafluorobenzene	7.707	168	381091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	712829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	629182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	233488	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	188495	53.549	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.100%	
35) Dibromofluoromethane	7.628	113	240173	50.999	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.000%	
50) Toluene-d8	10.103	98	847633	47.743	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 95.480%	
62) 4-Bromofluorobenzene	12.401	95	235165	39.347	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 78.700%	
Target Compounds						Qvalue
16) Acetone	3.866	43	62048	123.893	ug/l	98
17) Carbon Disulfide	4.104	76	59112	4.894	ug/l	99
18) Methyl Acetate	4.385	43	2398	1.458	ug/l #	72
25) 2-Butanone	6.890	43	18807	23.439	ug/l	94

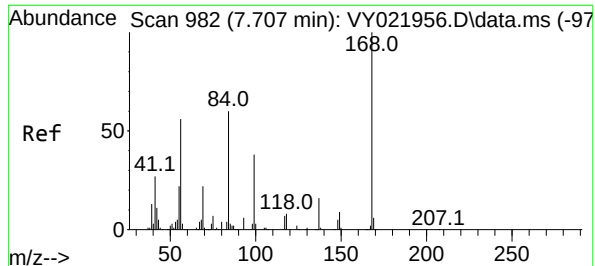
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Time: May 01 01:39:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

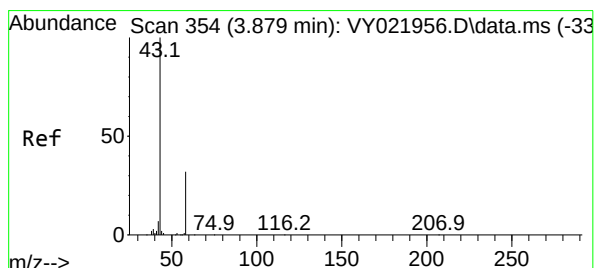
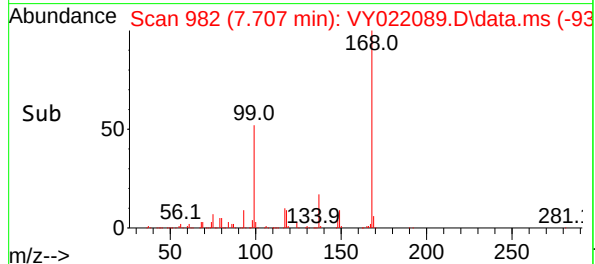
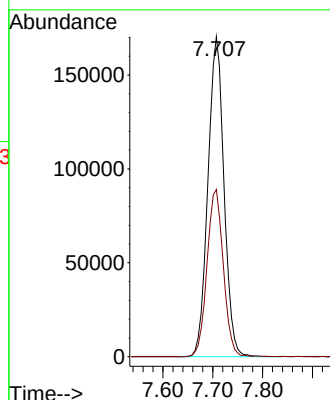
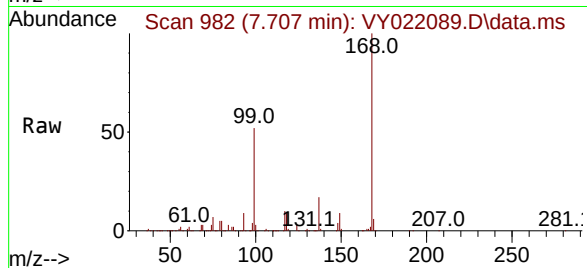




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

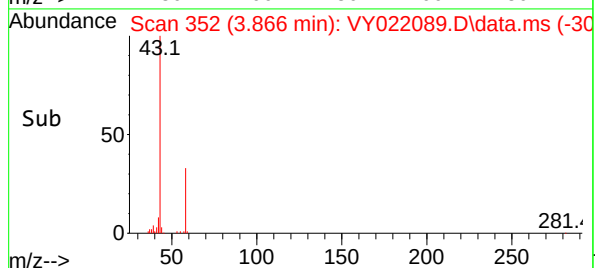
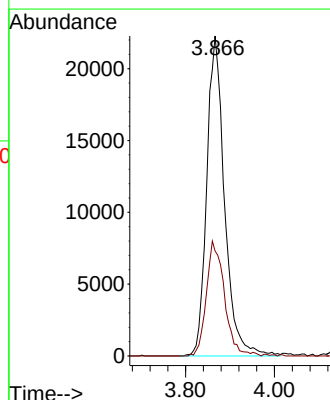
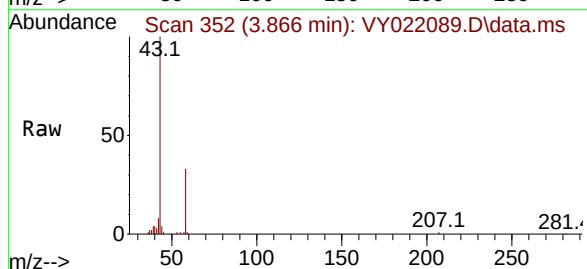
Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

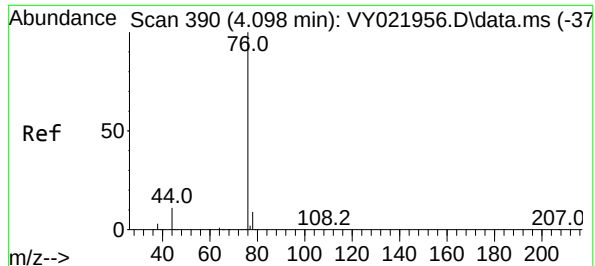
Tgt Ion:168 Resp: 381091
Ion Ratio Lower Upper
168 100
99 52.3 43.1 64.7



#16
Acetone
Concen: 123.893 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.013 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 43 Resp: 62048
Ion Ratio Lower Upper
43 100
58 32.8 27.0 40.4





#17

Carbon Disulfide

Concen: 4.894 ug/l

RT: 4.104 min Scan# 391

Delta R.T. 0.006 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

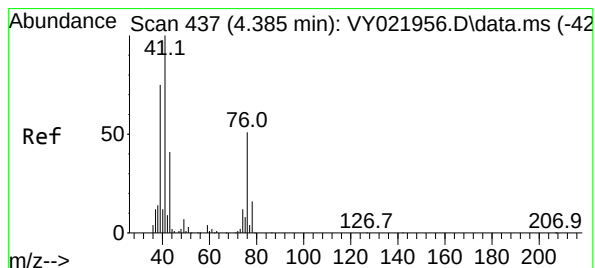
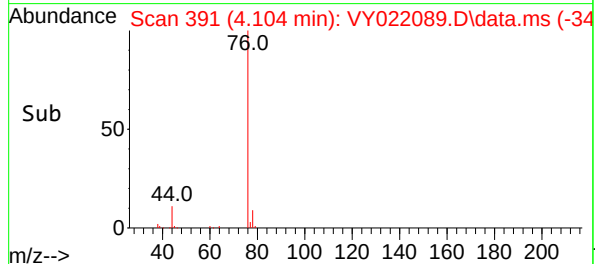
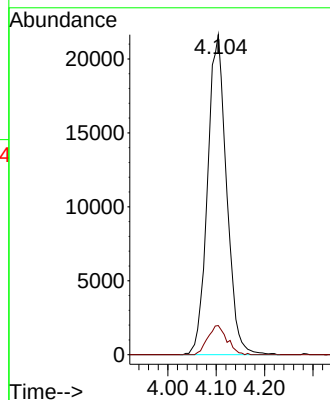
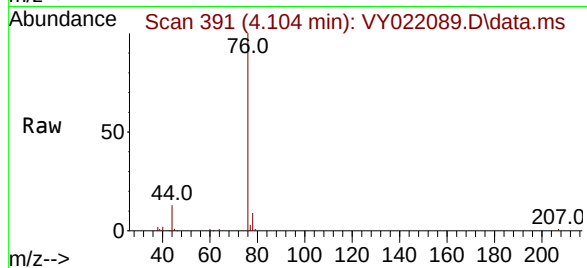
B-167-SB02

Tgt Ion: 76 Resp: 59112

Ion Ratio Lower Upper

76 100

78 9.1 7.6 11.4



#18

Methyl Acetate

Concen: 1.458 ug/l

RT: 4.385 min Scan# 437

Delta R.T. -0.000 min

Lab File: VY022089.D

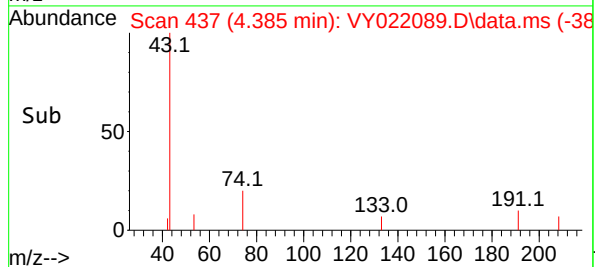
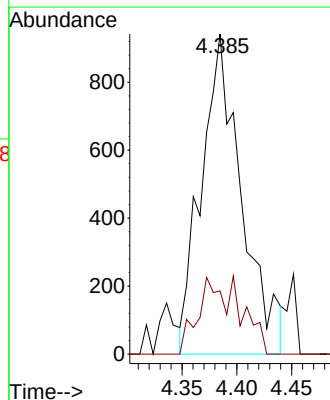
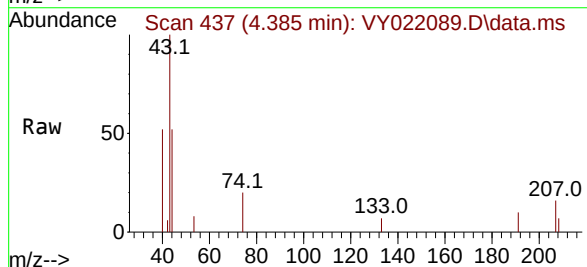
Acq: 30 Apr 2025 17:52

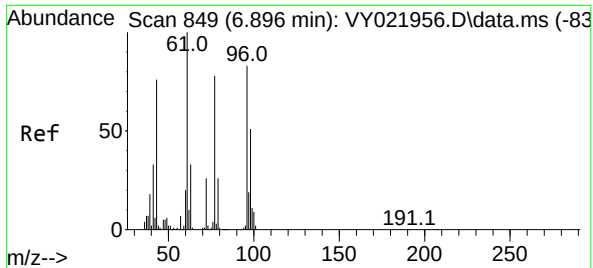
Tgt Ion: 43 Resp: 2398

Ion Ratio Lower Upper

43 100

74 15.2 24.2 36.4#





#25

2-Butanone

Concen: 23.439 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

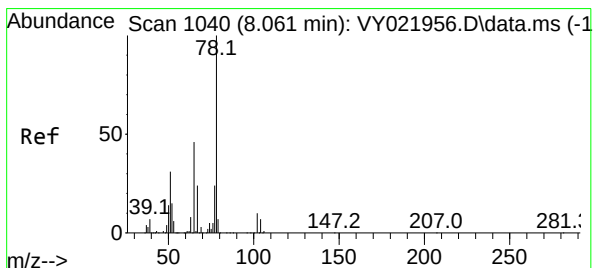
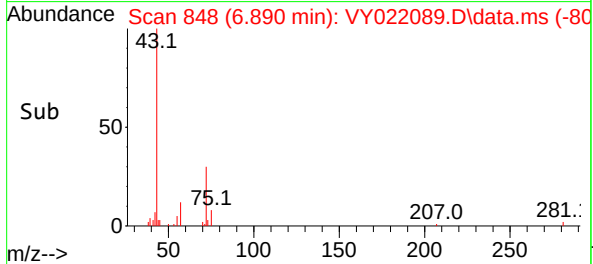
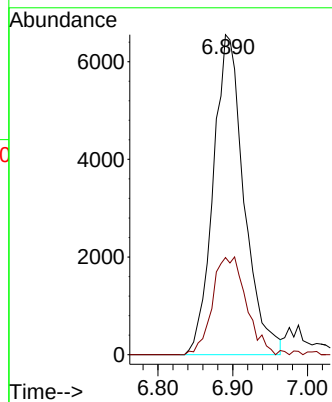
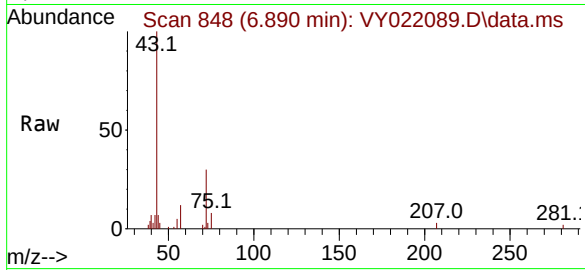
B-167-SB02

Tgt Ion: 43 Resp: 18807

Ion Ratio Lower Upper

43 100

72 30.3 27.0 40.4



#33

1,2-Dichloroethane-d4

Concen: 53.549 ug/l

RT: 8.055 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VY022089.D

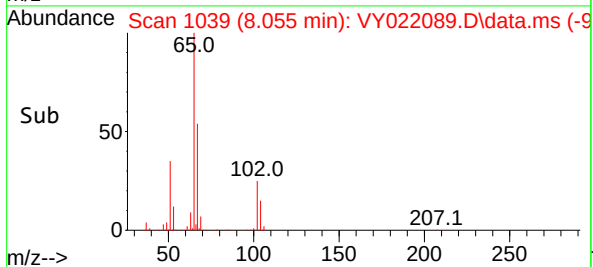
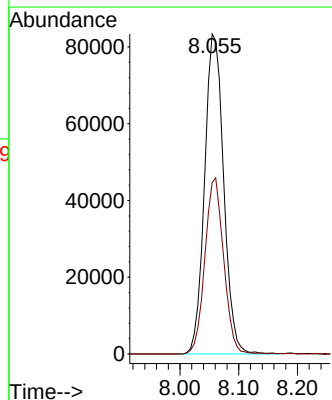
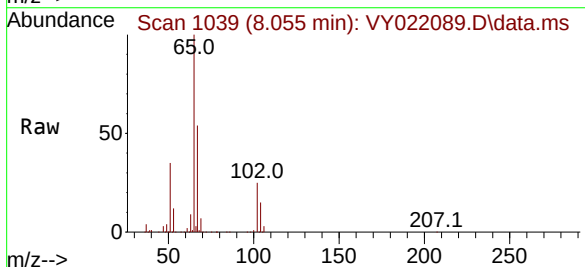
Acq: 30 Apr 2025 17:52

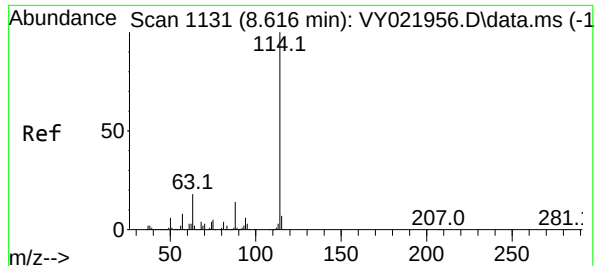
Tgt Ion: 65 Resp: 188495

Ion Ratio Lower Upper

65 100

67 54.0 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

B-167-SB02

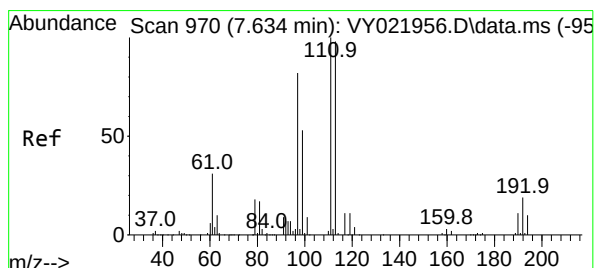
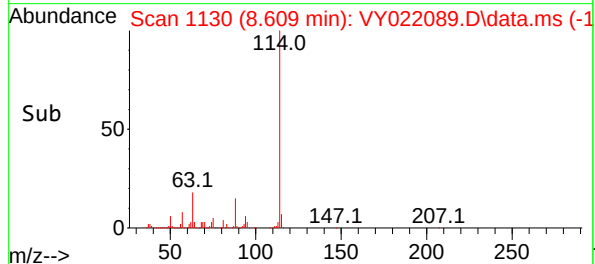
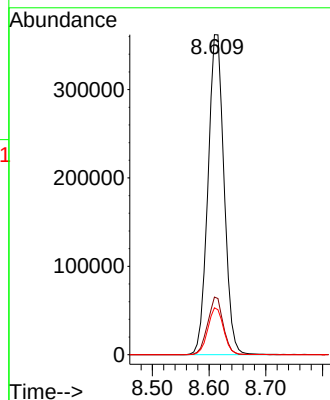
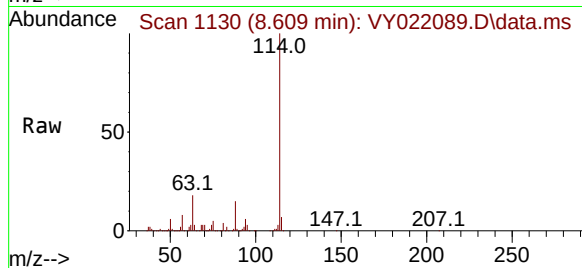
Tgt Ion:114 Resp: 712829

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.4

88 14.7 0.0 28.2



#35

Dibromofluoromethane

Concen: 50.999 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

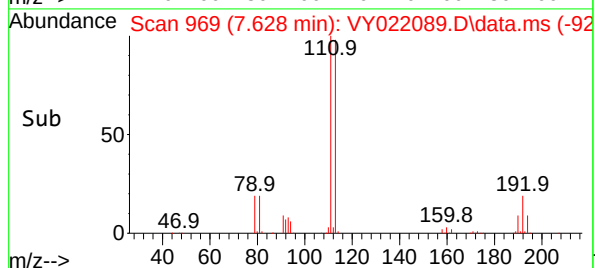
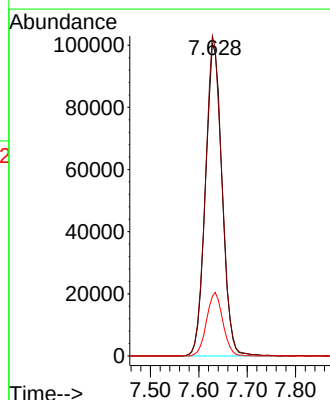
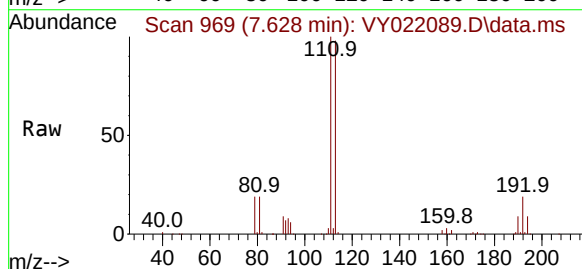
Tgt Ion:113 Resp: 240173

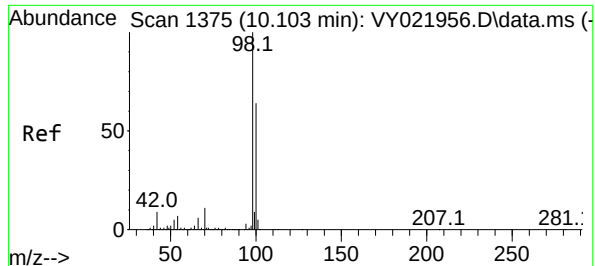
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

192 19.9 15.6 23.4





#50

Toluene-d8

Concen: 47.743 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

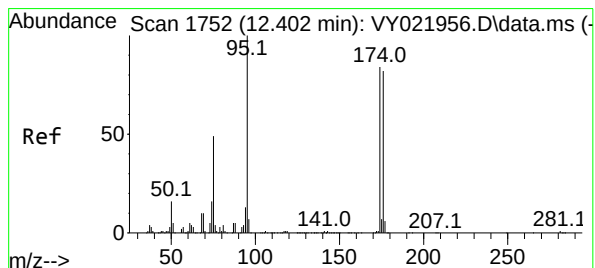
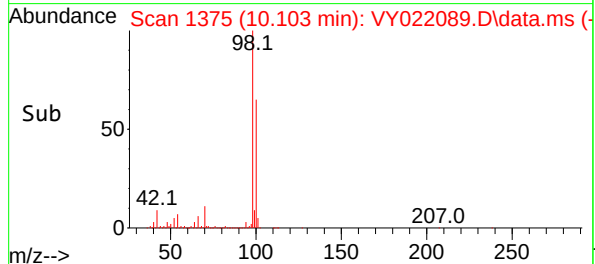
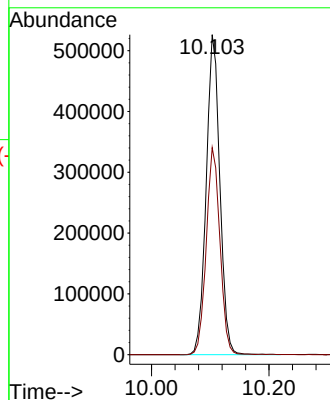
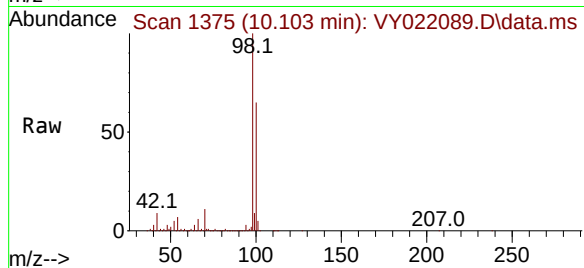
B-167-SB02

Tgt Ion: 98 Resp: 847633

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 39.347 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

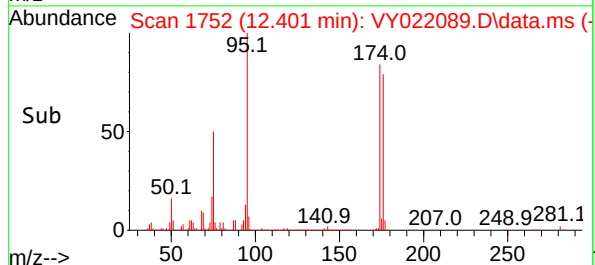
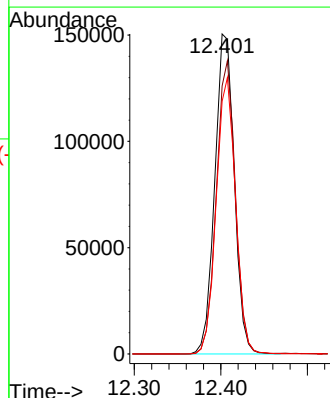
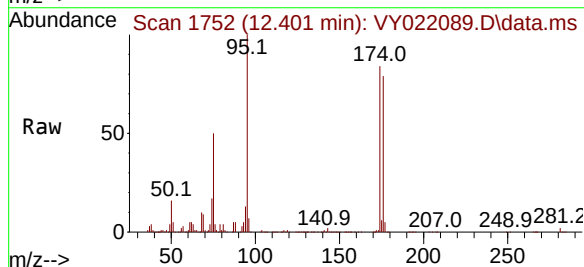
Tgt Ion: 95 Resp: 235165

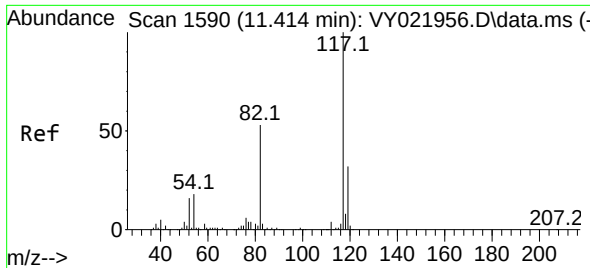
Ion Ratio Lower Upper

95 100

174 89.7 0.0 179.0

176 85.7 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

Instrument :

MSVOA_Y

ClientSampleId :

B-167-SB02

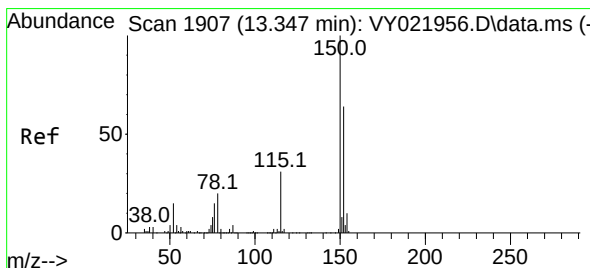
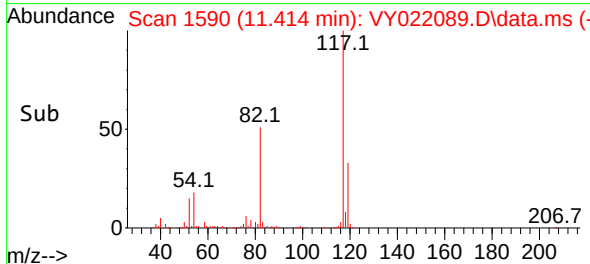
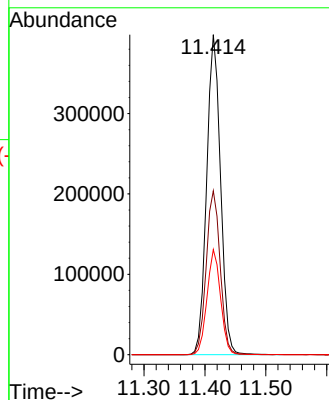
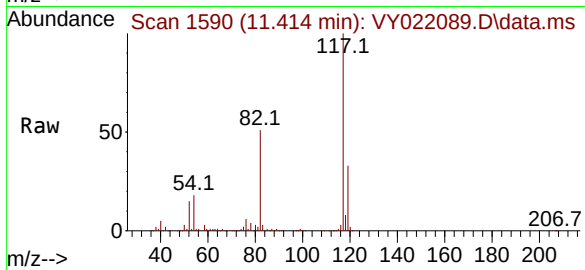
Tgt Ion:117 Resp: 629182

Ion Ratio Lower Upper

117 100

82 51.2 42.1 63.1

119 32.8 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022089.D

Acq: 30 Apr 2025 17:52

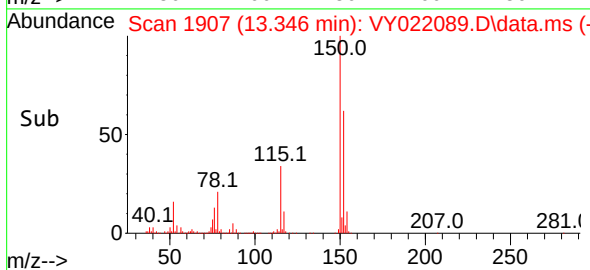
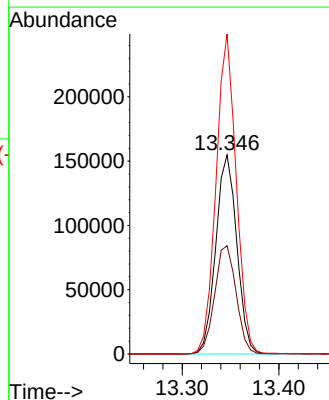
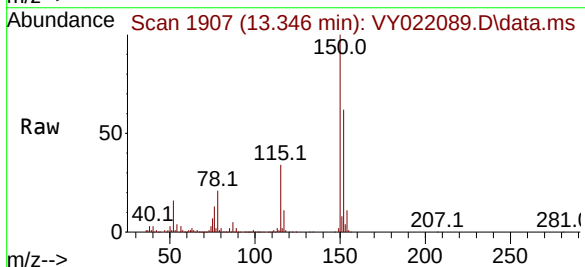
Tgt Ion:152 Resp: 233488

Ion Ratio Lower Upper

152 100

115 55.7 28.0 84.0

150 154.3 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022089.D
 Acq On : 30 Apr 2025 17:52
 Operator : SY/MD
 Sample : Q1901-04
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-167-SB02

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\82Y042225S.M

Title : SW846 8260

Signal : TIC: VY022089.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	12	17	20	rBV	26571	39947	1.86%	0.367%
2	2.482	118	125	133	rBV10	8194	24622	1.15%	0.226%
3	2.635	144	150	159	rVB	13267	28351	1.32%	0.261%
4	3.866	339	352	364	rBV2	35738	104429	4.87%	0.960%
5	4.104	379	391	405	rBV	28435	81522	3.80%	0.749%
6	4.610	464	474	486	rBV4	11267	36513	1.70%	0.336%
7	6.896	841	849	861	rBV2	12268	34253	1.60%	0.315%
8	7.628	959	969	975	rBV2	334318	784778	36.61%	7.215%
9	7.707	975	982	996	rVB	481283	1101628	51.39%	10.128%
10	8.061	1030	1040	1050	rBV	235746	535711	24.99%	4.925%
11	8.609	1120	1130	1143	rBV	795260	1558696	72.72%	14.329%
12	10.103	1367	1375	1383	rBV	1317102	2143539	100.00%	19.706%
13	11.414	1581	1590	1603	rBV	1131706	1797586	83.86%	16.526%
14	12.408	1745	1753	1765	rBV	761764	1238894	57.80%	11.389%
15	13.346	1899	1907	1917	rVB	871260	1311773	61.20%	12.059%
16	13.883	1990	1995	2001	rVB2	35199	55328	2.58%	0.509%

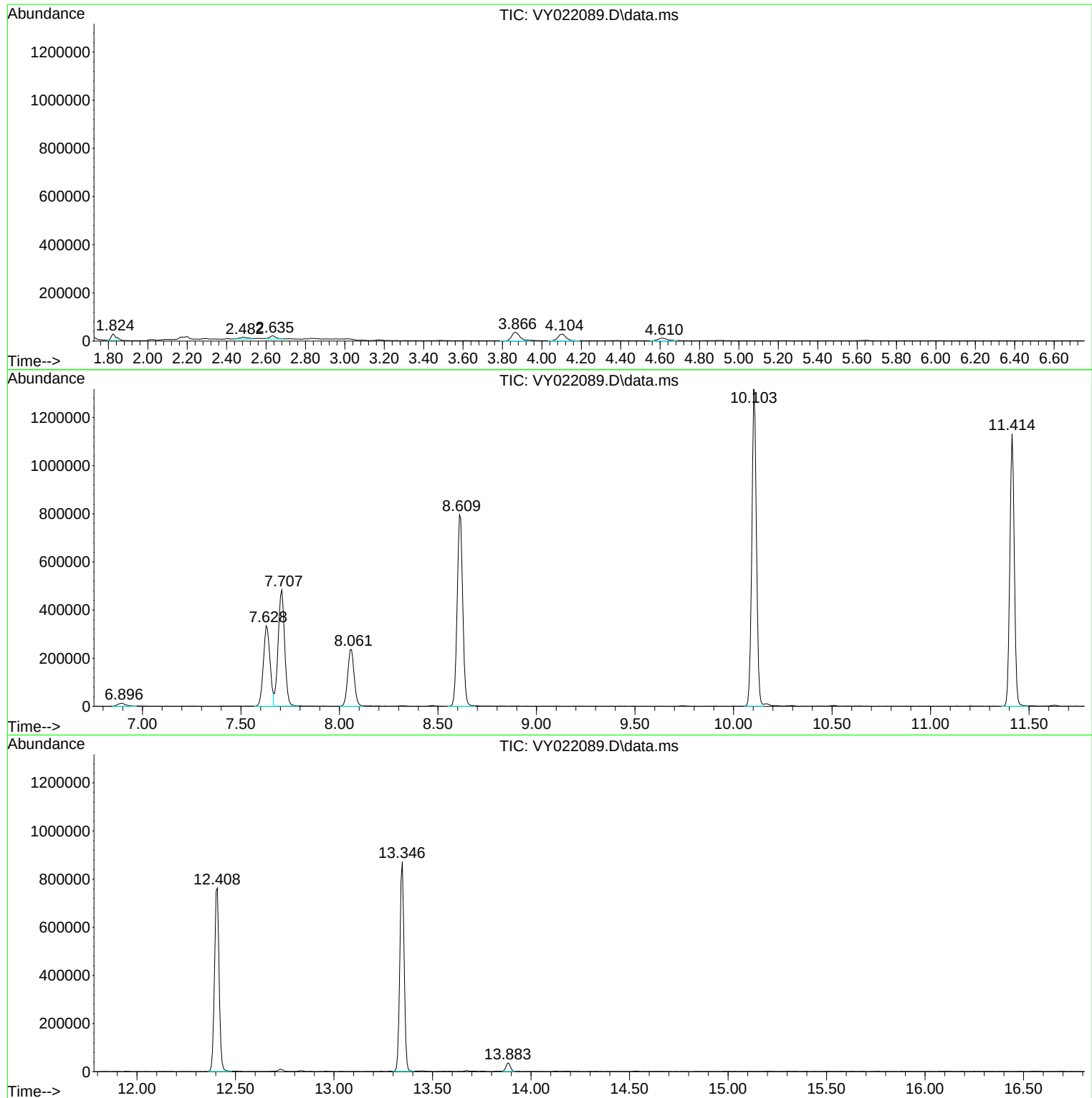
Sum of corrected areas: 10877570

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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\VY043025\
Data File : VY022089.D
Acq On : 30 Apr 2025 17:52
Operator : SY/MD
Sample : Q1901-04
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-167-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52 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
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.00	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.00	ug/Kg
75-01-4	Vinyl Chloride	0.95	U	0.95	6.00	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.00	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	6.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.00	ug/Kg
67-64-1	Acetone	5.70	U	5.70	30.2	ug/Kg
75-15-0	Carbon Disulfide	12.5		1.30	6.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.88	U	0.88	6.00	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.00	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.00	U	1.00	6.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.96	U	0.96	6.00	ug/Kg
110-82-7	Cyclohexane	0.95	U	0.95	6.00	ug/Kg
78-93-3	2-Butanone	7.90	U	7.90	30.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	6.00	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.00	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.00	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.00	ug/Kg
71-43-2	Benzene	1.60	J	0.95	6.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.95	U	0.95	6.00	ug/Kg
79-01-6	Trichloroethene	0.98	U	0.98	6.00	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.00	ug/Kg
75-27-4	Bromodichloromethane	0.94	U	0.94	6.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.30	U	4.30	30.2	ug/Kg
108-88-3	Toluene	0.94	U	0.94	6.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52	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
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.78	U	0.78	6.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.75	6.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.00	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	30.2	ug/Kg
124-48-1	Dibromochloromethane	1.00	U	1.00	6.00	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.00	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.00	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.00	ug/Kg
100-41-4	Ethyl Benzene	0.81	U	0.81	6.00	ug/Kg
179601-23-1	m/p-Xylenes	2.20	J	1.50	12.1	ug/Kg
95-47-6	o-Xylene	1.70	J	0.99	6.00	ug/Kg
100-42-5	Styrene	0.86	U	0.86	6.00	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.00	ug/Kg
98-82-8	Isopropylbenzene	12.2		0.94	6.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.70	U	1.70	6.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	2.20	6.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.60	U	3.60	6.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.80	U	3.80	6.00	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.6		70 (63) - 130 (155)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.0	*	70 (38) - 130 (136)	66%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	385000	7.707
540-36-3	1,4-Difluorobenzene	710000	8.61
3114-55-4	Chlorobenzene-d5	564000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.347

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.1
Sample Wt/Vol:	5.52 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
VY022090.D	1		04/30/25 18:16	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	1.50	J		13.0	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\VY043025\
 Data File : VY022090.D
 Acq On : 30 Apr 2025 18:16
 Operator : SY/MD
 Sample : Q1901-05
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB02

Quant Time: May 01 01:39:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

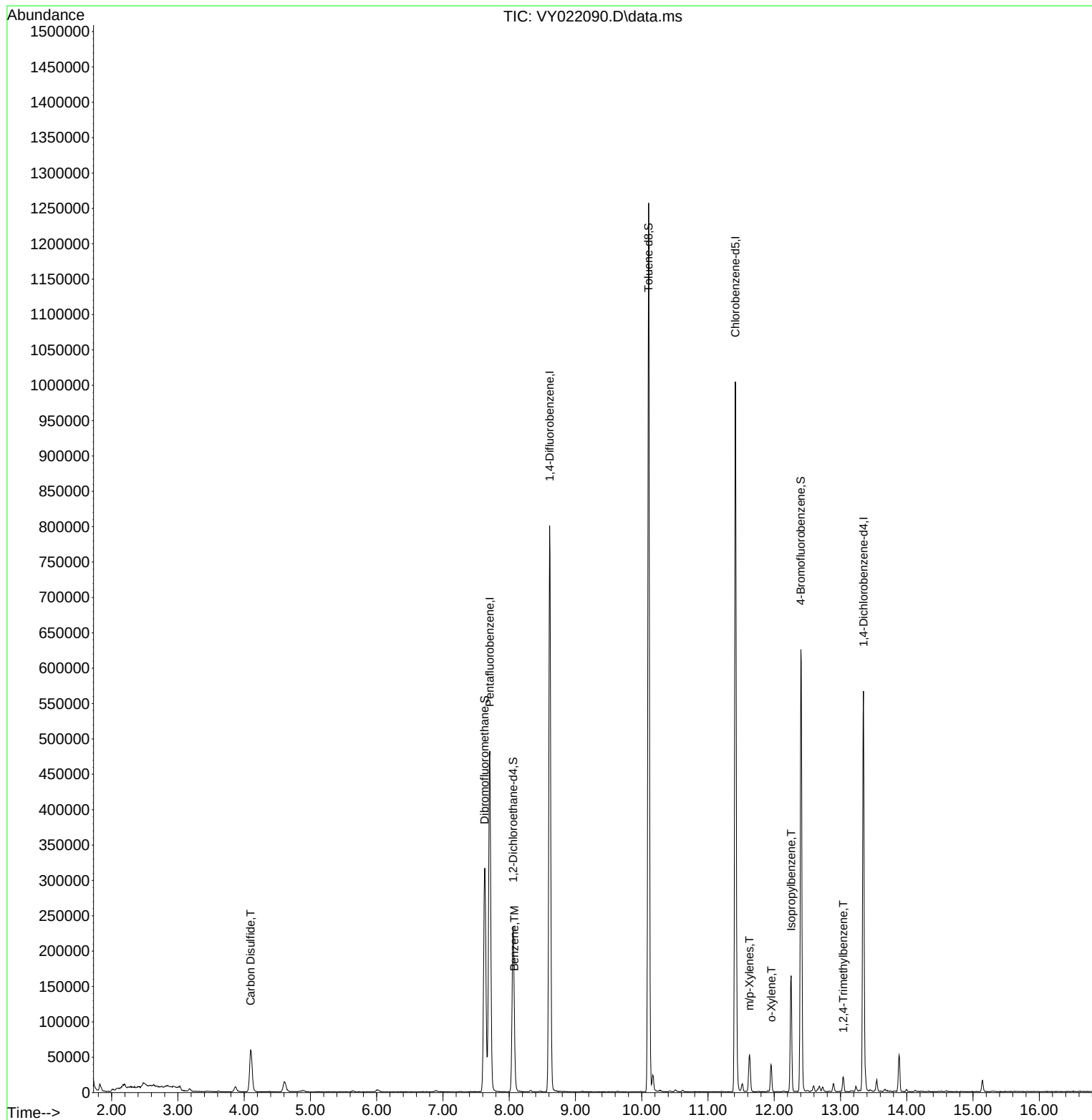
Internal Standards						
1) Pentafluorobenzene	7.707	168	384809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	709625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	563942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	150773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	176326	49.608	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.220%
35) Dibromofluoromethane	7.628	113	233310	49.766	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.540%
50) Toluene-d8	10.103	98	825206	46.689	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	93.380%
62) 4-Bromofluorobenzene	12.402	95	196123	32.962	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	65.920%
Target Compounds						
					Qvalue	
17) Carbon Disulfide	4.098	76	126155	10.343	ug/l	98
40) Benzene	8.079	78	25594	1.300	ug/l	97
68) m/p-Xylenes	11.627	106	14972	1.824	ug/l	96
69) o-Xylene	11.957	106	10754	1.421	ug/l	96
73) Isopropylbenzene	12.255	105	101940	10.120	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	10477	1.262	ug/l	88

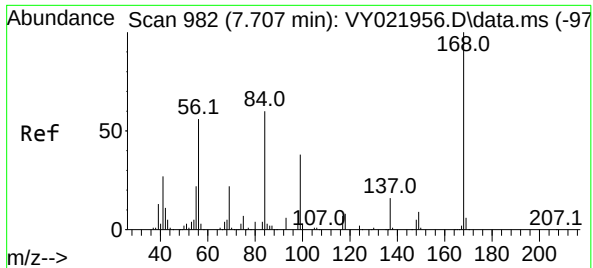
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Time: May 01 01:39:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

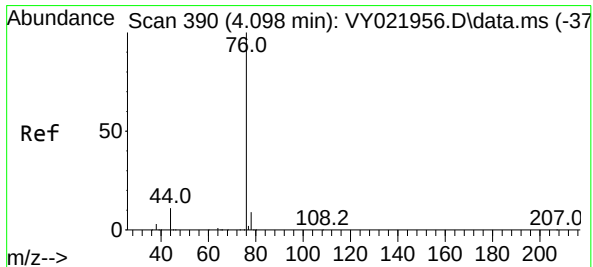
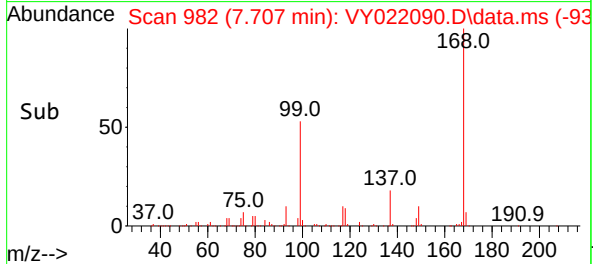
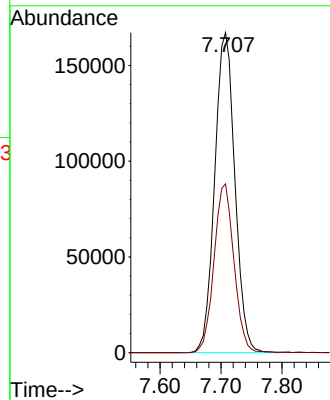
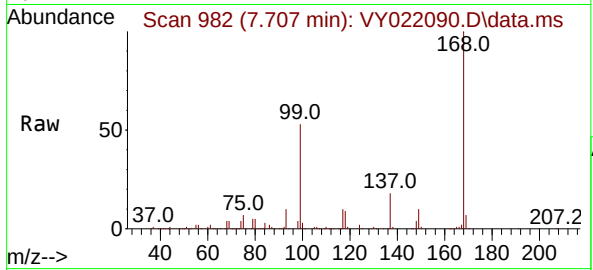




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

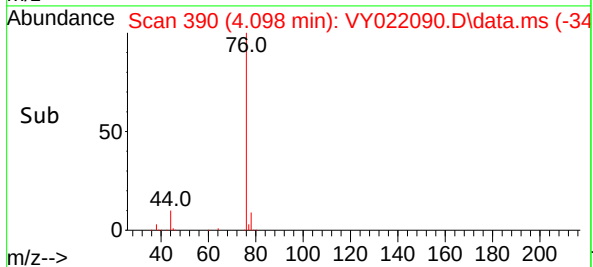
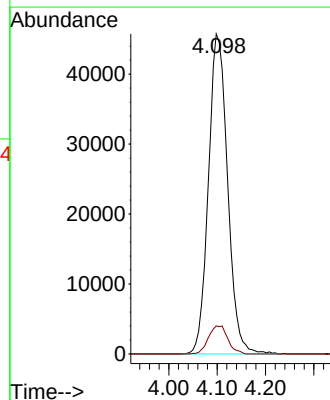
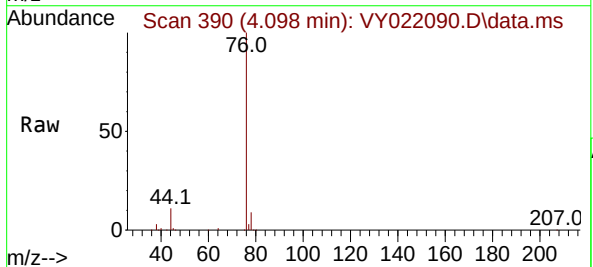
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

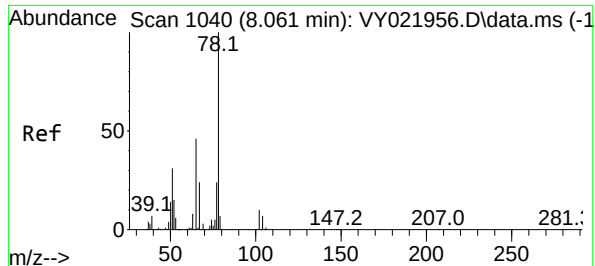
Tgt Ion:168 Resp: 384809
Ion Ratio Lower Upper
168 100
99 52.7 43.1 64.7



#17
Carbon Disulfide
Concen: 10.343 ug/l
RT: 4.098 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 76 Resp: 126155
Ion Ratio Lower Upper
76 100
78 8.7 7.6 11.4





#33

1,2-Dichloroethane-d4

Concen: 49.608 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

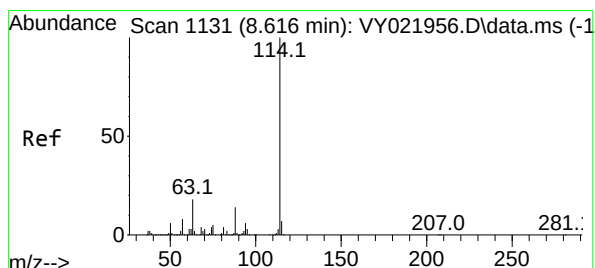
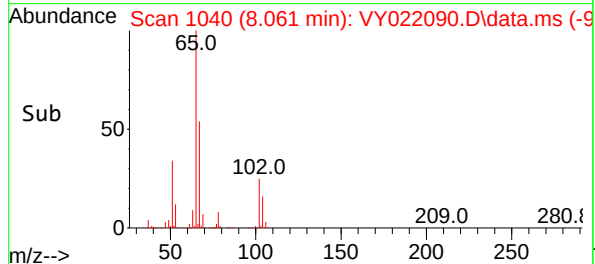
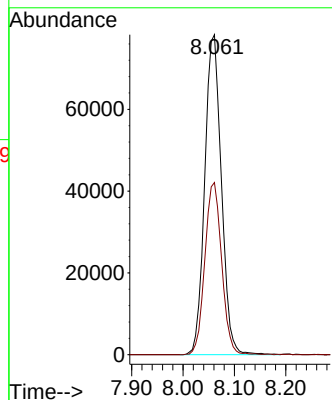
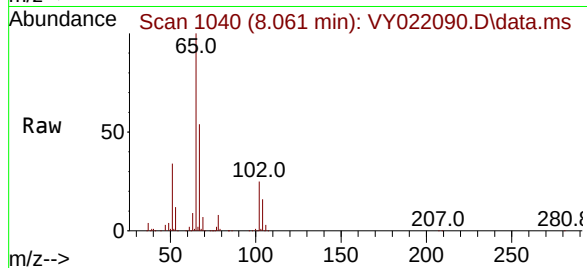
B-170-SB02

Tgt Ion: 65 Resp: 176326

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

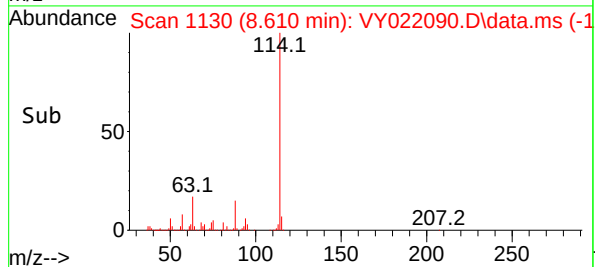
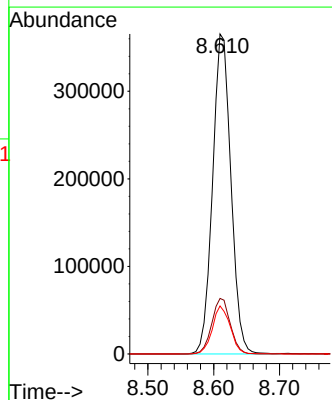
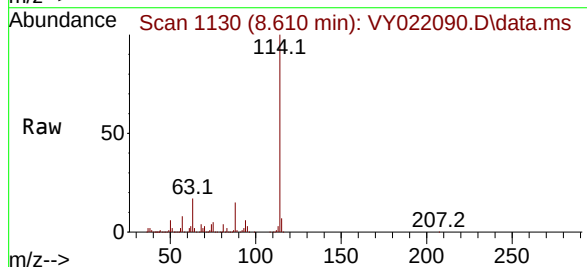
Tgt Ion: 114 Resp: 709625

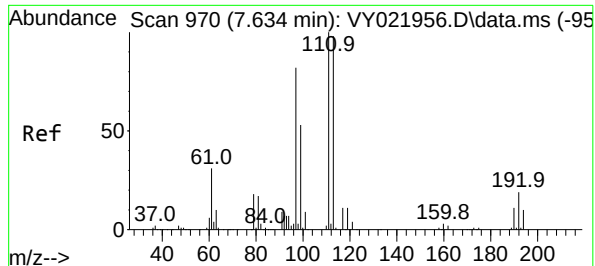
Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.4

88 15.0 0.0 28.2





#35

Dibromofluoromethane

Concen: 49.766 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB02

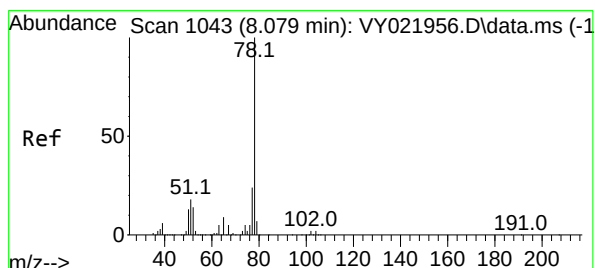
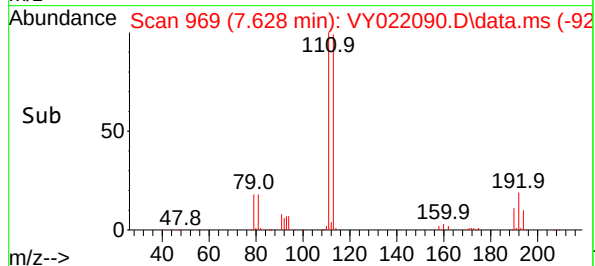
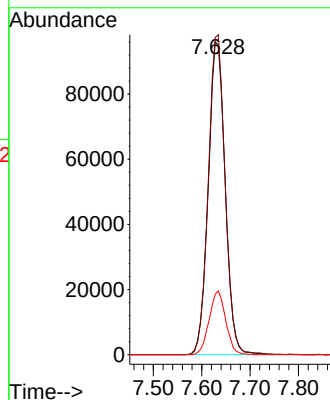
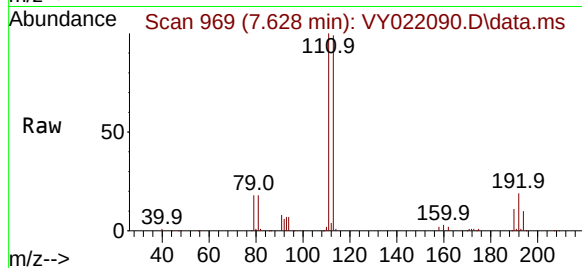
Tgt Ion:113 Resp: 233310

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

192 19.9 15.6 23.4



#40

Benzene

Concen: 1.300 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. -0.000 min

Lab File: VY022090.D

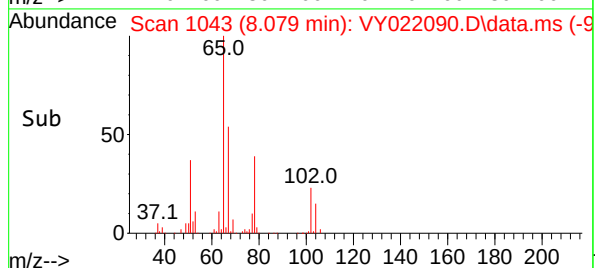
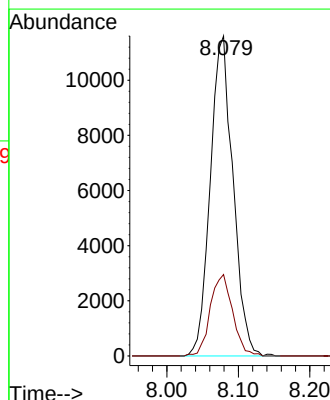
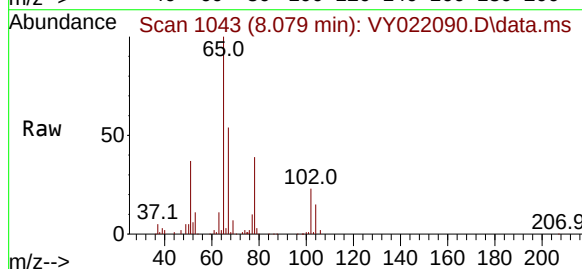
Acq: 30 Apr 2025 18:16

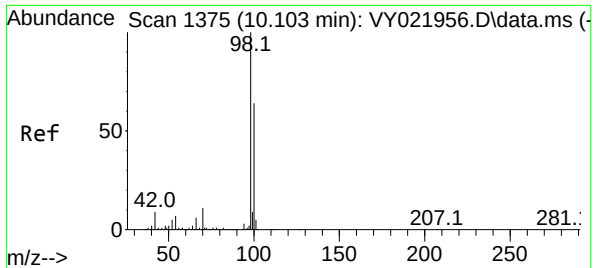
Tgt Ion: 78 Resp: 25594

Ion Ratio Lower Upper

78 100

77 25.4 19.3 28.9





#50

Toluene-d8

Concen: 46.689 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

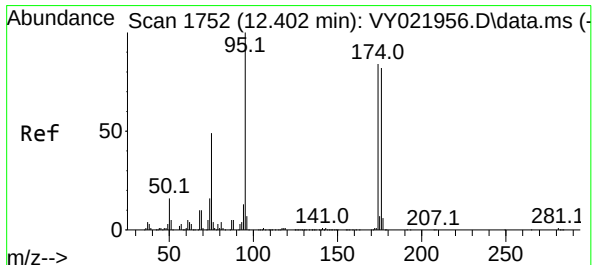
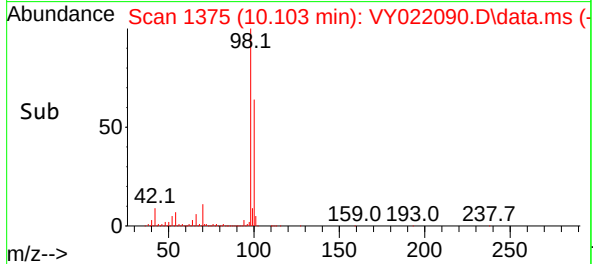
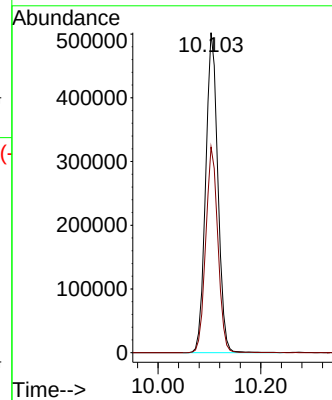
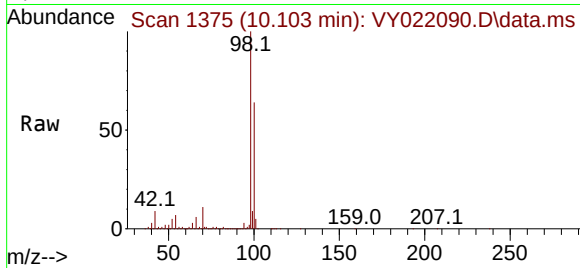
B-170-SB02

Tgt Ion: 98 Resp: 825206

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 32.962 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

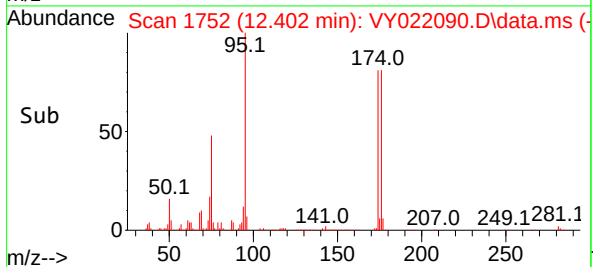
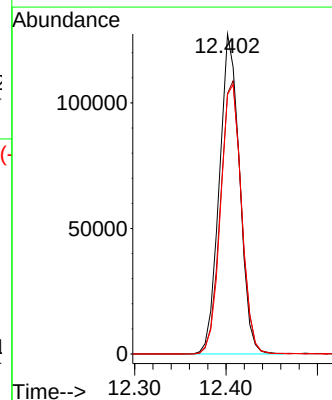
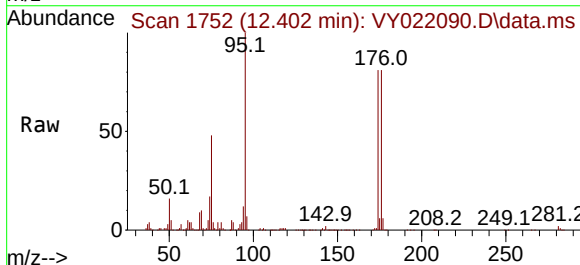
Tgt Ion: 95 Resp: 196123

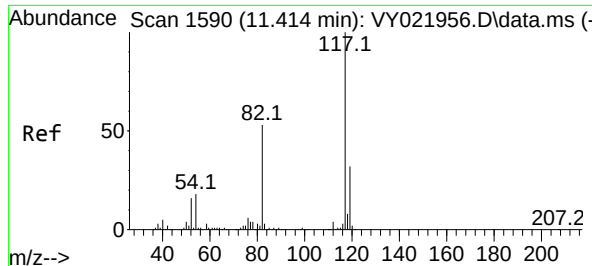
Ion Ratio Lower Upper

95 100

174 88.1 0.0 179.0

176 86.9 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022090.D

Acq: 30 Apr 2025 18:16

Instrument :

MSVOA_Y

ClientSampleId :

B-170-SB02

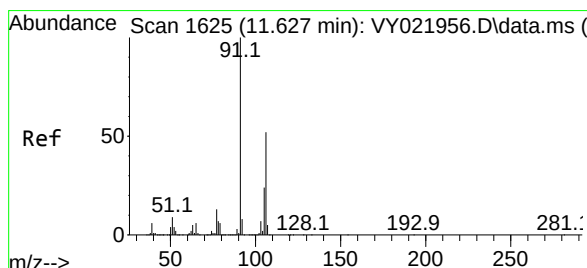
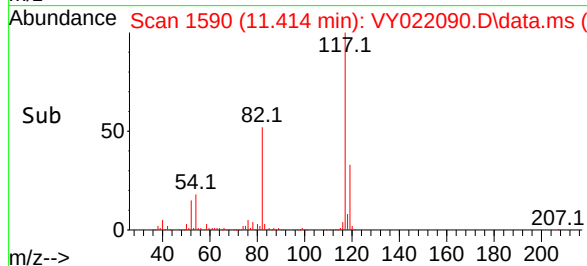
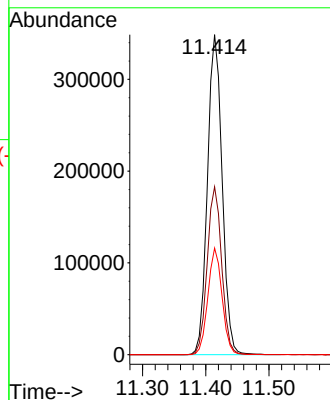
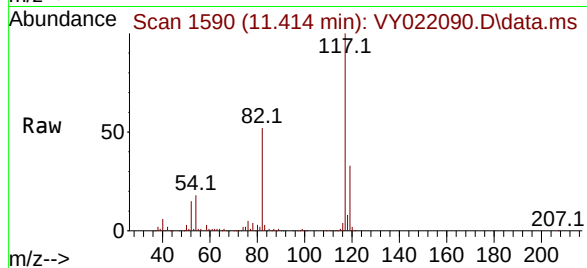
Tgt Ion:117 Resp: 563942

Ion Ratio Lower Upper

117 100

82 52.5 42.1 63.1

119 33.3 25.7 38.5



#68

m/p-Xylenes

Concen: 1.824 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY022090.D

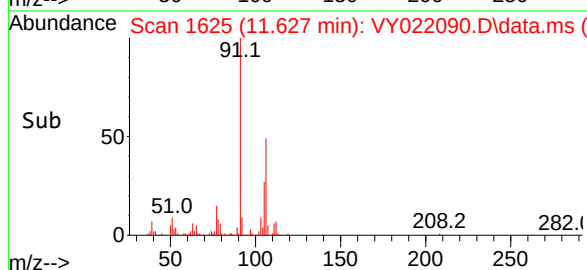
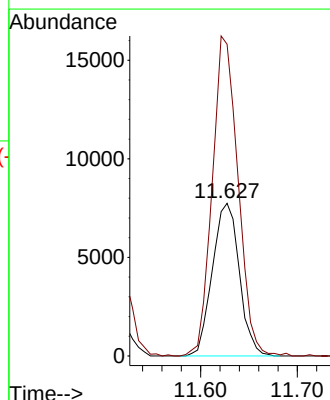
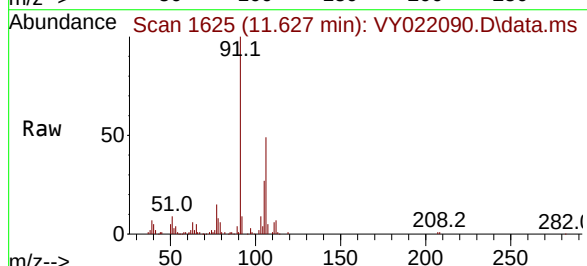
Acq: 30 Apr 2025 18:16

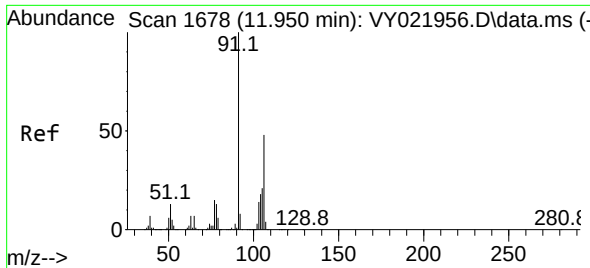
Tgt Ion:106 Resp: 14972

Ion Ratio Lower Upper

106 100

91 200.6 156.2 234.2

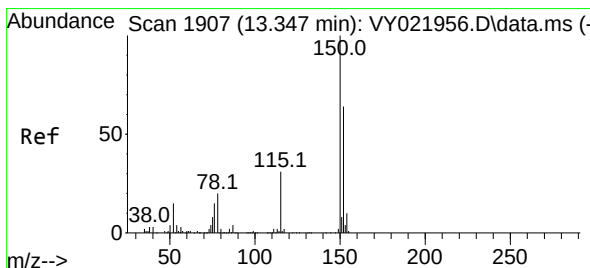
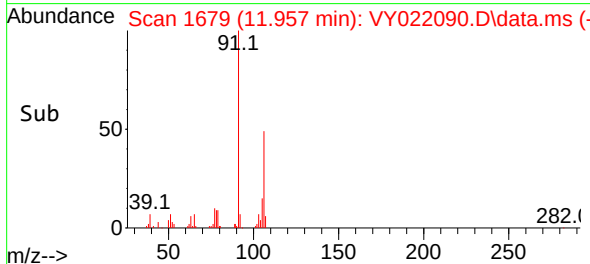
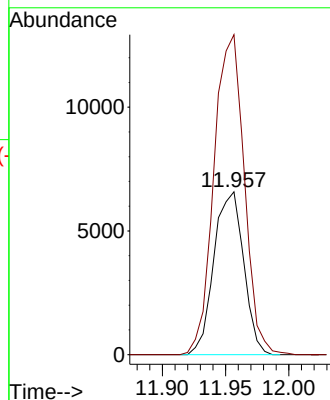
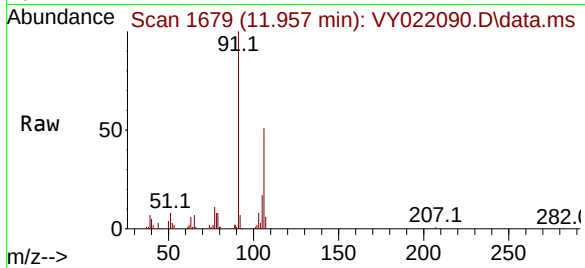




#69
o-Xylene
Concen: 1.421 ug/l
RT: 11.957 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

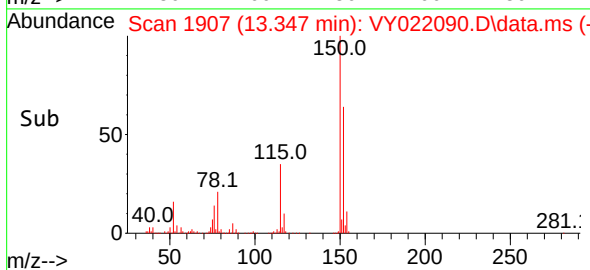
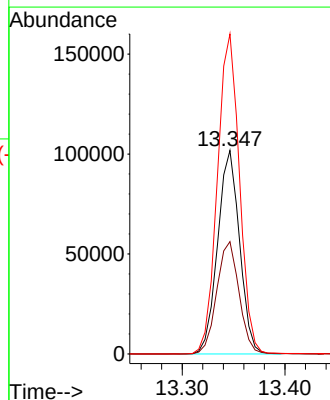
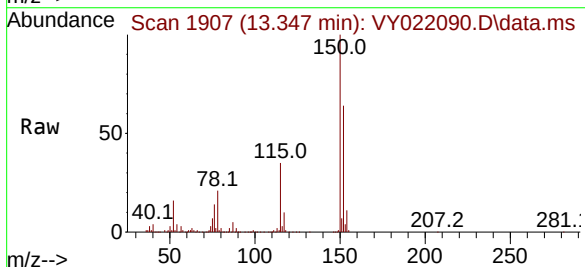
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

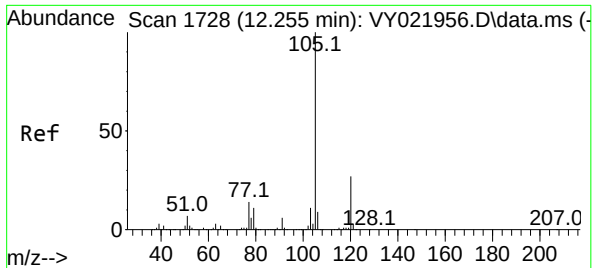
Tgt Ion:106 Resp: 10754
Ion Ratio Lower Upper
106 100
91 200.2 103.0 308.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:152 Resp: 150773
Ion Ratio Lower Upper
152 100
115 56.3 28.0 84.0
150 158.4 0.0 345.6

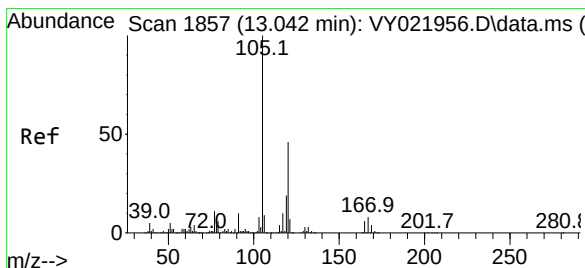
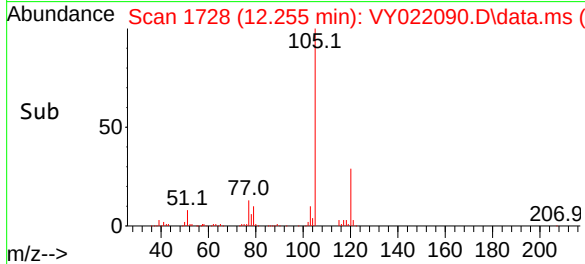
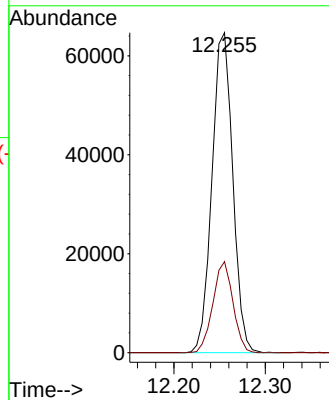
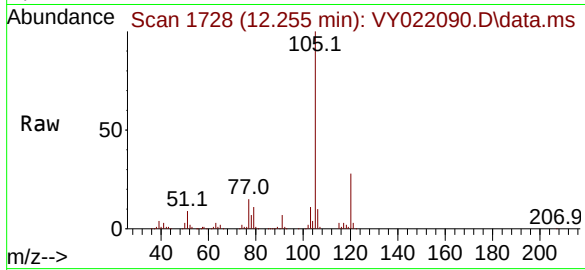




#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

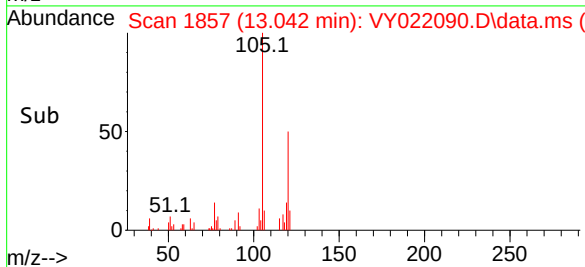
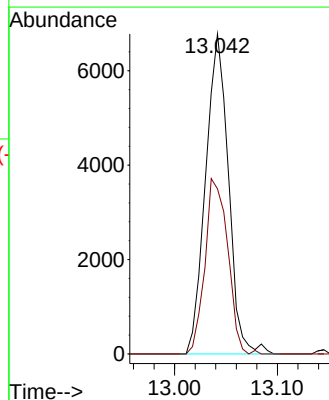
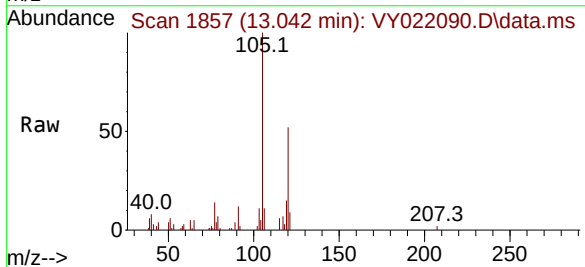
Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Tgt Ion:105 Resp: 101940
Ion Ratio Lower Upper
105 100
120 27.5 13.5 40.5



#84
1,2,4-Trimethylbenzene
Concen: 1.262 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:105 Resp: 10477
Ion Ratio Lower Upper
105 100
120 54.6 23.4 70.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022090.D
 Acq On : 30 Apr 2025 18:16
 Operator : SY/MD
 Sample : Q1901-05
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-170-SB02

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\82Y042225S.M
 Title : SW846 8260

Signal : TIC: VY022090.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.098	379	390	404	rBV	58790	162890	7.86%	1.557%
2	4.604	462	473	487	rBV2	14528	47906	2.31%	0.458%
3	7.634	958	970	975	rBV	315823	762259	36.76%	7.287%
4	7.707	975	982	993	rVB	480223	1107079	53.39%	10.583%
5	8.061	1030	1040	1053	rBV2	233211	554610	26.75%	5.302%
6	8.610	1122	1130	1143	rBV	800530	1550988	74.80%	14.826%
7	10.103	1368	1375	1382	rBV	1256679	2073621	100.00%	19.822%
8	10.164	1382	1385	1398	rVB	23397	45119	2.18%	0.431%
9	11.414	1582	1590	1602	rBV	1004276	1642238	79.20%	15.699%
10	11.627	1617	1625	1634	rVB	51745	100894	4.87%	0.964%
11	11.950	1672	1678	1686	rVB2	38480	63628	3.07%	0.608%
12	12.255	1721	1728	1736	rBV	164363	259914	12.53%	2.485%
13	12.402	1744	1752	1762	rBV	625201	1028788	49.61%	9.834%
14	13.042	1852	1857	1862	rVB	20750	32057	1.55%	0.306%
15	13.347	1900	1907	1918	rBV	564738	889239	42.88%	8.500%
16	13.548	1932	1940	1945	rBV2	16611	26148	1.26%	0.250%
17	13.883	1989	1995	2001	rBV2	51425	85381	4.12%	0.816%
18	15.145	2192	2202	2209	rBV	16275	28335	1.37%	0.271%

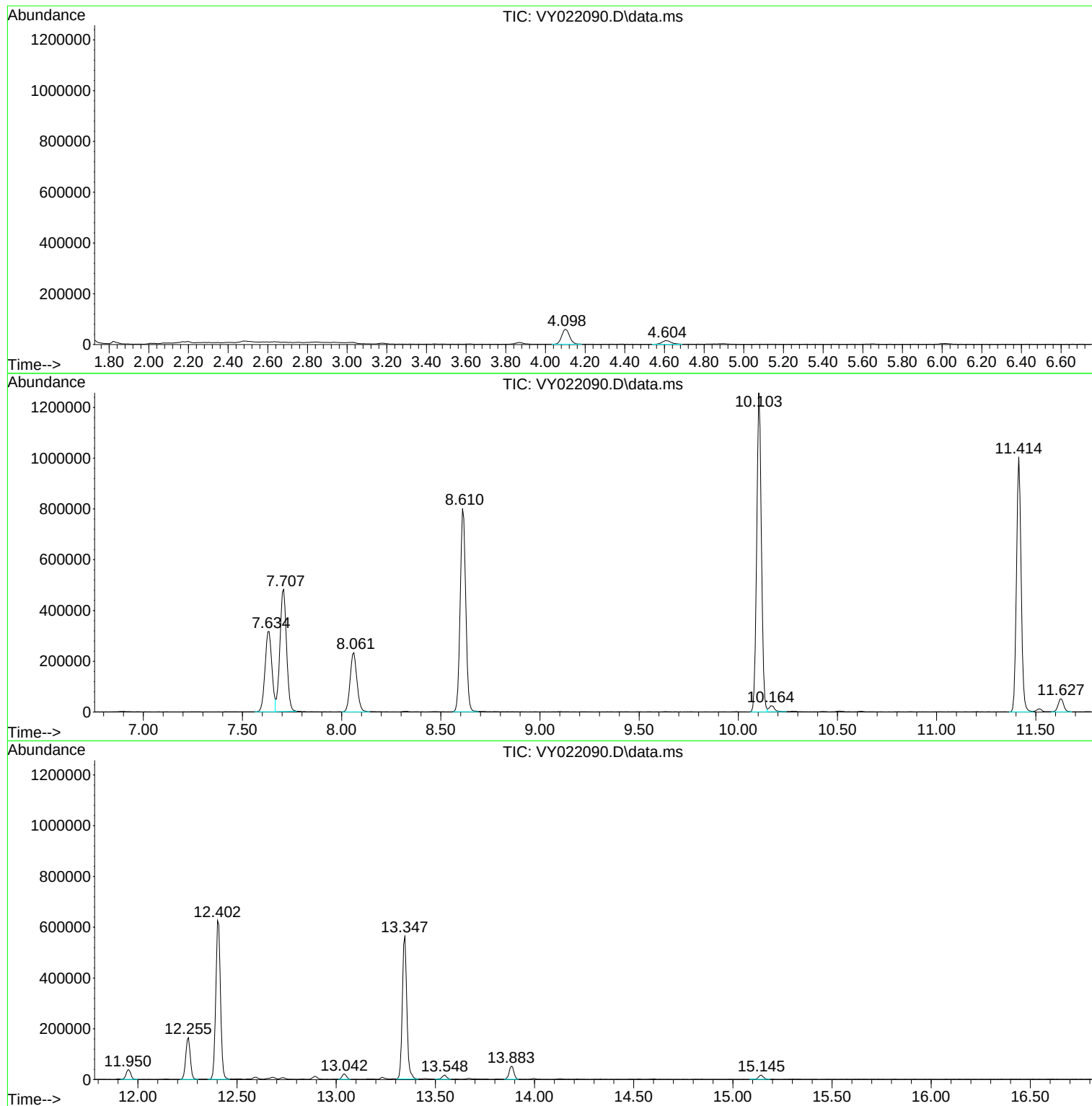
Sum of corrected areas: 10461094

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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\VY043025\
Data File : VY022090.D
Acq On : 30 Apr 2025 18:16
Operator : SY/MD
Sample : Q1901-05
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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:	Portal Partners Tri-Venture		Date Collected:	04/26/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	04/28/25	
Client Sample ID:	FB04262025		SDG No.:	Q1901	
Lab Sample ID:	Q1901-06		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045979.D	1		04/29/25 13:58	VX042925

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	4.70	J	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	UQ	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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045979.D	1		04/29/25 13:58	VX042925

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	54.6		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64500	5.544			
540-36-3	1,4-Difluorobenzene	128000	6.757			
3114-55-4	Chlorobenzene-d5	116000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48400	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045979.D	1		04/29/25 13:58	VX042925

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\VX042925\
 Data File : VX045979.D
 Acq On : 29 Apr 2025 13:58
 Operator : JC/MD
 Sample : Q1901-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB04262025

Quant Time: Apr 30 01:38:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

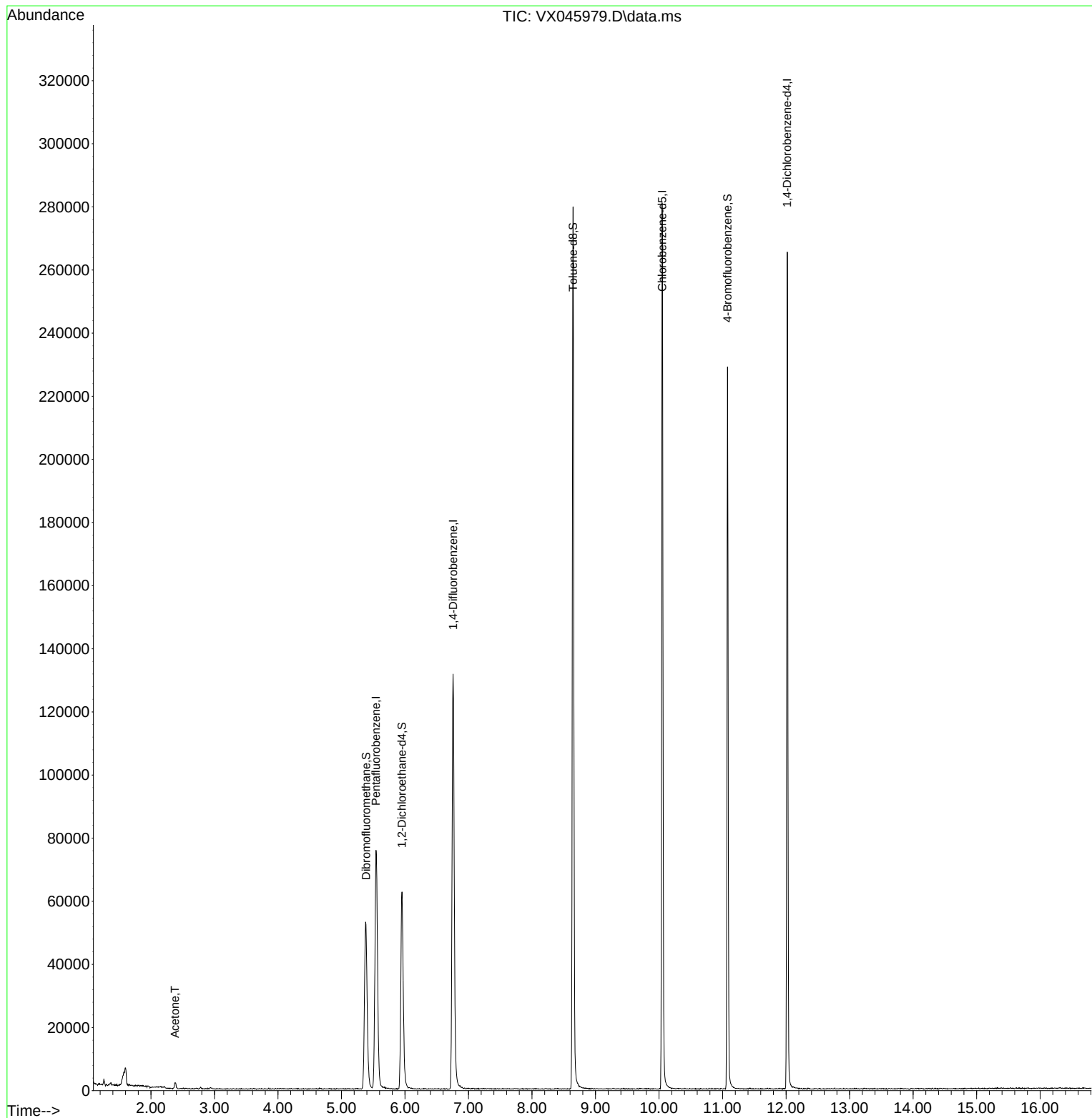
Internal Standards						
1) Pentafluorobenzene	5.544	168	64509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	115874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64442	54.626	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.260%	
35) Dibromofluoromethane	5.385	113	46820	51.573	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.140%	
50) Toluene-d8	8.647	98	159888	50.459	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.920%	
62) 4-Bromofluorobenzene	11.079	95	58165	50.394	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 100.780%	
Target Compounds						Qvalue
16) Acetone	2.380	43	2285	4.717	ug/l	94

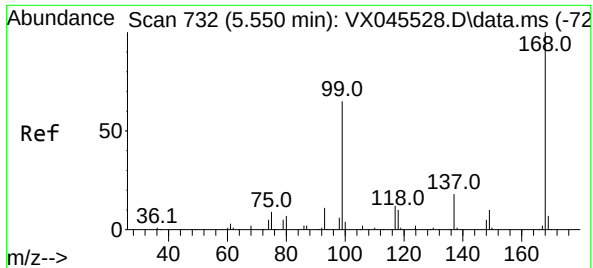
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Time: Apr 30 01:38:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045979.D

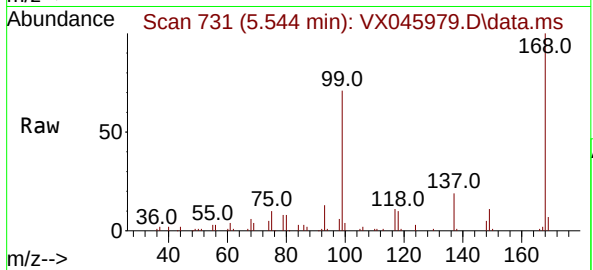
Acq: 29 Apr 2025 13:58

Instrument :

MSVOA_X

ClientSampleId :

FB04262025

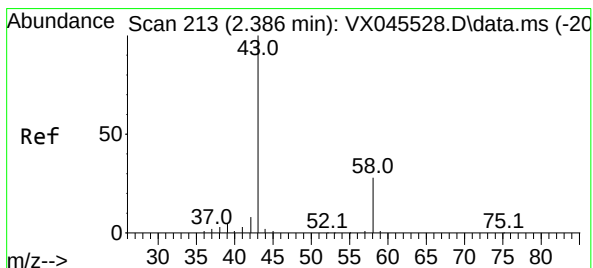
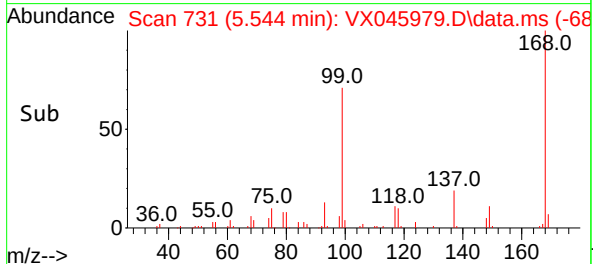
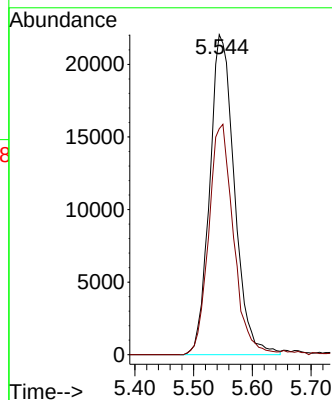


Tgt Ion:168 Resp: 64509

Ion Ratio Lower Upper

168 100

99 70.6 52.3 78.5



#16

Acetone

Concen: 4.717 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045979.D

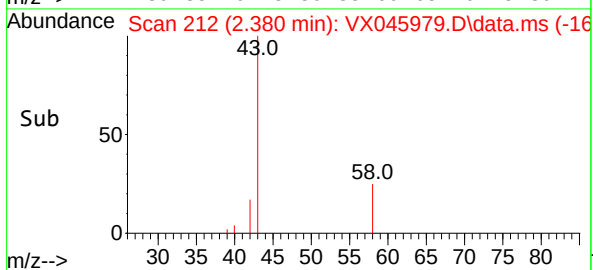
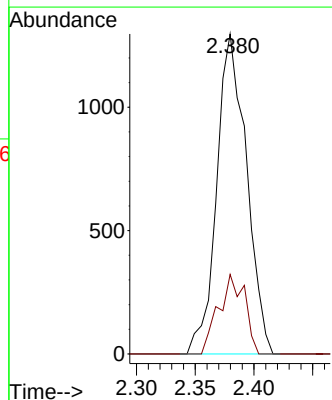
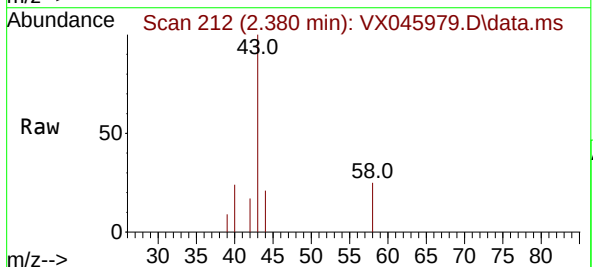
Acq: 29 Apr 2025 13:58

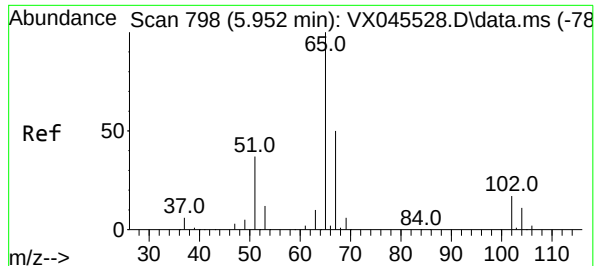
Tgt Ion: 43 Resp: 2285

Ion Ratio Lower Upper

43 100

58 24.8 22.3 33.5





#33

1,2-Dichloroethane-d4

Concen: 54.626 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045979.D

Acq: 29 Apr 2025 13:58

Instrument :

MSVOA_X

ClientSampleId :

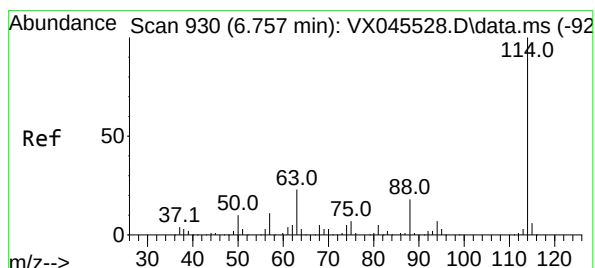
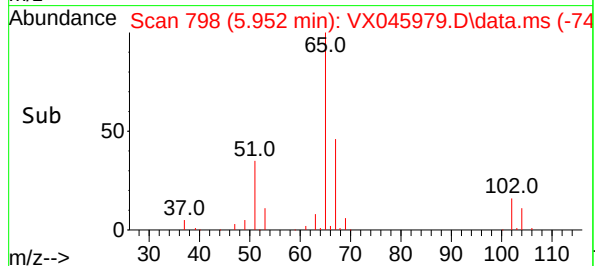
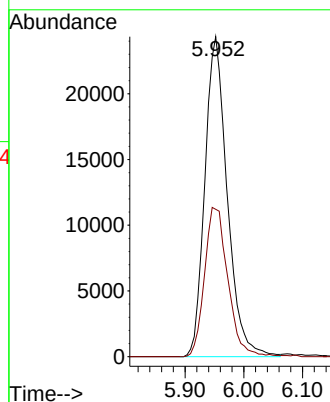
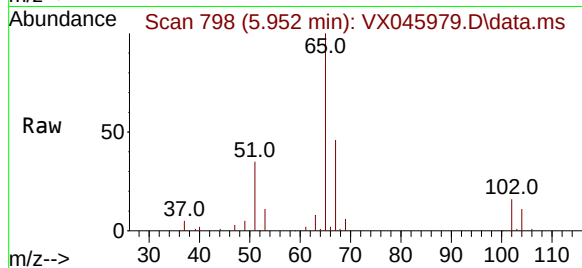
FB04262025

Tgt Ion: 65 Resp: 64442

Ion Ratio Lower Upper

65 100

67 48.7 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045979.D

Acq: 29 Apr 2025 13:58

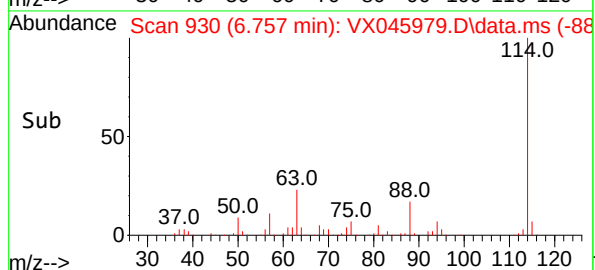
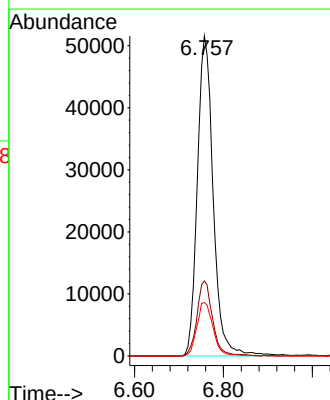
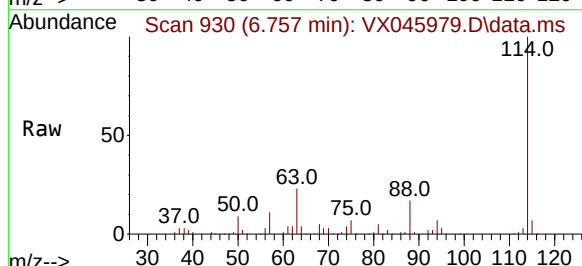
Tgt Ion: 114 Resp: 127954

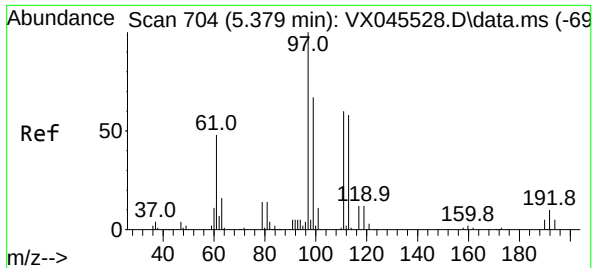
Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.8

88 16.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.573 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX045979.D

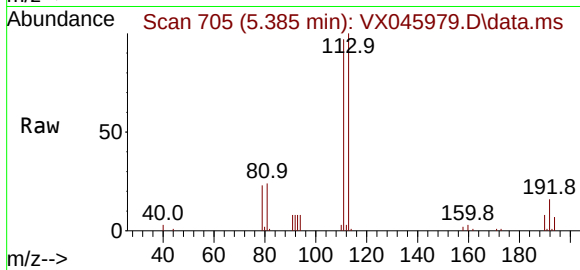
Acq: 29 Apr 2025 13:58

Instrument :

MSVOA_X

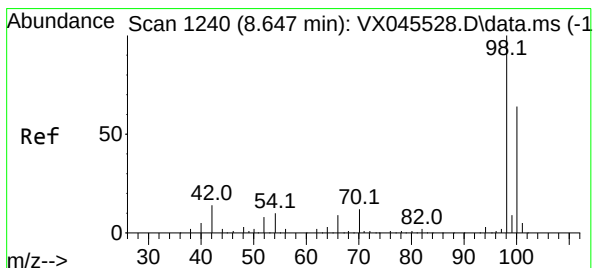
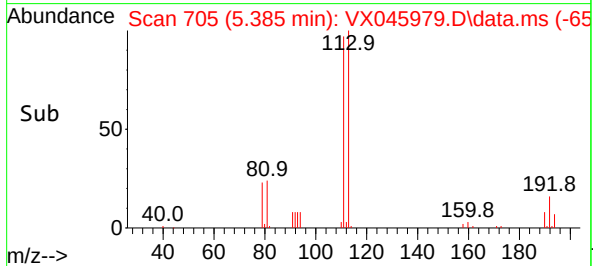
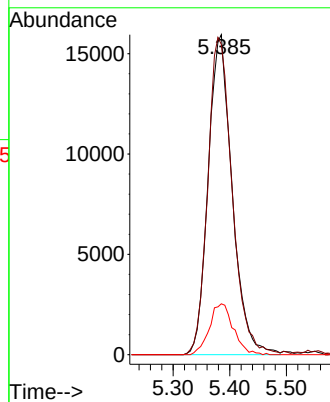
ClientSampleId :

FB04262025



Tgt Ion:113 Resp: 46820

Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.8	122.6
192	15.9	13.8	20.6



#50

Toluene-d8

Concen: 50.459 ug/l

RT: 8.647 min Scan# 1240

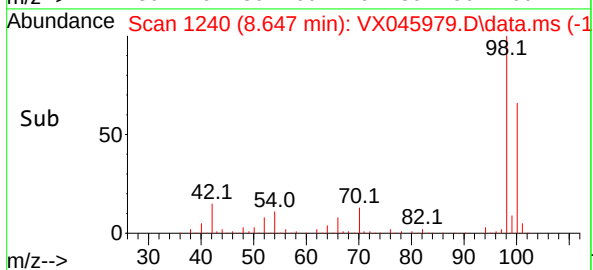
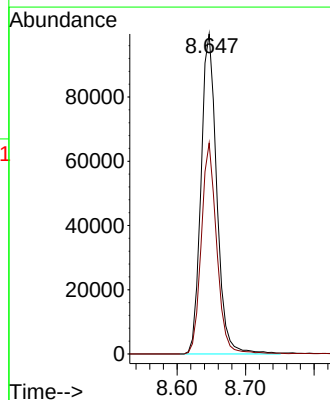
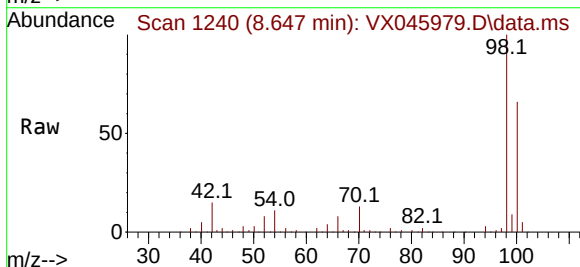
Delta R.T. 0.000 min

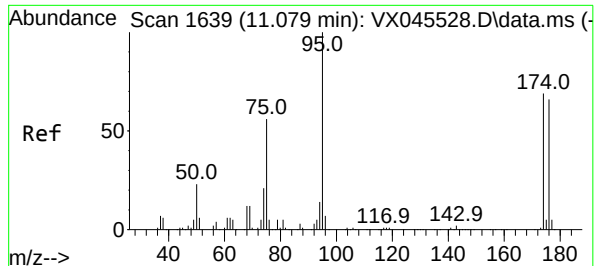
Lab File: VX045979.D

Acq: 29 Apr 2025 13:58

Tgt Ion: 98 Resp: 159888

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4





#62

4-Bromofluorobenzene

Concen: 50.394 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045979.D

Acq: 29 Apr 2025 13:58

Instrument :

MSVOA_X

ClientSampleId :

FB04262025

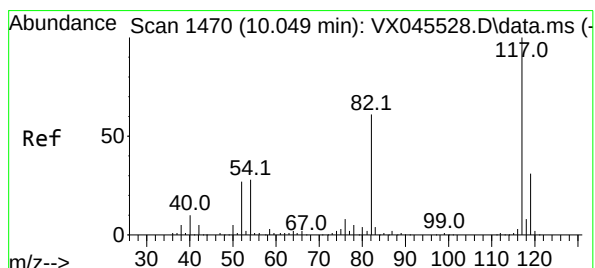
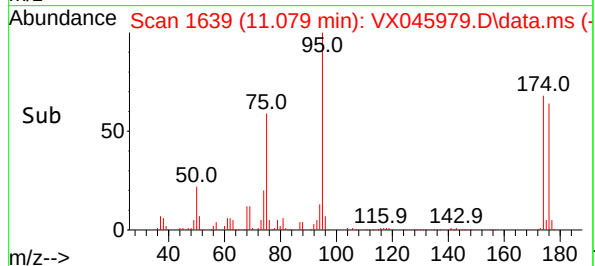
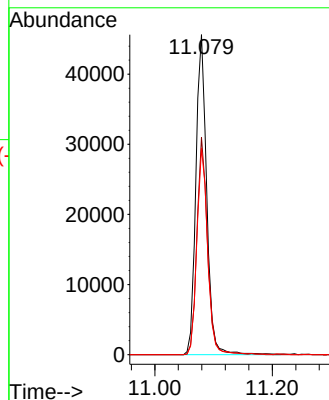
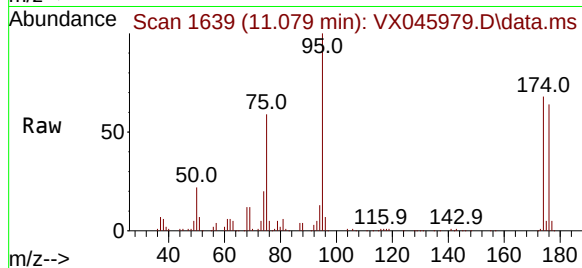
Tgt Ion: 95 Resp: 58165

Ion Ratio Lower Upper

95 100

174 66.7 0.0 135.8

176 64.7 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: VX045979.D

Acq: 29 Apr 2025 13:58

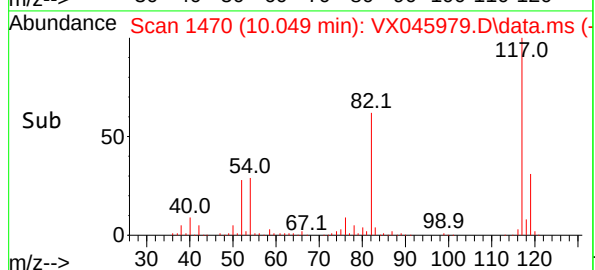
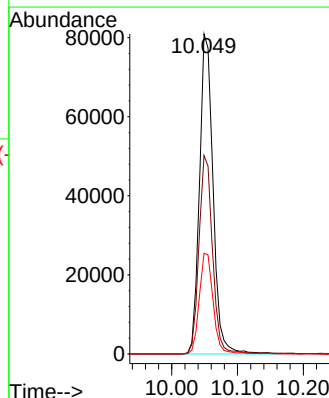
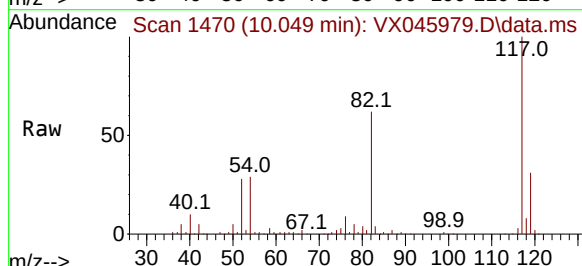
Tgt Ion: 117 Resp: 115874

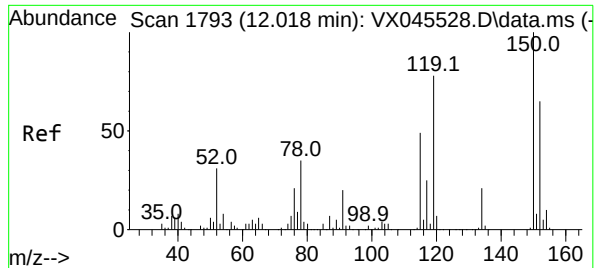
Ion Ratio Lower Upper

117 100

82 62.0 49.2 73.8

119 31.4 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045979.D

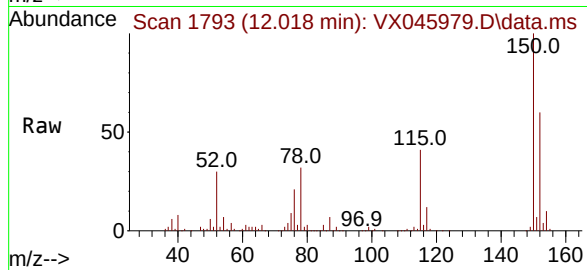
Acq: 29 Apr 2025 13:58

Instrument :

MSVOA_X

ClientSampleId :

FB04262025



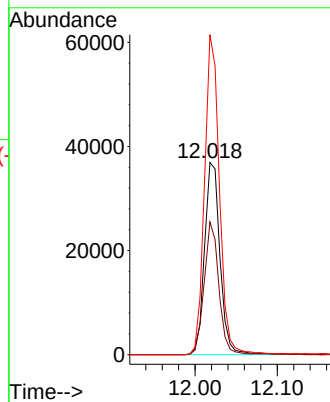
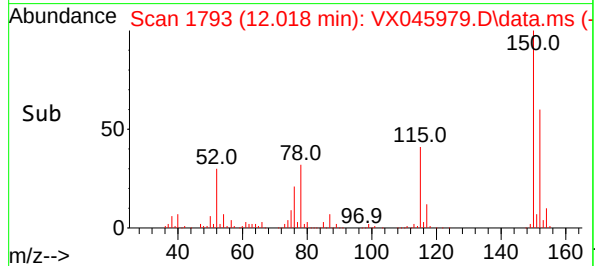
Tgt Ion:152 Resp: 48370

Ion Ratio Lower Upper

152 100

115 65.3 46.9 140.7

150 159.8 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

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\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.575	71	80	81	rBV3	4097	8657	1.93%	0.368%
2	1.599	81	84	89	rVB2	5445	8862	1.98%	0.377%
3	5.379	693	704	721	rBV2	52966	157443	35.14%	6.694%
4	5.544	721	731	747	rVV	75321	216016	48.21%	9.185%
5	5.952	789	798	814	rBV	62439	167024	37.28%	7.102%
6	6.757	919	930	946	rBV	131566	322972	72.08%	13.732%
7	8.647	1233	1240	1256	rBV	279471	448060	100.00%	19.051%
8	10.049	1465	1470	1488	rBV	280871	399593	89.18%	16.990%
9	11.079	1634	1639	1652	rBV	228889	289322	64.57%	12.301%
10	12.018	1788	1793	1807	rBV	265146	333976	74.54%	14.200%

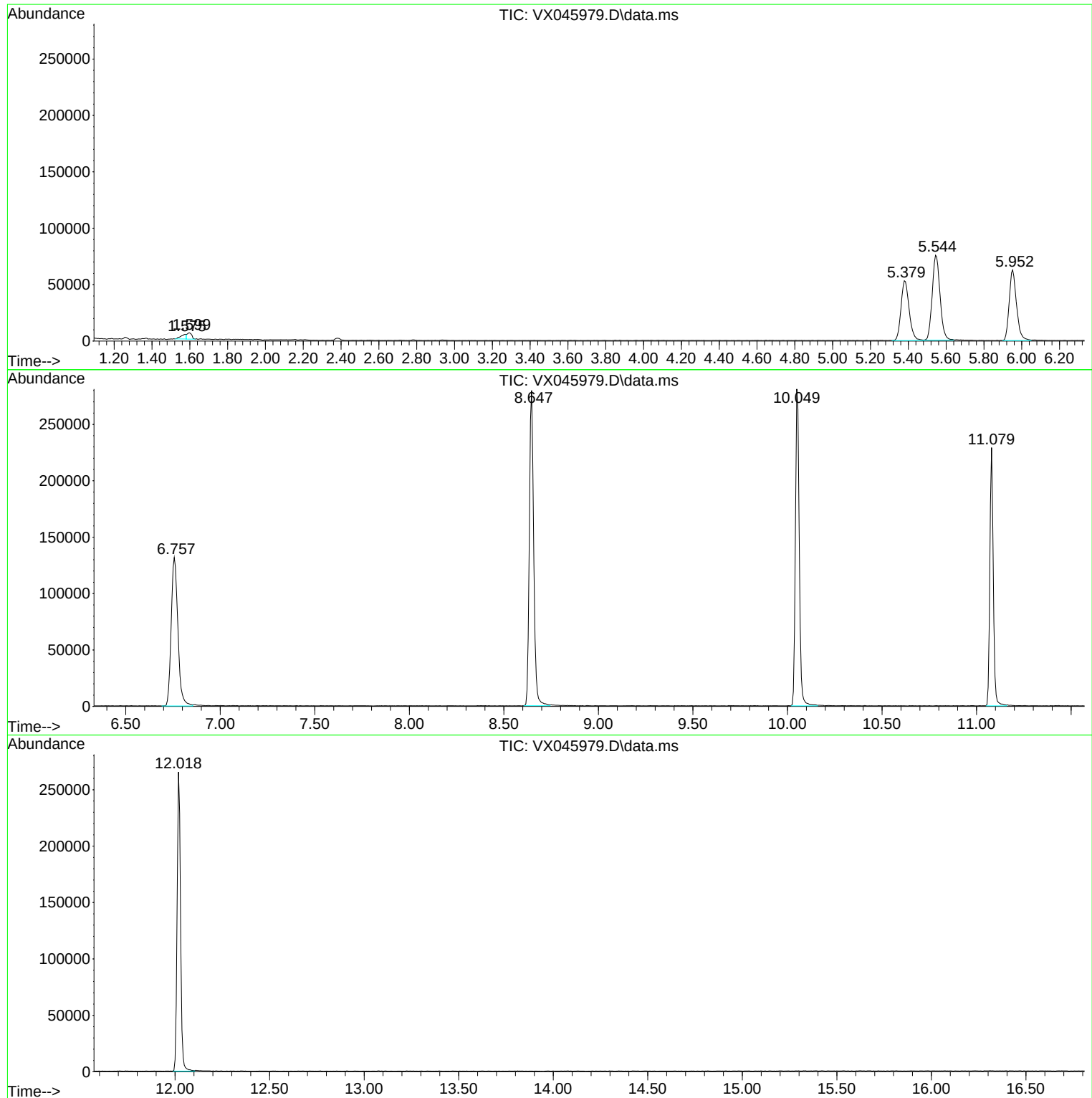
Sum of corrected areas: 2351925

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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\VX042925\
Data File : VX045979.D
Acq On : 29 Apr 2025 13:58
Operator : JC/MD
Sample : Q1901-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045978.D	1		04/29/25 13:35	VX042925

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	1.70	J	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	UQ	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:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045978.D	1		04/29/25 13:35	VX042925

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		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67300	5.544			
540-36-3	1,4-Difluorobenzene	131000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53800	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	TB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-07	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045978.D	1		04/29/25 13:35	VX042925

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\VX042925\
 Data File : VX045978.D
 Acq On : 29 Apr 2025 13:35
 Operator : JC/MD
 Sample : Q1901-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB04262025

Quant Time: Apr 30 01:38:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

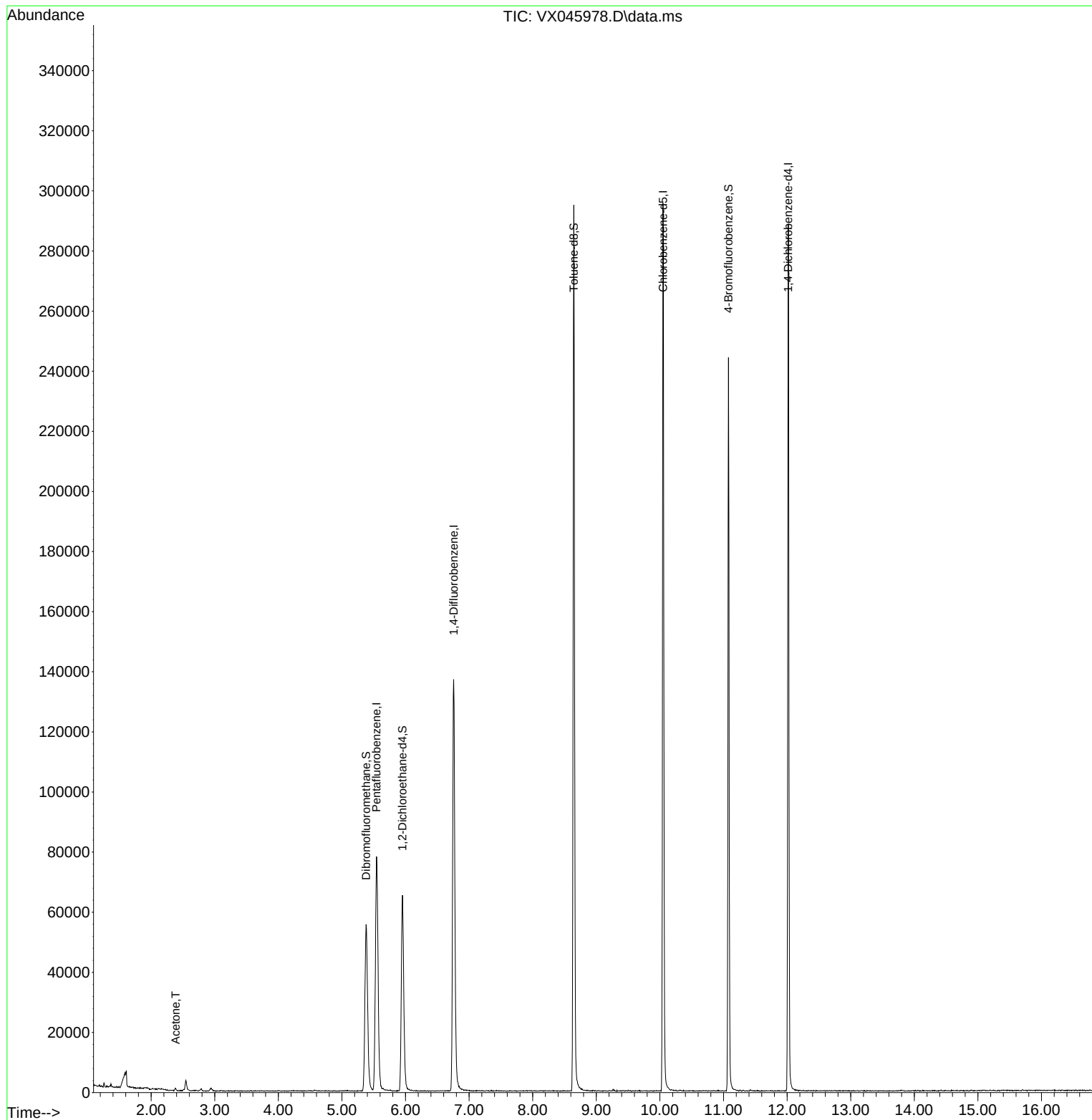
Internal Standards						
1) Pentafluorobenzene	5.544	168	67274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123412	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	53777	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66629	54.158	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.320%	
35) Dibromofluoromethane	5.379	113	48413	51.911	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.820%	
50) Toluene-d8	8.647	98	165475	50.834	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.660%	
62) 4-Bromofluorobenzene	11.079	95	63879	53.875	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 107.740%	
Target Compounds						Qvalue
16) Acetone	2.386	43	854	1.690	ug/l	91

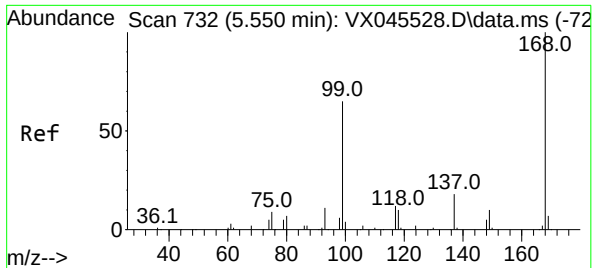
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Time: Apr 30 01:38:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045978.D

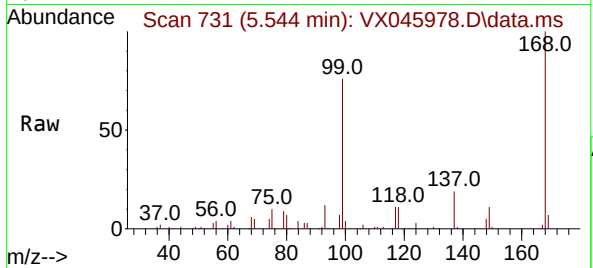
Acq: 29 Apr 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

TB04262025

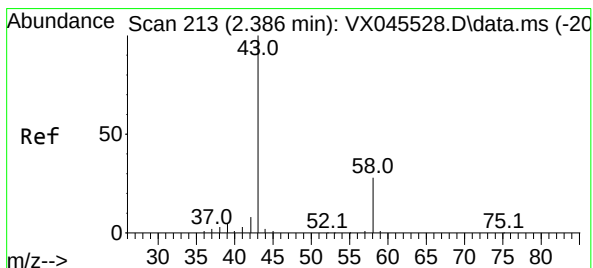
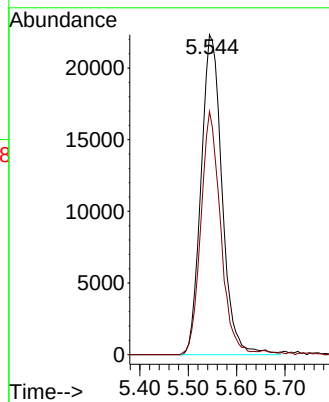
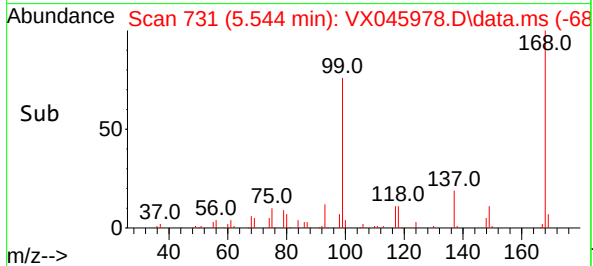


Tgt Ion:168 Resp: 67274

Ion Ratio Lower Upper

168 100

99 76.0 52.3 78.5



#16

Acetone

Concen: 1.690 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX045978.D

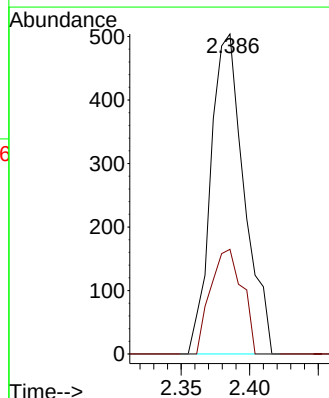
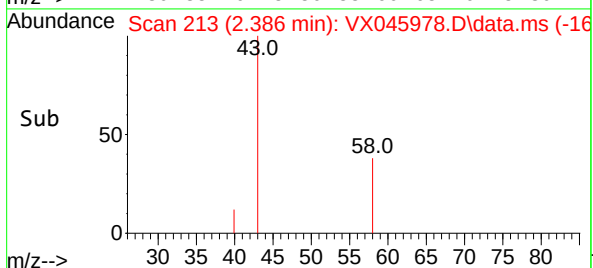
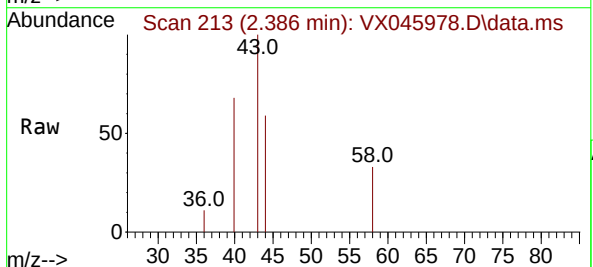
Acq: 29 Apr 2025 13:35

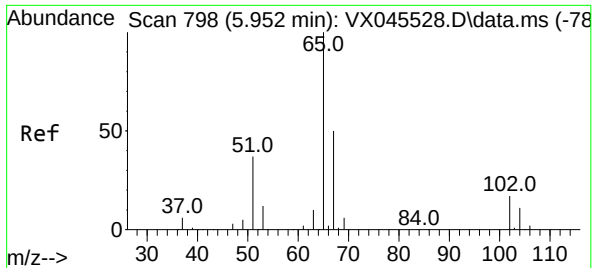
Tgt Ion: 43 Resp: 854

Ion Ratio Lower Upper

43 100

58 32.7 22.3 33.5





#33

1,2-Dichloroethane-d4

Concen: 54.158 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045978.D

Acq: 29 Apr 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

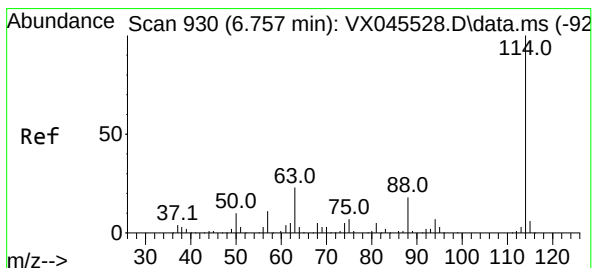
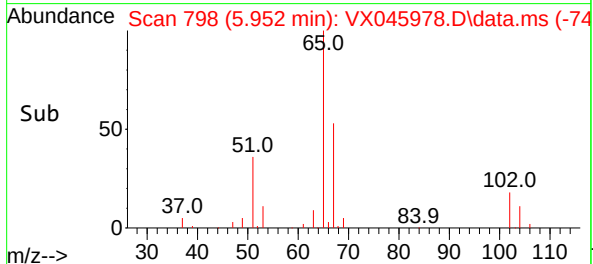
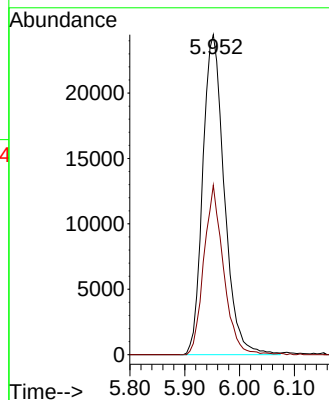
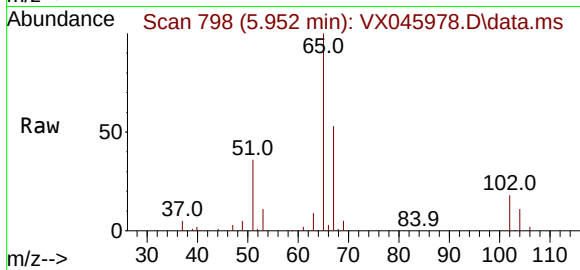
TB04262025

Tgt Ion: 65 Resp: 66629

Ion Ratio Lower Upper

65 100

67 48.3 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045978.D

Acq: 29 Apr 2025 13:35

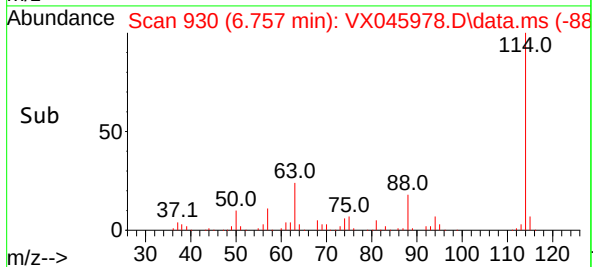
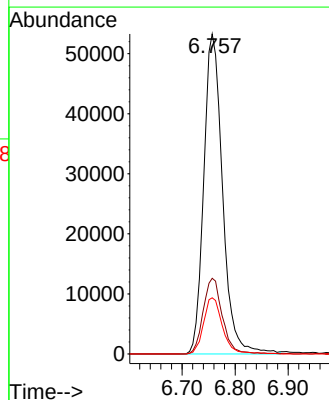
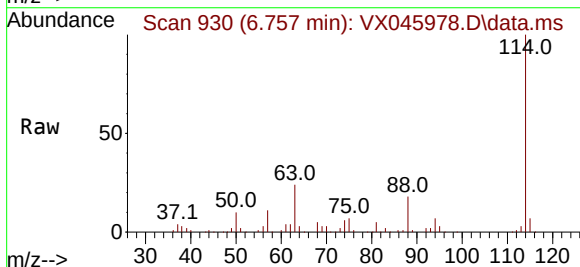
Tgt Ion: 114 Resp: 131446

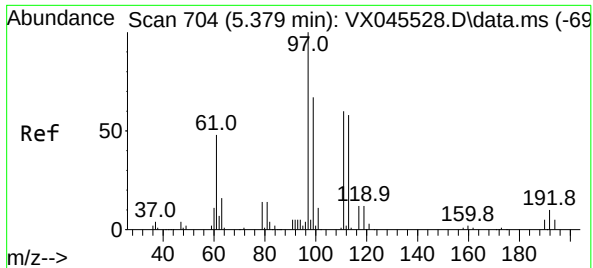
Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.8

88 17.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 51.911 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045978.D

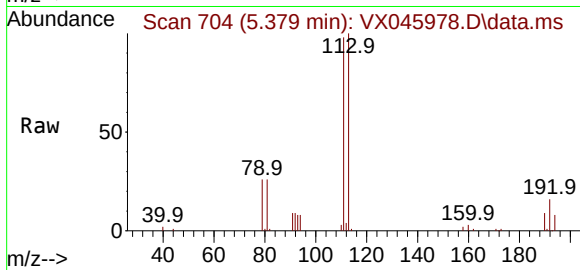
Acq: 29 Apr 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

TB04262025



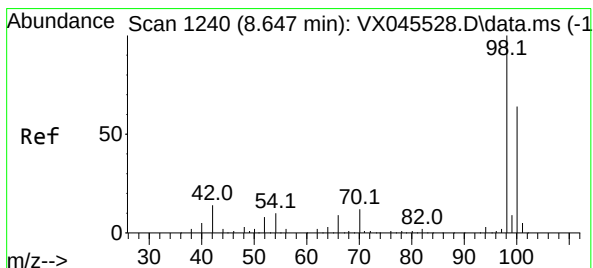
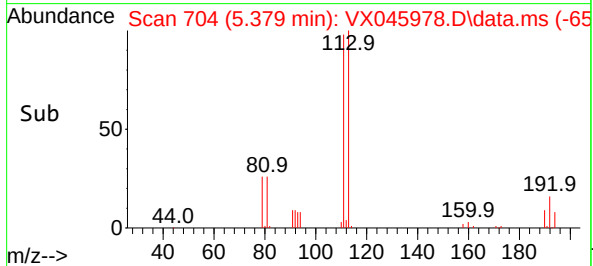
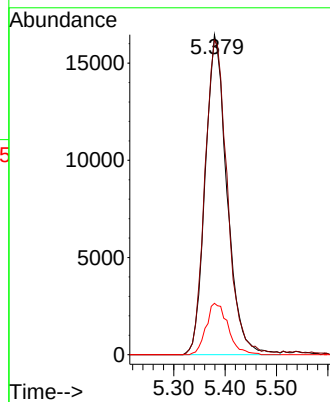
Tgt Ion:113 Resp: 48413

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.6

192 16.2 13.8 20.6



#50

Toluene-d8

Concen: 50.834 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045978.D

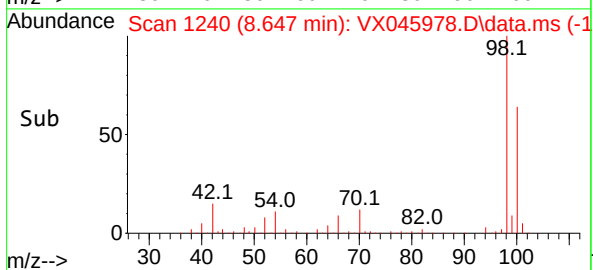
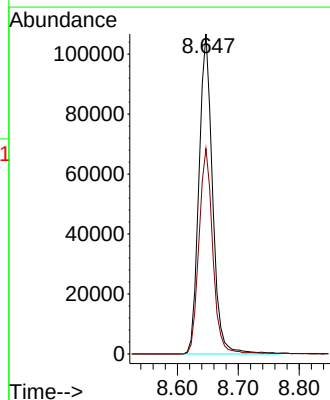
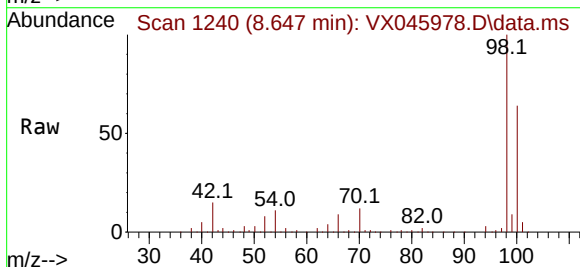
Acq: 29 Apr 2025 13:35

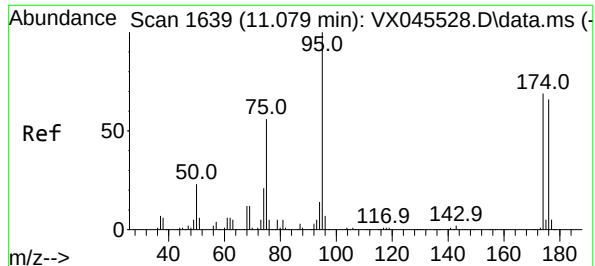
Tgt Ion: 98 Resp: 165475

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4

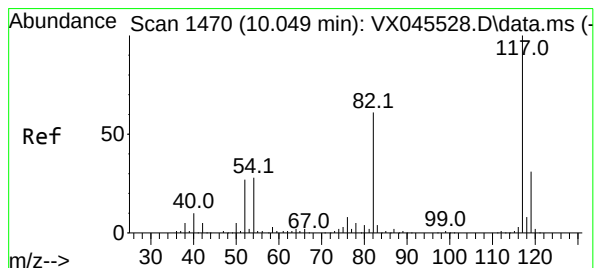
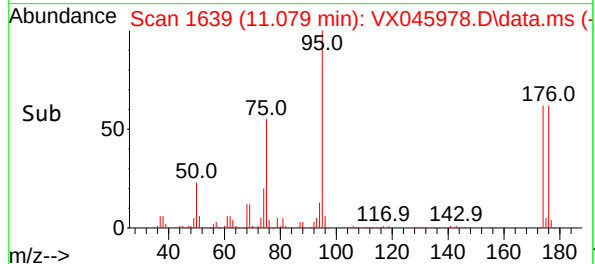
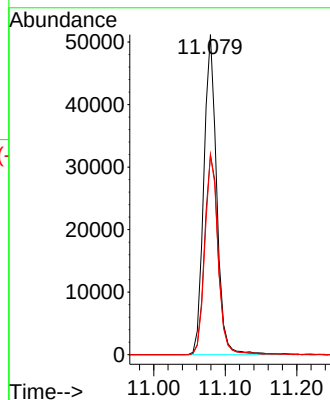
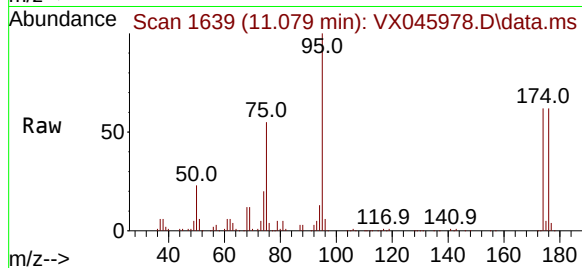




#62
4-Bromofluorobenzene
Concen: 53.875 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

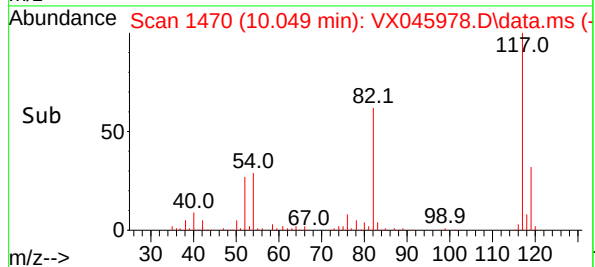
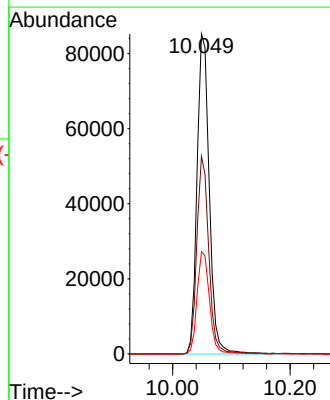
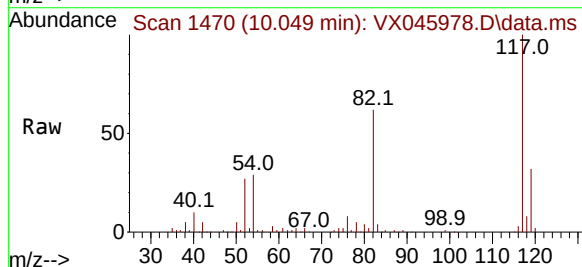
Instrument :
MSVOA_X
ClientSampleId :
TB04262025

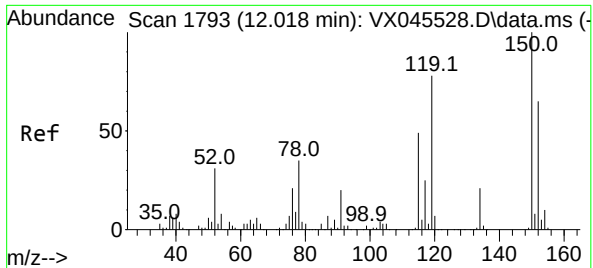
Tgt Ion: 95 Resp: 63879
Ion Ratio Lower Upper
95 100
174 66.4 0.0 135.8
176 64.0 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion: 117 Resp: 123412
Ion Ratio Lower Upper
117 100
82 61.8 49.2 73.8
119 31.9 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045978.D

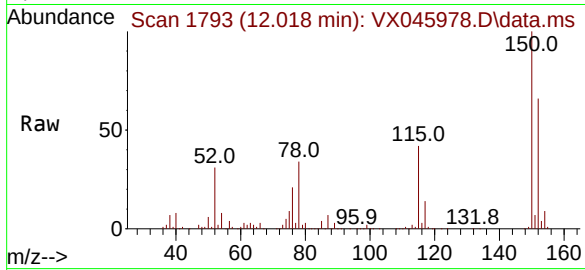
Acq: 29 Apr 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

TB04262025



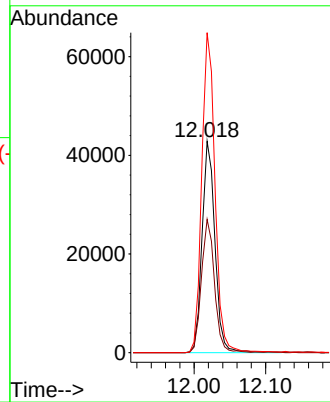
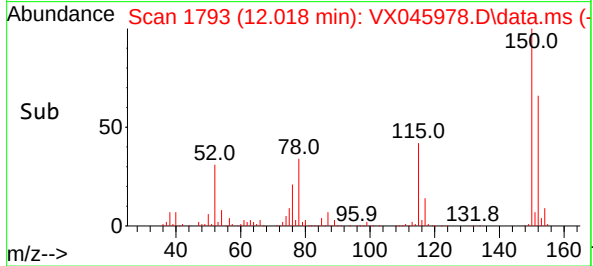
Tgt Ion:152 Resp: 53777

Ion Ratio Lower Upper

152 100

115 63.8 46.9 140.7

150 155.3 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045978.D
 Acq On : 29 Apr 2025 13:35
 Operator : JC/MD
 Sample : Q1901-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB04262025

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\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045978.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	69	82	83	rBV3	5015	13453	2.89%	0.542%
2	1.611	83	86	88	rVB	4904	5340	1.15%	0.215%
3	2.544	235	239	251	rVB	3493	6601	1.42%	0.266%
4	5.379	694	704	721	rBV	55481	165258	35.52%	6.654%
5	5.544	721	731	744	rBV	77631	222460	47.82%	8.957%
6	5.952	789	798	812	rBV	65089	172328	37.04%	6.938%
7	6.757	921	930	947	rBV	136842	336873	72.41%	13.563%
8	8.647	1234	1240	1254	rBV	294795	465244	100.00%	18.732%
9	10.049	1465	1470	1490	rBV	295471	421063	90.50%	16.953%
10	11.079	1634	1639	1652	rBV	243881	309987	66.63%	12.481%
11	12.018	1788	1793	1810	rBV	288514	365134	78.48%	14.701%

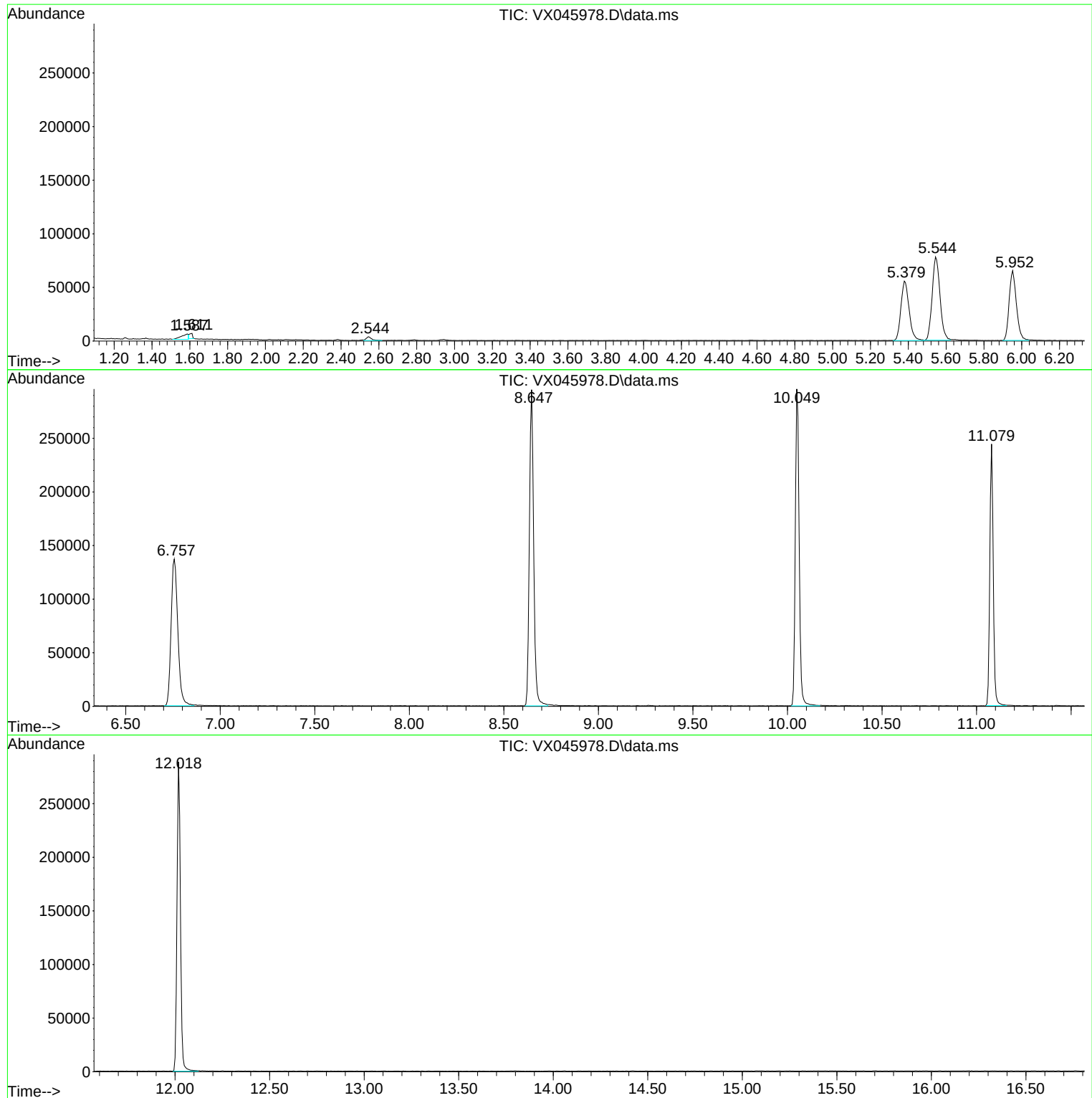
Sum of corrected areas: 2483741

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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\VX042925\
Data File : VX045978.D
Acq On : 29 Apr 2025 13:35
Operator : JC/MD
Sample : Q1901-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX045525.D			RRF005 = VX045526.D		RRF020 = VX045527.D		RRF050 = VX045528.D		RRF100 = VX045529.D		RRF150 = VX045530.D	
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Dichlorodifluoromethane	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.1					
Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.1					
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4					
Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.2					
Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.3					
Trichlorofluoromethane	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.2					
1,1,2-Trichlorotrifluoroethane	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.7					
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5					
Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.3					
Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.2					
Methyl tert-butyl Ether	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.2					
Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.2					
Methylene Chloride	0.692	0.695	0.726	0.709	0.705	0.690	0.703	2					
trans-1,2-Dichloroethene	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.9					
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3					
Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4					
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5					
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5					
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4					
Bromochloromethane	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.2					
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6					
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5					
Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.8					
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8					
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7					
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7					
1,2-Dichloropropane	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.8					
Bromodichloromethane	0.521	0.519	0.576	0.572	0.587	0.583	0.560	5.6					
4-Methyl-2-Pentanone	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.6					
Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.8					

* 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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX045525.D	RRF005 = VX045526.D	RRF020 = VX045527.D	RRF050 = VX045528.D	RRF100 = VX045529.D	RRF150 = VX045530.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.3
cis-1,3-Dichloropropene	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.9
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.1
Dibromochloromethane	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.1
1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.9
m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.9
o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.2
Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.8
Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.1
Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.2
1,1,2,2-Tetrachloroethane	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.4
1,3-Dichlorobenzene	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.7
1,4-Dichlorobenzene	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.1
1,2-Dichlorobenzene	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.3
1,2-Dibromo-3-Chloropropane	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.4
1,2,4-Trichlorobenzene	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.1
1,2,3-Trichlorobenzene	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.6
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M
 Title : SW846 8260
 Last Update : Wed Apr 02 03:11:43 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX045525.D 5 =VX045526.D 20 =VX045527.D 50 =VX045528.D 100 =VX045529.D 150 =VX045530.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.13
3) P	Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.05
4) C	Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.43#
5) T	Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.20
6) T	Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.27
7) T	Trichlorofluor...	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.22
8) T	Diethyl Ether	0.345	0.340	0.356	0.355	0.358	0.357	0.352	2.11
9) T	1,1,2-Trichlor...	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.74
10) T	Methyl Iodide		0.705	0.789	0.799	0.788	0.750	0.766	5.08
11) T	Tert butyl alc...		0.111	0.124	0.127	0.128	0.124	0.123	5.44
12) CM	1,1-Dichloroet...	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.51#
13) T	Acrolein		0.176	0.161	0.167	0.170	0.172	0.169	3.41
14) T	Allyl chloride	1.092	1.068	1.142	1.172	1.199	1.160	1.139	4.36
15) T	Acrylonitrile	0.356	0.382	0.413	0.407	0.394	0.376	0.388	5.38
16) T	Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.28
17) T	Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.24
18) T	Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.22
19) T	Methyl tert-bu...	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.20
20) T	Methylene Chlo...	0.692	0.695	0.726	0.709	0.705	0.690	0.703	1.96
21) T	trans-1,2-Dich...	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.94
22) T	Diisopropyl ether	2.003	2.120	2.329	2.293	2.359	2.357	2.243	6.59
23) T	Vinyl Acetate	1.542	1.693	2.005	2.087	2.147	2.156	1.938	13.34
24) P	1,1-Dichloroet...	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3.01
25) T	2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.55
26) T	2,2-Dichloropr...	0.676	0.757	0.802	0.847	0.903	0.933	0.820	11.67
27) T	cis-1,2-Dichlo...	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.43
28) T	Bromochloromet...	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.18
29) T	Tetrahydrofuran	0.339	0.341	0.371	0.371	0.364	0.352	0.356	4.05
30) C	Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.60#
31) T	Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4.00
32) T	1,1,1-Trichlor...	1.028	1.052	1.120	1.109	1.153	1.167	1.105	4.96
33) S	1,2-Dichloroet...		0.962	0.900	0.868	0.904	0.937	0.914	3.94
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.372	0.342	0.345	0.353	0.362	0.355	3.48
36) T	1,1-Dichloropr...	0.477	0.443	0.474	0.485	0.496	0.499	0.479	4.26
37) T	Ethyl Acetate	0.582	0.565	0.609	0.623	0.629	0.614	0.604	4.15
38) T	Carbon Tetrach...	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.49
39) T	Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.76
40) TM	Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.81
41) T	Methacrylonitrile	0.252	0.276	0.338	0.351	0.350	0.343	0.318	13.52
42) TM	1,2-Dichloroet...	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.72
43) T	Isopropyl Acetate	0.735	0.831	0.952	0.978	1.002	0.991	0.915	11.77
44) TM	Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.67
45) C	1,2-Dichloropr...	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.83#
46) T	Dibromomethane	0.237	0.287	0.297	0.292	0.286	0.282	0.280	7.76
47) T	Bromodichlorom...	0.521	0.519	0.576	0.571	0.587	0.583	0.560	5.56
48) T	Methyl methacr...	0.405	0.416	0.486	0.508	0.518	0.502	0.472	10.44
49) T	1,4-Dioxane	0.007	0.010	0.009	0.009	0.009	0.008	0.009	13.93
50) S	Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.50
51) T	4-Methyl-2-Pen...	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.57
52) CM	Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.79#
53) T	t-1,3-Dichloro...	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.27
54) T	cis-1,3-Dichlo...	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.88
55) T	1,1,2-Trichlor...	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.11
56) T	Ethyl methacry...	0.407	0.482	0.562	0.600	0.629	0.595	0.546	15.54

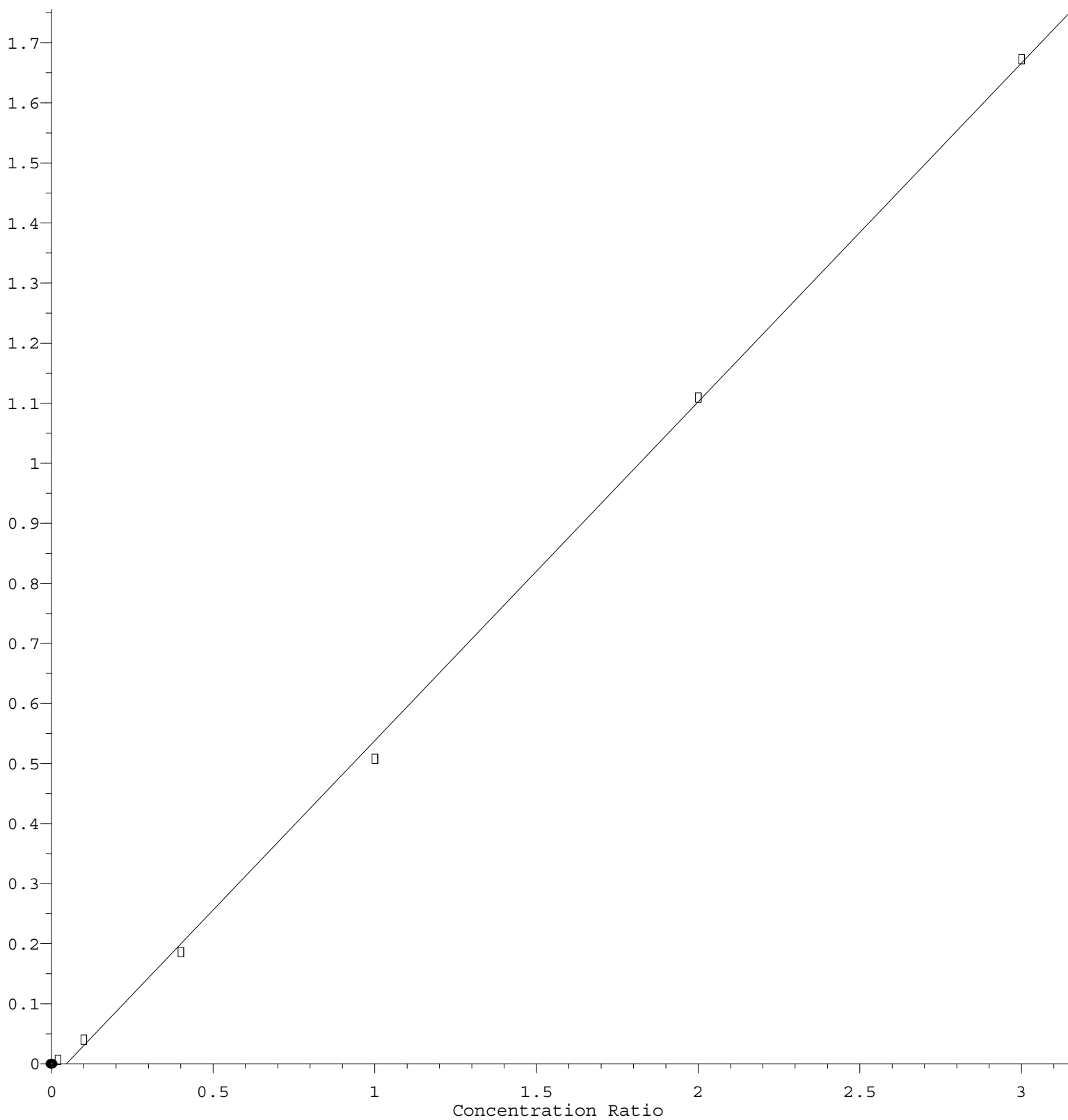
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M

57)	T	1,3-Dichloropr...	0.555	0.614	0.652	0.633	0.630	0.601	0.614	5.49
58)	T	2-Chloroethyl ...	0.221	0.257	0.286	0.298	0.301	0.293	0.276	11.26
59)	T	2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.14
60)	T	Dibromochlorom...	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.06
61)	T	1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.12
62)	S	4-Bromofluorob...		0.413	0.448	0.453	0.481	0.460	0.451	5.45
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.47
65)	PM	Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.83
66)	T	1,1,1,2-Tetrac...	0.368	0.344	0.372	0.373	0.379	0.390	0.371	4.18
67)	C	Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.89#
68)	T	m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.92
69)	T	o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.17
70)	T	Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.82
71)	P	Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.07
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.17
74)	T	N-amyl acetate	1.442	1.682	1.960	2.058	2.132	2.221	1.916	15.51
75)	P	1,1,2,2-Tetrac...	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.43
76)	T	1,2,3-Trichlor...	1.221	1.257	1.251	1.225	1.192	1.171	1.220	2.71
77)	T	Bromobenzene	0.877	0.927	0.953	0.938	0.925	0.932	0.925	2.77
78)	T	n-propylbenzene	3.734	4.346	5.012	4.896	4.819	4.872	4.613	10.59
79)	T	2-Chlorotoluene	2.894	2.873	3.130	2.966	2.915	2.918	2.949	3.19
80)	T	1,3,5-Trimethy...	2.931	3.119	3.571	3.511	3.367	3.371	3.312	7.35
81)	T	trans-1,4-Dich...		0.274	0.323	0.371	0.401	0.428	0.359	17.16
82)	T	4-Chlorotoluene	2.961	3.156	3.470	3.449	3.350	3.343	3.288	5.93
83)	T	tert-Butylbenzene	2.894	3.124	3.437	3.427	3.387	3.405	3.279	6.78
84)	T	1,2,4-Trimethy...	2.906	3.129	3.529	3.523	3.438	3.420	3.324	7.57
85)	T	sec-Butylbenzene	3.195	3.828	4.316	4.300	4.232	4.292	4.027	11.12
86)	T	p-Isopropyltol...	2.734	3.157	3.515	3.524	3.506	3.484	3.320	9.63
87)	T	1,3-Dichlorobe...	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.70
88)	T	1,4-Dichlorobe...	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.09
89)	T	n-Butylbenzene	2.117	2.486	2.974	3.160	3.256	3.283	2.879	16.50
90)	T	Hexachloroethane	0.493	0.493	0.556	0.597	0.623	0.661	0.571	12.14
91)	T	1,2-Dichlorobe...	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.34
92)	T	1,2-Dibromo-3-...	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.37
93)	T	1,2,4-Trichlor...	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.07
94)	T	Hexachlorobuta...	0.379	0.389	0.401	0.404	0.415	0.422	0.402	4.03
95)	T	Naphthalene	2.544	3.070	3.630	3.722	3.867	3.982	3.469	15.93
96)	T	1,2,3-Trichlor...	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.63

(#) = Out of Range

t-1,3-Dichloropropene

Response Ratio



$$\text{Response} = 5.639\text{e-}001 * \text{Amt} - 2.582\text{e-}002$$

Coef of Det (r^2) = 0.999232 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X040225W.M

Calibration Table Last Updated: Wed Apr 02 03:11:43 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	96737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175266	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61114	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	1.167	85	1189	0.822	ug/l	94
3) Chloromethane	1.307	50	1479	0.995	ug/l #	86
4) Vinyl Chloride	1.374	62	1299	0.955	ug/l	98
6) Chloroethane	1.673	64	732	1.014	ug/l #	67
7) Trichlorofluoromethane	1.880	101	2034	1.003	ug/l	93
8) Diethyl Ether	2.130	74	668	0.981	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.325	101	1113	0.936	ug/l	94
12) 1,1-Dichloroethene	2.313	96	1090	0.939	ug/l	95
14) Allyl chloride	2.660	41	2113	0.959	ug/l	93
15) Acrylonitrile	3.075	53	3446	4.592	ug/l	95
16) Acetone	2.380	43	3867	5.323	ug/l	98
17) Carbon Disulfide	2.508	76	2580	0.899	ug/l #	95
18) Methyl Acetate	2.703	43	1744	1.043	ug/l	91
19) Methyl tert-butyl Ether	3.117	73	3705	0.912	ug/l	92
20) Methylene Chloride	2.782	84	1338	0.984	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	1111	0.936	ug/l #	93
22) Diisopropyl ether	3.758	45	3875	0.893	ug/l #	59
23) Vinyl Acetate	3.727	43	14921	3.979	ug/l	95
24) 1,1-Dichloroethane	3.611	63	2343	0.954	ug/l #	90
25) 2-Butanone	4.581	43	4590	4.317	ug/l	92
26) 2,2-Dichloropropane	4.471	77	1307	0.824	ug/l	85
27) cis-1,2-Dichloroethene	4.495	96	1475	1.020	ug/l	80
28) Bromochloromethane	4.891	49	1298	1.094	ug/l #	97
29) Tetrahydrofuran	5.032	42	3276	4.752	ug/l	97
30) Chloroform	5.093	83	2406	0.953	ug/l	84
32) 1,1,1-Trichloroethane	5.385	97	1989	0.931	ug/l #	53
36) 1,1-Dichloropropene	5.696	75	1671	0.995	ug/l #	89
37) Ethyl Acetate	4.751	43	2040	0.964	ug/l #	76
38) Carbon Tetrachloride	5.672	117	1578	0.870	ug/l #	91
39) Methylcyclohexane	7.379	83	1818	0.883	ug/l #	89
40) Benzene	6.038	78	4957	0.967	ug/l	97
41) Methacrylonitrile	4.952	41	883m	0.784	ug/l	
42) 1,2-Dichloroethane	6.092	62	1867	0.882	ug/l	86
43) Isopropyl Acetate	6.361	43	2578	0.804	ug/l #	86
44) Trichloroethene	7.123	130	1224	1.004	ug/l	87
45) 1,2-Dichloropropane	7.434	63	1082	0.846	ug/l	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	831	0.846	ug/l	90
47) Bromodichloromethane	7.824	83	1827	0.931	ug/l #	77
48) Methyl methacrylate	7.720	41	1419	0.857	ug/l	92
49) 1,4-Dioxane	7.671	88	458m	15.288	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	8746	4.114	ug/l	100
52) Toluene	8.720	92	2863	0.923	ug/l	96
53) t-1,3-Dichloropropene	8.988	75	1109	2.850	ug/l	93
54) cis-1,3-Dichloropropene	8.379	75	1300	0.705	ug/l	90
55) 1,1,2-Trichloroethane	9.159	97	1183	0.957	ug/l #	76
56) Ethyl methacrylate	9.129	69	1425m	0.745	ug/l	
57) 1,3-Dichloropropane	9.311	76	1946	0.904	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.245	63	3880	4.008	ug/l	93
59) 2-Hexanone	9.439	43	6360	4.040	ug/l	85
60) Dibromochloromethane	9.519	129	1097	0.814	ug/l	99
61) 1,2-Dibromoethane	9.610	107	1032	0.825	ug/l	96
64) Tetrachloroethene	9.269	164	1062	0.981	ug/l	92
65) Chlorobenzene	10.080	112	2916	0.890	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.159	131	1128	0.992	ug/l #	64
67) Ethyl Benzene	10.195	91	4930	0.840	ug/l	90
68) m/p-Xylenes	10.305	106	3645	1.708	ug/l	97
69) o-Xylene	10.640	106	1724	0.820	ug/l	83
70) Styrene	10.659	104	2750	0.793	ug/l	94
71) Bromoform	10.805	173	675	0.795	ug/l #	94
73) Isopropylbenzene	10.964	105	4377	0.894	ug/l	95
74) N-amyl acetate	10.854	43	1762	0.752	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.214	83	1781	1.036	ug/l	94
76) 1,2,3-Trichloropropane	11.244	75	1493m	1.002	ug/l	
77) Bromobenzene	11.201	156	1072	0.948	ug/l	95
78) n-propylbenzene	11.305	91	4564	0.809	ug/l	97
79) 2-Chlorotoluene	11.366	91	3537	0.981	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	3582	0.885	ug/l	100
82) 4-Chlorotoluene	11.457	91	3619	0.900	ug/l	96
83) tert-Butylbenzene	11.713	119	3537	0.883	ug/l	94
84) 1,2,4-Trimethylbenzene	11.750	105	3552	0.874	ug/l	99
85) sec-Butylbenzene	11.890	105	3905	0.793	ug/l	98
86) p-Isopropyltoluene	12.012	119	3342	0.824	ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	2026	0.984	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	2042m	0.978	ug/l	
89) n-Butylbenzene	12.335	91	2587	0.735	ug/l	99
90) Hexachloroethane	12.543	117	602	0.863	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	2009	0.981	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	239	0.665	ug/l #	73
93) 1,2,4-Trichlorobenzene	13.591	180	888	0.779	ug/l	94
94) Hexachlorobutadiene	13.725	225	463	0.943	ug/l	90
95) Naphthalene	13.780	128	3109	0.733	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	956	0.801	ug/l	88

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

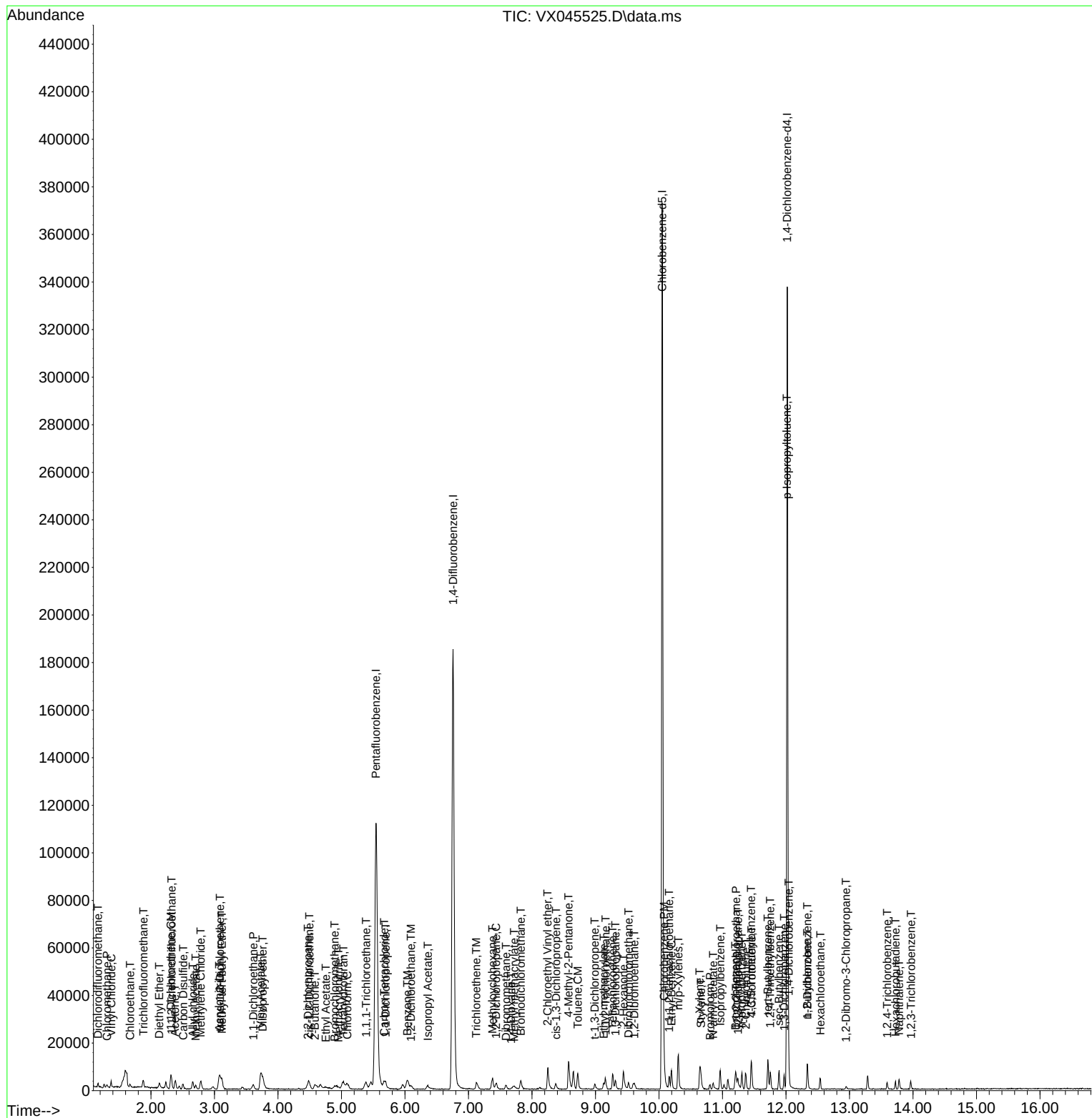

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On    : 01 Apr 2025 17:06
Operator  : JC/MD
Sample    : VSTDIC001
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 3      Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	93234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	166137	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	8969	5.260	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.520%#		
35) Dibromofluoromethane	5.391	113	6181	5.244	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.480%#		
50) Toluene-d8	8.647	98	20890	5.077	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.160%#		
62) 4-Bromofluorobenzene	11.079	95	6867	4.582	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.160%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6482	4.649	ug/l	91
3) Chloromethane	1.307	50	6846	4.779	ug/l	99
4) Vinyl Chloride	1.374	62	6169	4.706	ug/l	100
5) Bromomethane	1.593	94	3185	5.124	ug/l	90
6) Chloroethane	1.666	64	3703	5.324	ug/l	96
7) Trichlorofluoromethane	1.874	101	9316	4.766	ug/l	94
8) Diethyl Ether	2.136	74	3171	4.832	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	5589	4.879	ug/l	99
10) Methyl Iodide	2.447	142	6574	4.601	ug/l	97
11) Tert butyl alcohol	2.983	59	5186	22.633	ug/l	99
12) 1,1-Dichloroethene	2.313	96	5485	4.901	ug/l	90
13) Acrolein	2.239	56	8202	25.993	ug/l	97
14) Allyl chloride	2.654	41	9960	4.690	ug/l	95
15) Acrylonitrile	3.069	53	17811	24.624	ug/l	97
16) Acetone	2.386	43	17188	24.550	ug/l	99
17) Carbon Disulfide	2.502	76	12376	4.477	ug/l #	93
18) Methyl Acetate	2.703	43	8042	4.989	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	18314	4.677	ug/l	100
20) Methylene Chloride	2.782	84	6481	4.945	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	5534	4.840	ug/l	95
22) Diisopropyl ether	3.764	45	19765	4.725	ug/l #	82
23) Vinyl Acetate	3.721	43	78907	21.831	ug/l	98
24) 1,1-Dichloroethane	3.605	63	11562	4.887	ug/l	98
25) 2-Butanone	4.574	43	25026	24.419	ug/l	99
26) 2,2-Dichloropropane	4.477	77	7054	4.615	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	6485	4.655	ug/l	95
28) Bromochloromethane	4.898	49	5666	4.956	ug/l	95
29) Tetrahydrofuran	5.013	42	15913	23.950	ug/l	100
30) Chloroform	5.087	83	12200	5.012	ug/l	99
31) Cyclohexane	5.465	56	9731	4.653	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	9811	4.763	ug/l	99
36) 1,1-Dichloropropene	5.690	75	7354	4.621	ug/l	98
37) Ethyl Acetate	4.721	43	9384	4.679	ug/l #	91
38) Carbon Tetrachloride	5.666	117	8264	4.804	ug/l	99
39) Methylcyclohexane	7.379	83	8757	4.489	ug/l	95
40) Benzene	6.038	78	23522	4.839	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	4593	4.302	ug/l	92
42) 1,2-Dichloroethane	6.092	62	9713	4.838	ug/l	100
43) Isopropyl Acetate	6.348	43	13803	4.541	ug/l	97
44) Trichloroethene	7.129	130	5355	4.635	ug/l	99
45) 1,2-Dichloropropane	7.434	63	6060	4.997	ug/l	99
46) Dibromomethane	7.580	93	4767	5.120	ug/l	99
47) Bromodichloromethane	7.818	83	8619	4.636	ug/l #	97
48) Methyl methacrylate	7.696	41	6908	4.401	ug/l	98
49) 1,4-Dioxane	7.665	88	3205	112.864	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	48050	23.844	ug/l	97
52) Toluene	8.714	92	14391	4.893	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	6643	5.834	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	7873	4.506	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	5741	4.898	ug/l	90
56) Ethyl methacrylate	9.116	69	8012	4.417	ug/l	95
57) 1,3-Dichloropropane	9.305	76	10208	5.002	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	21382	23.302	ug/l	99
59) 2-Hexanone	9.433	43	35628	23.875	ug/l	99
60) Dibromochloromethane	9.519	129	5855	4.582	ug/l	99
61) 1,2-Dibromoethane	9.610	107	5837	4.920	ug/l	98
64) Tetrachloroethene	9.275	164	5373	5.287	ug/l	93
65) Chlorobenzene	10.073	112	15178	4.935	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	4945	4.631	ug/l	97
67) Ethyl Benzene	10.195	91	26180	4.753	ug/l	97
68) m/p-Xylenes	10.299	106	19268	9.617	ug/l	99
69) o-Xylene	10.640	106	9735	4.932	ug/l	99
70) Styrene	10.653	104	15017	4.610	ug/l	96
71) Bromoform	10.799	173	3634	4.558	ug/l #	95
73) Isopropylbenzene	10.964	105	24604	4.806	ug/l	100
74) N-amyl acetate	10.848	43	10750	4.390	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	9127	5.075	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	8032m	5.152	ug/l	
77) Bromobenzene	11.195	156	5927	5.011	ug/l	97
78) n-propylbenzene	11.305	91	27777	4.711	ug/l	98
79) 2-Chlorotoluene	11.360	91	18358	4.870	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	19936	4.710	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	1752	3.814	ug/l	85
82) 4-Chlorotoluene	11.457	91	20171	4.799	ug/l	99
83) tert-Butylbenzene	11.713	119	19962	4.763	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	19998	4.707	ug/l	99
85) sec-Butylbenzene	11.890	105	24465	4.753	ug/l	100
86) p-Isopropyltoluene	12.006	119	20178	4.755	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	10255	4.763	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	11016	5.047	ug/l	93
89) n-Butylbenzene	12.329	91	15887	4.317	ug/l	98
90) Hexachloroethane	12.536	117	3151	4.320	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	10510	4.910	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1661	4.417	ug/l	92
93) 1,2,4-Trichlorobenzene	13.591	180	5391	4.524	ug/l	95
94) Hexachlorobutadiene	13.719	225	2483	4.836	ug/l	98
95) Naphthalene	13.774	128	19618	4.424	ug/l	97
96) 1,2,3-Trichlorobenzene	13.957	180	5854	4.692	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

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

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

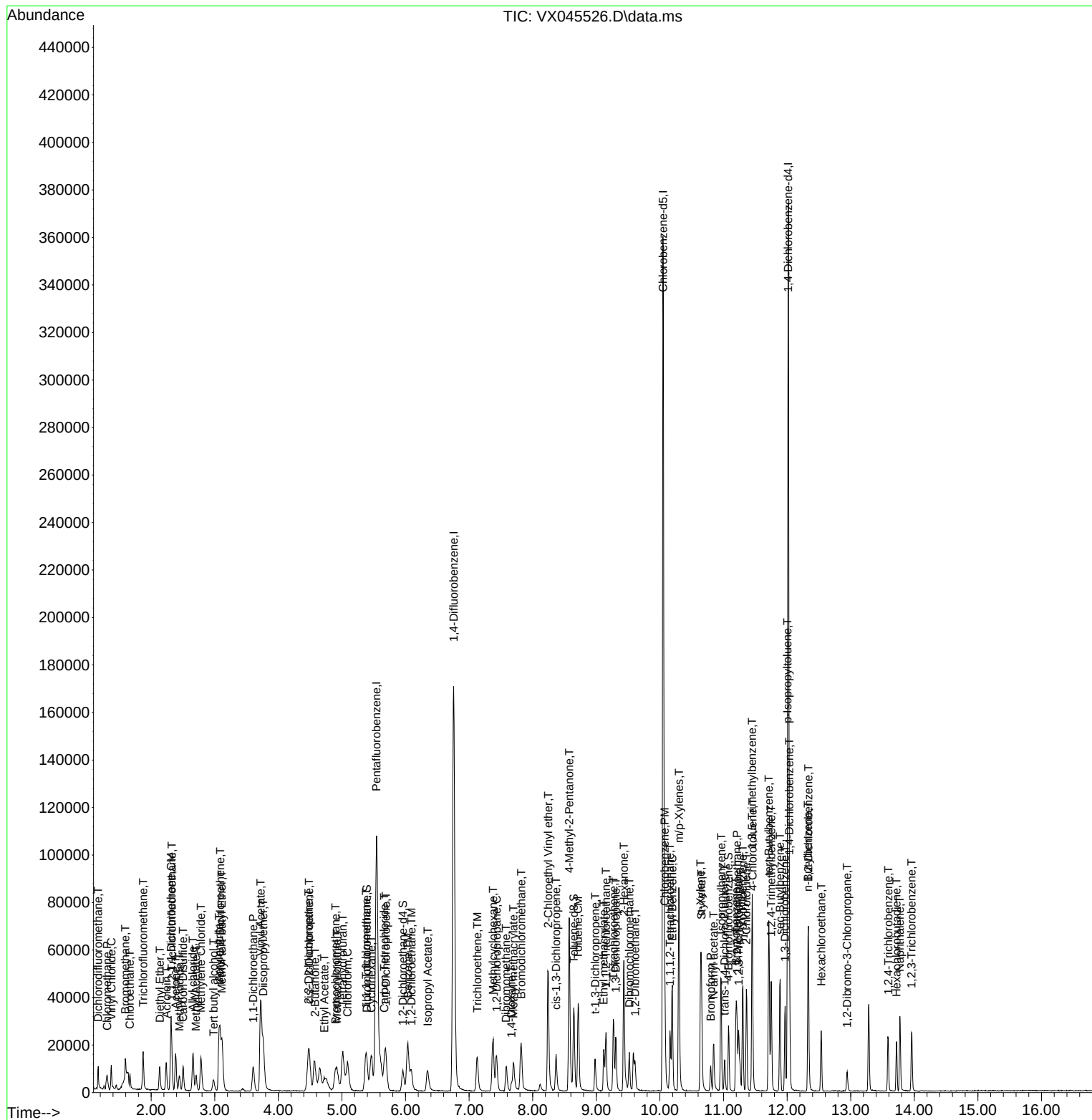
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Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	90228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160754	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65341	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	32500	19.697	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.400%#		
35) Dibromofluoromethane	5.385	113	21963	19.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.520%#		
50) Toluene-d8	8.647	98	79303	19.921	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.840%#		
62) 4-Bromofluorobenzene	11.079	95	28795	19.858	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.720%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25265	18.724	ug/l	97
3) Chloromethane	1.301	50	28034	20.223	ug/l	98
4) Vinyl Chloride	1.374	62	25285	19.931	ug/l	97
5) Bromomethane	1.593	94	11815	19.642	ug/l	99
6) Chloroethane	1.666	64	14071	20.905	ug/l	98
7) Trichlorofluoromethane	1.874	101	38815	20.518	ug/l	98
8) Diethyl Ether	2.136	74	12852	20.235	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22917	20.673	ug/l	95
10) Methyl Iodide	2.441	142	28478	20.596	ug/l	99
11) Tert butyl alcohol	2.983	59	22453	101.253	ug/l	100
12) 1,1-Dichloroethene	2.306	96	22103	20.406	ug/l	96
13) Acrolein	2.239	56	28991	94.938	ug/l	99
14) Allyl chloride	2.660	41	41233	20.063	ug/l	99
15) Acrylonitrile	3.062	53	74487	106.412	ug/l	98
16) Acetone	2.386	43	69788	103.000	ug/l	99
17) Carbon Disulfide	2.502	76	51771	19.352	ug/l	98
18) Methyl Acetate	2.703	43	31190	19.994	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	78284	20.660	ug/l	96
20) Methylene Chloride	2.782	84	26212	20.664	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	22968	20.755	ug/l	92
22) Diisopropyl ether	3.757	45	84046	20.760	ug/l #	81
23) Vinyl Acetate	3.721	43	361881	103.458	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47560	20.772	ug/l	99
25) 2-Butanone	4.556	43	105062	105.931	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28956	19.574	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	27425	20.342	ug/l	98
28) Bromochloromethane	4.897	49	22285	20.141	ug/l	100
29) Tetrahydrofuran	5.007	42	66994	104.187	ug/l	99
30) Chloroform	5.093	83	48639	20.646	ug/l	100
31) Cyclohexane	5.458	56	41450	20.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40407	20.270	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30504	19.808	ug/l	98
37) Ethyl Acetate	4.715	43	39163	20.180	ug/l	98
38) Carbon Tetrachloride	5.672	117	33533	20.148	ug/l	94
39) Methylcyclohexane	7.373	83	38303	20.291	ug/l	97
40) Benzene	6.031	78	97667	20.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	21740	21.046	ug/l	97
42) 1,2-Dichloroethane	6.086	62	41733	21.484	ug/l	100
43) Isopropyl Acetate	6.342	43	61222	20.814	ug/l	99
44) Trichloroethene	7.123	130	22918	20.501	ug/l	97
45) 1,2-Dichloropropane	7.428	63	24926	21.241	ug/l	90
46) Dibromomethane	7.580	93	19104	21.207	ug/l	99
47) Bromodichloromethane	7.818	83	37036	20.587	ug/l	99
48) Methyl methacrylate	7.696	41	31247	20.575	ug/l	99
49) 1,4-Dioxane	7.659	88	12104	440.515	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	212645	109.055	ug/l	99
52) Toluene	8.714	92	60357	21.208	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	29870	18.764	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	35099	20.762	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	24191	21.331	ug/l	96
56) Ethyl methacrylate	9.116	69	36155	20.600	ug/l	99
57) 1,3-Dichloropropane	9.305	76	41900	21.217	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	91923	103.534	ug/l	100
59) 2-Hexanone	9.427	43	156999	108.730	ug/l	99
60) Dibromochloromethane	9.519	129	25992	21.023	ug/l	98
61) 1,2-Dibromoethane	9.604	107	24456	21.303	ug/l	99
64) Tetrachloroethene	9.269	164	21379	21.015	ug/l	98
65) Chlorobenzene	10.079	112	64727	21.023	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21447	20.064	ug/l	98
67) Ethyl Benzene	10.189	91	115368	20.921	ug/l	99
68) m/p-Xylenes	10.299	106	84420	42.092	ug/l	99
69) o-Xylene	10.640	106	41803	21.158	ug/l	100
70) Styrene	10.653	104	69290	21.249	ug/l	99
71) Bromoform	10.799	173	15659	19.619	ug/l #	99
73) Isopropylbenzene	10.957	105	110396	21.093	ug/l	100
74) N-amyl acetate	10.842	43	51238	20.466	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	38177	20.764	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	32690m	20.510	ug/l	
77) Bromobenzene	11.195	156	24902	20.592	ug/l	100
78) n-propylbenzene	11.299	91	130994	21.729	ug/l	98
79) 2-Chlorotoluene	11.360	91	81817	21.229	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	93328	21.564	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8435	17.961	ug/l	88
82) 4-Chlorotoluene	11.451	91	90704	21.108	ug/l	99
83) tert-Butylbenzene	11.713	119	89828	20.964	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	92242	21.235	ug/l	100
85) sec-Butylbenzene	11.890	105	112800	21.433	ug/l	100
86) p-Isopropyltoluene	12.006	119	91866	21.173	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45105	20.490	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	46208	20.706	ug/l	99
89) n-Butylbenzene	12.329	91	77739	20.662	ug/l	100
90) Hexachloroethane	12.536	117	14544	19.505	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	45732	20.896	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8153	21.203	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	24787	20.347	ug/l	98
94) Hexachlorobutadiene	13.725	225	10488	19.979	ug/l	97
95) Naphthalene	13.774	128	94875	20.928	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	26113	20.471	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
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 :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

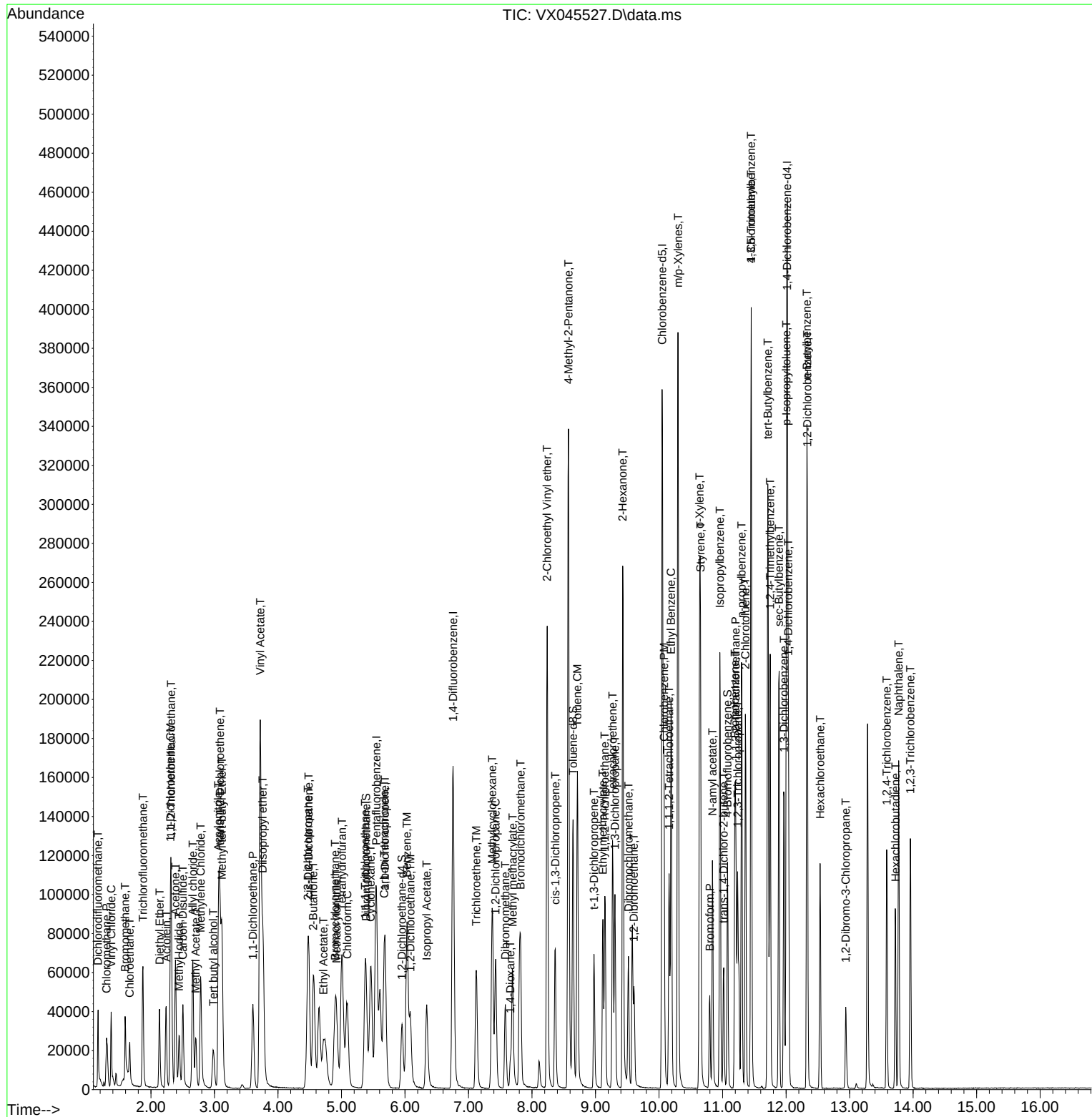
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	95658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83054	47.477	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.960%		
35) Dibromofluoromethane	5.379	113	58108	48.667	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.340%		
50) Toluene-d8	8.647	98	204338	49.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.060%		
62) 4-Bromofluorobenzene	11.079	95	76190	50.190	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.380%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	78444	54.834	ug/l	100
3) Chloromethane	1.307	50	75032	51.054	ug/l	100
4) Vinyl Chloride	1.374	62	68516	50.942	ug/l	100
5) Bromomethane	1.593	94	31584	49.526	ug/l	100
6) Chloroethane	1.666	64	38112	53.409	ug/l	100
7) Trichlorofluoromethane	1.874	101	103888	51.798	ug/l	100
8) Diethyl Ether	2.136	74	33953	50.424	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	59431	50.569	ug/l	100
10) Methyl Iodide	2.447	142	76404	52.121	ug/l	100
11) Tert butyl alcohol	2.977	59	60610	257.809	ug/l	100
12) 1,1-Dichloroethene	2.313	96	57738	50.278	ug/l	100
13) Acrolein	2.239	56	79989	247.074	ug/l	100
14) Allyl chloride	2.660	41	112085	51.441	ug/l	100
15) Acrylonitrile	3.062	53	194445	262.015	ug/l	100
16) Acetone	2.386	43	180563	251.366	ug/l	100
17) Carbon Disulfide	2.508	76	148601	52.393	ug/l	100
18) Methyl Acetate	2.703	43	82000	49.581	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	202582	50.429	ug/l	100
20) Methylene Chloride	2.782	84	67855	50.457	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59696	50.882	ug/l	100
22) Diisopropyl ether	3.764	45	219374	51.111	ug/l	100
23) Vinyl Acetate	3.721	43	998064	269.139	ug/l	100
24) 1,1-Dichloroethane	3.605	63	121348	49.992	ug/l	100
25) 2-Butanone	4.556	43	280076	266.363	ug/l	100
26) 2,2-Dichloropropane	4.471	77	81054	51.683	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71871	50.282	ug/l	100
28) Bromochloromethane	4.897	49	57046	48.632	ug/l	100
29) Tetrahydrofuran	5.001	42	177402	260.230	ug/l	100
30) Chloroform	5.086	83	125797	50.366	ug/l	100
31) Cyclohexane	5.464	56	107407	50.052	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	106062	50.184	ug/l	100
36) 1,1-Dichloropropene	5.684	75	81607	50.620	ug/l	100
37) Ethyl Acetate	4.715	43	104896	51.632	ug/l	100
38) Carbon Tetrachloride	5.672	117	90247	51.797	ug/l	100
39) Methylcyclohexane	7.373	83	104678	52.970	ug/l	100
40) Benzene	6.031	78	249161	50.605	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	59068	54.623	ug/l	100
42) 1,2-Dichloroethane	6.080	62	104601	51.437	ug/l	100
43) Isopropyl Acetate	6.336	43	164588	53.452	ug/l	100
44) Trichloroethene	7.123	130	59042	50.452	ug/l	100
45) 1,2-Dichloropropane	7.427	63	63316	51.540	ug/l	100
46) Dibromomethane	7.574	93	49125	52.092	ug/l	100
47) Bromodichloromethane	7.818	83	96176	51.068	ug/l	100
48) Methyl methacrylate	7.690	41	85483	53.768	ug/l	100
49) 1,4-Dioxane	7.659	88	31199	1084.635	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	558029	273.375	ug/l	100
52) Toluene	8.714	92	153143	51.402	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	85462	47.317	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	95524	53.975	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	60452	50.919	ug/l	100
56) Ethyl methacrylate	9.116	69	100998	54.970	ug/l	100
57) 1,3-Dichloropropane	9.305	76	106580	51.554	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	250428	269.434	ug/l	100
59) 2-Hexanone	9.427	43	413824	273.765	ug/l	100
60) Dibromochloromethane	9.519	129	69258	53.511	ug/l	100
61) 1,2-Dibromoethane	9.604	107	62812	52.264	ug/l	100
64) Tetrachloroethene	9.269	164	52155	49.181	ug/l	100
65) Chlorobenzene	10.073	112	162829	50.733	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55974	50.233	ug/l	100
67) Ethyl Benzene	10.189	91	301481	52.447	ug/l	100
68) m/p-Xylenes	10.299	106	218702	104.606	ug/l	100
69) o-Xylene	10.640	106	108028	52.452	ug/l	100
70) Styrene	10.653	104	182620	53.723	ug/l	100
71) Bromoform	10.799	173	44397	53.361	ug/l #	100
73) Isopropylbenzene	10.957	105	287628	52.203	ug/l	100
74) N-amyl acetate	10.842	43	141589	53.721	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	95200	49.185	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	84279m	50.230	ug/l	
77) Bromobenzene	11.195	156	64527	50.686	ug/l	100
78) n-propylbenzene	11.299	91	336796	53.069	ug/l	100
79) 2-Chlorotoluene	11.360	91	203994	50.279	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	241536	53.013	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25488	51.556	ug/l	100
82) 4-Chlorotoluene	11.451	91	237213	52.439	ug/l	100
83) tert-Butylbenzene	11.713	119	235715	52.256	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	242301	52.986	ug/l	100
85) sec-Butylbenzene	11.890	105	295799	53.391	ug/l	100
86) p-Isopropyltoluene	12.006	119	242416	53.073	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	116890	50.441	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	117164	49.871	ug/l	100
89) n-Butylbenzene	12.329	91	217345	54.874	ug/l	100
90) Hexachloroethane	12.536	117	41095	52.352	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	115426	50.099	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21712	53.638	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65145	50.797	ug/l	100
94) Hexachlorobutadiene	13.719	225	27795	50.296	ug/l	100
95) Naphthalene	13.774	128	256009	53.643	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68781	51.219	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
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 :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 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 :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	86107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	155757	98.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 197.820%#			
35) Dibromofluoromethane	5.379	113	107908	99.585	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.160%#			
50) Toluene-d8	8.647	98	375599	99.309	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 198.620%#			
62) 4-Bromofluorobenzene	11.079	95	146944	106.664	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.320%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	144108	111.909	ug/l	99
3) Chloromethane	1.307	50	140360	106.098	ug/l	100
4) Vinyl Chloride	1.374	62	127174	105.042	ug/l	99
5) Bromomethane	1.593	94	58706	102.266	ug/l	98
6) Chloroethane	1.660	64	61099	95.120	ug/l	98
7) Trichlorofluoromethane	1.867	101	187555	103.887	ug/l	98
8) Diethyl Ether	2.136	74	61683	101.767	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	106989	101.133	ug/l	97
10) Methyl Iodide	2.441	142	135732	102.863	ug/l	100
11) Tert butyl alcohol	2.989	59	110044	519.999	ug/l	99
12) 1,1-Dichloroethene	2.306	96	106404	102.934	ug/l	99
13) Acrolein	2.233	56	146268	501.914	ug/l	99
14) Allyl chloride	2.654	41	206484	105.276	ug/l	99
15) Acrylonitrile	3.062	53	338970	507.426	ug/l	99
16) Acetone	2.386	43	314285	486.054	ug/l	100
17) Carbon Disulfide	2.502	76	276285	108.215	ug/l	100
18) Methyl Acetate	2.703	43	147272	98.925	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	381719	105.561	ug/l	99
20) Methylene Chloride	2.782	84	121435	100.316	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	106896	101.220	ug/l	98
22) Diisopropyl ether	3.757	45	406185	105.132	ug/l	95
23) Vinyl Acetate	3.721	43	1848817	553.853	ug/l	99
24) 1,1-Dichloroethane	3.605	63	220934	101.114	ug/l	100
25) 2-Butanone	4.556	43	491249	519.018	ug/l	100
26) 2,2-Dichloropropane	4.465	77	155592	110.215	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	129785	100.871	ug/l	98
28) Bromochloromethane	4.891	49	105093	99.530	ug/l	100
29) Tetrahydrofuran	5.001	42	313121	510.264	ug/l	99
30) Chloroform	5.086	83	225402	100.255	ug/l	99
31) Cyclohexane	5.458	56	197136	102.056	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	198511	104.346	ug/l	99
36) 1,1-Dichloropropene	5.684	75	151448	103.515	ug/l	99
37) Ethyl Acetate	4.715	43	192130	104.207	ug/l	99
38) Carbon Tetrachloride	5.672	117	166465	105.278	ug/l	99
39) Methylcyclohexane	7.373	83	191752	106.921	ug/l	99
40) Benzene	6.031	78	452946	101.369	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	107037	109.068	ug/l	99
42) 1,2-Dichloroethane	6.080	62	189528	102.696	ug/l	100
43) Isopropyl Acetate	6.336	43	305974	109.494	ug/l	100
44) Trichloroethene	7.123	130	107332	101.062	ug/l	97
45) 1,2-Dichloropropane	7.421	63	115731	103.806	ug/l	98
46) Dibromomethane	7.574	93	87381	102.101	ug/l	97
47) Bromodichloromethane	7.818	83	179265	104.886	ug/l	98
48) Methyl methacrylate	7.690	41	158241	109.675	ug/l	99
49) 1,4-Dioxane	7.665	88	52624	2015.906	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	988881	533.814	ug/l	99
52) Toluene	8.714	92	276323	102.199	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	169413	100.645	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	182328	113.521	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	109208	101.361	ug/l	98
56) Ethyl methacrylate	9.116	69	192034	115.168	ug/l	99
57) 1,3-Dichloropropane	9.305	76	192473	102.588	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	460297	545.696	ug/l	100
59) 2-Hexanone	9.427	43	738772	538.538	ug/l	99
60) Dibromochloromethane	9.519	129	128700	109.570	ug/l	98
61) 1,2-Dibromoethane	9.604	107	115919	106.282	ug/l	99
64) Tetrachloroethene	9.269	164	90817	94.325	ug/l	99
65) Chlorobenzene	10.073	112	296300	101.682	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	103437	102.243	ug/l	99
67) Ethyl Benzene	10.189	91	543568	104.152	ug/l	99
68) m/p-Xylenes	10.299	106	394241	207.694	ug/l	100
69) o-Xylene	10.640	106	195381	104.487	ug/l	99
70) Styrene	10.653	104	335333	108.654	ug/l	100
71) Bromoform	10.799	173	83632	110.714	ug/l #	97
73) Isopropylbenzene	10.957	105	522436	100.944	ug/l	100
74) N-amyl acetate	10.842	43	275462	111.267	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	174977	96.243	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	154048m	97.744	ug/l	
77) Bromobenzene	11.195	156	119561	99.983	ug/l	99
78) n-propylbenzene	11.299	91	622679	104.454	ug/l	100
79) 2-Chlorotoluene	11.360	91	376682	98.840	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	435137	101.675	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	51873	111.704	ug/l	95
82) 4-Chlorotoluene	11.451	91	432884	101.877	ug/l	99
83) tert-Butylbenzene	11.713	119	437649	103.292	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	444211	103.414	ug/l	99
85) sec-Butylbenzene	11.890	105	546857	105.082	ug/l	100
86) p-Isopropyltoluene	12.006	119	453109	105.609	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	221481	101.749	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	216367	98.047	ug/l	98
89) n-Butylbenzene	12.329	91	420694	113.075	ug/l	99
90) Hexachloroethane	12.536	117	80489	109.160	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	215157	99.419	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43047	113.214	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	135046	112.106	ug/l	99
94) Hexachlorobutadiene	13.725	225	53636	103.326	ug/l	98
95) Naphthalene	13.774	128	499719	111.473	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	137328	108.869	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
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 :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

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

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

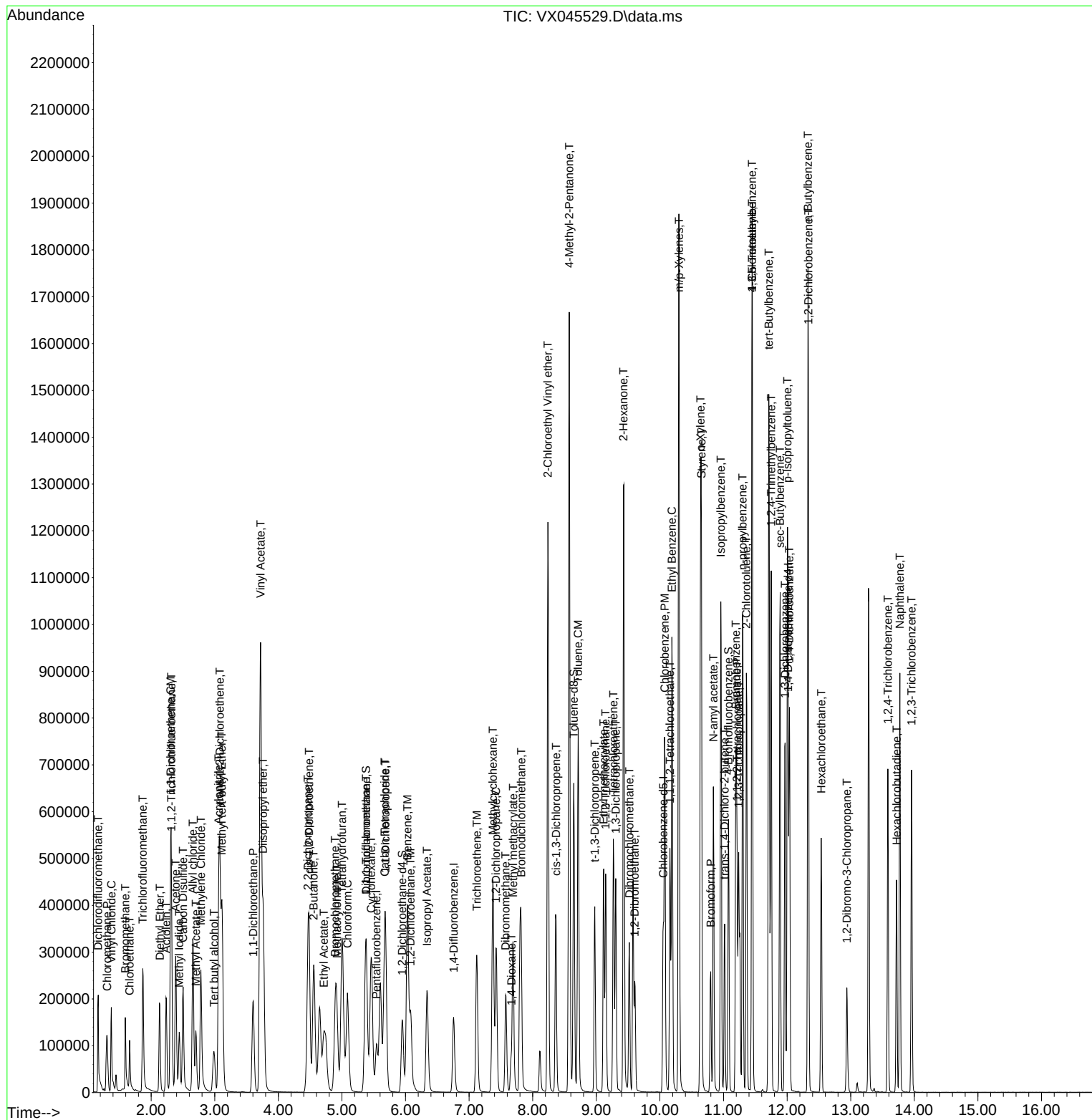
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	90033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160037	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	133342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61380	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	252998	153.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 307.320%#			
35) Dibromofluoromethane	5.379	113	173598	152.887	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 305.780%#			
50) Toluene-d8	8.647	98	603264	152.216	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 304.440%#			
62) 4-Bromofluorobenzene	11.079	95	220921	153.035	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 306.060%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	221436	164.460	ug/l	100
3) Chloromethane	1.307	50	198321	143.373	ug/l	98
4) Vinyl Chloride	1.374	62	197096	155.697	ug/l	100
5) Bromomethane	1.593	94	88225	146.986	ug/l	97
6) Chloroethane	1.660	64	86251	128.421	ug/l	97
7) Trichlorofluoromethane	1.868	101	267098	141.495	ug/l	100
8) Diethyl Ether	2.136	74	96467	152.215	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	171118	154.698	ug/l	97
10) Methyl Iodide	2.441	142	202594	146.838	ug/l	99
11) Tert butyl alcohol	2.989	59	167769	758.202	ug/l	100
12) 1,1-Dichloroethene	2.307	96	166365	153.921	ug/l	97
13) Acrolein	2.239	56	232818	764.070	ug/l	100
14) Allyl chloride	2.654	41	313268	152.755	ug/l	99
15) Acrylonitrile	3.069	53	507965	727.247	ug/l	100
16) Acetone	2.386	43	479564	709.323	ug/l	99
17) Carbon Disulfide	2.502	76	443495	166.133	ug/l	99
18) Methyl Acetate	2.703	43	228558	146.832	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	598532	158.301	ug/l	99
20) Methylene Chloride	2.782	84	186382	147.254	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	170283	154.210	ug/l	98
22) Diisopropyl ether	3.764	45	636728	157.617	ug/l	94
23) Vinyl Acetate	3.721	43	2911326	834.120	ug/l	100
24) 1,1-Dichloroethane	3.605	63	349040	152.778	ug/l	99
25) 2-Butanone	4.556	43	740096	747.834	ug/l	99
26) 2,2-Dichloropropane	4.465	77	252063	170.765	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	205254	152.571	ug/l	98
28) Bromochloromethane	4.891	49	155600	140.938	ug/l	97
29) Tetrahydrofuran	5.001	42	475589	741.226	ug/l	100
30) Chloroform	5.087	83	353681	150.451	ug/l	98
31) Cyclohexane	5.458	56	310219	153.595	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	315136	158.426	ug/l	98
36) 1,1-Dichloropropene	5.684	75	239776	156.399	ug/l	98
37) Ethyl Acetate	4.715	43	294559	152.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	266770	161.005	ug/l	99
39) Methylcyclohexane	7.373	83	303251	161.366	ug/l	96
40) Benzene	6.031	78	703311	150.208	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 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 :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	164699	160.155	ug/l	98
42) 1,2-Dichloroethane	6.080	62	296168	153.146	ug/l	100
43) Isopropyl Acetate	6.336	43	475823	162.494	ug/l	99
44) Trichloroethene	7.117	130	170940	153.599	ug/l	95
45) 1,2-Dichloropropane	7.428	63	179457	153.610	ug/l	98
46) Dibromomethane	7.574	93	135415	150.996	ug/l	98
47) Bromodichloromethane	7.818	83	279881	156.272	ug/l	98
48) Methyl methacrylate	7.690	41	240818	159.281	ug/l	99
49) 1,4-Dioxane	7.659	88	74929	2739.196	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1414771	728.817	ug/l	99
52) Toluene	8.714	92	420015	148.245	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	267671	150.589	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	287973	171.104	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	163426	144.752	ug/l	98
56) Ethyl methacrylate	9.116	69	285895	163.624	ug/l	98
57) 1,3-Dichloropropane	9.305	76	288430	146.708	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	703881	796.340	ug/l	99
59) 2-Hexanone	9.433	43	1053971	733.198	ug/l	100
60) Dibromochloromethane	9.519	129	194342	157.895	ug/l	98
61) 1,2-Dibromoethane	9.610	107	174571	152.745	ug/l	99
64) Tetrachloroethene	9.269	164	138926	147.568	ug/l	98
65) Chlorobenzene	10.080	112	444631	156.049	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	156069	157.769	ug/l	99
67) Ethyl Benzene	10.189	91	821130	160.907	ug/l	99
68) m/p-Xylenes	10.299	106	583228	314.231	ug/l	99
69) o-Xylene	10.640	106	285670	156.241	ug/l	100
70) Styrene	10.653	104	480722	159.299	ug/l	99
71) Bromoform	10.799	173	126115	170.743	ug/l #	98
73) Isopropylbenzene	10.957	105	764406	155.475	ug/l	100
74) N-amyl acetate	10.842	43	408934	173.877	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	249980	144.737	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	215694m	144.064	ug/l	
77) Bromobenzene	11.195	156	171573	151.033	ug/l	99
78) n-propylbenzene	11.305	91	897084	158.408	ug/l	100
79) 2-Chlorotoluene	11.360	91	537263	148.399	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	620819	152.700	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	78805	178.636	ug/l	93
82) 4-Chlorotoluene	11.451	91	615594	152.505	ug/l	99
83) tert-Butylbenzene	11.713	119	627039	155.783	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	629704	154.317	ug/l	100
85) sec-Butylbenzene	11.890	105	790355	159.869	ug/l	100
86) p-Isopropyltoluene	12.006	119	641521	157.397	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	314077	151.885	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	314197	149.876	ug/l	99
89) n-Butylbenzene	12.329	91	604445	171.019	ug/l	100
90) Hexachloroethane	12.536	117	121761	173.829	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	307031	149.342	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64317	178.062	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	199365	174.213	ug/l	99
94) Hexachlorobutadiene	13.725	225	77792	157.752	ug/l	99
95) Naphthalene	13.774	128	733300	172.191	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	201989	168.562	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
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 :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

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

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

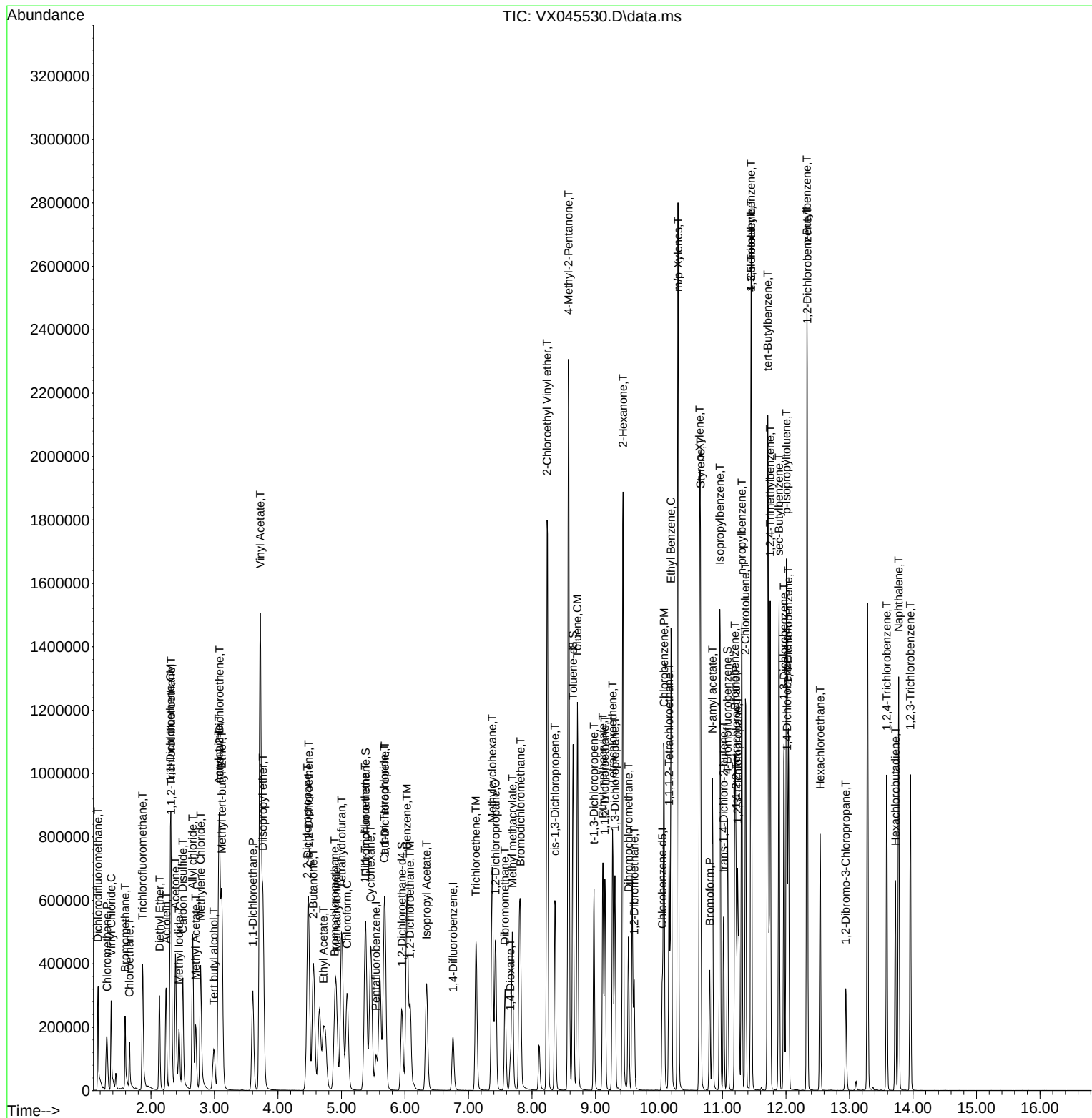
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	96972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	174855	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89251	50.329	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.660%			
35) Dibromofluoromethane	5.379	113	61107	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.647	98	217200	50.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.320%			
62) 4-Bromofluorobenzene	11.079	95	80376	50.959	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.920%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	76070	52.454	ug/l	97
3) Chloromethane	1.301	50	72033	48.349	ug/l	99
4) Vinyl Chloride	1.374	62	66559	48.816	ug/l	99
5) Bromomethane	1.593	94	30379	46.991	ug/l	99
6) Chloroethane	1.672	64	37317	51.586	ug/l	100
7) Trichlorofluoromethane	1.880	101	102379	50.354	ug/l	96
8) Diethyl Ether	2.130	74	33603	49.228	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	59007	49.528	ug/l	98
10) Methyl Iodide	2.447	142	72261	48.626	ug/l	99
11) Tert butyl alcohol	2.971	59	58774	246.612	ug/l	99
12) 1,1-Dichloroethene	2.313	96	57888	49.726	ug/l	99
13) Acrolein	2.233	56	78156	238.141	ug/l	99
14) Allyl chloride	2.660	41	111636	50.541	ug/l	99
15) Acrylonitrile	3.062	53	186837	248.351	ug/l	100
16) Acetone	2.380	43	176153	241.904	ug/l	99
17) Carbon Disulfide	2.508	76	149677	52.057	ug/l	100
18) Methyl Acetate	2.703	43	81720	48.742	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	207487	50.950	ug/l	100
20) Methylene Chloride	2.782	84	66875	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	59229	49.800	ug/l	98
22) Diisopropyl ether	3.757	45	221449	50.895	ug/l	92
23) Vinyl Acetate	3.715	43	1005423	267.449	ug/l	99
24) 1,1-Dichloroethane	3.605	63	122240	49.677	ug/l	99
25) 2-Butanone	4.550	43	271686	254.882	ug/l	97
26) 2,2-Dichloropropane	4.471	77	82704	52.020	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71072	49.049	ug/l	98
28) Bromochloromethane	4.891	49	57557	48.403	ug/l	99
29) Tetrahydrofuran	5.001	42	172405	249.473	ug/l	100
30) Chloroform	5.086	83	125621	49.614	ug/l	98
31) Cyclohexane	5.458	56	107862	49.583	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	107830	50.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	83901	50.088	ug/l	99
37) Ethyl Acetate	4.708	43	105095	49.787	ug/l	98
38) Carbon Tetrachloride	5.672	117	91723	50.667	ug/l	100
39) Methylcyclohexane	7.373	83	102919	50.124	ug/l	99
40) Benzene	6.031	78	251758	49.212	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	59140	53.098	ug/l	99
42) 1,2-Dichloroethane	6.080	62	103270	48.875	ug/l	100
43) Isopropyl Acetate	6.336	43	164894	51.539	ug/l	100
44) Trichloroethene	7.123	130	57931	47.643	ug/l	92
45) 1,2-Dichloropropane	7.421	63	63210	49.521	ug/l	95
46) Dibromomethane	7.574	93	47564	48.542	ug/l	97
47) Bromodichloromethane	7.818	83	96418	49.273	ug/l	96
48) Methyl methacrylate	7.690	41	85084	51.507	ug/l	99
49) 1,4-Dioxane	7.659	88	28552	955.327	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	540822	254.994	ug/l	100
52) Toluene	8.714	92	151664	48.994	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	87744	46.783	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	99074	53.878	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	60452	49.007	ug/l	97
56) Ethyl methacrylate	9.116	69	102525	53.705	ug/l	100
57) 1,3-Dichloropropane	9.305	76	107121	49.869	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	251285	260.201	ug/l	99
59) 2-Hexanone	9.427	43	395336	251.710	ug/l	100
60) Dibromochloromethane	9.519	129	68562	50.983	ug/l	99
61) 1,2-Dibromoethane	9.604	107	63301	50.693	ug/l	100
64) Tetrachloroethene	9.269	164	50834	47.239	ug/l	99
65) Chlorobenzene	10.073	112	163518	50.207	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	57096	50.495	ug/l	99
67) Ethyl Benzene	10.189	91	300747	51.558	ug/l	100
68) m/p-Xylenes	10.299	106	217943	102.728	ug/l	99
69) o-Xylene	10.640	106	107947	51.650	ug/l	100
70) Styrene	10.653	104	181524	52.624	ug/l	100
71) Bromoform	10.799	173	44489	52.694	ug/l #	98
73) Isopropylbenzene	10.957	105	286010	52.794	ug/l	100
74) N-amyl acetate	10.842	43	140941	54.387	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	92505	48.608	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	82060m	49.741	ug/l	
77) Bromobenzene	11.195	156	63244	50.525	ug/l	98
78) n-propylbenzene	11.299	91	336753	53.967	ug/l	100
79) 2-Chlorotoluene	11.360	91	203677	51.057	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	239822	53.534	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25511	52.482	ug/l	98
82) 4-Chlorotoluene	11.451	91	233159	52.422	ug/l	100
83) tert-Butylbenzene	11.713	119	236276	53.274	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	238257	52.990	ug/l	100
85) sec-Butylbenzene	11.890	105	293633	53.903	ug/l	100
86) p-Isopropyltoluene	12.006	119	244031	54.337	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	115113	50.521	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	113458	49.117	ug/l	97
89) n-Butylbenzene	12.329	91	214931	55.189	ug/l	99
90) Hexachloroethane	12.536	117	41729	54.066	ug/l	98
91) 1,2-Dichlorobenzene	12.329	146	113126	49.938	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21184	53.226	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65488	51.935	ug/l	98
94) Hexachlorobutadiene	13.725	225	27147	49.961	ug/l	99
95) Naphthalene	13.774	128	247600	52.765	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	66542	50.396	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

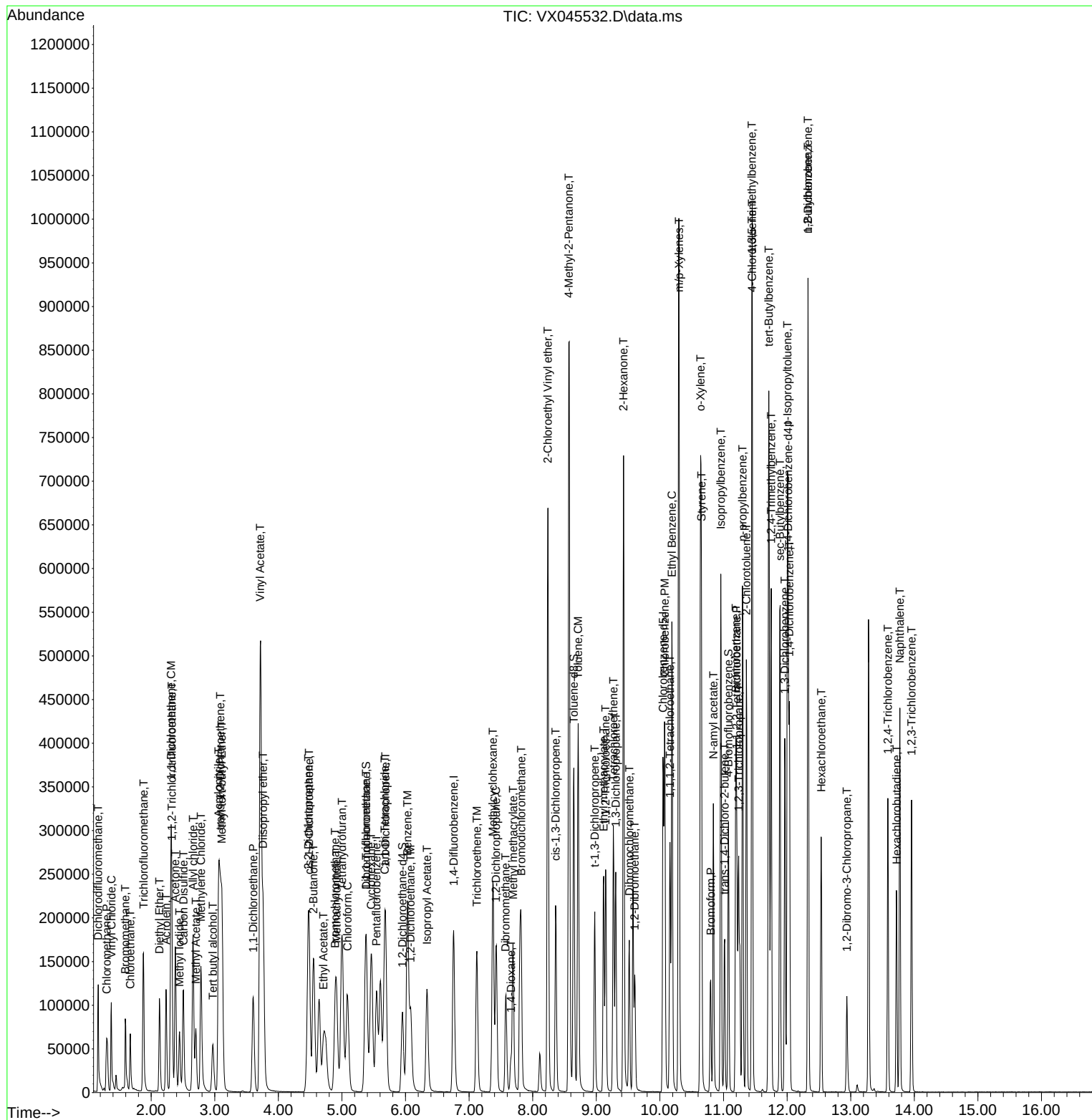
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	101	0.00
2 T	Dichlorodifluoromethane	0.748	0.784	-4.8	97	0.00
3 P	Chloromethane	0.768	0.743	3.3	96	0.00
4 C	Vinyl Chloride	0.703	0.686	2.4#	97	0.00
5 T	Bromomethane	0.333	0.313	6.0	96	0.00
6 T	Chloroethane	0.373	0.385	-3.2	98	0.00
7 T	Trichlorofluoromethane	1.048	1.056	-0.8	99	0.00
8 T	Diethyl Ether	0.352	0.347	1.4	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.608	1.0	99	0.00
10 T	Methyl Iodide	0.766	0.745	2.7	95	0.00
11 T	Tert butyl alcohol	0.123	0.121	1.6	97	0.00
12 CM	1,1-Dichloroethene	0.600	0.597	0.5#	100	0.00
13 T	Acrolein	0.169	0.161	4.7	98	0.00
14 T	Allyl chloride	1.139	1.151	-1.1	100	0.00
15 T	Acrylonitrile	0.388	0.385	0.8	96	0.00
16 T	Acetone	0.375	0.363	3.2	98	0.00
17 T	Carbon Disulfide	1.483	1.544	-4.1	101	0.00
18 T	Methyl Acetate	0.864	0.843	2.4	100	0.00
19 T	Methyl tert-butyl Ether	2.100	2.140	-1.9	102	0.00
20 T	Methylene Chloride	0.703	0.690	1.8	99	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.611	0.3	99	0.00
22 T	Diisopropyl ether	2.243	2.284	-1.8	101	0.00
23 T	Vinyl Acetate	1.938	2.074	-7.0	101	0.00
24 P	1,1-Dichloroethane	1.269	1.261	0.6	101	0.00
25 T	2-Butanone	0.550	0.560	-1.8	97	0.00
26 T	2,2-Dichloropropane	0.820	0.853	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.733	1.9	99	0.00
28 T	Bromochloromethane	0.613	0.594	3.1	101	0.00
29 T	Tetrahydrofuran	0.356	0.356	0.0	97	0.00
30 C	Chloroform	1.306	1.295	0.8#	100	0.00
31 T	Cyclohexane	1.122	1.112	0.9	100	0.00
32 T	1,1,1-Trichloroethane	1.105	1.112	-0.6	102	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.920	-0.7	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.355	0.349	1.7	105	0.00
36 T	1,1-Dichloropropene	0.479	0.480	-0.2	103	0.00
37 T	Ethyl Acetate	0.604	0.601	0.5	100	0.00
38 T	Carbon Tetrachloride	0.518	0.525	-1.4	102	0.00
39 T	Methylcyclohexane	0.587	0.589	-0.3	98	0.00
40 TM	Benzene	1.463	1.440	1.6	101	0.00
41 T	Methacrylonitrile	0.318	0.338	-6.3	100	0.00
42 TM	1,2-Dichloroethane	0.604	0.591	2.2	99	0.00
43 T	Isopropyl Acetate	0.915	0.943	-3.1	100	0.00
44 TM	Trichloroethene	0.348	0.331	4.9	98	0.00
45 C	1,2-Dichloropropane	0.365	0.361	1.1#	100	0.00
46 T	Dibromomethane	0.280	0.272	2.9	97	0.00
47 T	Bromodichloromethane	0.560	0.551	1.6	100	0.00
48 T	Methyl methacrylate	0.472	0.487	-3.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	0.008	11.1	92	0.00
50 S	Toluene-d8	1.238	1.242	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.619	-2.1	97	0.00
52 CM	Toluene	0.885	0.867	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	0.467	0.502	-7.5	103	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.567	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	0.353	0.346	2.0	100	0.00
56 T	Ethyl methacrylate	0.546	0.586	-7.3	102	0.00
57 T	1,3-Dichloropropane	0.614	0.613	0.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.287	-4.0	100	0.00
59 T	2-Hexanone	0.449	0.452	-0.7	96	0.00
60 T	Dibromochloromethane	0.385	0.392	-1.8	99	0.00
61 T	1,2-Dibromoethane	0.357	0.362	-1.4	101	0.00
62 S	4-Bromofluorobenzene	0.451	0.460	-2.0	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.353	0.334	5.4	97	0.00
65 PM	Chlorobenzene	1.068	1.073	-0.5	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.375	-1.1	102	0.00
67 C	Ethyl Benzene	1.914	1.973	-3.1#	100	0.00
68 T	m/p-Xylenes	0.696	0.715	-2.7	100	0.00
69 T	o-Xylene	0.686	0.708	-3.2	100	0.00
70 T	Styrene	1.132	1.191	-5.2	99	0.00
71 P	Bromoform	0.277	0.292	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	4.005	4.229	-5.6	99	0.00
74 T	N-amyl acetate	1.916	2.084	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.368	2.8	97	0.00
76 T	1,2,3-Trichloropropane	1.220	1.213	0.6	97	0.00
77 T	Bromobenzene	0.925	0.935	-1.1	98	0.00
78 T	n-propylbenzene	4.613	4.979	-7.9	100	0.00
79 T	2-Chlorotoluene	2.949	3.012	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.546	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.377	-5.0	100	0.00
82 T	4-Chlorotoluene	3.288	3.447	-4.8	98	0.00
83 T	tert-Butylbenzene	3.279	3.494	-6.6	100	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.523	-6.0	98	0.00
85 T	sec-Butylbenzene	4.027	4.342	-7.8	99	0.00
86 T	p-Isopropyltoluene	3.320	3.608	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	1.684	1.702	-1.1	98	0.00
88 T	1,4-Dichlorobenzene	1.708	1.678	1.8	97	0.00
89 T	n-Butylbenzene	2.879	3.178	-10.4	99	0.00
90 T	Hexachloroethane	0.571	0.617	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	1.675	1.673	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.313	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.968	-3.9	101	0.00
94 T	Hexachlorobutadiene	0.402	0.401	0.2	98	0.00
95 T	Naphthalene	3.469	3.661	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	0.976	0.984	-0.8	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	101	0.00
2 T	Dichlorodifluoromethane	50.000	52.454	-4.9	97	0.00
3 P	Chloromethane	50.000	48.349	3.3	96	0.00
4 C	Vinyl Chloride	50.000	48.816	2.4#	97	0.00
5 T	Bromomethane	50.000	46.991	6.0	96	0.00
6 T	Chloroethane	50.000	51.586	-3.2	98	0.00
7 T	Trichlorofluoromethane	50.000	50.354	-0.7	99	0.00
8 T	Diethyl Ether	50.000	49.228	1.5	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.528	0.9	99	0.00
10 T	Methyl Iodide	50.000	48.626	2.7	95	0.00
11 T	Tert butyl alcohol	250.000	246.612	1.4	97	0.00
12 CM	1,1-Dichloroethene	50.000	49.726	0.5#	100	0.00
13 T	Acrolein	250.000	238.141	4.7	98	0.00
14 T	Allyl chloride	50.000	50.541	-1.1	100	0.00
15 T	Acrylonitrile	250.000	248.351	0.7	96	0.00
16 T	Acetone	250.000	241.904	3.2	98	0.00
17 T	Carbon Disulfide	50.000	52.057	-4.1	101	0.00
18 T	Methyl Acetate	50.000	48.742	2.5	100	0.00
19 T	Methyl tert-butyl Ether	50.000	50.950	-1.9	102	0.00
20 T	Methylene Chloride	50.000	49.055	1.9	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.800	0.4	99	0.00
22 T	Diisopropyl ether	50.000	50.895	-1.8	101	0.00
23 T	Vinyl Acetate	250.000	267.449	-7.0	101	0.00
24 P	1,1-Dichloroethane	50.000	49.677	0.6	101	0.00
25 T	2-Butanone	250.000	254.882	-2.0	97	0.00
26 T	2,2-Dichloropropane	50.000	52.020	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.049	1.9	99	0.00
28 T	Bromochloromethane	50.000	48.403	3.2	101	0.00
29 T	Tetrahydrofuran	250.000	249.473	0.2	97	0.00
30 C	Chloroform	50.000	49.614	0.8#	100	0.00
31 T	Cyclohexane	50.000	49.583	0.8	100	0.00
32 T	1,1,1-Trichloroethane	50.000	50.330	-0.7	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.329	-0.7	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	49.256	1.5	105	0.00
36 T	1,1-Dichloropropene	50.000	50.088	-0.2	103	0.00
37 T	Ethyl Acetate	50.000	49.787	0.4	100	0.00
38 T	Carbon Tetrachloride	50.000	50.667	-1.3	102	0.00
39 T	Methylcyclohexane	50.000	50.124	-0.2	98	0.00
40 TM	Benzene	50.000	49.212	1.6	101	0.00
41 T	Methacrylonitrile	50.000	53.098	-6.2	100	0.00
42 TM	1,2-Dichloroethane	50.000	48.875	2.3	99	0.00
43 T	Isopropyl Acetate	50.000	51.539	-3.1	100	0.00
44 TM	Trichloroethene	50.000	47.643	4.7	98	0.00
45 C	1,2-Dichloropropane	50.000	49.521	1.0#	100	0.00
46 T	Dibromomethane	50.000	48.542	2.9	97	0.00
47 T	Bromodichloromethane	50.000	49.273	1.5	100	0.00
48 T	Methyl methacrylate	50.000	51.507	-3.0	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	955.327	4.5	92	0.00
50 S	Toluene-d8	50.000	50.160	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.994	-2.0	97	0.00
52 CM	Toluene	50.000	48.994	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	46.783	6.4	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.878	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.007	2.0	100	0.00
56 T	Ethyl methacrylate	50.000	53.705	-7.4	102	0.00
57 T	1,3-Dichloropropane	50.000	49.869	0.3	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.201	-4.1	100	0.00
59 T	2-Hexanone	250.000	251.710	-0.7	96	0.00
60 T	Dibromochloromethane	50.000	50.983	-2.0	99	0.00
61 T	1,2-Dibromoethane	50.000	50.693	-1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	50.959	-1.9	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	47.239	5.5	97	0.00
65 PM	Chlorobenzene	50.000	50.207	-0.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.495	-1.0	102	0.00
67 C	Ethyl Benzene	50.000	51.558	-3.1#	100	0.00
68 T	m/p-Xylenes	100.000	102.728	-2.7	100	0.00
69 T	o-Xylene	50.000	51.650	-3.3	100	0.00
70 T	Styrene	50.000	52.624	-5.2	99	0.00
71 P	Bromoform	50.000	52.694	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	52.794	-5.6	99	0.00
74 T	N-ethyl acetate	50.000	54.387	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.608	2.8	97	0.00
76 T	1,2,3-Trichloropropane	50.000	49.741	0.5	97	0.00
77 T	Bromobenzene	50.000	50.525	-1.0	98	0.00
78 T	n-propylbenzene	50.000	53.967	-7.9	100	0.00
79 T	2-Chlorotoluene	50.000	51.057	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.534	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.482	-5.0	100	0.00
82 T	4-Chlorotoluene	50.000	52.422	-4.8	98	0.00
83 T	tert-Butylbenzene	50.000	53.274	-6.5	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.990	-6.0	98	0.00
85 T	sec-Butylbenzene	50.000	53.903	-7.8	99	0.00
86 T	p-Isopropyltoluene	50.000	54.337	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	50.000	50.521	-1.0	98	0.00
88 T	1,4-Dichlorobenzene	50.000	49.117	1.8	97	0.00
89 T	n-Butylbenzene	50.000	55.189	-10.4	99	0.00
90 T	Hexachloroethane	50.000	54.066	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	50.000	49.938	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.226	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.935	-3.9	101	0.00
94 T	Hexachlorobutadiene	50.000	49.961	0.1	98	0.00
95 T	Naphthalene	50.000	52.765	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	50.396	-0.8	97	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: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
 Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY021953.D		RRF010 = VY021954.D		RRF020 = VY021955.D		RRF050 = VY021956.D		RRF100 = VY021957.D		RRF150 = VY021958.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.7				
Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.2				
Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.1				
Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.3				
Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.6				
Trichlorofluoromethane	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.9				
1,1,2-Trichlorotrifluoroethane	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.8				
1,1-Dichloroethene	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5				
Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.7				
Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.7				
Methyl tert-butyl Ether	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.6				
Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.2				
Methylene Chloride	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.7				
trans-1,2-Dichloroethene	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.3				
1,1-Dichloroethane	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.9				
Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.6				
2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.5				
Carbon Tetrachloride	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.9				
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1				
Bromochloromethane	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.2				
Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.2				
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8				
Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	6				
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1				
1,2-Dichloroethane	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.3				
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3				
1,2-Dichloropropane	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.4				
Bromodichloromethane	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.1				
4-Methyl-2-Pentanone	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.9				
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	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.



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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
 Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY021953.D	RRF010 = VY021954.D	RRF020 = VY021955.D	RRF050 = VY021956.D	RRF100 = VY021957.D	RRF150 = VY021958.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.7
cis-1,3-Dichloropropene	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.3
1,1,2-Trichloroethane	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.8
2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.5
Dibromochloromethane	0.345	0.355	0.354	0.352	0.367	0.357	0.355	2
1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.3
Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.6
Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.5
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.2
Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.5
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2
1,1,2,2-Tetrachloroethane	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.4
1,3-Dichlorobenzene	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.5
1,4-Dichlorobenzene	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.7
1,2-Dichlorobenzene	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.8
1,2-Dibromo-3-Chloropropane	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.9
1,2,4-Trichlorobenzene	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.1
1,2,3-Trichlorobenzene	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y042225S.M
 Title : SW846 8260
 Last Update : Wed Apr 23 02:30:30 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY021953.D 10 =VY021954.D 20 =VY021955.D 50 =VY021956.D 100 =VY021957.D 150 =VY021958.D

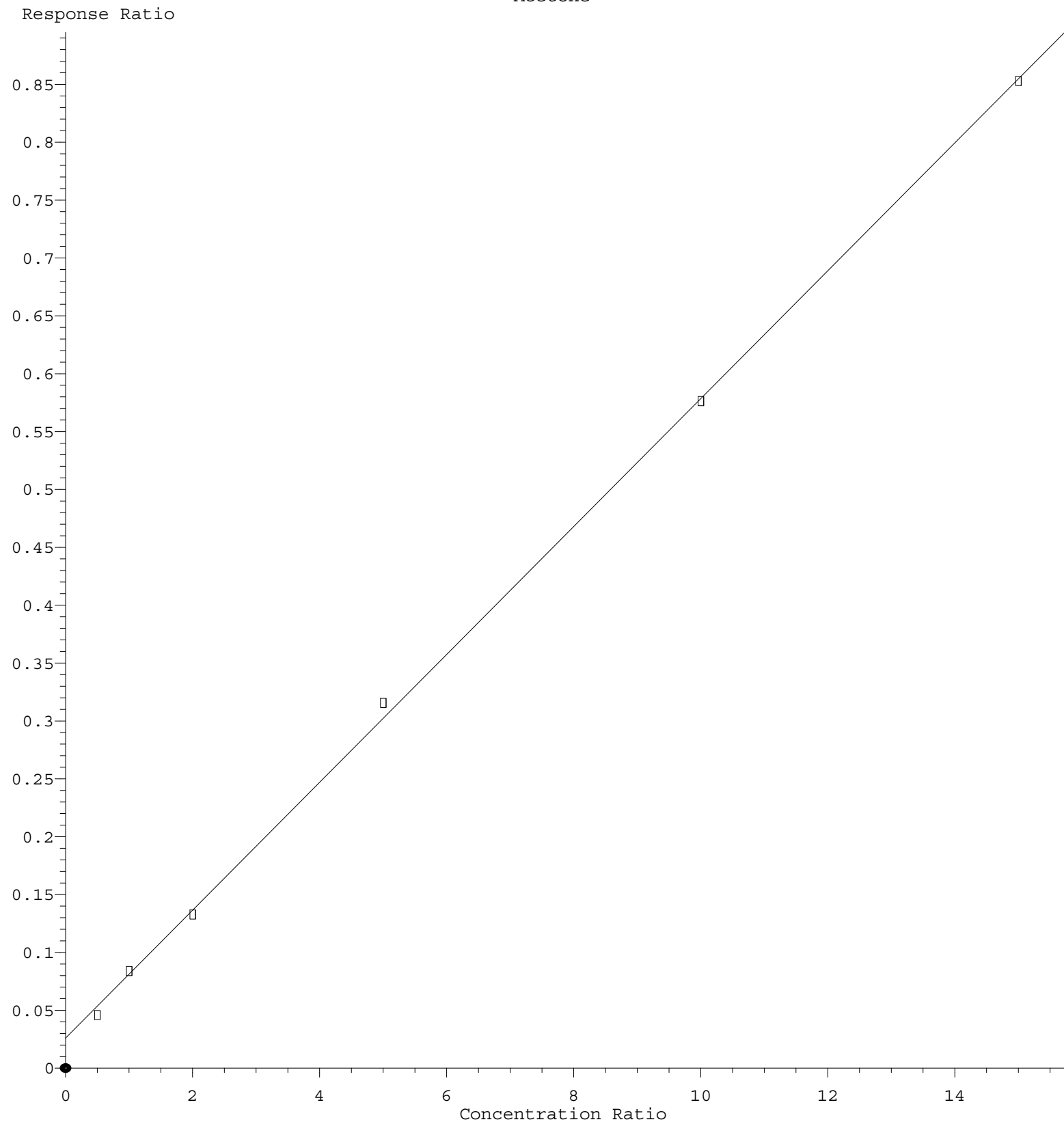
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.66
3) P	Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.24
4) C	Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.14#
5) T	Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.29
6) T	Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.60
7) T	Trichlorofluor...	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.87
8) T	Diethyl Ether	0.283	0.266	0.253	0.247	0.246	0.240	0.256	6.23
9) T	1,1,2-Trichlor...	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.83
10) T	Methyl Iodide	0.573	0.619	0.604	0.629	0.651	0.628	0.617	4.33
11) T	Tert butyl alc...	0.027	0.024	0.027	0.026	0.023	0.025	0.025	6.35
12) CM	1,1-Dichloroet...	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5.05#
13) T	Acrolein	0.053	0.045	0.051	0.042	0.040	0.042	0.046	11.55
14) T	Allyl chloride	0.620	0.607	0.558	0.555	0.575	0.557	0.579	4.82
15) T	Acrylonitrile	0.103	0.090	0.099	0.093	0.088	0.088	0.094	6.56
16) T	Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.66
17) T	Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.75
18) T	Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.16
19) T	Methyl tert-bu...	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.57
20) T	Methylene Chlo...	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.72
21) T	trans-1,2-Dich...	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.29
22) T	Diisopropyl ether	1.282	1.292	1.316	1.290	1.300	1.248	1.288	1.78
23) T	Vinyl Acetate	0.657	0.684	0.700	0.716	0.713	0.694	0.694	3.15
24) P	1,1-Dichloroet...	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.89
25) T	2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.53
26) T	2,2-Dichloropr...	0.841	0.830	0.763	0.743	0.770	0.748	0.782	5.42
27) T	cis-1,2-Dichlo...	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.08
28) T	Bromochloromet...	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.18
29) T	Tetrahydrofuran	0.067	0.065	0.072	0.073	0.066	0.067	0.068	4.92
30) C	Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.17#
31) T	Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.59
32) T	1,1,1-Trichlor...	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.78
33) S	1,2-Dichloroet...	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.29
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.34
36) T	1,1-Dichloropr...	0.455	0.470	0.424	0.425	0.450	0.437	0.444	4.10
37) T	Ethyl Acetate	0.166	0.161	0.163	0.161	0.153	0.151	0.159	3.67
38) T	Carbon Tetrach...	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.90
39) T	Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	5.95
40) TM	Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.14
41) T	Methacrylonitrile	0.076	0.086	0.104	0.092	0.082	0.084	0.087	11.20
42) TM	1,2-Dichloroet...	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.27
43) T	Isopropyl Acetate	0.301	0.293	0.314	0.312	0.309	0.308	0.306	2.52
44) TM	Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.28
45) C	1,2-Dichloropr...	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.36#
46) T	Dibromomethane	0.202	0.193	0.192	0.187	0.191	0.187	0.192	2.95
47) T	Bromodichlorom...	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.08
48) T	Methyl methacr...	0.120	0.130	0.147	0.150	0.150	0.151	0.141	9.21
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.90
50) S	Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2.04
51) T	4-Methyl-2-Pen...	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.94
52) CM	Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.35#
53) T	t-1,3-Dichloro...	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.70
54) T	cis-1,3-Dichlo...	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.32
55) T	1,1,2-Trichlor...	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.82
56) T	Ethyl methacry...	0.234	0.259	0.290	0.316	0.332	0.329	0.293	13.69

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y042225S.M

57)	T	1,3-Dichloropr...	0.413	0.420	0.405	0.409	0.417	0.404	0.411	1.58
58)	T	2-Chloroethyl ...	0.118	0.121	0.146	0.161	0.154	0.161	0.143	13.40
59)	T	2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.46
60)	T	Dibromochlorom...	0.345	0.355	0.354	0.352	0.367	0.357	0.355	1.96
61)	T	1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.27
62)	S	4-Bromofluorob...	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.77
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.64
65)	PM	Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.46
66)	T	1,1,1,2-Tetrac...	0.401	0.409	0.376	0.386	0.401	0.388	0.394	3.12
67)	C	Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.06#
68)	T	m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.28
69)	T	o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.32
70)	T	Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.16
71)	P	Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.48
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.24
74)	T	N-amyl acetate	0.528	0.530	0.553	0.591	0.615	0.626	0.574	7.48
75)	P	1,1,2,2-Tetrac...	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.42
76)	T	1,2,3-Trichlor...	0.498	0.445	0.418	0.405	0.408	0.397	0.428	8.83
77)	T	Bromobenzene	0.855	0.831	0.780	0.828	0.890	0.881	0.844	4.76
78)	T	n-propylbenzene	3.708	3.996	3.778	3.977	4.258	4.152	3.978	5.30
79)	T	2-Chlorotoluene	2.253	2.343	2.179	2.280	2.435	2.391	2.314	4.07
80)	T	1,3,5-Trimethy...	2.467	2.757	2.614	2.800	2.978	2.898	2.752	6.80
81)	T	trans-1,4-Dich...	0.185	0.174	0.170	0.177	0.181	0.181	0.178	2.93
82)	T	4-Chlorotoluene	2.313	2.501	2.270	2.380	2.521	2.445	2.405	4.23
83)	T	tert-Butylbenzene	2.246	2.382	2.263	2.494	2.725	2.701	2.468	8.48
84)	T	1,2,4-Trimethy...	2.415	2.717	2.631	2.784	3.027	2.945	2.753	8.01
85)	T	sec-Butylbenzene	3.254	3.724	3.409	3.602	3.898	3.786	3.612	6.72
86)	T	p-Isopropyltol...	2.717	3.016	2.869	3.094	3.386	3.321	3.067	8.39
87)	T	1,3-Dichlorobe...	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.53
88)	T	1,4-Dichlorobe...	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.73
89)	T	n-Butylbenzene	2.477	2.790	2.545	2.742	2.976	2.919	2.742	7.24
90)	T	Hexachloroethane	0.715	0.710	0.614	0.638	0.689	0.677	0.674	6.01
91)	T	1,2-Dichlorobe...	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.84
92)	T	1,2-Dibromo-3-...	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.90
93)	T	1,2,4-Trichlor...	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.11
94)	T	Hexachlorobuta...	0.522	0.545	0.483	0.480	0.555	0.544	0.521	6.28
95)	T	Naphthalene	1.186	1.113	1.284	1.436	1.690	1.738	1.408	18.56
96)	T	1,2,3-Trichlor...	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.25

(#) = Out of Range

Acetone



Response = 5.529e-002 * Amt + 2.582e-002
 Coef of Det (r^2) = 0.999482 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y042225S.M
 Calibration Table Last Updated: Wed Apr 23 02:30:30 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021953.D
 Acq On : 22 Apr 2025 13:39
 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 :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	280613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462995	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	410723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	205526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	14719	5.679	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.360%#		
35) Dibromofluoromethane	7.634	113	15517	5.073	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.140%#		
50) Toluene-d8	10.109	98	56501	4.900	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.800%#		
62) 4-Bromofluorobenzene	12.407	95	18902	4.869	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.740%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	13157	5.503	ug/l	93
3) Chloromethane	2.068	50	19759	5.803	ug/l	92
4) Vinyl Chloride	2.202	62	23262	5.560	ug/l	98
5) Bromomethane	2.598	94	21956	6.091	ug/l	99
6) Chloroethane	2.732	64	16527	5.800	ug/l	90
7) Trichlorofluoromethane	3.055	101	29399	5.329	ug/l	93
8) Diethyl Ether	3.452	74	7949	5.536	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.818	101	16959	5.667	ug/l	97
10) Methyl Iodide	4.000	142	16072	4.638	ug/l	97
11) Tert butyl alcohol	4.866	59	3727m	26.192	ug/l	
12) 1,1-Dichloroethene	3.793	96	14742	5.285	ug/l	97
13) Acrolein	3.659	56	7419	29.049	ug/l	97
14) Allyl chloride	4.372	41	17385	5.352	ug/l	98
15) Acrylonitrile	5.055	53	14464	27.514	ug/l	97
16) Acetone	3.872	43	12844	18.039	ug/l #	83
17) Carbon Disulfide	4.104	76	48701	5.475	ug/l	98
18) Methyl Acetate	4.391	43	5994	4.951	ug/l	92
19) Methyl tert-butyl Ether	5.110	73	30819	4.936	ug/l	98
20) Methylene Chloride	4.610	84	21309	6.502	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	17357	5.556	ug/l	92
22) Diisopropyl ether	6.012	45	35963	4.975	ug/l	91
23) Vinyl Acetate	5.963	43	92152	23.655	ug/l	95
24) 1,1-Dichloroethane	5.915	63	27705	5.529	ug/l	98
25) 2-Butanone	6.896	43	15627	26.449	ug/l #	87
26) 2,2-Dichloropropane	6.890	77	23594	5.373	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	17569	5.029	ug/l	96
28) Bromochloromethane	7.244	49	10541	5.416	ug/l	98
29) Tetrahydrofuran	7.262	42	9424	24.559	ug/l	97
30) Chloroform	7.421	83	30418	5.473	ug/l	97
31) Cyclohexane	7.707	56	23446	5.472	ug/l #	77
32) 1,1,1-Trichloroethane	7.622	97	27271	5.424	ug/l	96
36) 1,1-Dichloropropene	7.829	75	21076	5.130	ug/l	96
37) Ethyl Acetate	6.982	43	7691m	5.283	ug/l	
38) Carbon Tetrachloride	7.811	117	25016	5.095	ug/l	97
39) Methylcyclohexane	9.109	83	24303	4.700	ug/l	97
40) Benzene	8.079	78	65878	5.129	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021953.D
 Acq On : 22 Apr 2025 13:39
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	3506m	4.345	ug/l	
42) 1,2-Dichloroethane	8.158	62	16046	5.046	ug/l	96
43) Isopropyl Acetate	8.195	43	13940	4.919	ug/l #	86
44) Trichloroethene	8.865	130	18611	5.231	ug/l	96
45) 1,2-Dichloropropane	9.146	63	14827	5.220	ug/l	99
46) Dibromomethane	9.231	93	9367	5.268	ug/l	96
47) Bromodichloromethane	9.420	83	22170	4.991	ug/l #	96
48) Methyl methacrylate	9.225	41	5570	4.252	ug/l	94
49) 1,4-Dioxane	9.231	88	1703	89.863	ug/l #	90
51) 4-Methyl-2-Pentanone	9.999	43	33298	22.414	ug/l	98
52) Toluene	10.170	92	38784	4.665	ug/l	97
53) t-1,3-Dichloropropene	10.396	75	17712	4.649	ug/l #	87
54) cis-1,3-Dichloropropene	9.853	75	21582	4.765	ug/l	92
55) 1,1,2-Trichloroethane	10.572	97	11582	4.877	ug/l	94
56) Ethyl methacrylate	10.444	69	10816	3.982	ug/l	96
57) 1,3-Dichloropropane	10.719	76	19113	5.020	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	27363	20.606	ug/l	100
59) 2-Hexanone	10.761	43	21558	22.001	ug/l	92
60) Dibromochloromethane	10.914	129	15992	4.863	ug/l	97
61) 1,2-Dibromoethane	11.017	107	11020	4.915	ug/l	98
64) Tetrachloroethene	10.646	164	20545	5.302	ug/l	91
65) Chlorobenzene	11.444	112	48805	5.314	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.517	131	16483	5.097	ug/l	98
67) Ethyl Benzene	11.517	91	69548	4.629	ug/l	97
68) m/p-Xylenes	11.627	106	54518	9.119	ug/l	100
69) o-Xylene	11.956	106	24611	4.466	ug/l	98
70) Styrene	11.969	104	39016	4.217	ug/l	97
71) Bromoform	12.133	173	9608	5.111	ug/l #	98
73) Isopropylbenzene	12.255	105	62917	4.582	ug/l	97
74) N-amyl acetate	12.072	43	10843	4.596	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	12362	5.340	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	10228m	5.648	ug/l	
77) Bromobenzene	12.535	156	17570	5.064	ug/l	100
78) n-propylbenzene	12.596	91	76210	4.660	ug/l	100
79) 2-Chlorotoluene	12.682	91	46298	4.868	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	50699	4.481	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	3795	5.191	ug/l	98
82) 4-Chlorotoluene	12.779	91	47541	4.809	ug/l	98
83) tert-Butylbenzene	12.999	119	46171	4.550	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	49642	4.387	ug/l	99
85) sec-Butylbenzene	13.176	105	66872	4.504	ug/l	99
86) p-Isopropyltoluene	13.291	119	55850	4.430	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	35553	5.045	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	37426	5.362	ug/l	95
89) n-Butylbenzene	13.621	91	50918	4.518	ug/l	99
90) Hexachloroethane	13.883	117	14703	5.308	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	31298	5.092	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2000	5.430	ug/l	86
93) 1,2,4-Trichlorobenzene	14.919	180	15346	4.406	ug/l	94
94) Hexachlorobutadiene	15.023	225	10723	5.004	ug/l	98
95) Naphthalene	15.145	128	24368	4.212	ug/l	97
96) 1,2,3-Trichlorobenzene	15.328	180	13785	4.585	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 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_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021954.D
 Acq On : 22 Apr 2025 14:44
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	292096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	418471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	217358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	27856	10.325	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.640%#		
35) Dibromofluoromethane	7.634	113	31560	10.335	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.660%#		
50) Toluene-d8	10.103	98	116480	10.118	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.240%#		
62) 4-Bromofluorobenzene	12.407	95	39704	10.244	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	20.480%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	27882	11.202	ug/l	95
3) Chloromethane	2.068	50	39169	11.052	ug/l	91
4) Vinyl Chloride	2.202	62	48475	11.131	ug/l	98
5) Bromomethane	2.598	94	40742	10.859	ug/l	98
6) Chloroethane	2.732	64	32122	10.830	ug/l	95
7) Trichlorofluoromethane	3.055	101	62819	10.939	ug/l	94
8) Diethyl Ether	3.452	74	15517	10.381	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	34542	11.088	ug/l	99
10) Methyl Iodide	4.000	142	36146	10.021	ug/l	99
11) Tert butyl alcohol	4.866	59	7087	47.846	ug/l	95
12) 1,1-Dichloroethene	3.787	96	31073	10.701	ug/l	94
13) Acrolein	3.647	56	13091	49.243	ug/l	96
14) Allyl chloride	4.378	41	35457	10.487	ug/l	97
15) Acrylonitrile	5.055	53	26314	48.088	ug/l	96
16) Acetone	3.872	43	24497	52.492	ug/l	99
17) Carbon Disulfide	4.104	76	101496	10.962	ug/l	96
18) Methyl Acetate	4.378	43	11687	9.273	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	62306	9.587	ug/l	96
20) Methylene Chloride	4.610	84	36539	10.710	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	33752	10.379	ug/l	97
22) Diisopropyl ether	6.012	45	75451	10.028	ug/l	94
23) Vinyl Acetate	5.957	43	199753	49.260	ug/l	99
24) 1,1-Dichloroethane	5.915	63	55067	10.558	ug/l	97
25) 2-Butanone	6.890	43	31349	50.973	ug/l	100
26) 2,2-Dichloropropane	6.884	77	48501	10.610	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	37281	10.253	ug/l	99
28) Bromochloromethane	7.238	49	21122	10.426	ug/l	99
29) Tetrahydrofuran	7.262	42	18883	47.274	ug/l	100
30) Chloroform	7.414	83	61088	10.559	ug/l	99
31) Cyclohexane	7.701	56	50083	11.229	ug/l #	96
32) 1,1,1-Trichloroethane	7.616	97	55163	10.540	ug/l	97
36) 1,1-Dichloropropene	7.835	75	43496	10.604	ug/l	98
37) Ethyl Acetate	6.982	43	14895m	10.248	ug/l	
38) Carbon Tetrachloride	7.817	117	52079	10.625	ug/l	100
39) Methylcyclohexane	9.109	83	52625	10.194	ug/l	95
40) Benzene	8.079	78	133010	10.373	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021954.D
 Acq On : 22 Apr 2025 14:44
 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 :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	7906m	9.813	ug/l	
42) 1,2-Dichloroethane	8.152	62	33939	10.690	ug/l	99
43) Isopropyl Acetate	8.195	43	27087	9.574	ug/l	98
44) Trichloroethene	8.865	130	37414	10.534	ug/l	91
45) 1,2-Dichloropropane	9.140	63	29327	10.342	ug/l	98
46) Dibromomethane	9.231	93	17848	10.055	ug/l	98
47) Bromodichloromethane	9.420	83	46552	10.498	ug/l	97
48) Methyl methacrylate	9.219	41	12035	9.202	ug/l	97
49) 1,4-Dioxane	9.231	88	3781	199.843	ug/l #	96
51) 4-Methyl-2-Pentanone	9.999	43	68951	46.490	ug/l	98
52) Toluene	10.170	92	84571	10.189	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	37699	9.911	ug/l	94
54) cis-1,3-Dichloropropene	9.859	75	45133	9.982	ug/l	95
55) 1,1,2-Trichloroethane	10.572	97	24166	10.192	ug/l	98
56) Ethyl methacrylate	10.438	69	23924	8.823	ug/l	98
57) 1,3-Dichloropropane	10.719	76	38787	10.204	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.707	63	55900	42.164	ug/l	98
59) 2-Hexanone	10.761	43	44419	45.407	ug/l	97
60) Dibromochloromethane	10.914	129	32807	9.994	ug/l	99
61) 1,2-Dibromoethane	11.011	107	22427	10.019	ug/l	99
64) Tetrachloroethene	10.646	164	43205	10.944	ug/l	99
65) Chlorobenzene	11.444	112	96442	10.306	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	34237	10.392	ug/l	99
67) Ethyl Benzene	11.517	91	153977	10.058	ug/l	96
68) m/p-Xylenes	11.627	106	120544	19.789	ug/l	100
69) o-Xylene	11.956	106	53458	9.521	ug/l	98
70) Styrene	11.969	104	90382	9.588	ug/l	99
71) Bromoform	12.133	173	18480	9.648	ug/l #	99
73) Isopropylbenzene	12.255	105	144167	9.928	ug/l	100
74) N-amyl acetate	12.072	43	23058	9.242	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	24413	9.971	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	19328m	10.092	ug/l	
77) Bromobenzene	12.529	156	36127	9.845	ug/l	97
78) n-propylbenzene	12.596	91	173723	10.045	ug/l	98
79) 2-Chlorotoluene	12.682	91	101855	10.127	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	119871	10.018	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	7556	9.773	ug/l	98
82) 4-Chlorotoluene	12.779	91	108734	10.400	ug/l	100
83) tert-Butylbenzene	12.999	119	103541	9.649	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	118119	9.870	ug/l	100
85) sec-Butylbenzene	13.176	105	161907	10.311	ug/l	100
86) p-Isopropyltoluene	13.291	119	131120	9.834	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	77538	10.404	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	75043	10.167	ug/l	98
89) n-Butylbenzene	13.621	91	121297	10.177	ug/l	99
90) Hexachloroethane	13.877	117	30881	10.541	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	66159	10.178	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3955	10.153	ug/l	83
93) 1,2,4-Trichlorobenzene	14.919	180	34793	9.446	ug/l	98
94) Hexachlorobutadiene	15.023	225	23698	10.457	ug/l	98
95) Naphthalene	15.145	128	48366	7.904	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	29276	9.207	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

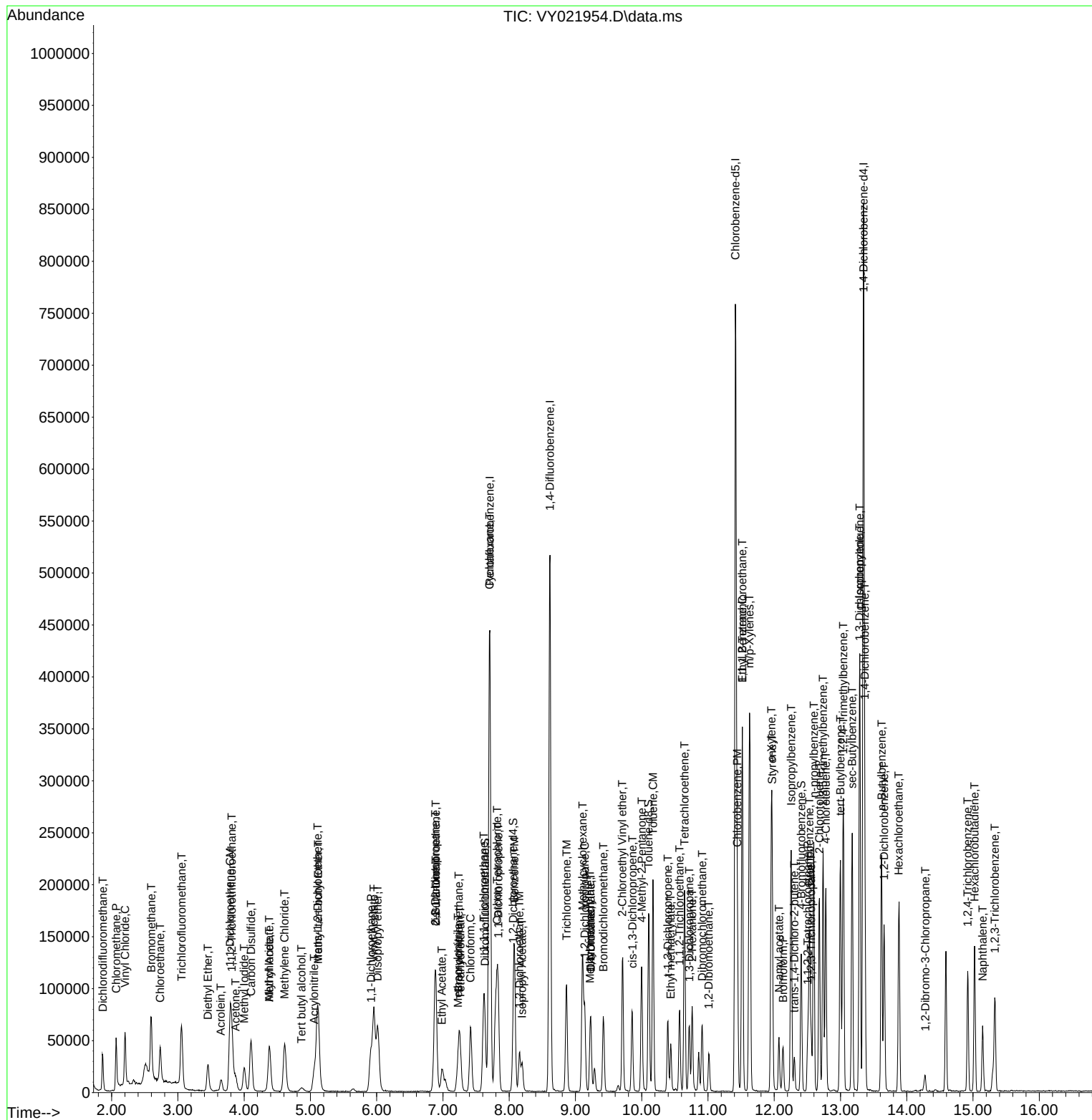
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021955.D
 Acq On : 22 Apr 2025 15:07
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	302781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	479908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	443014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	236548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55629	19.891	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	39.780%#		
35) Dibromofluoromethane	7.634	113	63419	20.003	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.000%#		
50) Toluene-d8	10.103	98	232431	19.446	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.900%#		
62) 4-Bromofluorobenzene	12.408	95	77034	19.144	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	38.280%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	49065	19.018	ug/l	94
3) Chloromethane	2.062	50	76990	20.957	ug/l	99
4) Vinyl Chloride	2.202	62	91757	20.326	ug/l	100
5) Bromomethane	2.586	94	81602	20.981	ug/l	95
6) Chloroethane	2.726	64	63501	20.654	ug/l	99
7) Trichlorofluoromethane	3.050	101	119529	20.079	ug/l	97
8) Diethyl Ether	3.452	74	30609	19.755	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	64172	19.872	ug/l	99
10) Methyl Iodide	4.001	142	73189	19.575	ug/l	100
11) Tert butyl alcohol	4.866	59	16584	108.012	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	58505	19.437	ug/l	97
13) Acrolein	3.653	56	30883	112.069	ug/l	98
14) Allyl chloride	4.379	41	67622	19.294	ug/l	99
15) Acrylonitrile	5.061	53	59926	105.648	ug/l	98
16) Acetone	3.873	43	40190	96.689	ug/l	94
17) Carbon Disulfide	4.098	76	189988	19.796	ug/l	95
18) Methyl Acetate	4.385	43	27988	21.423	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	133523	19.820	ug/l	98
20) Methylene Chloride	4.610	84	69571	19.673	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	64547	19.148	ug/l	92
22) Diisopropyl ether	6.012	45	159414	20.439	ug/l	96
23) Vinyl Acetate	5.958	43	424128	100.901	ug/l	100
24) 1,1-Dichloroethane	5.915	63	108156	20.006	ug/l	99
25) 2-Butanone	6.896	43	65464	102.688	ug/l	96
26) 2,2-Dichloropropane	6.878	77	92415	19.503	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	73114	19.398	ug/l	97
28) Bromochloromethane	7.244	49	44154	21.027	ug/l	99
29) Tetrahydrofuran	7.262	42	43665	105.459	ug/l	99
30) Chloroform	7.421	83	117934	19.666	ug/l	97
31) Cyclohexane	7.701	56	89380	19.333	ug/l	91
32) 1,1,1-Trichloroethane	7.610	97	108468	19.993	ug/l	98
36) 1,1-Dichloropropene	7.835	75	81459	19.127	ug/l	99
37) Ethyl Acetate	6.982	43	31319	20.755	ug/l	99
38) Carbon Tetrachloride	7.817	117	98308	19.318	ug/l	98
39) Methylcyclohexane	9.109	83	99570	18.578	ug/l	95
40) Benzene	8.079	78	259371	19.482	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021955.D
 Acq On : 22 Apr 2025 15:07
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.238	41	19946m	23.846	ug/l	
42) 1,2-Dichloroethane	8.158	62	67235	20.398	ug/l	100
43) Isopropyl Acetate	8.195	43	60204	20.495	ug/l #	87
44) Trichloroethene	8.866	130	70896	19.226	ug/l	96
45) 1,2-Dichloropropane	9.140	63	57934	19.678	ug/l	98
46) Dibromomethane	9.225	93	36893	20.018	ug/l	97
47) Bromodichloromethane	9.420	83	89049	19.341	ug/l	99
48) Methyl methacrylate	9.219	41	28211	20.775	ug/l	97
49) 1,4-Dioxane	9.237	88	8497	432.566	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	159902	103.844	ug/l	99
52) Toluene	10.170	92	168035	19.499	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	76629	19.404	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	92726	19.753	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	50105	20.353	ug/l	99
56) Ethyl methacrylate	10.438	69	55703	19.786	ug/l	99
57) 1,3-Dichloropropane	10.713	76	77652	19.676	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	140435	102.027	ug/l	99
59) 2-Hexanone	10.762	43	104321	102.714	ug/l	98
60) Dibromochloromethane	10.908	129	67988	19.948	ug/l	99
61) 1,2-Dibromoethane	11.012	107	46699	20.093	ug/l	98
64) Tetrachloroethene	10.646	164	81915	19.600	ug/l	98
65) Chlorobenzene	11.438	112	186901	18.866	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	66586	19.091	ug/l	99
67) Ethyl Benzene	11.518	91	304501	18.789	ug/l	99
68) m/p-Xylenes	11.627	106	247677	38.407	ug/l	99
69) o-Xylene	11.956	106	112603	18.945	ug/l	100
70) Styrene	11.969	104	191106	19.149	ug/l	99
71) Bromoform	12.133	173	39690	19.573	ug/l #	98
73) Isopropylbenzene	12.255	105	293481	18.570	ug/l	100
74) N-amyl acetate	12.072	43	52325	19.271	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	52524	19.713	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	39530m	18.965	ug/l	
77) Bromobenzene	12.530	156	73838	18.490	ug/l	97
78) n-propylbenzene	12.597	91	357438	18.992	ug/l	99
79) 2-Chlorotoluene	12.676	91	206212	18.840	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	247372	18.997	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	16123	19.163	ug/l	96
82) 4-Chlorotoluene	12.773	91	214776	18.876	ug/l	100
83) tert-Butylbenzene	12.999	119	214149	18.337	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	248902	19.110	ug/l	99
85) sec-Butylbenzene	13.176	105	322522	18.873	ug/l	100
86) p-Isopropyltoluene	13.292	119	271440	18.706	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	150873	18.602	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	151864	18.905	ug/l	99
89) n-Butylbenzene	13.615	91	240816	18.566	ug/l	98
90) Hexachloroethane	13.877	117	58060	18.211	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	135650	19.175	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8864	20.910	ug/l	89
93) 1,2,4-Trichlorobenzene	14.919	180	74289	18.532	ug/l	99
94) Hexachlorobutadiene	15.023	225	45722	18.538	ug/l	98
95) Naphthalene	15.145	128	121454	18.238	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	64735	18.707	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

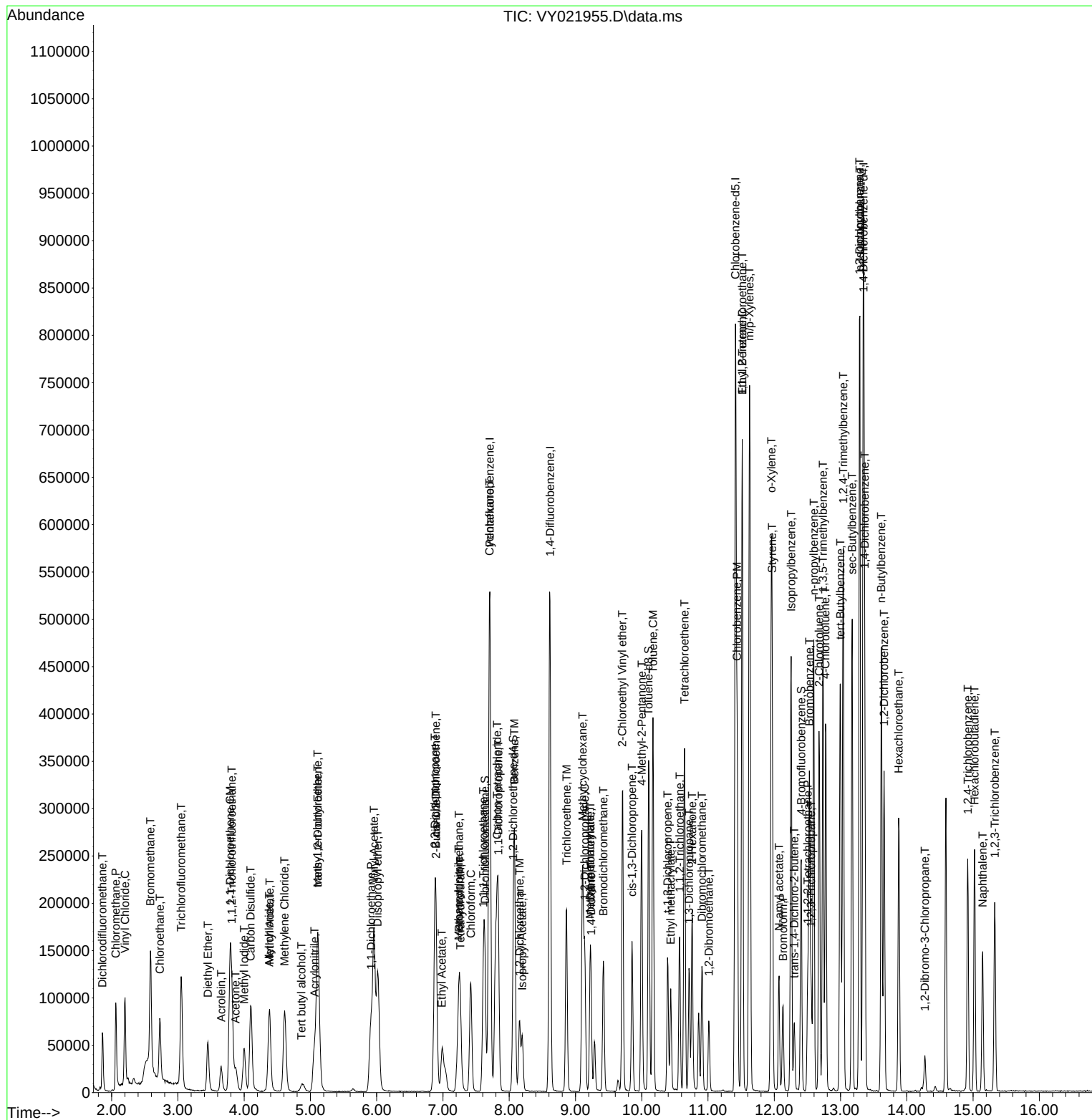
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021955.D
 Acq On : 22 Apr 2025 15:07
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Quant Time: Apr 23 02:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021956.D
 Acq On : 22 Apr 2025 15:29
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	321453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	499724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	458508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	245926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	149695	50.416	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.840%			
35) Dibromofluoromethane	7.634	113	164867	49.938	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.880%			
50) Toluene-d8	10.103	98	637767	51.241	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.480%			
62) 4-Bromofluorobenzene	12.402	95	212936	50.820	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.640%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	126242	46.089	ug/l	100
3) Chloromethane	2.062	50	193657	49.653	ug/l	100
4) Vinyl Chloride	2.196	62	234756	48.981	ug/l	100
5) Bromomethane	2.592	94	191530	46.385	ug/l	100
6) Chloroethane	2.733	64	158887	48.677	ug/l	100
7) Trichlorofluoromethane	3.050	101	308523	48.817	ug/l	100
8) Diethyl Ether	3.452	74	79512	48.337	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	157297	45.881	ug/l	100
10) Methyl Iodide	4.001	142	202276	50.959	ug/l	100
11) Tert butyl alcohol	4.879	59	41968	257.462	ug/l	100
12) 1,1-Dichloroethene	3.787	96	151531	47.419	ug/l	100
13) Acrolein	3.653	56	68275	233.366	ug/l	100
14) Allyl chloride	4.379	41	178559	47.988	ug/l	100
15) Acrylonitrile	5.055	53	150181	249.387	ug/l	100
16) Acetone	3.879	43	101417	261.973	ug/l	100
17) Carbon Disulfide	4.098	76	479842	47.094	ug/l	100
18) Methyl Acetate	4.385	43	71756	51.735	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	364107	50.907	ug/l	100
20) Methylene Chloride	4.610	84	171472	45.671	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	171054	47.796	ug/l	100
22) Diisopropyl ether	6.019	45	414816	50.096	ug/l	100
23) Vinyl Acetate	5.958	43	1151100	257.942	ug/l	100
24) 1,1-Dichloroethane	5.915	63	274136	47.762	ug/l	100
25) 2-Butanone	6.896	43	169727	250.772	ug/l	100
26) 2,2-Dichloropropane	6.884	77	238816	47.472	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	196712	49.157	ug/l	100
28) Bromochloromethane	7.244	49	110399	49.520	ug/l	100
29) Tetrahydrofuran	7.262	42	117311	266.870	ug/l	100
30) Chloroform	7.421	83	307243	48.259	ug/l	100
31) Cyclohexane	7.701	56	227735	46.398	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	274062	47.581	ug/l	100
36) 1,1-Dichloropropene	7.835	75	212523	47.923	ug/l	100
37) Ethyl Acetate	6.982	43	80627	51.312	ug/l	100
38) Carbon Tetrachloride	7.817	117	253502	47.838	ug/l	100
39) Methylcyclohexane	9.109	83	274408	49.170	ug/l	100
40) Benzene	8.079	78	667899	48.179	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021956.D
 Acq On : 22 Apr 2025 15:29
 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 :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	45898	52.696	ug/l	100
42) 1,2-Dichloroethane	8.158	62	167612	48.835	ug/l	100
43) Isopropyl Acetate	8.195	43	155835	50.948	ug/l	100
44) Trichloroethene	8.860	130	183327	47.744	ug/l	100
45) 1,2-Dichloropropane	9.140	63	149687	48.827	ug/l	100
46) Dibromomethane	9.231	93	93536	48.740	ug/l	100
47) Bromodichloromethane	9.420	83	234964	49.010	ug/l	100
48) Methyl methacrylate	9.219	41	75057	53.082	ug/l	100
49) 1,4-Dioxane	9.238	88	20303	992.601	ug/l	100
51) 4-Methyl-2-Pentanone	10.000	43	428635	267.326	ug/l	100
52) Toluene	10.170	92	446525	49.760	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	208479	50.698	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	241637	49.432	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	128082	49.965	ug/l	100
56) Ethyl methacrylate	10.439	69	157986	53.893	ug/l	100
57) 1,3-Dichloropropane	10.713	76	204196	49.688	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	401030	279.797	ug/l	100
59) 2-Hexanone	10.762	43	286755	271.141	ug/l	100
60) Dibromochloromethane	10.908	129	176120	49.624	ug/l	100
61) 1,2-Dibromoethane	11.012	107	120604	49.835	ug/l	100
64) Tetrachloroethene	10.646	164	208756	48.263	ug/l	100
65) Chlorobenzene	11.438	112	496647	48.437	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	177151	49.075	ug/l	100
67) Ethyl Benzene	11.518	91	841384	50.163	ug/l	100
68) m/p-Xylenes	11.627	106	673159	100.858	ug/l	100
69) o-Xylene	11.950	106	315731	51.325	ug/l	100
70) Styrene	11.969	104	535957	51.890	ug/l	100
71) Bromoform	12.133	173	105166	50.110	ug/l #	100
73) Isopropylbenzene	12.255	105	817740	49.770	ug/l	100
74) N-amyl acetate	12.066	43	145415	51.512	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	134856	48.682	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	99679m	45.999	ug/l	
77) Bromobenzene	12.530	156	203522	49.021	ug/l	100
78) n-propylbenzene	12.591	91	977958	49.981	ug/l	100
79) 2-Chlorotoluene	12.676	91	560805	49.283	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	688578	50.863	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	43472	49.698	ug/l	100
82) 4-Chlorotoluene	12.773	91	585277	49.478	ug/l	100
83) tert-Butylbenzene	12.993	119	613293	50.513	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	684634	50.560	ug/l	100
85) sec-Butylbenzene	13.176	105	885790	49.857	ug/l	100
86) p-Isopropyltoluene	13.292	119	760829	50.431	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	405153	48.048	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	398336	47.697	ug/l	100
89) n-Butylbenzene	13.615	91	674346	50.008	ug/l	100
90) Hexachloroethane	13.877	117	156957	47.353	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	357028	48.544	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20698	46.964	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	202386	48.561	ug/l	100
94) Hexachlorobutadiene	15.023	225	117976	46.009	ug/l	100
95) Naphthalene	15.139	128	353130	51.007	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	173778	48.304	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

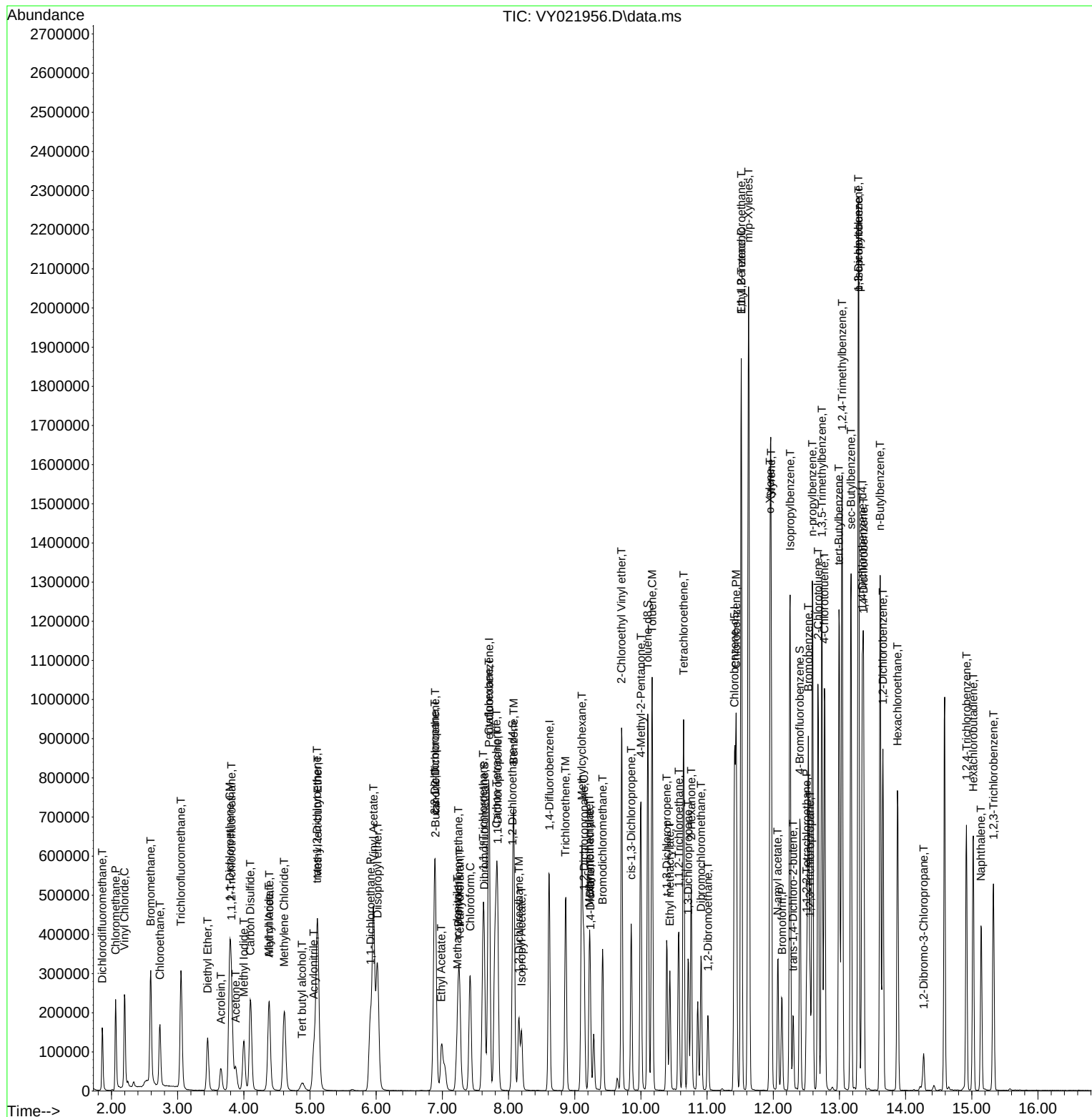
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	344392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	517970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	479774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	253936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	287743	90.454	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 180.900%#			
35) Dibromofluoromethane	7.634	113	329983	96.430	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 192.860%#			
50) Toluene-d8	10.103	98	1288287	99.860	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 199.720%#			
62) 4-Bromofluorobenzene	12.402	95	437911	100.832	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 201.660%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	280742	95.668	ug/l	99
3) Chloromethane	2.068	50	364659	87.270	ug/l	99
4) Vinyl Chloride	2.202	62	468044	91.152	ug/l	100
5) Bromomethane	2.586	94	381632	86.267	ug/l	98
6) Chloroethane	2.733	64	317008	90.651	ug/l	98
7) Trichlorofluoromethane	3.050	101	634632	93.728	ug/l	97
8) Diethyl Ether	3.452	74	169496	96.177	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	342220	93.171	ug/l	99
10) Methyl Iodide	4.001	142	448644	105.498	ug/l	100
11) Tert butyl alcohol	4.872	59	79446	454.915	ug/l	97
12) 1,1-Dichloroethene	3.787	96	335292	97.935	ug/l	98
13) Acrolein	3.647	56	137299	438.034	ug/l	97
14) Allyl chloride	4.379	41	395924	99.318	ug/l	99
15) Acrylonitrile	5.055	53	303243	470.017	ug/l	100
16) Acetone	3.873	43	198486	497.873	ug/l	92
17) Carbon Disulfide	4.104	76	1044296	95.665	ug/l	99
18) Methyl Acetate	4.385	43	142939	96.193	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	785760	102.542	ug/l	97
20) Methylene Chloride	4.610	84	356477	88.623	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	376278	98.137	ug/l	97
22) Diisopropyl ether	6.019	45	895700	100.965	ug/l	98
23) Vinyl Acetate	5.958	43	2455946	513.679	ug/l	99
24) 1,1-Dichloroethane	5.909	63	589137	95.806	ug/l	98
25) 2-Butanone	6.890	43	342128	471.826	ug/l	99
26) 2,2-Dichloropropane	6.884	77	530549	98.439	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	436196	101.743	ug/l	100
28) Bromochloromethane	7.244	49	221300	92.652	ug/l	97
29) Tetrahydrofuran	7.262	42	228438	485.059	ug/l	96
30) Chloroform	7.421	83	659805	96.733	ug/l	100
31) Cyclohexane	7.701	56	502812	95.618	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	595919	96.568	ug/l	99
36) 1,1-Dichloropropene	7.835	75	466424	101.471	ug/l	99
37) Ethyl Acetate	6.982	43	158846	97.530	ug/l	98
38) Carbon Tetrachloride	7.817	117	554665	100.983	ug/l	97
39) Methylcyclohexane	9.109	83	621199	107.388	ug/l	98
40) Benzene	8.079	78	1466182	102.038	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 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 :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	84524	93.624	ug/l #	89
42) 1,2-Dichloroethane	8.158	62	348314	97.908	ug/l	100
43) Isopropyl Acetate	8.195	43	319666	100.828	ug/l	98
44) Trichloroethene	8.866	130	401139	100.789	ug/l	99
45) 1,2-Dichloropropane	9.140	63	318648	100.279	ug/l	99
46) Dibromomethane	9.231	93	197509	99.293	ug/l	99
47) Bromodichloromethane	9.420	83	507797	102.188	ug/l	99
48) Methyl methacrylate	9.219	41	155528	106.117	ug/l	97
49) 1,4-Dioxane	9.231	88	43176	2036.490	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	859904	517.403	ug/l	99
52) Toluene	10.170	92	986553	106.068	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	452714	106.213	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	532092	105.017	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	267477	100.667	ug/l	99
56) Ethyl methacrylate	10.438	69	343556	113.068	ug/l	100
57) 1,3-Dichloropropane	10.713	76	432340	101.498	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	796991	536.469	ug/l	99
59) 2-Hexanone	10.762	43	573925	523.558	ug/l	99
60) Dibromochloromethane	10.908	129	380014	103.302	ug/l	99
61) 1,2-Dibromoethane	11.012	107	256079	102.087	ug/l	98
64) Tetrachloroethene	10.646	164	446995	98.761	ug/l	99
65) Chlorobenzene	11.438	112	1092542	101.831	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	384924	101.907	ug/l	99
67) Ethyl Benzene	11.518	91	1909638	108.806	ug/l	100
68) m/p-Xylenes	11.627	106	1528954	218.926	ug/l	98
69) o-Xylene	11.956	106	716652	111.334	ug/l	99
70) Styrene	11.969	104	1220634	112.940	ug/l	99
71) Bromoform	12.133	173	226072	102.945	ug/l #	98
73) Isopropylbenzene	12.255	105	1848306	108.944	ug/l	99
74) N-amyl acetate	12.066	43	312577	107.236	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	281769	98.509	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	207056m	92.537	ug/l	
77) Bromobenzene	12.530	156	451913	105.415	ug/l	98
78) n-propylbenzene	12.597	91	2162620	107.039	ug/l	99
79) 2-Chlorotoluene	12.676	91	1236457	105.231	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1512269	108.183	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	91833	101.673	ug/l	97
82) 4-Chlorotoluene	12.773	91	1280377	104.825	ug/l	99
83) tert-Butylbenzene	12.993	119	1383923	110.389	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1537175	109.940	ug/l	99
85) sec-Butylbenzene	13.176	105	1979821	107.920	ug/l	100
86) p-Isopropyltoluene	13.292	119	1719877	110.405	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	908577	104.350	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	880300	102.083	ug/l	99
89) n-Butylbenzene	13.615	91	1511238	108.535	ug/l	99
90) Hexachloroethane	13.877	117	349860	102.221	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	780600	102.789	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43006	94.503	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	492590	114.465	ug/l	100
94) Hexachlorobutadiene	15.023	225	281711	106.397	ug/l	99
95) Naphthalene	15.145	128	858079	120.033	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	420859	113.294	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 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\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

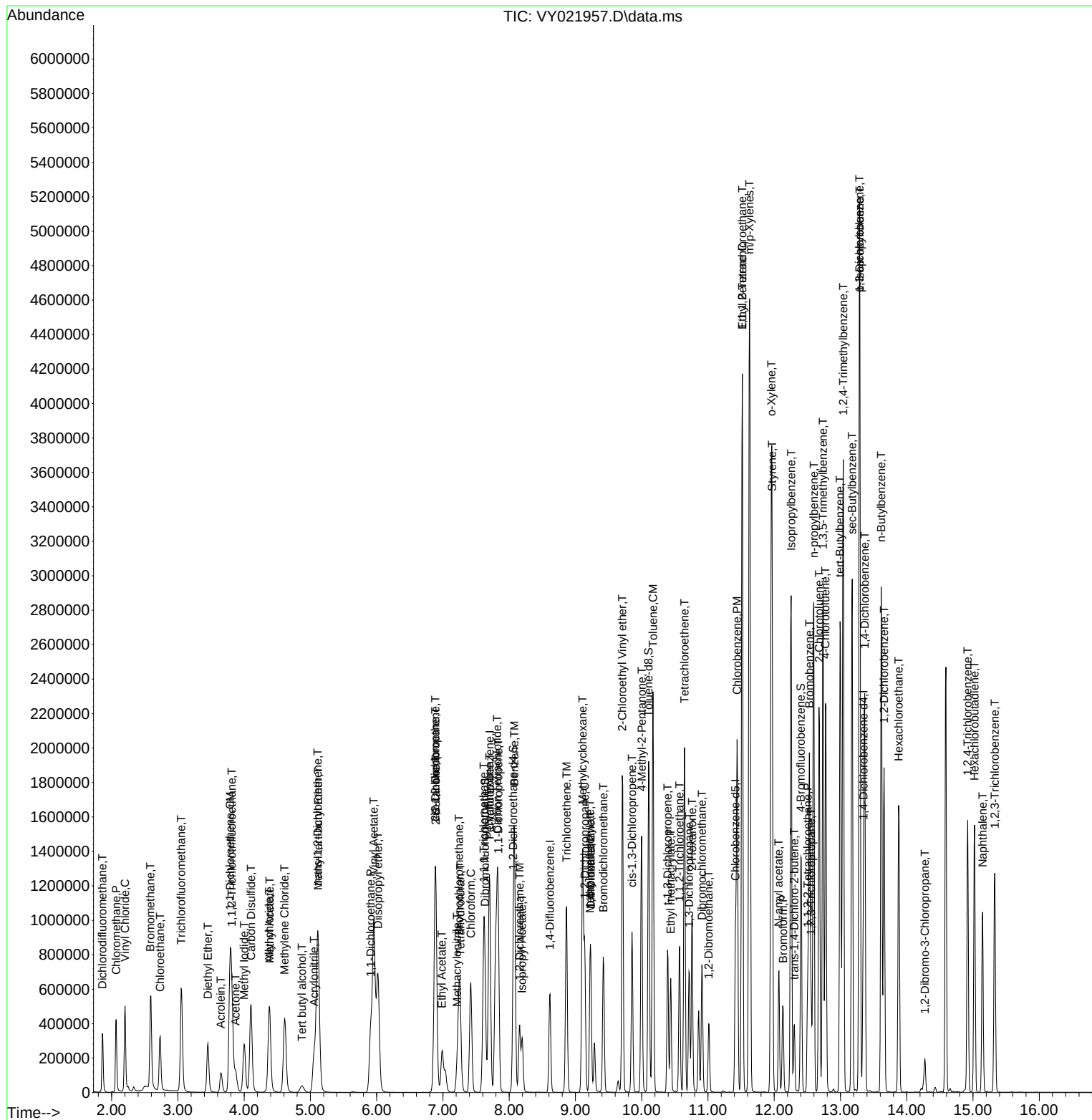
Quant Time: Apr 23 02:12:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M

Quant Title : SW846 8260

QLast Update : Wed Apr 23 02:02:03 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021958.D
 Acq On : 22 Apr 2025 16:15
 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 : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	355777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	536479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	502246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	256233	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	455676	138.662	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	277.320%#
35) Dibromofluoromethane	7.634	113	525659	148.312	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	296.620%#
50) Toluene-d8	10.103	98	2029557	151.892	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	303.780%#
62) 4-Bromofluorobenzene	12.402	95	688061	152.965	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	305.940%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	431961	142.488	ug/l	99
3) Chloromethane	2.068	50	531232	123.066	ug/l	98
4) Vinyl Chloride	2.202	62	690264	130.127	ug/l	99
5) Bromomethane	2.580	94	587136	128.474	ug/l	100
6) Chloroethane	2.727	64	457467	126.630	ug/l	100
7) Trichlorofluoromethane	3.050	101	968200	138.417	ug/l	98
8) Diethyl Ether	3.452	74	256284	140.770	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	520779	137.247	ug/l	99
10) Methyl Iodide	4.001	142	670370	152.592	ug/l	99
11) Tert butyl alcohol	4.866	59	132009	731.707	ug/l	98
12) 1,1-Dichloroethene	3.781	96	516411	146.010	ug/l	99
13) Acrolein	3.647	56	224148	692.230	ug/l	97
14) Allyl chloride	4.379	41	595004	144.481	ug/l	99
15) Acrylonitrile	5.055	53	471687	707.705	ug/l	99
16) Acetone	3.873	43	303420	747.934	ug/l	93
17) Carbon Disulfide	4.098	76	1556842	138.054	ug/l	99
18) Methyl Acetate	4.379	43	233664	152.216	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	1210655	152.936	ug/l	98
20) Methylene Chloride	4.610	84	526924	126.805	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	568174	143.443	ug/l	96
22) Diisopropyl ether	6.019	45	1331652	145.303	ug/l	99
23) Vinyl Acetate	5.958	43	3706076	750.348	ug/l	99
24) 1,1-Dichloroethane	5.909	63	881143	138.707	ug/l	98
25) 2-Butanone	6.890	43	533125	711.701	ug/l	98
26) 2,2-Dichloropropane	6.884	77	797978	143.320	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	663284	149.760	ug/l	99
28) Bromochloromethane	7.244	49	335269	135.876	ug/l	93
29) Tetrahydrofuran	7.262	42	357581	734.980	ug/l	95
30) Chloroform	7.421	83	986793	140.042	ug/l	98
31) Cyclohexane	7.701	56	759349	139.782	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	903077	141.659	ug/l	99
36) 1,1-Dichloropropene	7.835	75	702870	147.634	ug/l	99
37) Ethyl Acetate	6.982	43	243196	144.169	ug/l	98
38) Carbon Tetrachloride	7.817	117	841409	147.902	ug/l	99
39) Methylcyclohexane	9.103	83	947546	158.153	ug/l	97
40) Benzene	8.079	78	2184995	146.818	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021958.D
 Acq On : 22 Apr 2025 16:15
 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 :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.214	41	135364	144.765	ug/l #	90
42) 1,2-Dichloroethane	8.152	62	522909	141.914	ug/l	100
43) Isopropyl Acetate	8.195	43	495904	151.020	ug/l #	85
44) Trichloroethene	8.866	130	603635	146.435	ug/l	99
45) 1,2-Dichloropropane	9.140	63	473210	143.782	ug/l	100
46) Dibromomethane	9.225	93	300473	145.844	ug/l	99
47) Bromodichloromethane	9.420	83	758771	147.426	ug/l	100
48) Methyl methacrylate	9.219	41	243168	160.190	ug/l	97
49) 1,4-Dioxane	9.225	88	66528	3029.677	ug/l	99
51) 4-Methyl-2-Pentanone	9.994	43	1331129	773.306	ug/l	99
52) Toluene	10.170	92	1470005	152.593	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	683926	154.922	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	804716	153.345	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	405335	147.287	ug/l	99
56) Ethyl methacrylate	10.439	69	530305	168.507	ug/l	99
57) 1,3-Dichloropropane	10.713	76	650614	147.471	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1292633	840.076	ug/l	98
59) 2-Hexanone	10.756	43	896663	789.752	ug/l	99
60) Dibromochloromethane	10.908	129	574423	150.763	ug/l	100
61) 1,2-Dibromoethane	11.012	107	386950	148.938	ug/l	100
64) Tetrachloroethene	10.646	164	648295	136.828	ug/l	99
65) Chlorobenzene	11.438	112	1644879	146.452	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	584913	147.925	ug/l	100
67) Ethyl Benzene	11.518	91	2859582	155.641	ug/l	99
68) m/p-Xylenes	11.627	106	2270756	310.594	ug/l	99
69) o-Xylene	11.950	106	1079036	160.131	ug/l	99
70) Styrene	11.969	104	1821333	160.979	ug/l	100
71) Bromoform	12.127	173	345783	150.413	ug/l #	99
73) Isopropylbenzene	12.255	105	2766822	161.622	ug/l	99
74) N-amyl acetate	12.066	43	481095	163.570	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	428838	148.581	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	304860m	135.026	ug/l	
77) Bromobenzene	12.530	156	677176	156.545	ug/l	98
78) n-propylbenzene	12.591	91	3191904	156.567	ug/l	99
79) 2-Chlorotoluene	12.676	91	1838218	155.043	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	2227887	157.948	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	138838	152.337	ug/l	98
82) 4-Chlorotoluene	12.774	91	1879346	152.484	ug/l	99
83) tert-Butylbenzene	12.993	119	2076003	164.108	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	2263509	160.437	ug/l	100
85) sec-Butylbenzene	13.176	105	2910397	157.224	ug/l	99
86) p-Isopropyltoluene	13.292	119	2552924	162.413	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	1339029	152.409	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1293200	148.621	ug/l	98
89) n-Butylbenzene	13.615	91	2244063	159.720	ug/l	99
90) Hexachloroethane	13.877	117	520392	150.683	ug/l	98
91) 1,2-Dichlorobenzene	13.658	146	1156637	150.940	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	66731	145.323	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	737198	169.770	ug/l	99
94) Hexachlorobutadiene	15.023	225	417808	156.384	ug/l	99
95) Naphthalene	15.145	128	1336140	185.231	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	634152	169.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
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 :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

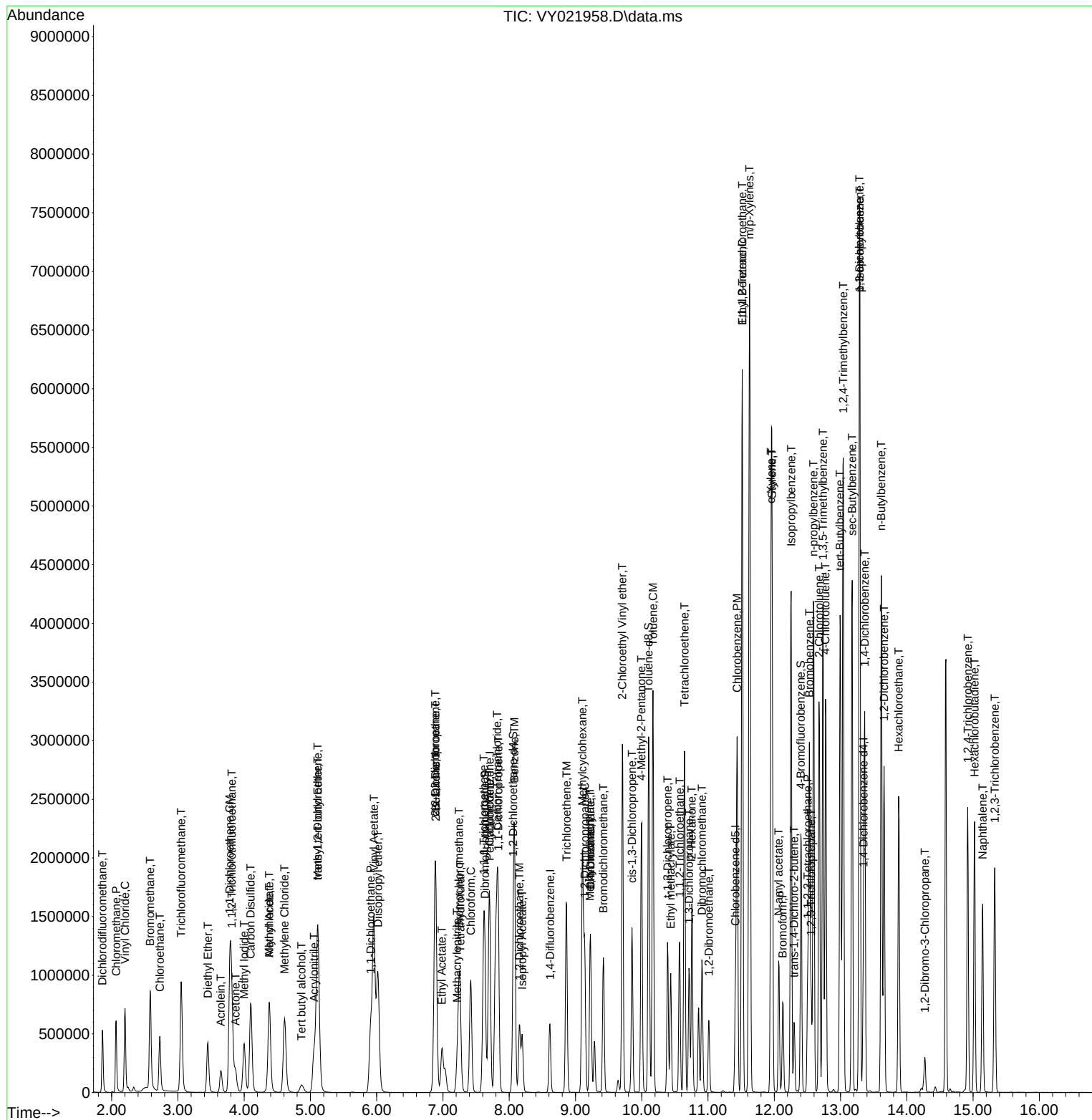
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025





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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2025 11:06

Lab File ID: VX045972.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.712		-4.81	20
Chloromethane	0.768	0.720	0.1	-6.25	20
Vinyl Chloride	0.703	0.677		-3.7	20
Bromomethane	0.333	0.325		-2.4	20
Chloroethane	0.373	0.394		5.63	20
Trichlorofluoromethane	1.048	1.127		7.54	20
1,1,2-Trichlorotrifluoroethane	0.614	0.689		12.22	20
1,1-Dichloroethene	0.600	0.621		3.5	20
Acetone	0.375	0.380		1.33	20
Carbon Disulfide	1.483	1.385		-6.61	20
Methyl tert-butyl Ether	2.100	2.373		13	20
Methyl Acetate	0.864	1.136		31.48	20
Methylene Chloride	0.703	0.722		2.7	20
trans-1,2-Dichloroethene	0.613	0.644		5.06	20
1,1-Dichloroethane	1.269	1.349	0.1	6.3	20
Cyclohexane	1.122	1.160		3.39	20
2-Butanone	0.550	0.579		5.27	20
Carbon Tetrachloride	0.518	0.608		17.38	20
cis-1,2-Dichloroethene	0.747	0.782		4.68	20
Bromochloromethane	0.613	0.597		-2.61	20
Chloroform	1.306	1.431		9.57	20
1,1,1-Trichloroethane	1.105	1.243		12.49	20
Methylcyclohexane	0.587	0.680		15.84	20
Benzene	1.463	1.586		8.41	20
1,2-Dichloroethane	0.604	0.686		13.58	20
Trichloroethene	0.348	0.388		11.49	20
1,2-Dichloropropane	0.365	0.412		12.88	20
Bromodichloromethane	0.560	0.647		15.54	20
4-Methyl-2-Pentanone	0.606	0.699		15.35	20
Toluene	0.885	0.989		11.75	20
t-1,3-Dichloropropene	0.467	0.593		26.98	20
cis-1,3-Dichloropropene	0.526	0.649		23.38	20
1,1,2-Trichloroethane	0.353	0.398		12.75	20
2-Hexanone	0.449	0.521		16.04	20
Dibromochloromethane	0.385	0.460		19.48	20
1,2-Dibromoethane	0.357	0.410		14.85	20
Tetrachloroethene	0.353	0.405		14.73	20
Chlorobenzene	1.068	1.251	0.3	17.14	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: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2025 11:06

Lab File ID: VX045972.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	2.266		18.39	20
m/p-Xylenes	0.696	0.830		19.25	20
o-Xylene	0.686	0.806		17.49	20
Styrene	1.132	1.379		21.82	20
Bromoform	0.277	0.351	0.1	26.72	20
Isopropylbenzene	4.005	4.316		7.76	20
1,1,2,2-Tetrachloroethane	1.407	1.407	0.3	0	20
1,3-Dichlorobenzene	1.684	1.834		8.91	20
1,4-Dichlorobenzene	1.708	1.848		8.2	20
1,2-Dichlorobenzene	1.675	1.817		8.48	20
1,2-Dibromo-3-Chloropropane	0.294	0.337		14.63	20
1,2,4-Trichlorobenzene	0.932	1.076		15.45	20
1,2,3-Trichlorobenzene	0.976	1.071		9.73	20
1,2-Dichloroethane-d4	0.914	0.918		0.44	20
Dibromofluoromethane	0.355	0.375		5.63	20
Toluene-d8	1.238	1.242		0.32	20
4-Bromofluorobenzene	0.451	0.499		10.64	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\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 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 : John Carlone 04/30/2025
 Supervised By : Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	79737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136469	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	117675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	73197	50.197	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.400%			
35) Dibromofluoromethane	5.379	113	51117	52.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.580%			
50) Toluene-d8	8.647	98	169543	50.167	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.340%			
62) 4-Bromofluorobenzene	11.079	95	68053	55.282	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.560%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	56766	47.604	ug/l	98
3) Chloromethane	1.307	50	57423	46.873	ug/l	99
4) Vinyl Chloride	1.374	62	53978	48.146	ug/l	98
5) Bromomethane	1.593	94	25884	48.692	ug/l	99
6) Chloroethane	1.672	64	31454	52.880	ug/l	97
7) Trichlorofluoromethane	1.873	101	89866	53.754	ug/l	99
8) Diethyl Ether	2.130	74	30270	53.930	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	54964	56.106	ug/l	97
10) Methyl Iodide	2.447	142	63754	52.175	ug/l	97
11) Tert butyl alcohol	2.965	59	53098	270.952	ug/l	99
12) 1,1-Dichloroethene	2.312	96	49544	51.757	ug/l	100
13) Acrolein	2.233	56	75463	279.636	ug/l	100
14) Allyl chloride	2.660	41	99721	54.905	ug/l	100
15) Acrylonitrile	3.056	53	162491	262.675	ug/l	99
16) Acetone	2.379	43	151511	253.037	ug/l	98
17) Carbon Disulfide	2.501	76	110415	46.702	ug/l	100
18) Methyl Acetate	2.703	43	90571	65.698	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	189229	56.510	ug/l	100
20) Methylene Chloride	2.782	84	57561	51.349	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	51382	52.541	ug/l	97
22) Diisopropyl ether	3.757	45	198823	55.572	ug/l	98
23) Vinyl Acetate	3.715	43	850445	275.122	ug/l	100
24) 1,1-Dichloroethane	3.605	63	107571	53.165	ug/l	99
25) 2-Butanone	4.550	43	230771	263.293	ug/l	99
26) 2,2-Dichloropropane	4.464	77	87140	66.657	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	62384	52.359	ug/l	96
28) Bromochloromethane	4.891	49	47599	48.681	ug/l	100
29) Tetrahydrofuran	4.995	42	148589	261.485	ug/l	99
30) Chloroform	5.080	83	114100	54.804	ug/l	97
31) Cyclohexane	5.458	56	92482	51.702	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	99091	56.248	ug/l	98
36) 1,1-Dichloropropene	5.684	75	72464	55.429	ug/l	99
37) Ethyl Acetate	4.702	43	88255	53.569	ug/l	99
38) Carbon Tetrachloride	5.665	117	82968	58.722	ug/l	99
39) Methylcyclohexane	7.372	83	92768	57.889	ug/l	97
40) Benzene	6.031	78	216404	54.200	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 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 :John Carlone 04/30/2025

Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	51041	58.717	ug/l	99
42) 1,2-Dichloroethane	6.080	62	93623	56.772	ug/l	99
43) Isopropyl Acetate	6.330	43	144726	57.960	ug/l	100
44) Trichloroethene	7.116	130	52937	55.782	ug/l	96
45) 1,2-Dichloropropane	7.421	63	56203	56.416	ug/l	96
46) Dibromomethane	7.574	93	42353	55.382	ug/l	96
47) Bromodichloromethane	7.818	83	88323	57.832	ug/l	96
48) Methyl methacrylate	7.689	41	76108	59.033	ug/l	97
49) 1,4-Dioxane	7.653	88	26261	1125.825	ug/l	99
51) 4-Methyl-2-Pentanone	8.567	43	476758	288.016	ug/l	100
52) Toluene	8.714	92	134979	55.869	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	80914	54.861	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	88605	61.738	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	54332	56.435	ug/l	98
56) Ethyl methacrylate	9.110	69	91177	61.194	ug/l	98
57) 1,3-Dichloropropane	9.305	76	95536	56.986	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	212209	281.546	ug/l	99
59) 2-Hexanone	9.427	43	355652	290.138	ug/l	100
60) Dibromochloromethane	9.518	129	62763	59.799	ug/l	98
61) 1,2-Dibromoethane	9.604	107	55889	57.346	ug/l	99
64) Tetrachloroethene	9.268	164	47656	57.360	ug/l	98
65) Chlorobenzene	10.073	112	147209	58.543	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	51417	58.897	ug/l	99
67) Ethyl Benzene	10.189	91	266645	59.208	ug/l	100
68) m/p-Xylenes	10.299	106	195402	119.295	ug/l	100
69) o-Xylene	10.640	106	94855	58.786	ug/l	98
70) Styrene	10.652	104	162328	60.953	ug/l	100
71) Bromoform	10.799	173	41279	63.327	ug/l #	100
73) Isopropylbenzene	10.957	105	257572	53.888	ug/l	100
74) N-amyl acetate	10.841	43	128947	56.397	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	83960	50.004	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	76347m	52.453	ug/l	
77) Bromobenzene	11.195	156	57154	51.752	ug/l	98
78) n-propylbenzene	11.299	91	304769	55.357	ug/l	100
79) 2-Chlorotoluene	11.360	91	184724	52.484	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	218314	55.235	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.012	75	24410	56.917	ug/l	97
82) 4-Chlorotoluene	11.451	91	215400	54.890	ug/l	100
83) tert-Butylbenzene	11.713	119	215941	55.184	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	222552	56.100	ug/l	99
85) sec-Butylbenzene	11.890	105	272612	56.721	ug/l	100
86) p-Isopropyltoluene	12.006	119	226257	57.101	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	109450	54.444	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	110289	54.115	ug/l	99
89) n-Butylbenzene	12.329	91	206242	60.023	ug/l	99
90) Hexachloroethane	12.536	117	39744	58.364	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	108406	54.239	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20090	57.211	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	64225	57.729	ug/l	97
94) Hexachlorobutadiene	13.725	225	28166	58.752	ug/l	96
95) Naphthalene	13.774	128	228737	55.249	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	63932	54.879	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045972.D
Acq On : 29 Apr 2025 11:06
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 :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

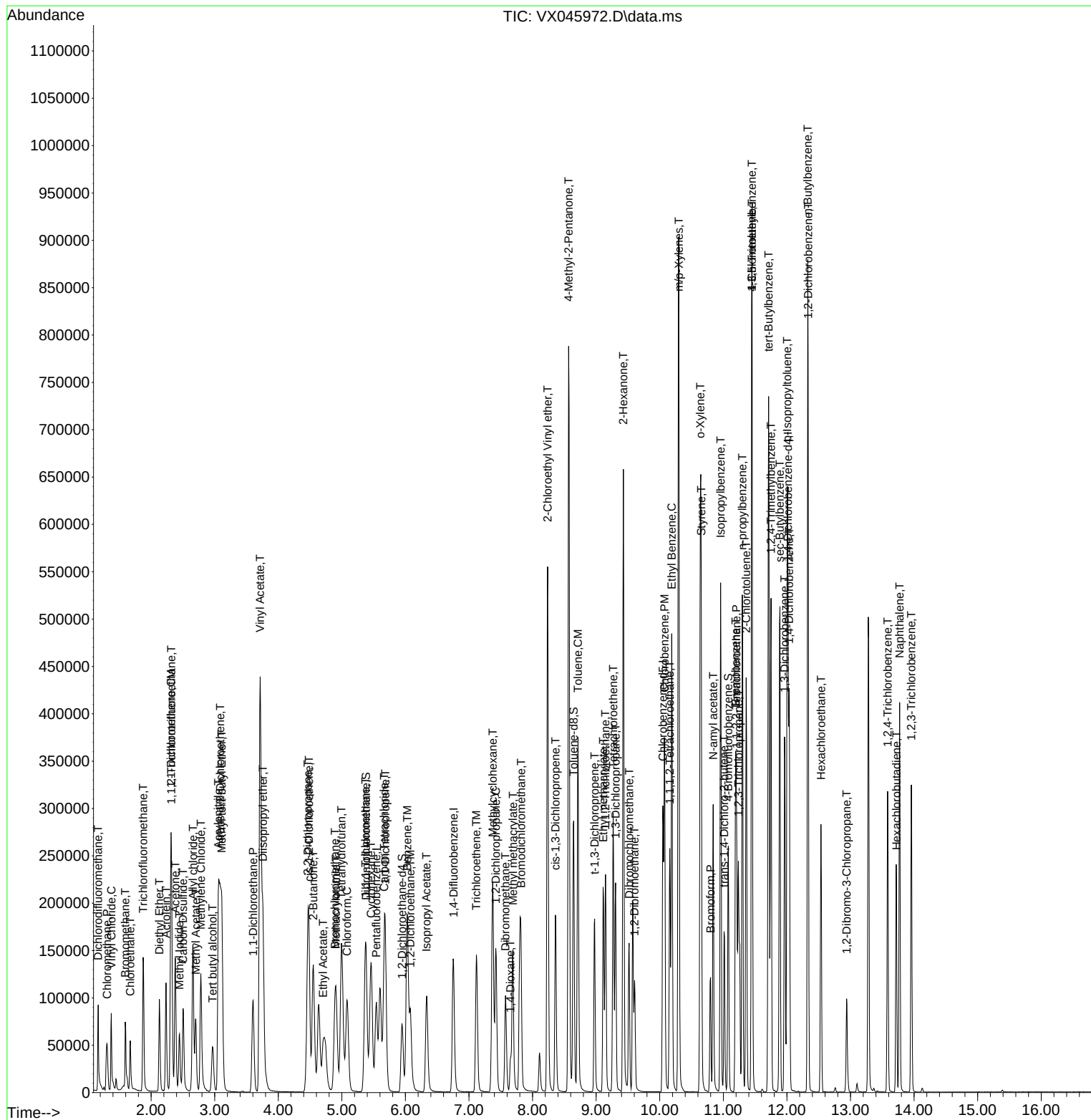
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045972.D
Acq On    : 29 Apr 2025  11:06
Operator  : JC/MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 2   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	83	0.00
2 T	Dichlorodifluoromethane	0.748	0.712	4.8	72	0.00
3 P	Chloromethane	0.768	0.720	6.3	77	0.00
4 C	Vinyl Chloride	0.703	0.677	3.7#	79	0.00
5 T	Bromomethane	0.333	0.325	2.4	82	0.00
6 T	Chloroethane	0.373	0.394	-5.6	83	0.00
7 T	Trichlorofluoromethane	1.048	1.127	-7.5	87	0.00
8 T	Diethyl Ether	0.352	0.380	-8.0	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.689	-12.2	92	0.00
10 T	Methyl Iodide	0.766	0.800	-4.4	83	0.00
11 T	Tert butyl alcohol	0.123	0.133	-8.1	88	-0.01
12 CM	1,1-Dichloroethene	0.600	0.621	-3.5#	86	0.00
13 T	Acrolein	0.169	0.189	-11.8	94	0.00
14 T	Allyl chloride	1.139	1.251	-9.8	89	0.00
15 T	Acrylonitrile	0.388	0.408	-5.2	84	0.00
16 T	Acetone	0.375	0.380	-1.3	84	0.00
17 T	Carbon Disulfide	1.483	1.385	6.6	74	0.00
18 T	Methyl Acetate	0.864	1.136	-31.5#	110	0.00
19 T	Methyl tert-butyl Ether	2.100	2.373	-13.0	93	0.00
20 T	Methylene Chloride	0.703	0.722	-2.7	85	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.644	-5.1	86	0.00
22 T	Diisopropyl ether	2.243	2.493	-11.1	91	0.00
23 T	Vinyl Acetate	1.938	2.133	-10.1	85	0.00
24 P	1,1-Dichloroethane	1.269	1.349	-6.3	89	0.00
25 T	2-Butanone	0.550	0.579	-5.3	82	0.00
26 T	2,2-Dichloropropane	0.820	1.093	-33.3#	108	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.782	-4.7	87	0.00
28 T	Bromochloromethane	0.613	0.597	2.6	83	0.00
29 T	Tetrahydrofuran	0.356	0.373	-4.8	84	0.00
30 C	Chloroform	1.306	1.431	-9.6#	91	0.00
31 T	Cyclohexane	1.122	1.160	-3.4	86	0.00
32 T	1,1,1-Trichloroethane	1.105	1.243	-12.5	93	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.918	-0.4	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35 S	Dibromofluoromethane	0.355	0.375	-5.6	88	0.00
36 T	1,1-Dichloropropene	0.479	0.531	-10.9	89	0.00
37 T	Ethyl Acetate	0.604	0.647	-7.1	84	-0.01
38 T	Carbon Tetrachloride	0.518	0.608	-17.4	92	0.00
39 T	Methylcyclohexane	0.587	0.680	-15.8	89	0.00
40 TM	Benzene	1.463	1.586	-8.4	87	0.00
41 T	Methacrylonitrile	0.318	0.374	-17.6	86	-0.01
42 TM	1,2-Dichloroethane	0.604	0.686	-13.6	90	0.00
43 T	Isopropyl Acetate	0.915	1.061	-16.0	88	0.00
44 TM	Trichloroethene	0.348	0.388	-11.5	90	0.00
45 C	1,2-Dichloropropane	0.365	0.412	-12.9#	89	0.00
46 T	Dibromomethane	0.280	0.310	-10.7	86	0.00
47 T	Bromodichloromethane	0.560	0.647	-15.5	92	0.00
48 T	Methyl methacrylate	0.472	0.558	-18.2	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	0.010	-11.1	84	0.00
50 S	Toluene-d8	1.238	1.242	-0.3	83	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.699	-15.3	85	0.00
52 CM	Toluene	0.885	0.989	-11.8#	88	0.00
53 T	t-1,3-Dichloropropene	0.467	0.593	-27.0#	95	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.649	-23.4	93	0.00
55 T	1,1,2-Trichloroethane	0.353	0.398	-12.7	90	0.00
56 T	Ethyl methacrylate	0.546	0.668	-22.3	90	0.00
57 T	1,3-Dichloropropane	0.614	0.700	-14.0	90	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.311	-12.7	85	0.00
59 T	2-Hexanone	0.449	0.521	-16.0	86	0.00
60 T	Dibromochloromethane	0.385	0.460	-19.5	91	0.00
61 T	1,2-Dibromoethane	0.357	0.410	-14.8	89	0.00
62 S	4-Bromofluorobenzene	0.451	0.499	-10.6	89	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00
64 T	Tetrachloroethene	0.353	0.405	-14.7	91	0.00
65 PM	Chlorobenzene	1.068	1.251	-17.1	90	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.437	-17.8	92	0.00
67 C	Ethyl Benzene	1.914	2.266	-18.4#	88	0.00
68 T	m/p-Xylenes	0.696	0.830	-19.3	89	0.00
69 T	o-Xylene	0.686	0.806	-17.5	88	0.00
70 T	Styrene	1.132	1.379	-21.8	89	0.00
71 P	Bromoform	0.277	0.351	-26.7#	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73 T	Isopropylbenzene	4.005	4.316	-7.8	90	0.00
74 T	N-amyl acetate	1.916	2.161	-12.8	91	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.407	0.0	88	0.00
76 T	1,2,3-Trichloropropane	1.220	1.279	-4.8	91	0.00
77 T	Bromobenzene	0.925	0.958	-3.6	89	0.00
78 T	n-propylbenzene	4.613	5.107	-10.7	90	0.00
79 T	2-Chlorotoluene	2.949	3.096	-5.0	91	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.659	-10.5	90	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.409	-13.9	96	0.00
82 T	4-Chlorotoluene	3.288	3.610	-9.8	91	0.00
83 T	tert-Butylbenzene	3.279	3.619	-10.4	92	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.730	-12.2	92	0.00
85 T	sec-Butylbenzene	4.027	4.569	-13.5	92	0.00
86 T	p-Isopropyltoluene	3.320	3.792	-14.2	93	0.00
87 T	1,3-Dichlorobenzene	1.684	1.834	-8.9	94	0.00
88 T	1,4-Dichlorobenzene	1.708	1.848	-8.2	94	0.00
89 T	n-Butylbenzene	2.879	3.456	-20.0	95	0.00
90 T	Hexachloroethane	0.571	0.666	-16.6	97	0.00
91 T	1,2-Dichlorobenzene	1.675	1.817	-8.5	94	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.337	-14.6	93	0.00
93 T	1,2,4-Trichlorobenzene	0.932	1.076	-15.5	99	0.00
94 T	Hexachlorobutadiene	0.402	0.472	-17.4	101	0.00
95 T	Naphthalene	3.469	3.833	-10.5	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045972.D
Acq On : 29 Apr 2025 11:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	0.976	1.071	-9.7	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	83	0.00
2 T	Dichlorodifluoromethane	50.000	47.604	4.8	72	0.00
3 P	Chloromethane	50.000	46.873	6.3	77	0.00
4 C	Vinyl Chloride	50.000	48.146	3.7#	79	0.00
5 T	Bromomethane	50.000	48.692	2.6	82	0.00
6 T	Chloroethane	50.000	52.880	-5.8	83	0.00
7 T	Trichlorofluoromethane	50.000	53.754	-7.5	87	0.00
8 T	Diethyl Ether	50.000	53.930	-7.9	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	56.106	-12.2	92	0.00
10 T	Methyl Iodide	50.000	52.175	-4.3	83	0.00
11 T	Tert butyl alcohol	250.000	270.952	-8.4	88	-0.01
12 CM	1,1-Dichloroethene	50.000	51.757	-3.5#	86	0.00
13 T	Acrolein	250.000	279.636	-11.9	94	0.00
14 T	Allyl chloride	50.000	54.905	-9.8	89	0.00
15 T	Acrylonitrile	250.000	262.675	-5.1	84	0.00
16 T	Acetone	250.000	253.037	-1.2	84	0.00
17 T	Carbon Disulfide	50.000	46.702	6.6	74	0.00
18 T	Methyl Acetate	50.000	65.698	-31.4#	110	0.00
19 T	Methyl tert-butyl Ether	50.000	56.510	-13.0	93	0.00
20 T	Methylene Chloride	50.000	51.349	-2.7	85	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.541	-5.1	86	0.00
22 T	Diisopropyl ether	50.000	55.572	-11.1	91	0.00
23 T	Vinyl Acetate	250.000	275.122	-10.0	85	0.00
24 P	1,1-Dichloroethane	50.000	53.165	-6.3	89	0.00
25 T	2-Butanone	250.000	263.293	-5.3	82	0.00
26 T	2,2-Dichloropropane	50.000	66.657	-33.3#	108	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.359	-4.7	87	0.00
28 T	Bromochloromethane	50.000	48.681	2.6	83	0.00
29 T	Tetrahydrofuran	250.000	261.485	-4.6	84	0.00
30 C	Chloroform	50.000	54.804	-9.6#	91	0.00
31 T	Cyclohexane	50.000	51.702	-3.4	86	0.00
32 T	1,1,1-Trichloroethane	50.000	56.248	-12.5	93	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.197	-0.4	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35 S	Dibromofluoromethane	50.000	52.793	-5.6	88	0.00
36 T	1,1-Dichloropropene	50.000	55.429	-10.9	89	0.00
37 T	Ethyl Acetate	50.000	53.569	-7.1	84	-0.01
38 T	Carbon Tetrachloride	50.000	58.722	-17.4	92	0.00
39 T	Methylcyclohexane	50.000	57.889	-15.8	89	0.00
40 TM	Benzene	50.000	54.200	-8.4	87	0.00
41 T	Methacrylonitrile	50.000	58.717	-17.4	86	-0.01
42 TM	1,2-Dichloroethane	50.000	56.772	-13.5	90	0.00
43 T	Isopropyl Acetate	50.000	57.960	-15.9	88	0.00
44 TM	Trichloroethene	50.000	55.782	-11.6	90	0.00
45 C	1,2-Dichloropropane	50.000	56.416	-12.8#	89	0.00
46 T	Dibromomethane	50.000	55.382	-10.8	86	0.00
47 T	Bromodichloromethane	50.000	57.832	-15.7	92	0.00
48 T	Methyl methacrylate	50.000	59.033	-18.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045972.D
 Acq On : 29 Apr 2025 11:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 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	1125.825	-12.6	84	0.00
50 S	Toluene-d8	50.000	50.167	-0.3	83	0.00
51 T	4-Methyl-2-Pentanone	250.000	288.016	-15.2	85	0.00
52 CM	Toluene	50.000	55.869	-11.7#	88	0.00
53 T	t-1,3-Dichloropropene	50.000	54.861	-9.7	95	0.00
54 T	cis-1,3-Dichloropropene	50.000	61.738	-23.5	93	0.00
55 T	1,1,2-Trichloroethane	50.000	56.435	-12.9	90	0.00
56 T	Ethyl methacrylate	50.000	61.194	-22.4	90	0.00
57 T	1,3-Dichloropropane	50.000	56.986	-14.0	90	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	281.546	-12.6	85	0.00
59 T	2-Hexanone	250.000	290.138	-16.1	86	0.00
60 T	Dibromochloromethane	50.000	59.799	-19.6	91	0.00
61 T	1,2-Dibromoethane	50.000	57.346	-14.7	89	0.00
62 S	4-Bromofluorobenzene	50.000	55.282	-10.6	89	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	78	0.00
64 T	Tetrachloroethene	50.000	57.360	-14.7	91	0.00
65 PM	Chlorobenzene	50.000	58.543	-17.1	90	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	58.897	-17.8	92	0.00
67 C	Ethyl Benzene	50.000	59.208	-18.4#	88	0.00
68 T	m/p-Xylenes	100.000	119.295	-19.3	89	0.00
69 T	o-Xylene	50.000	58.786	-17.6	88	0.00
70 T	Styrene	50.000	60.953	-21.9	89	0.00
71 P	Bromoform	50.000	63.327	-26.7#	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73 T	Isopropylbenzene	50.000	53.888	-7.8	90	0.00
74 T	N-amyl acetate	50.000	56.397	-12.8	91	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.004	-0.0	88	0.00
76 T	1,2,3-Trichloropropane	50.000	52.453	-4.9	91	0.00
77 T	Bromobenzene	50.000	51.752	-3.5	89	0.00
78 T	n-propylbenzene	50.000	55.357	-10.7	90	0.00
79 T	2-Chlorotoluene	50.000	52.484	-5.0	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.235	-10.5	90	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.917	-13.8	96	0.00
82 T	4-Chlorotoluene	50.000	54.890	-9.8	91	0.00
83 T	tert-Butylbenzene	50.000	55.184	-10.4	92	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.100	-12.2	92	0.00
85 T	sec-Butylbenzene	50.000	56.721	-13.4	92	0.00
86 T	p-Isopropyltoluene	50.000	57.101	-14.2	93	0.00
87 T	1,3-Dichlorobenzene	50.000	54.444	-8.9	94	0.00
88 T	1,4-Dichlorobenzene	50.000	54.115	-8.2	94	0.00
89 T	n-Butylbenzene	50.000	60.023	-20.0	95	0.00
90 T	Hexachloroethane	50.000	58.364	-16.7	97	0.00
91 T	1,2-Dichlorobenzene	50.000	54.239	-8.5	94	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	57.211	-14.4	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	57.729	-15.5	99	0.00
94 T	Hexachlorobutadiene	50.000	58.752	-17.5	101	0.00
95 T	Naphthalene	50.000	55.249	-10.5	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045972.D
Acq On : 29 Apr 2025 11:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 30 01:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.879	-9.8	93	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: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 04/30/2025 09:20

Lab File ID: VY022070.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.426	0.361		-15.26	20
Chloromethane	0.607	0.597	0.1	-1.65	20
Vinyl Chloride	0.745	0.723		-2.95	20
Bromomethane	0.642	0.627		-2.34	20
Chloroethane	0.508	0.502		-1.18	20
Trichlorofluoromethane	0.983	0.946		-3.76	20
1,1,2-Trichlorotrifluoroethane	0.533	0.496		-6.94	20
1,1-Dichloroethene	0.497	0.459		-7.65	20
Acetone	0.070	0.061		-12.86	20
Carbon Disulfide	1.585	1.443		-8.96	20
Methyl tert-butyl Ether	1.113	1.095		-1.62	20
Methyl Acetate	0.216	0.257		18.98	20
Methylene Chloride	0.584	0.519		-11.13	20
trans-1,2-Dichloroethene	0.557	0.526		-5.57	20
1,1-Dichloroethane	0.893	0.845	0.1	-5.38	20
Cyclohexane	0.763	0.696		-8.78	20
2-Butanone	0.105	0.102		-2.86	20
Carbon Tetrachloride	0.530	0.543		2.45	20
cis-1,2-Dichloroethene	0.622	0.600		-3.54	20
Bromochloromethane	0.347	0.344		-0.87	20
Chloroform	0.990	0.980		-1.01	20
1,1,1-Trichloroethane	0.896	0.866		-3.35	20
Methylcyclohexane	0.558	0.556		-0.36	20
Benzene	1.387	1.433		3.32	20
1,2-Dichloroethane	0.343	0.359		4.66	20
Trichloroethene	0.384	0.385		0.26	20
1,2-Dichloropropane	0.307	0.321		4.56	20
Bromodichloromethane	0.480	0.508		5.83	20
4-Methyl-2-Pentanone	0.160	0.181		13.13	20
Toluene	0.898	0.944		5.12	20
t-1,3-Dichloropropene	0.411	0.436		6.08	20
cis-1,3-Dichloropropene	0.489	0.515		5.32	20
1,1,2-Trichloroethane	0.256	0.278		8.59	20
2-Hexanone	0.106	0.121		14.15	20
Dibromochloromethane	0.355	0.394		10.99	20
1,2-Dibromoethane	0.242	0.266		9.92	20
Tetrachloroethene	0.472	0.424		-10.17	20
Chlorobenzene	1.118	1.125	0.3	0.63	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: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: MSVOA_Y Calibration Date/Time: 04/30/2025 09:20

Lab File ID: VY022070.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.829	1.863		1.86	20
m/p-Xylenes	0.728	0.766		5.22	20
o-Xylene	0.671	0.703		4.77	20
Styrene	1.126	1.213		7.73	20
Bromoform	0.229	0.245	0.1	6.99	20
Isopropylbenzene	3.341	3.262		-2.37	20
1,1,2,2-Tetrachloroethane	0.563	0.583	0.3	3.55	20
1,3-Dichlorobenzene	1.714	1.713		-0.06	20
1,4-Dichlorobenzene	1.698	1.666		-1.88	20
1,2-Dichlorobenzene	1.495	1.499		0.27	20
1,2-Dibromo-3-Chloropropane	0.090	0.085		-5.56	20
1,2,4-Trichlorobenzene	0.847	0.852		0.59	20
1,2,3-Trichlorobenzene	0.731	0.750		2.6	20
1,2-Dichloroethane-d4	0.462	0.441		-4.55	20
Dibromofluoromethane	0.330	0.337		2.12	20
Toluene-d8	1.245	1.278		2.65	20
4-Bromofluorobenzene	0.419	0.436		4.06	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\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 : Semsettin Yesilyurt 05/05/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	299393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	438020	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	420486	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	233640	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	132181	47.797	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.600%		
35) Dibromofluoromethane	7.634	113	147788	51.071	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.140%		
50) Toluene-d8	10.103	98	559683	51.302	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.600%		
62) 4-Bromofluorobenzene	12.408	95	190816	51.957	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.920%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	108081	42.366	ug/l	99
3) Chloromethane	2.068	50	178783	49.217	ug/l	100
4) Vinyl Chloride	2.202	62	216428	48.485	ug/l	100
5) Bromomethane	2.592	94	187814	48.836	ug/l	98
6) Chloroethane	2.733	64	150261	49.426	ug/l	97
7) Trichlorofluoromethane	3.056	101	283309	48.131	ug/l	96
8) Diethyl Ether	3.452	74	69416	45.309	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	148356	46.461	ug/l	100
10) Methyl Iodide	4.001	142	176157	47.649	ug/l	98
11) Tert butyl alcohol	4.885	59	35315	232.610	ug/l	97
12) 1,1-Dichloroethene	3.787	96	137386	46.160	ug/l	98
13) Acrolein	3.659	56	54699	200.739	ug/l	98
14) Allyl chloride	4.385	41	156917	45.279	ug/l	100
15) Acrylonitrile	5.061	53	135947	242.384	ug/l	99
16) Acetone	3.885	43	90641	250.445	ug/l	92
17) Carbon Disulfide	4.104	76	432123	45.535	ug/l	99
18) Methyl Acetate	4.385	43	76934	59.556	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	327980	49.235	ug/l	97
20) Methylene Chloride	4.610	84	155331	44.420	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	157441	47.234	ug/l	97
22) Diisopropyl ether	6.019	45	377603	48.962	ug/l	98
23) Vinyl Acetate	5.964	43	1003286	241.385	ug/l	100
24) 1,1-Dichloroethane	5.909	63	252882	47.305	ug/l	98
25) 2-Butanone	6.896	43	153361	243.287	ug/l	98
26) 2,2-Dichloropropane	6.878	77	225811	48.194	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	179708	48.217	ug/l	100
28) Bromochloromethane	7.244	49	102944	49.578	ug/l	96
29) Tetrahydrofuran	7.262	42	103696	253.279	ug/l	97
30) Chloroform	7.421	83	293401	49.480	ug/l	98
31) Cyclohexane	7.701	56	208408	45.589	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	259359	48.346	ug/l	99
36) 1,1-Dichloropropene	7.835	75	196371	50.518	ug/l	99
37) Ethyl Acetate	6.988	43	71080	50.914	ug/l	96
38) Carbon Tetrachloride	7.817	117	237962	51.231	ug/l	95
39) Methylcyclohexane	9.109	83	243490	49.776	ug/l	97
40) Benzene	8.079	78	627597	51.650	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 :Semsettin Yesilyurt 05/05/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	40144	52.602	ug/l #	94
42) 1,2-Dichloroethane	8.158	62	157308	52.289	ug/l	100
43) Isopropyl Acetate	8.195	43	135943	50.705	ug/l	99
44) Trichloroethene	8.866	130	168626	50.102	ug/l	97
45) 1,2-Dichloropropane	9.140	63	140483	52.280	ug/l	98
46) Dibromomethane	9.231	93	90199	53.622	ug/l	99
47) Bromodichloromethane	9.420	83	222511	52.951	ug/l	100
48) Methyl methacrylate	9.219	41	67571	54.519	ug/l	97
49) 1,4-Dioxane	9.244	88	20304	1132.484	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	396361	282.021	ug/l	99
52) Toluene	10.170	92	413392	52.558	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	190828	52.943	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	225382	52.602	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	121699	54.162	ug/l	99
56) Ethyl methacrylate	10.438	69	140972	54.864	ug/l	99
57) 1,3-Dichloropropane	10.713	76	191332	53.116	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	357006	284.170	ug/l	99
59) 2-Hexanone	10.762	43	264777	285.628	ug/l	99
60) Dibromochloromethane	10.908	129	172741	55.529	ug/l	99
61) 1,2-Dibromoethane	11.012	107	116385	54.866	ug/l	99
64) Tetrachloroethene	10.646	164	178447	44.986	ug/l	98
65) Chlorobenzene	11.438	112	473007	50.303	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	171474	51.798	ug/l	99
67) Ethyl Benzene	11.518	91	783192	50.916	ug/l	100
68) m/p-Xylenes	11.627	106	644255	105.256	ug/l	98
69) o-Xylene	11.956	106	295659	52.408	ug/l	99
70) Styrene	11.969	104	510156	53.858	ug/l	100
71) Bromoform	12.133	173	103171	53.605	ug/l #	99
73) Isopropylbenzene	12.255	105	762153	48.826	ug/l	99
74) N-amyl acetate	12.072	43	124788	46.530	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	136259	51.775	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	98186m	49.063	ug/l	
77) Bromobenzene	12.530	156	194904	49.414	ug/l	99
78) n-propylbenzene	12.597	91	918969	49.435	ug/l	99
79) 2-Chlorotoluene	12.682	91	527372	48.782	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	649159	50.473	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	41416	49.837	ug/l	99
82) 4-Chlorotoluene	12.780	91	555914	49.467	ug/l	99
83) tert-Butylbenzene	12.999	119	583678	50.602	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	662815	51.523	ug/l	100
85) sec-Butylbenzene	13.176	105	836912	49.583	ug/l	99
86) p-Isopropyltoluene	13.292	119	721392	50.332	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	400335	49.973	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	389223	49.057	ug/l	99
89) n-Butylbenzene	13.615	91	631593	49.300	ug/l	99
90) Hexachloroethane	13.883	117	153517	48.750	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	350321	50.137	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19842	47.389	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	199131	50.292	ug/l	99
94) Hexachlorobutadiene	15.023	225	119697	49.134	ug/l	99
95) Naphthalene	15.145	128	340679	51.796	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	175304	51.291	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022070.D
Acq On : 30 Apr 2025 09:20
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 :Semsettin Yesilyurt 05/05/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 01 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

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

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

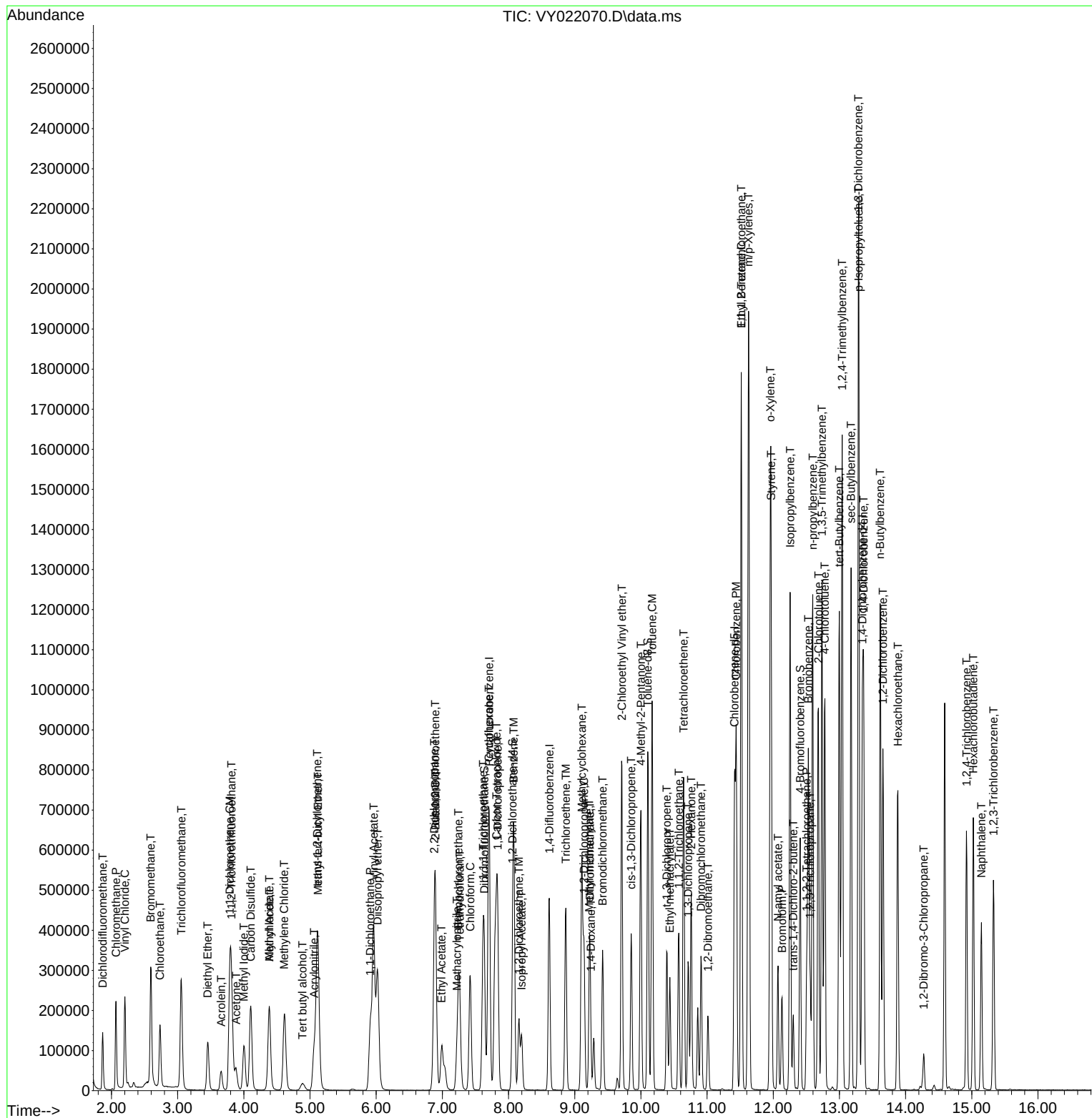
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022070.D
Acq On : 30 Apr 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

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

Quant Time: May 01 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	93	0.00
2 T	Dichlorodifluoromethane	0.426	0.361	15.3	86	0.00
3 P	Chloromethane	0.607	0.597	1.6	92	0.00
4 C	Vinyl Chloride	0.745	0.723	3.0#	92	0.00
5 T	Bromomethane	0.642	0.627	2.3	98	0.00
6 T	Chloroethane	0.508	0.502	1.2	95	0.00
7 T	Trichlorofluoromethane	0.983	0.946	3.8	92	0.00
8 T	Diethyl Ether	0.256	0.232	9.4	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.533	0.496	6.9	94	0.00
10 T	Methyl Iodide	0.617	0.588	4.7	87	0.00
11 T	Tert butyl alcohol	0.025	0.024	4.0	84	0.00
12 CM	1,1-Dichloroethene	0.497	0.459	7.6#	91	0.00
13 T	Acrolein	0.046	0.037	19.6	80	0.00
14 T	Allyl chloride	0.579	0.524	9.5	88	0.00
15 T	Acrylonitrile	0.094	0.091	3.2	91	0.00
16 T	Acetone	0.070	0.061	12.9	89	0.00
17 T	Carbon Disulfide	1.585	1.443	9.0	90	0.00
18 T	Methyl Acetate	0.216	0.257	-19.0	107	0.00
19 T	Methyl tert-butyl Ether	1.113	1.095	1.6	90	0.00
20 T	Methylene Chloride	0.584	0.519	11.1	91	0.00
21 T	trans-1,2-Dichloroethene	0.557	0.526	5.6	92	0.00
22 T	Diisopropyl ether	1.288	1.261	2.1	91	0.00
23 T	Vinyl Acetate	0.694	0.670	3.5	87	0.00
24 P	1,1-Dichloroethane	0.893	0.845	5.4	92	0.00
25 T	2-Butanone	0.105	0.102	2.9	90	0.00
26 T	2,2-Dichloropropane	0.782	0.754	3.6	95	0.00
27 T	cis-1,2-Dichloroethene	0.622	0.600	3.5	91	0.00
28 T	Bromochloromethane	0.347	0.344	0.9	93	0.00
29 T	Tetrahydrofuran	0.068	0.069	-1.5	88	0.00
30 C	Chloroform	0.990	0.980	1.0#	95	0.00
31 T	Cyclohexane	0.763	0.696	8.8	92	0.00
32 T	1,1,1-Trichloroethane	0.896	0.866	3.3	95	0.00
33 S	1,2-Dichloroethane-d4	0.462	0.441	4.5	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35 S	Dibromofluoromethane	0.330	0.337	-2.1	90	0.00
36 T	1,1-Dichloropropene	0.444	0.448	-0.9	92	0.00
37 T	Ethyl Acetate	0.159	0.162	-1.9	88	0.00
38 T	Carbon Tetrachloride	0.530	0.543	-2.5	94	0.00
39 T	Methylcyclohexane	0.558	0.556	0.4	89	0.00
40 TM	Benzene	1.387	1.433	-3.3	94	0.00
41 T	Methacrylonitrile	0.087	0.092	-5.7	87	0.00
42 TM	1,2-Dichloroethane	0.343	0.359	-4.7	94	0.00
43 T	Isopropyl Acetate	0.306	0.310	-1.3	87	0.00
44 TM	Trichloroethene	0.384	0.385	-0.3	92	0.00
45 C	1,2-Dichloropropane	0.307	0.321	-4.6#	94	0.00
46 T	Dibromomethane	0.192	0.206	-7.3	96	0.00
47 T	Bromodichloromethane	0.480	0.508	-5.8	95	0.00
48 T	Methyl methacrylate	0.141	0.154	-9.2	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	100	0.00
50 S	Toluene-d8	1.245	1.278	-2.7	88	0.00
51 T	4-Methyl-2-Pentanone	0.160	0.181	-13.1	92	0.00
52 CM	Toluene	0.898	0.944	-5.1#	93	0.00
53 T	t-1,3-Dichloropropene	0.411	0.436	-6.1	92	0.00
54 T	cis-1,3-Dichloropropene	0.489	0.515	-5.3	93	0.00
55 T	1,1,2-Trichloroethane	0.256	0.278	-8.6	95	0.00
56 T	Ethyl methacrylate	0.293	0.322	-9.9	89	0.00
57 T	1,3-Dichloropropane	0.411	0.437	-6.3	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.143	0.163	-14.0	89	0.00
59 T	2-Hexanone	0.106	0.121	-14.2	92	0.00
60 T	Dibromochloromethane	0.355	0.394	-11.0	98	0.00
61 T	1,2-Dibromoethane	0.242	0.266	-9.9	97	0.00
62 S	4-Bromofluorobenzene	0.419	0.436	-4.1	90	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64 T	Tetrachloroethene	0.472	0.424	10.2	85	0.00
65 PM	Chlorobenzene	1.118	1.125	-0.6	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.394	0.408	-3.6	97	0.00
67 C	Ethyl Benzene	1.829	1.863	-1.9#	93	0.00
68 T	m/p-Xylenes	0.728	0.766	-5.2	96	0.00
69 T	o-Xylene	0.671	0.703	-4.8	94	0.00
70 T	Styrene	1.126	1.213	-7.7	95	0.00
71 P	Bromoform	0.229	0.245	-7.0	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73 T	Isopropylbenzene	3.341	3.262	2.4	93	0.00
74 T	N-amyl acetate	0.574	0.534	7.0	86	0.00
75 P	1,1,2,2-Tetrachloroethane	0.563	0.583	-3.6	101	0.00
76 T	1,2,3-Trichloropropane	0.428	0.420	1.9	99	0.00
77 T	Bromobenzene	0.844	0.834	1.2	96	0.00
78 T	n-propylbenzene	3.978	3.933	1.1	94	0.00
79 T	2-Chlorotoluene	2.314	2.257	2.5	94	0.00
80 T	1,3,5-Trimethylbenzene	2.752	2.778	-0.9	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.178	0.177	0.6	95	0.00
82 T	4-Chlorotoluene	2.405	2.379	1.1	95	0.00
83 T	tert-Butylbenzene	2.468	2.498	-1.2	95	0.00
84 T	1,2,4-Trimethylbenzene	2.753	2.837	-3.1	97	0.00
85 T	sec-Butylbenzene	3.612	3.582	0.8	94	0.00
86 T	p-Isopropyltoluene	3.067	3.088	-0.7	95	0.00
87 T	1,3-Dichlorobenzene	1.714	1.713	0.1	99	0.00
88 T	1,4-Dichlorobenzene	1.698	1.666	1.9	98	0.00
89 T	n-Butylbenzene	2.742	2.703	1.4	94	0.00
90 T	Hexachloroethane	0.674	0.657	2.5	98	0.00
91 T	1,2-Dichlorobenzene	1.495	1.499	-0.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.090	0.085	5.6	96	0.00
93 T	1,2,4-Trichlorobenzene	0.847	0.852	-0.6	98	0.00
94 T	Hexachlorobutadiene	0.521	0.512	1.7	101	0.00
95 T	Naphthalene	1.408	1.458	-3.6	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022070.D
Acq On : 30 Apr 2025 09:20
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 01 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	0.731	0.750	-2.6	101	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	93	0.00
2 T	Dichlorodifluoromethane	50.000	42.366	15.3	86	0.00
3 P	Chloromethane	50.000	49.217	1.6	92	0.00
4 C	Vinyl Chloride	50.000	48.485	3.0#	92	0.00
5 T	Bromomethane	50.000	48.836	2.3	98	0.00
6 T	Chloroethane	50.000	49.426	1.1	95	0.00
7 T	Trichlorofluoromethane	50.000	48.131	3.7	92	0.00
8 T	Diethyl Ether	50.000	45.309	9.4	87	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.461	7.1	94	0.00
10 T	Methyl Iodide	50.000	47.649	4.7	87	0.00
11 T	Tert butyl alcohol	250.000	232.610	7.0	84	0.00
12 CM	1,1-Dichloroethene	50.000	46.160	7.7#	91	0.00
13 T	Acrolein	250.000	200.739	19.7	80	0.00
14 T	Allyl chloride	50.000	45.279	9.4	88	0.00
15 T	Acrylonitrile	250.000	242.384	3.0	91	0.00
16 T	Acetone	250.000	250.445	-0.2	89	0.00
17 T	Carbon Disulfide	50.000	45.535	8.9	90	0.00
18 T	Methyl Acetate	50.000	59.556	-19.1	107	0.00
19 T	Methyl tert-butyl Ether	50.000	49.235	1.5	90	0.00
20 T	Methylene Chloride	50.000	44.420	11.2	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.234	5.5	92	0.00
22 T	Diisopropyl ether	50.000	48.962	2.1	91	0.00
23 T	Vinyl Acetate	250.000	241.385	3.4	87	0.00
24 P	1,1-Dichloroethane	50.000	47.305	5.4	92	0.00
25 T	2-Butanone	250.000	243.287	2.7	90	0.00
26 T	2,2-Dichloropropane	50.000	48.194	3.6	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.217	3.6	91	0.00
28 T	Bromochloromethane	50.000	49.578	0.8	93	0.00
29 T	Tetrahydrofuran	250.000	253.279	-1.3	88	0.00
30 C	Chloroform	50.000	49.480	1.0#	95	0.00
31 T	Cyclohexane	50.000	45.589	8.8	92	0.00
32 T	1,1,1-Trichloroethane	50.000	48.346	3.3	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.797	4.4	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35 S	Dibromofluoromethane	50.000	51.071	-2.1	90	0.00
36 T	1,1-Dichloropropene	50.000	50.518	-1.0	92	0.00
37 T	Ethyl Acetate	50.000	50.914	-1.8	88	0.00
38 T	Carbon Tetrachloride	50.000	51.231	-2.5	94	0.00
39 T	Methylcyclohexane	50.000	49.776	0.4	89	0.00
40 TM	Benzene	50.000	51.650	-3.3	94	0.00
41 T	Methacrylonitrile	50.000	52.602	-5.2	87	0.00
42 TM	1,2-Dichloroethane	50.000	52.289	-4.6	94	0.00
43 T	Isopropyl Acetate	50.000	50.705	-1.4	87	0.00
44 TM	Trichloroethene	50.000	50.102	-0.2	92	0.00
45 C	1,2-Dichloropropane	50.000	52.280	-4.6#	94	0.00
46 T	Dibromomethane	50.000	53.622	-7.2	96	0.00
47 T	Bromodichloromethane	50.000	52.951	-5.9	95	0.00
48 T	Methyl methacrylate	50.000	54.519	-9.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022070.D
 Acq On : 30 Apr 2025 09:20
 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 01 01:30:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	1132.484	-13.2	100	0.00
50 S	Toluene-d8	50.000	51.302	-2.6	88	0.00
51 T	4-Methyl-2-Pentanone	250.000	282.021	-12.8	92	0.00
52 CM	Toluene	50.000	52.558	-5.1#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	52.943	-5.9	92	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.602	-5.2	93	0.00
55 T	1,1,2-Trichloroethane	50.000	54.162	-8.3	95	0.00
56 T	Ethyl methacrylate	50.000	54.864	-9.7	89	0.00
57 T	1,3-Dichloropropane	50.000	53.116	-6.2	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	284.170	-13.7	89	0.00
59 T	2-Hexanone	250.000	285.628	-14.3	92	0.00
60 T	Dibromochloromethane	50.000	55.529	-11.1	98	0.00
61 T	1,2-Dibromoethane	50.000	54.866	-9.7	97	0.00
62 S	4-Bromofluorobenzene	50.000	51.957	-3.9	90	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64 T	Tetrachloroethene	50.000	44.986	10.0	85	0.00
65 PM	Chlorobenzene	50.000	50.303	-0.6	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.798	-3.6	97	0.00
67 C	Ethyl Benzene	50.000	50.916	-1.8#	93	0.00
68 T	m/p-Xylenes	100.000	105.256	-5.3	96	0.00
69 T	o-Xylene	50.000	52.408	-4.8	94	0.00
70 T	Styrene	50.000	53.858	-7.7	95	0.00
71 P	Bromoform	50.000	53.605	-7.2	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	48.826	2.3	93	0.00
74 T	N-ethyl acetate	50.000	46.530	6.9	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.775	-3.5	101	0.00
76 T	1,2,3-Trichloropropane	50.000	49.063	1.9	99	0.00
77 T	Bromobenzene	50.000	49.414	1.2	96	0.00
78 T	n-propylbenzene	50.000	49.435	1.1	94	0.00
79 T	2-Chlorotoluene	50.000	48.782	2.4	94	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.473	-0.9	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.837	0.3	95	0.00
82 T	4-Chlorotoluene	50.000	49.467	1.1	95	0.00
83 T	tert-Butylbenzene	50.000	50.602	-1.2	95	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.523	-3.0	97	0.00
85 T	sec-Butylbenzene	50.000	49.583	0.8	94	0.00
86 T	p-Isopropyltoluene	50.000	50.332	-0.7	95	0.00
87 T	1,3-Dichlorobenzene	50.000	49.973	0.1	99	0.00
88 T	1,4-Dichlorobenzene	50.000	49.057	1.9	98	0.00
89 T	n-Butylbenzene	50.000	49.300	1.4	94	0.00
90 T	Hexachloroethane	50.000	48.750	2.5	98	0.00
91 T	1,2-Dichlorobenzene	50.000	50.137	-0.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.389	5.2	96	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.292	-0.6	98	0.00
94 T	Hexachlorobutadiene	50.000	49.134	1.7	101	0.00
95 T	Naphthalene	50.000	51.796	-3.6	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022070.D
Acq On : 30 Apr 2025 09:20
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 01 01:30:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	51.291	-2.6	101	0.00

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



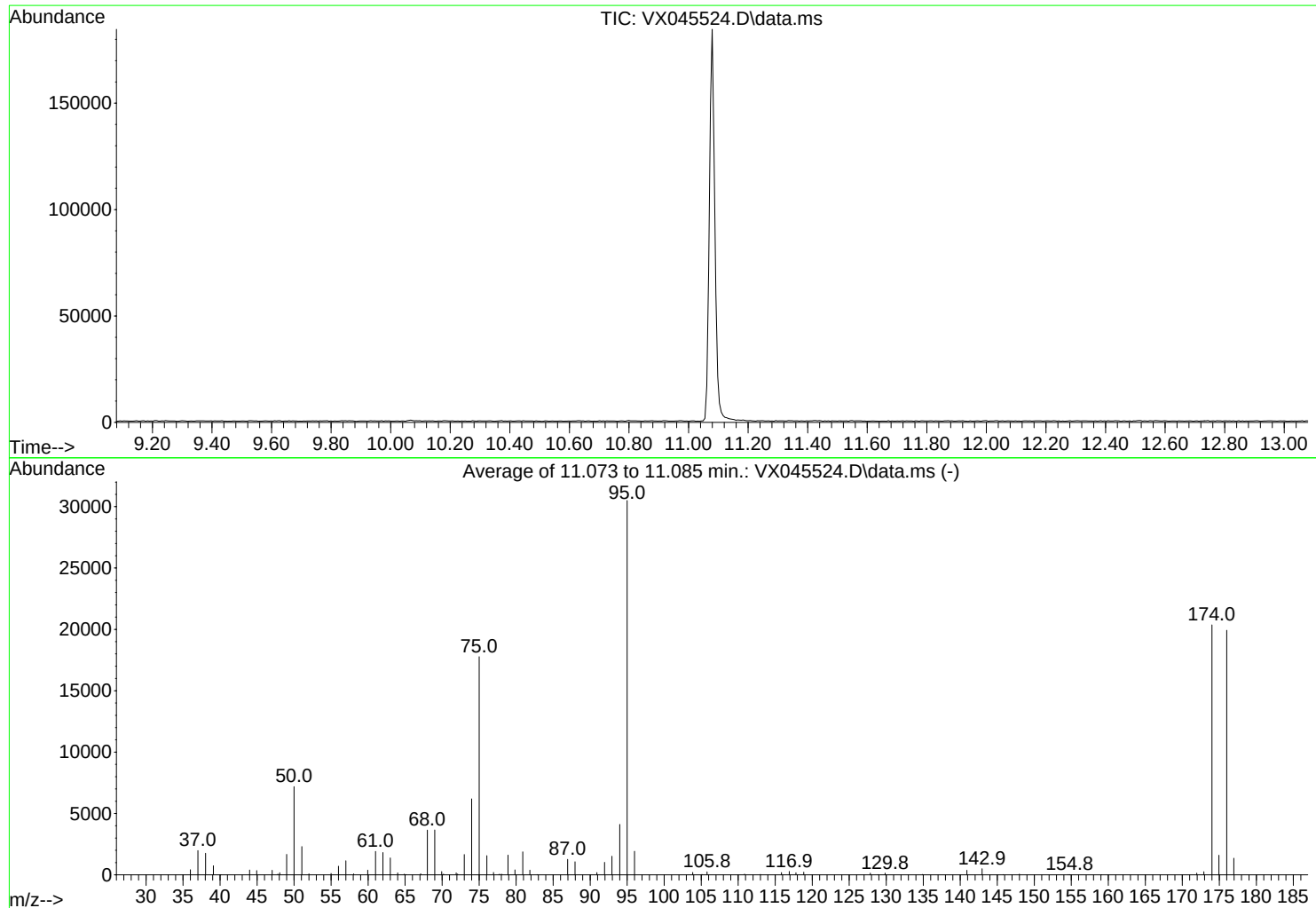
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045524.D
Acq On : 01 Apr 2025 16:15
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\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

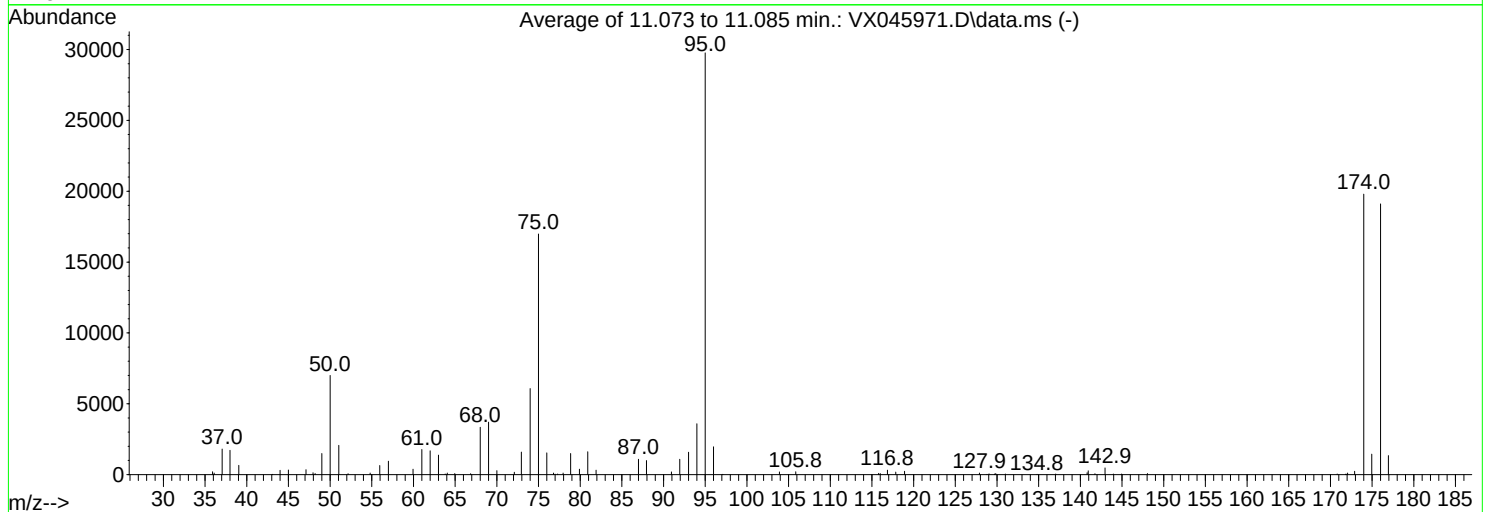
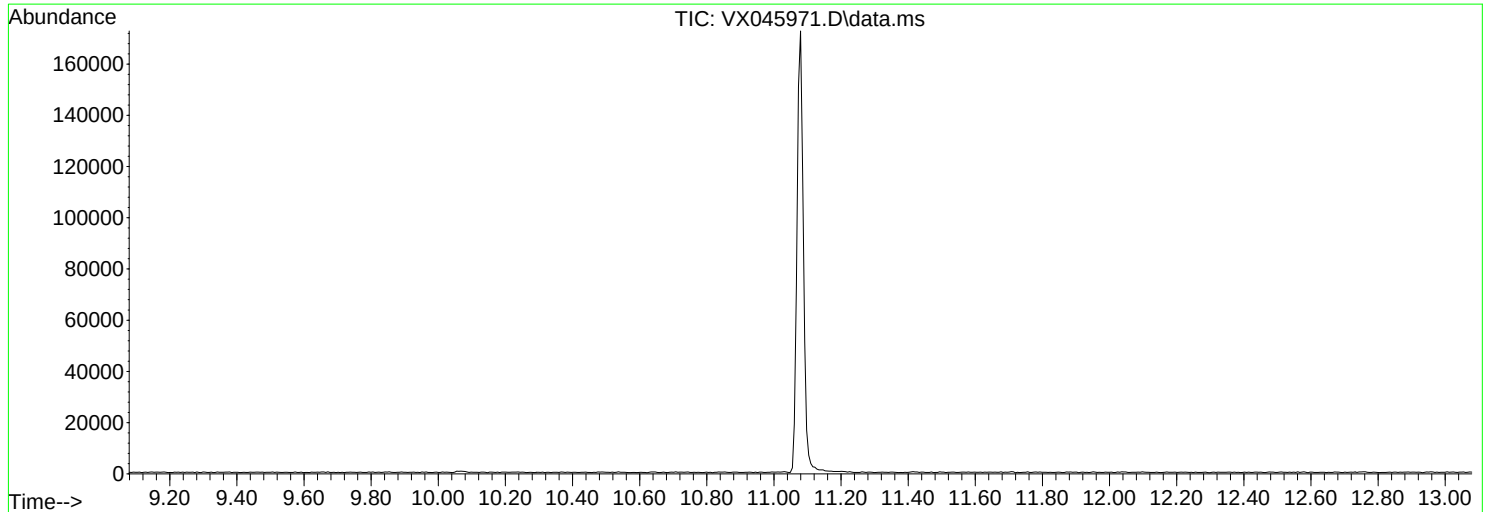
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	7184	PASS
75	95	30	60	58.2	17768	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	6.3	1916	PASS
173	174	0.00	2	1.2	253	PASS
174	95	50	100	66.8	20365	PASS
175	174	5	9	7.8	1596	PASS
176	174	95	101	97.8	19923	PASS
177	176	5	9	6.8	1352	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045971.D
Acq On : 29 Apr 2025 09:35
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\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

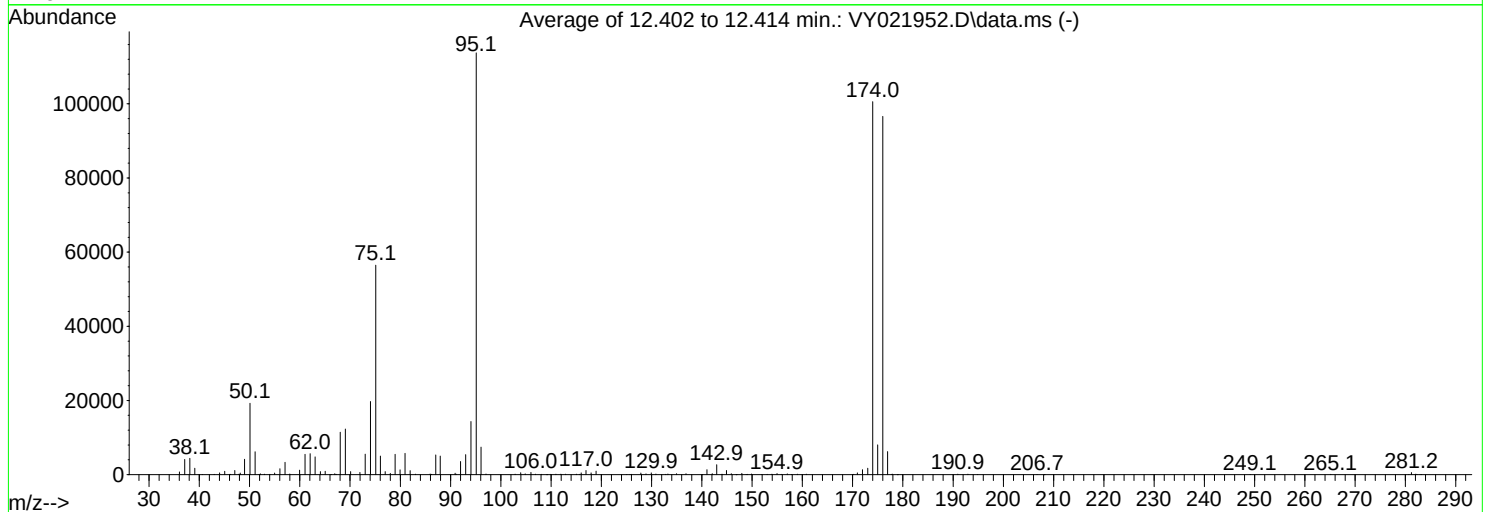
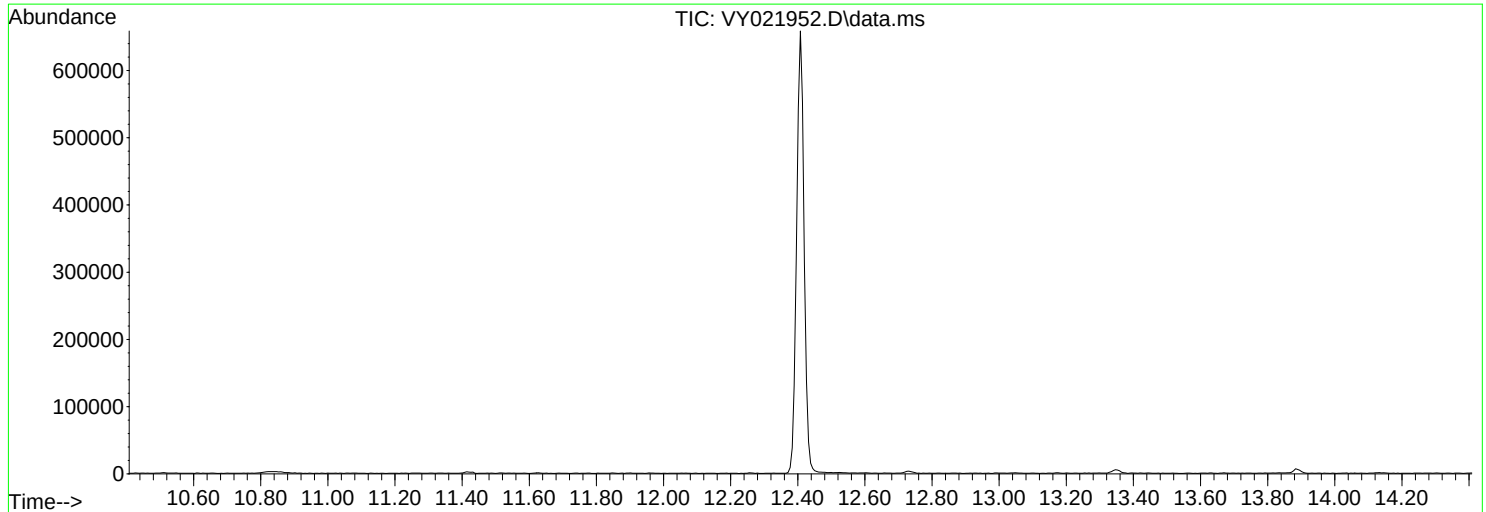
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	6997	PASS
75	95	30	60	57.1	16986	PASS
95	95	100	100	100.0	29765	PASS
96	95	5	9	6.6	1969	PASS
173	174	0.00	2	1.2	235	PASS
174	95	50	100	66.5	19795	PASS
175	174	5	9	7.3	1441	PASS
176	174	95	101	96.5	19107	PASS
177	176	5	9	7.0	1347	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021952.D
Acq On : 22 Apr 2025 11:33
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\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

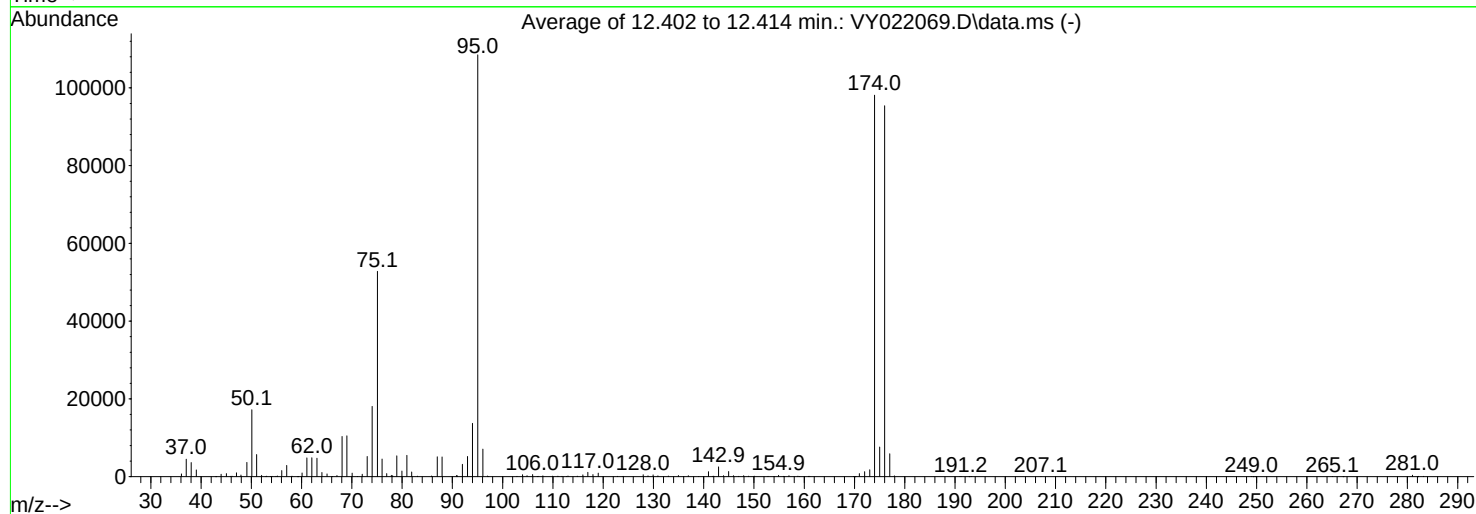
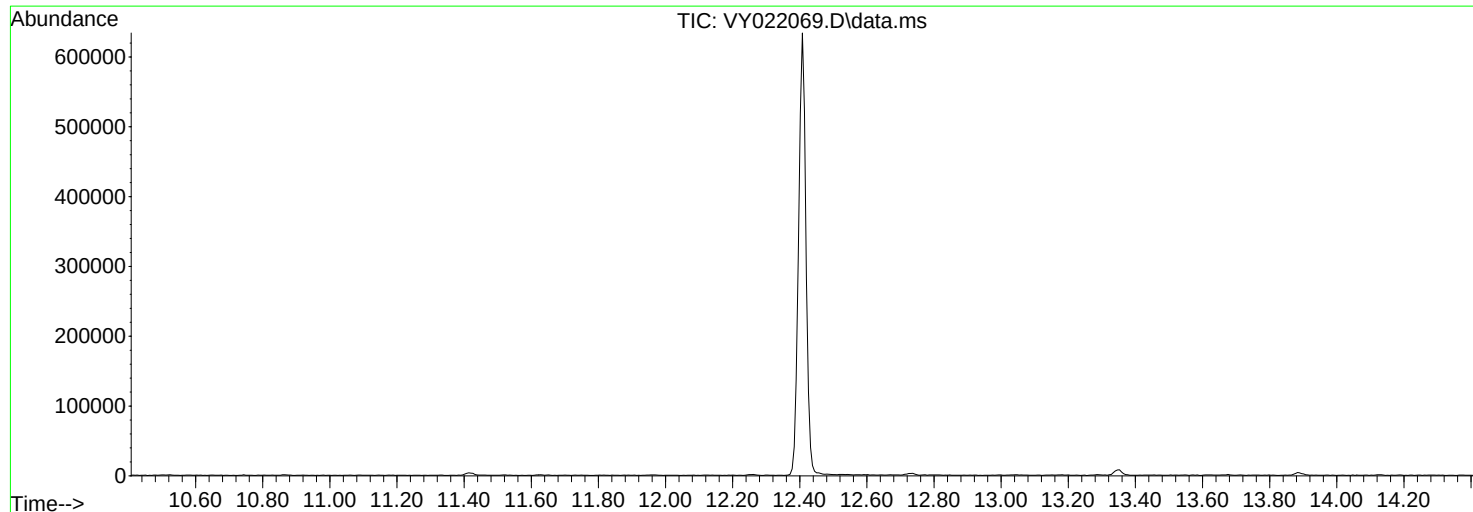
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	19237	PASS
75	95	30	60	49.7	56504	PASS
95	95	100	100	100.0	113749	PASS
96	95	5	9	6.5	7410	PASS
173	174	0.00	2	1.7	1741	PASS
174	95	50	100	88.4	100587	PASS
175	174	5	9	8.0	8046	PASS
176	174	95	101	96.1	96621	PASS
177	176	5	9	6.4	6205	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022069.D
Acq On : 30 Apr 2025 08:50
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\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 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	15.8	17188	PASS
75	95	30	60	48.7	52797	PASS
95	95	100	100	100.0	108504	PASS
96	95	5	9	6.5	7072	PASS
173	174	0.00	2	1.8	1783	PASS
174	95	50	100	90.5	98144	PASS
175	174	5	9	7.8	7624	PASS
176	174	95	101	97.2	95421	PASS
177	176	5	9	6.2	5905	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045974.D	1		04/29/25 11:58	VX042925

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:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0429WBL01		SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045974.D	1		04/29/25 11:58	VX042925

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	55.1		70 (74) - 130 (125)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63900	5.55			
540-36-3	1,4-Difluorobenzene	127000	6.757			
3114-55-4	Chlorobenzene-d5	117000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47900	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VX0429WBL01			SDG No.:	Q1901
Lab Sample ID:	VX0429WBL01			Matrix:	Water
Analytical Method:	SW8260			% 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
VX045974.D	1		04/29/25 11:58	VX042925

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\VX042925\
 Data File : VX045974.D
 Acq On : 29 Apr 2025 11:58
 Operator : JC/MD
 Sample : VX0429WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBL01

Quant Time: Apr 30 01:35:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	63902	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127024	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64358	55.073	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.140%
35) Dibromofluoromethane	5.379	113	46535	51.635	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.260%
50) Toluene-d8	8.647	98	156429	49.728	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.460%
62) 4-Bromofluorobenzene	11.079	95	57215	49.934	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.860%

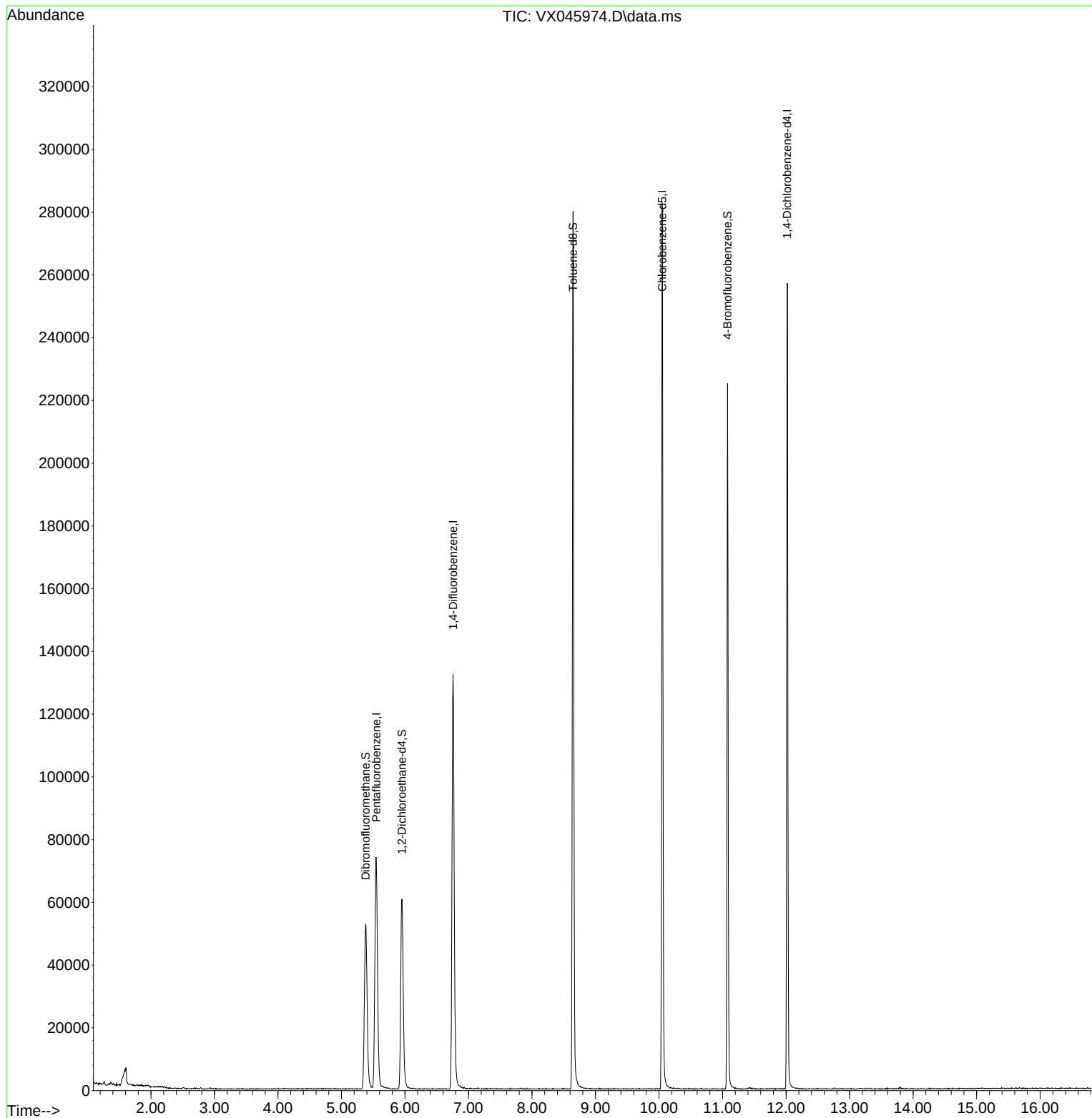
Target Compounds	Qvalue

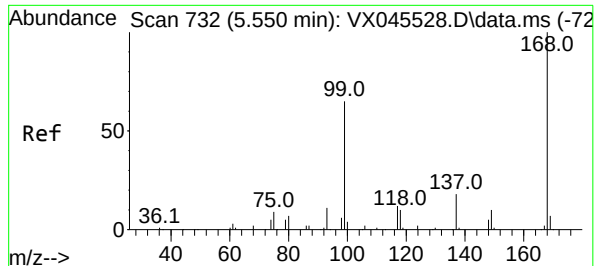
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Time: Apr 30 01:35:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.000 min

Lab File: VX045974.D

Acq: 29 Apr 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

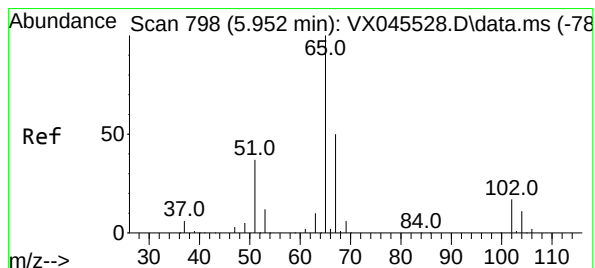
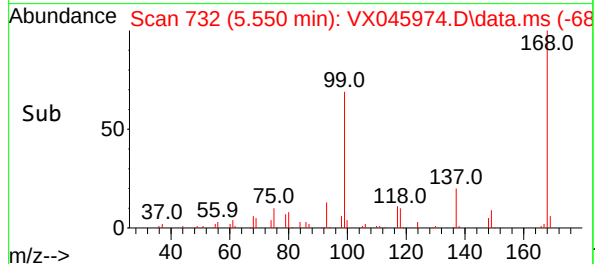
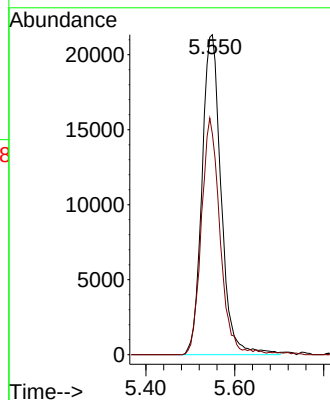
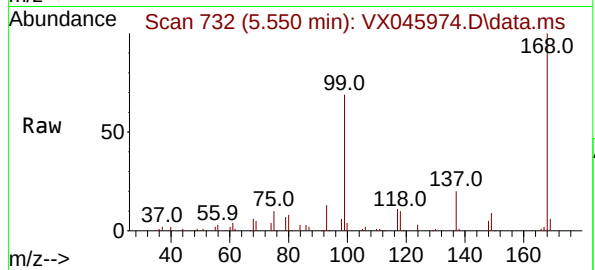
VX0429WBL01

Tgt Ion:168 Resp: 63902

Ion Ratio Lower Upper

168 100

99 69.0 52.3 78.5



#33

1,2-Dichloroethane-d4

Concen: 55.073 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045974.D

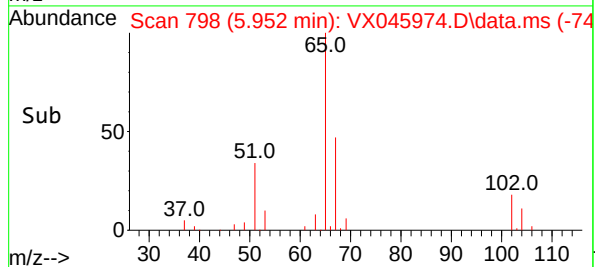
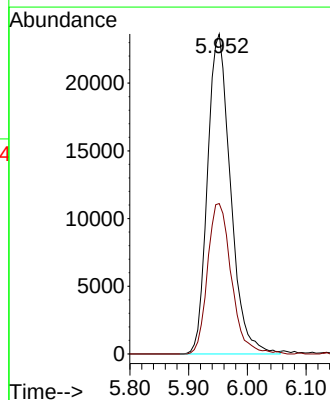
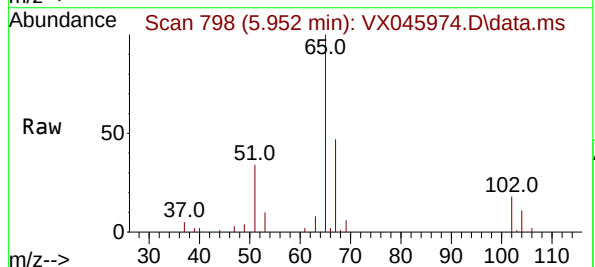
Acq: 29 Apr 2025 11:58

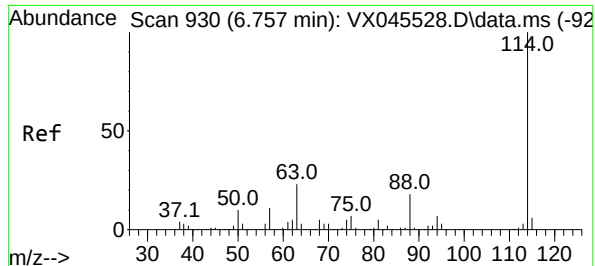
Tgt Ion: 65 Resp: 64358

Ion Ratio Lower Upper

65 100

67 48.7 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: VX045974.D

Acq: 29 Apr 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

VX0429WBL01

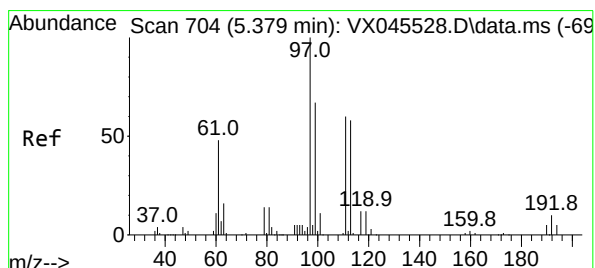
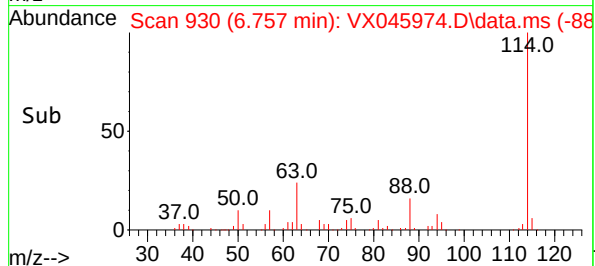
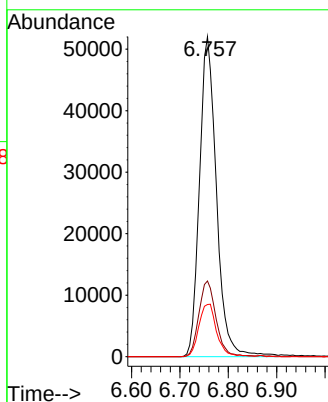
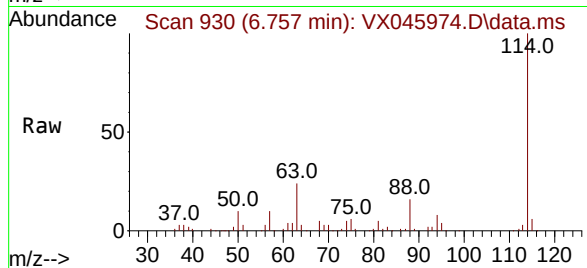
Tgt Ion:114 Resp: 127024

Ion Ratio Lower Upper

114 100

63 23.6 0.0 46.8

88 16.3 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.635 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045974.D

Acq: 29 Apr 2025 11:58

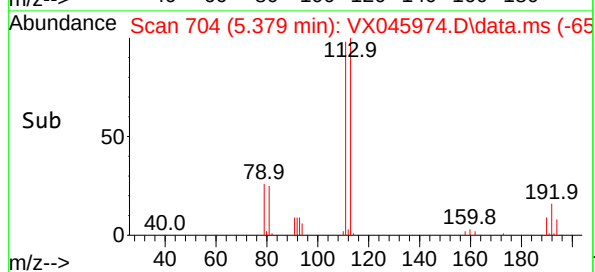
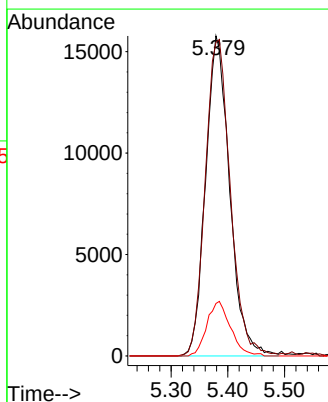
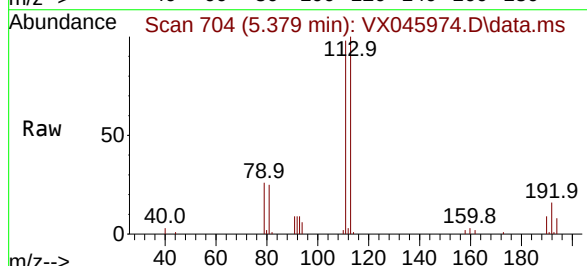
Tgt Ion:113 Resp: 46535

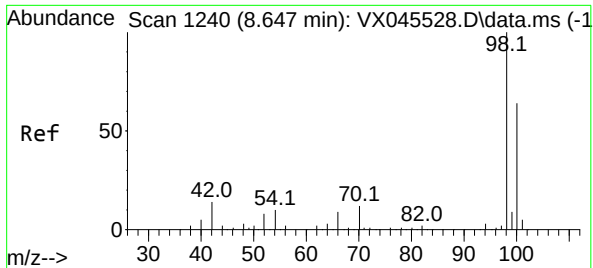
Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.6

192 16.7 13.8 20.6

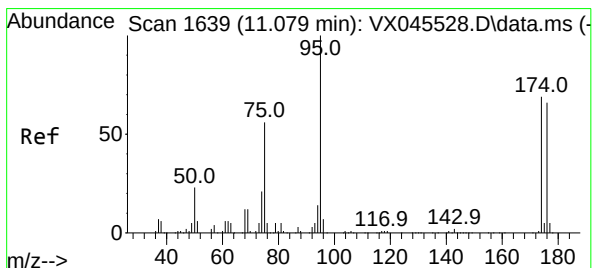
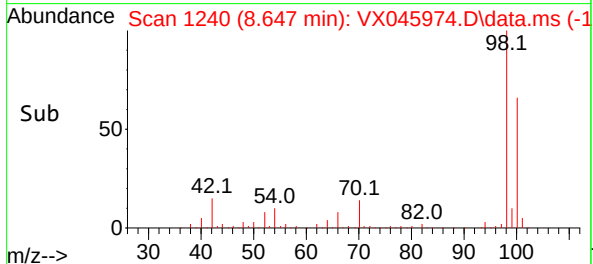
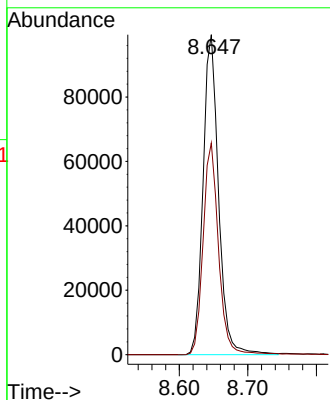
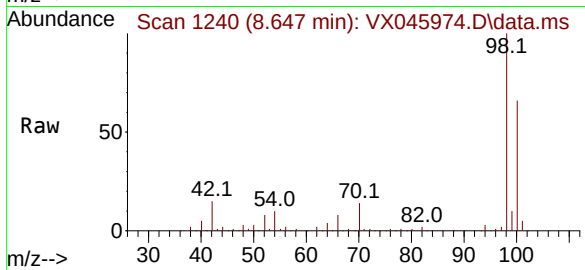




#50
Toluene-d8
Concen: 49.728 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

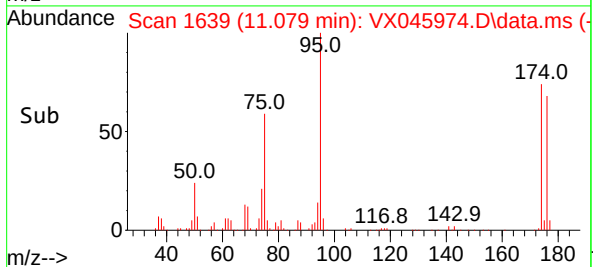
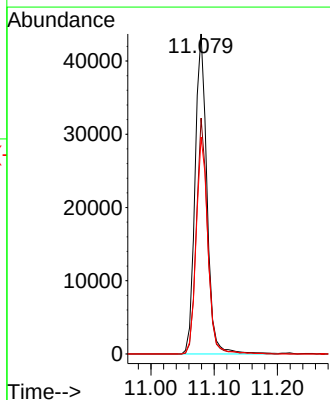
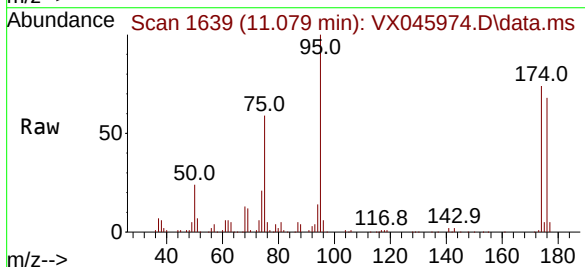
Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

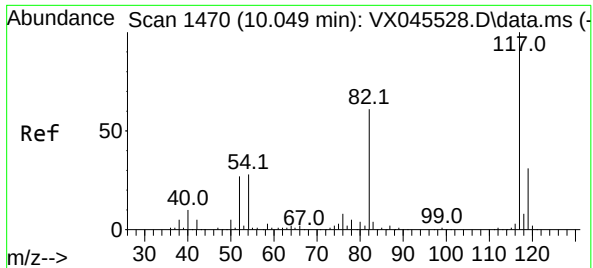
Tgt Ion: 98 Resp: 156429
Ion Ratio Lower Upper
98 100
100 66.1 52.2 78.4



#62
4-Bromofluorobenzene
Concen: 49.934 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion: 95 Resp: 57215
Ion Ratio Lower Upper
95 100
174 69.2 0.0 135.8
176 66.8 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: VX045974.D

Acq: 29 Apr 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

VX0429WBL01

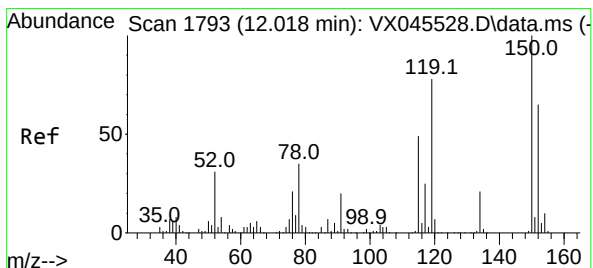
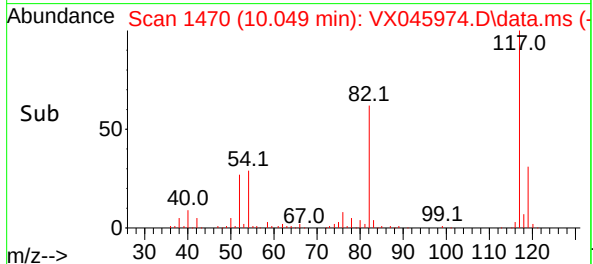
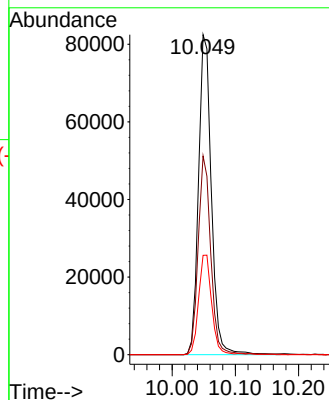
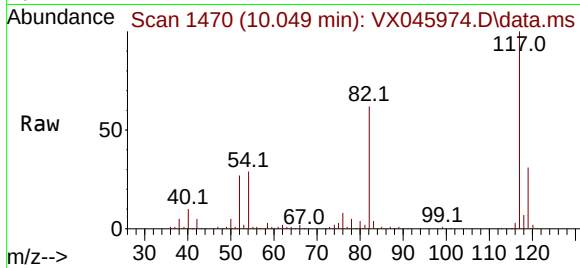
Tgt Ion:117 Resp: 116648

Ion Ratio Lower Upper

117 100

82 62.1 49.2 73.8

119 31.1 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045974.D

Acq: 29 Apr 2025 11:58

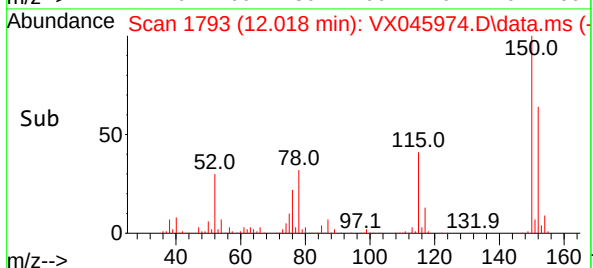
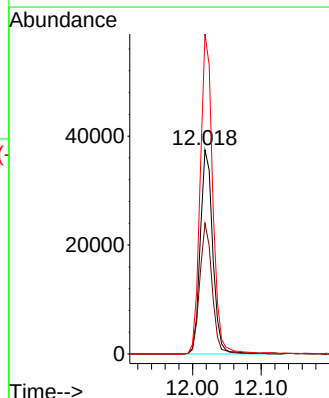
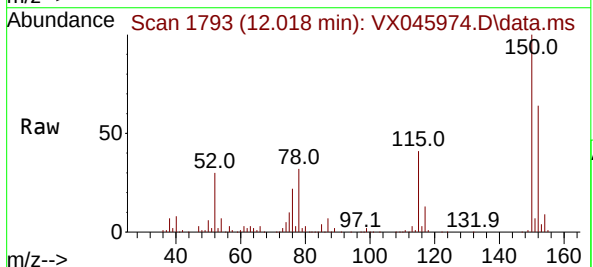
Tgt Ion:152 Resp: 47876

Ion Ratio Lower Upper

152 100

115 63.2 46.9 140.7

150 155.7 0.0 349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

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\82X040225W.M

Title : SW846 8260

Signal : TIC: VX045974.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	70	82	83	rBV4	5005	12957	2.94%	0.557%
2	1.605	83	85	88	rVB2	4539	4821	1.09%	0.207%
3	5.379	693	704	721	rBV	52386	158935	36.02%	6.827%
4	5.544	721	731	745	rBV	73483	211614	47.96%	9.089%
5	5.952	787	798	813	rBV	60594	167974	38.07%	7.215%
6	6.757	921	930	946	rBV2	132130	322044	72.99%	13.833%
7	8.647	1233	1240	1253	rBV	279678	441191	100.00%	18.951%
8	10.049	1465	1470	1489	rBV	282498	397007	89.99%	17.053%
9	11.079	1634	1639	1651	rBV	224816	286625	64.97%	12.311%
10	12.018	1788	1793	1808	rBV	256856	324949	73.65%	13.958%

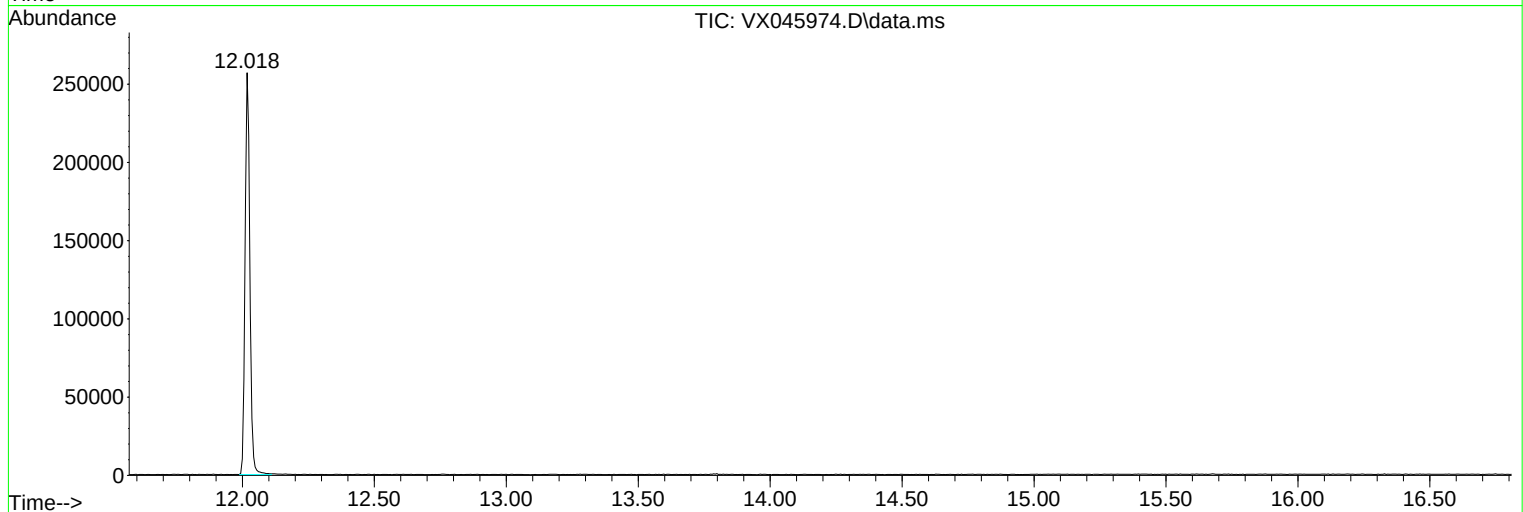
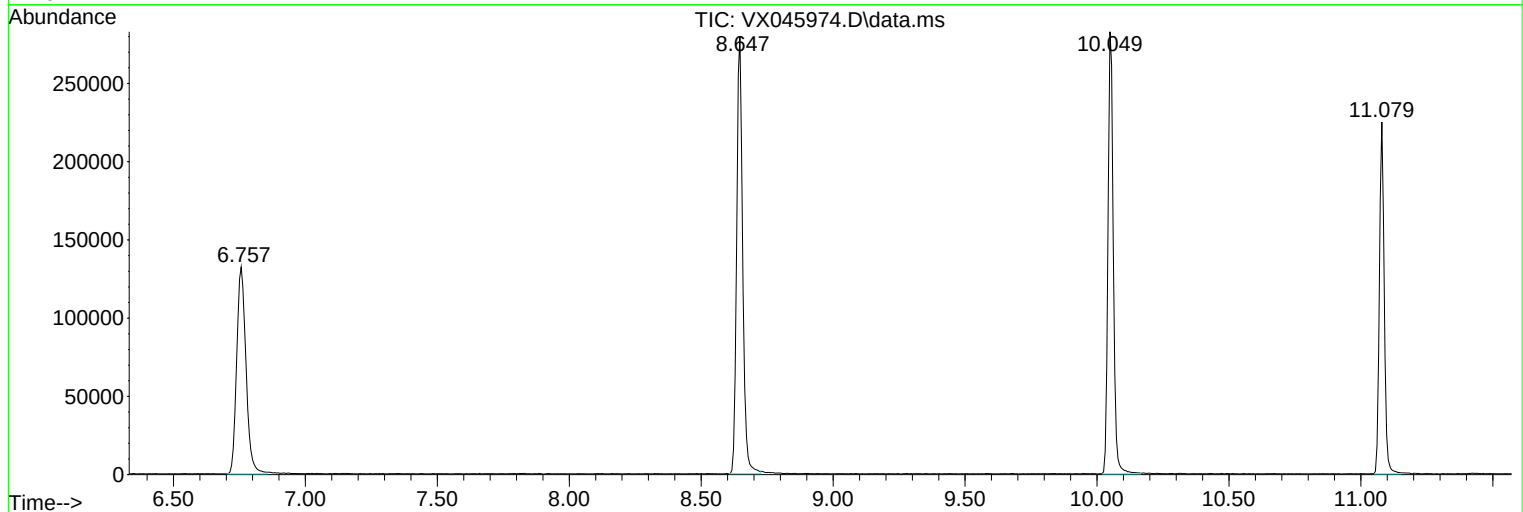
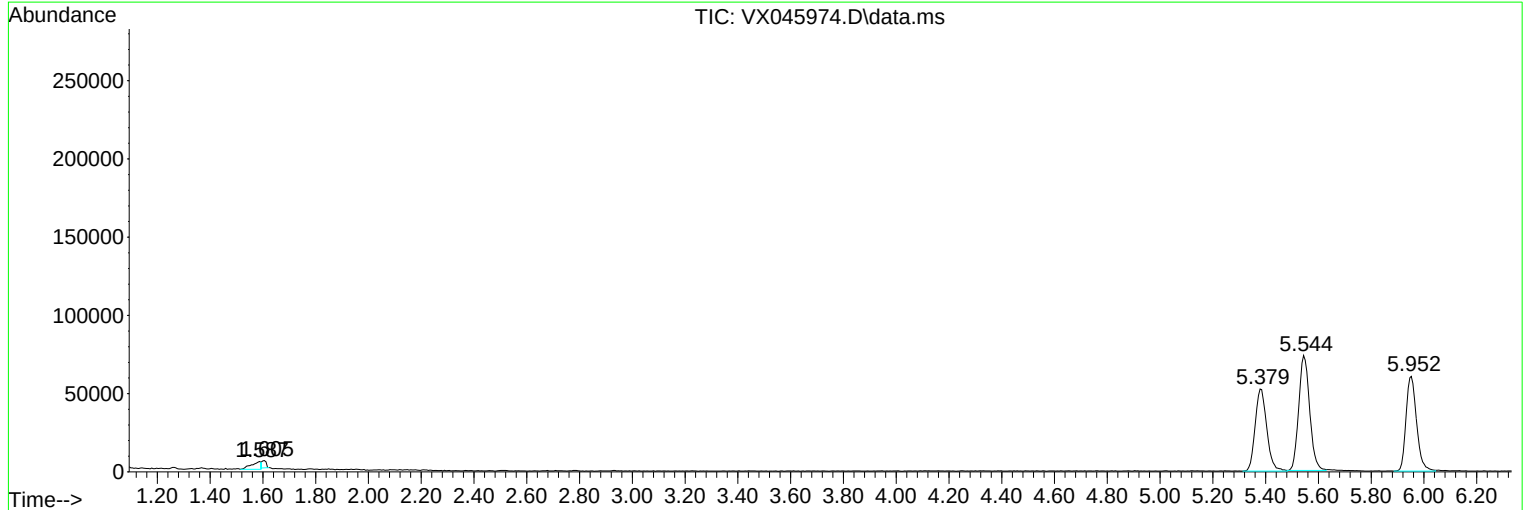
Sum of corrected areas: 2328117

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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\VX042925\
Data File : VX045974.D
Acq On : 29 Apr 2025 11:58
Operator : JC/MD
Sample : VX0429WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY022071.D	1		04/30/25 09:57	VY043025

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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022071.D	1		04/30/25 09:57	VY043025

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	52.3		70 (63) - 130 (155)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (38) - 130 (136)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.707			
540-36-3	1,4-Difluorobenzene	581000	8.616			
3114-55-4	Chlorobenzene-d5	511000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	187000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY022071.D	1		04/30/25 09:57	VY043025

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\VY043025\
 Data File : VY022071.D
 Acq On : 30 Apr 2025 09:57
 Operator : SY/MD
 Sample : VY0430SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0430SBL01

Quant Time: May 01 01:31:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	311598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	580894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	511027	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	186896	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150607	52.327	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.660%
35) Dibromofluoromethane	7.634	113	198874	51.821	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.640%
50) Toluene-d8	10.109	98	697047	48.178	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.360%
62) 4-Bromofluorobenzene	12.408	95	259683	53.317	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	106.640%

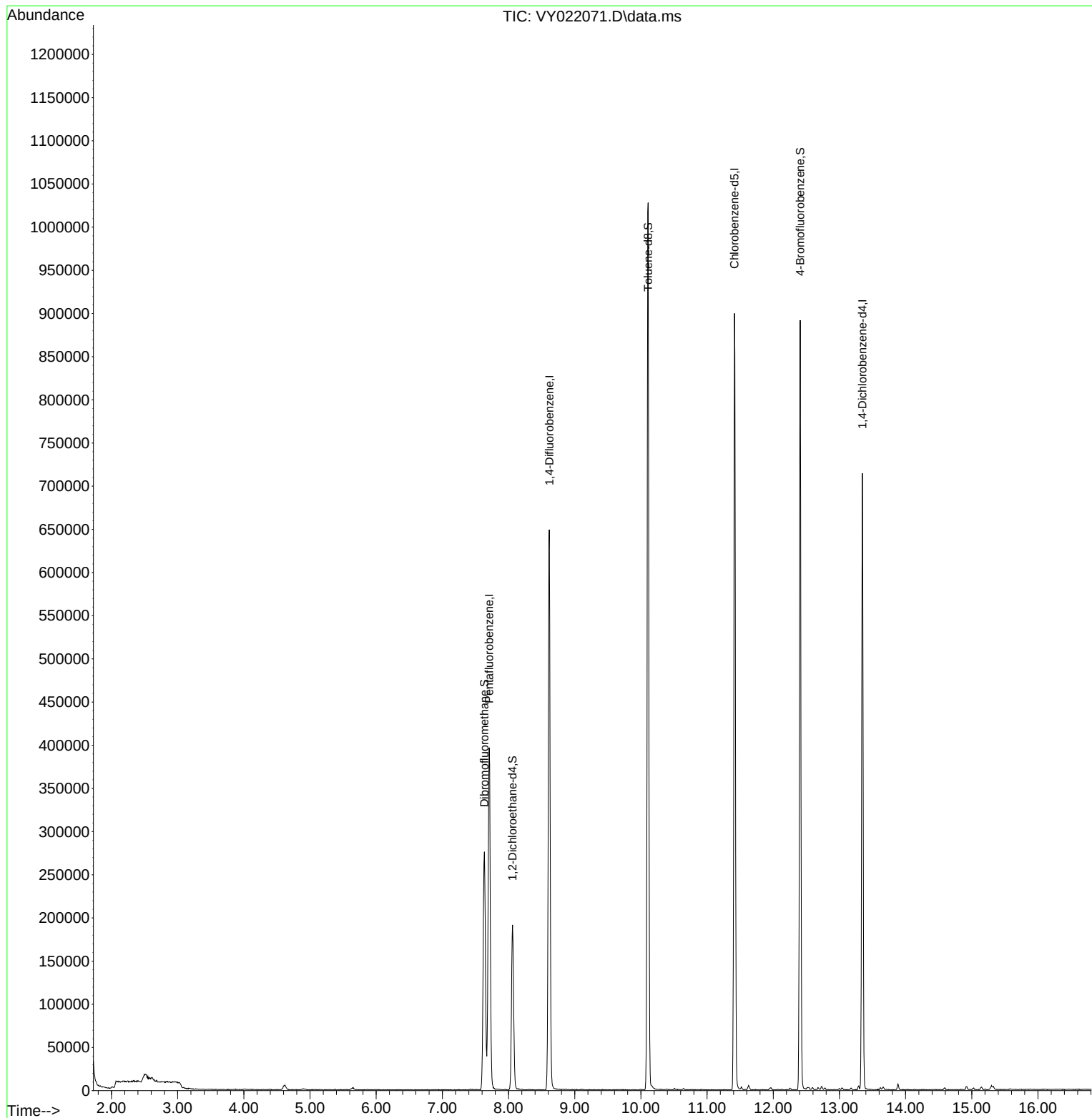
Target Compounds	Qvalue

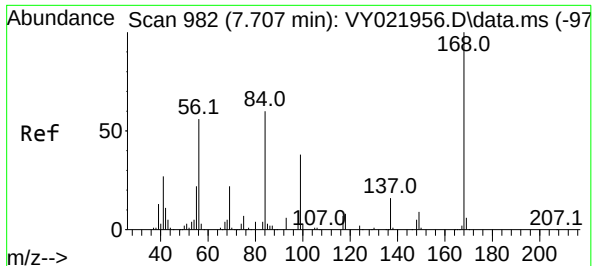
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Time: May 01 01:31:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

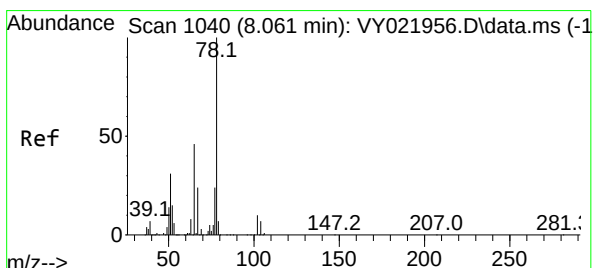
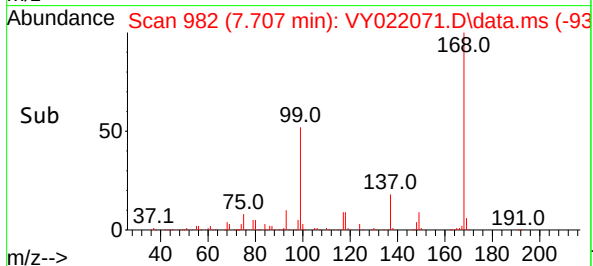
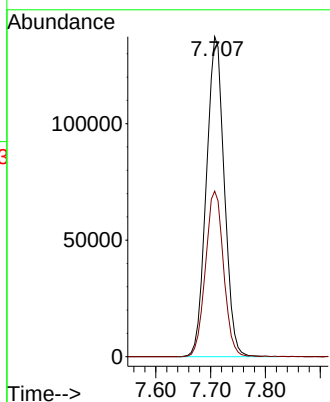
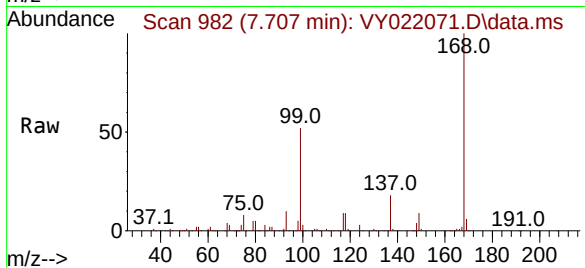




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

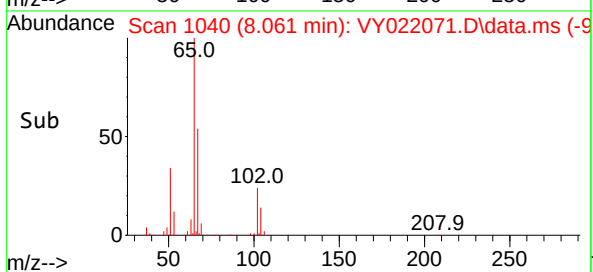
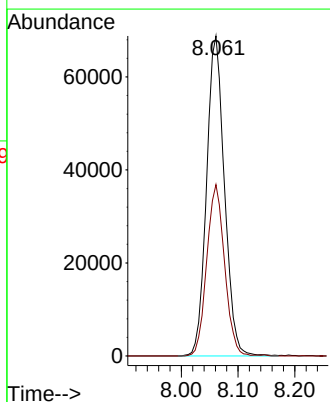
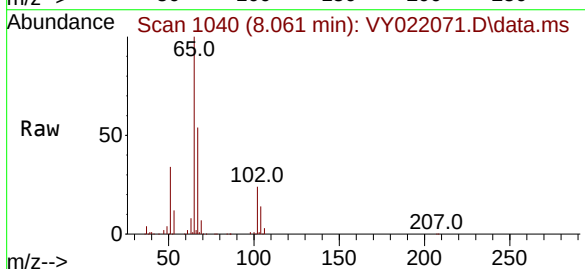
Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

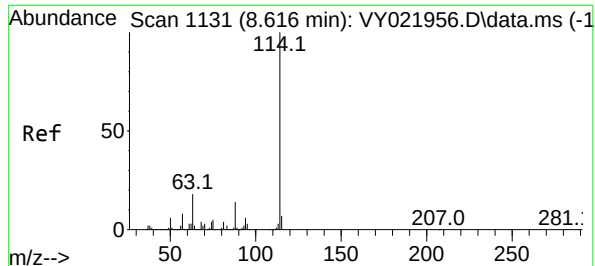
Tgt Ion:168 Resp: 311598
Ion Ratio Lower Upper
168 100
99 51.8 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 52.327 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion: 65 Resp: 150607
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022071.D

Acq: 30 Apr 2025 09:57

Instrument :

MSVOA_Y

ClientSampleId :

VY0430SBL01

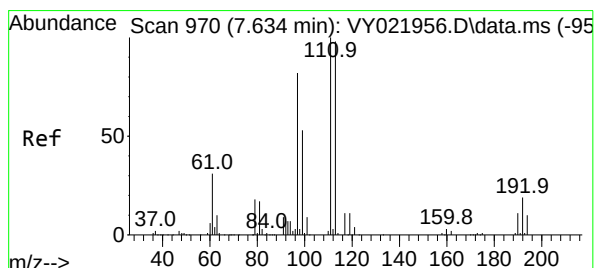
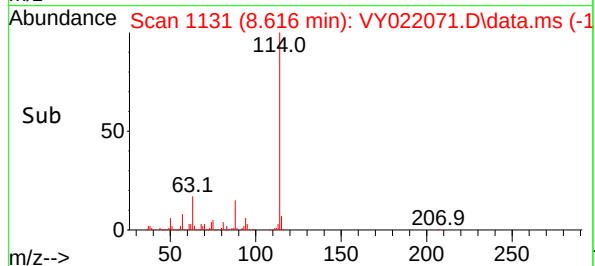
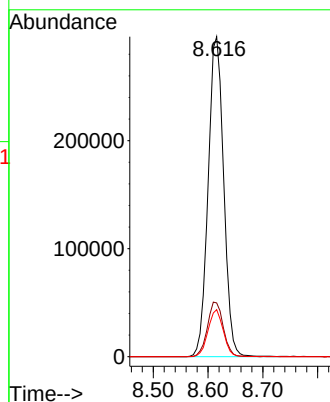
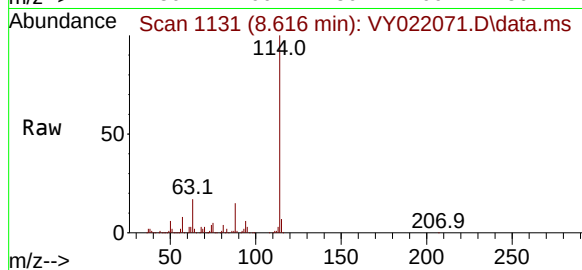
Tgt Ion:114 Resp: 580894

Ion Ratio Lower Upper

114 100

63 16.8 0.0 35.4

88 14.7 0.0 28.2



#35

Dibromofluoromethane

Concen: 51.821 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022071.D

Acq: 30 Apr 2025 09:57

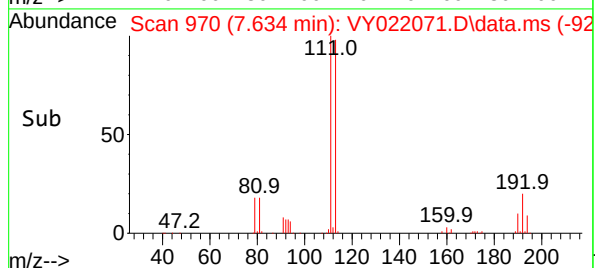
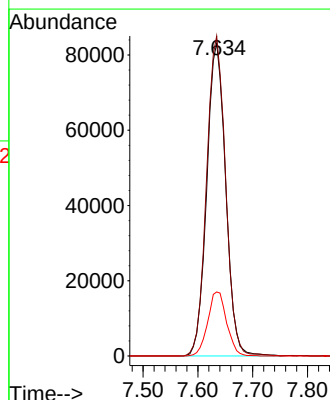
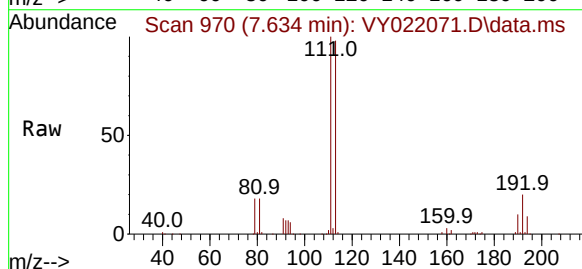
Tgt Ion:113 Resp: 198874

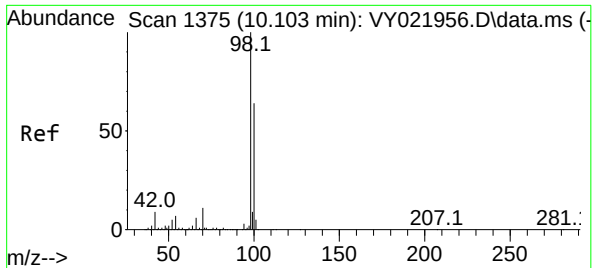
Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.8

192 20.5 15.6 23.4

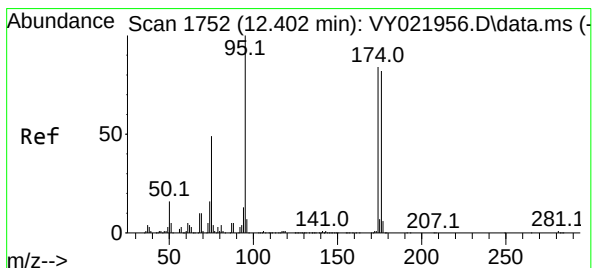
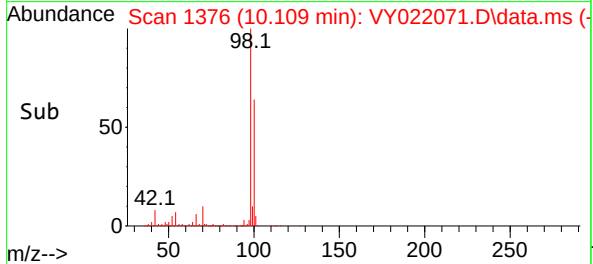
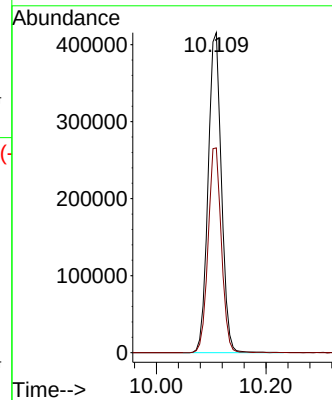
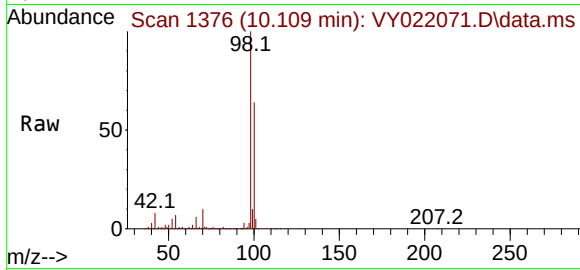




#50
Toluene-d8
Concen: 48.178 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

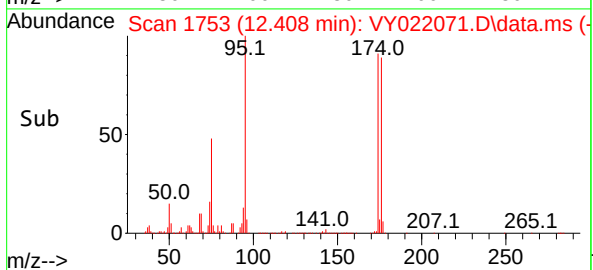
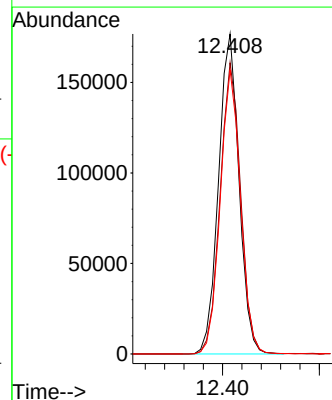
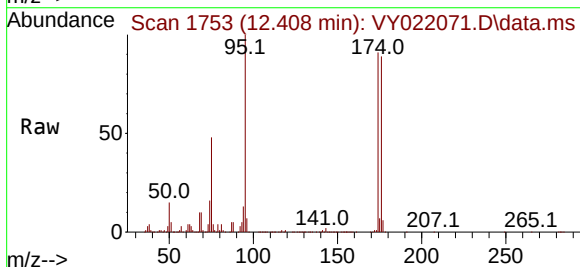
Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

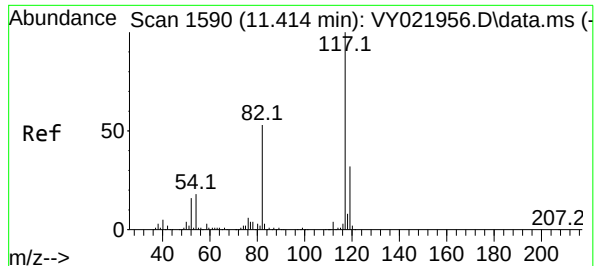
Tgt Ion: 98 Resp: 697047
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 53.317 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion: 95 Resp: 259683
Ion Ratio Lower Upper
95 100
174 91.2 0.0 179.0
176 87.8 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY022071.D

Acq: 30 Apr 2025 09:57

Instrument :

MSVOA_Y

ClientSampleId :

VY0430SBL01

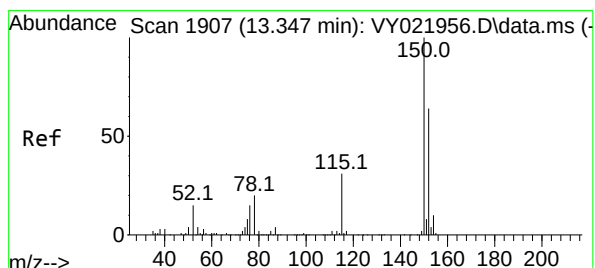
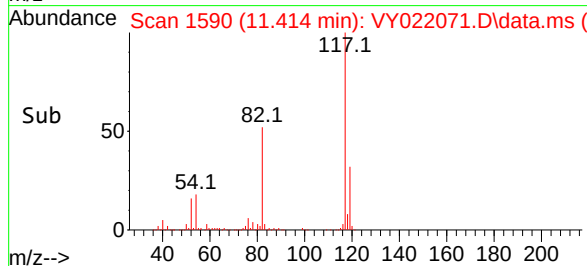
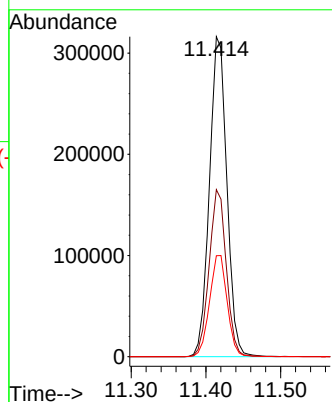
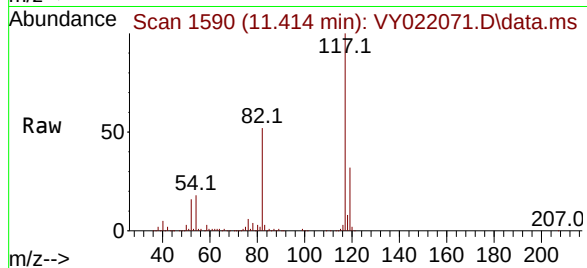
Tgt Ion:117 Resp: 511027

Ion Ratio Lower Upper

117 100

82 52.2 42.1 63.1

119 31.6 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022071.D

Acq: 30 Apr 2025 09:57

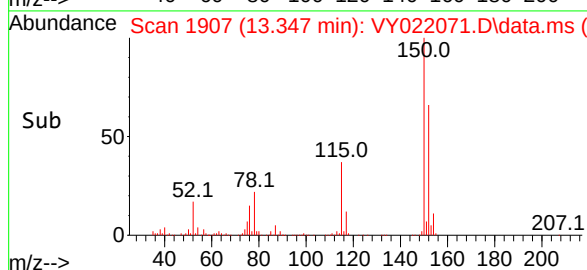
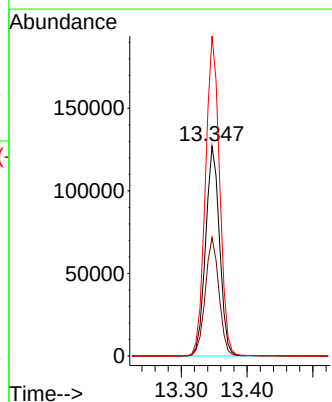
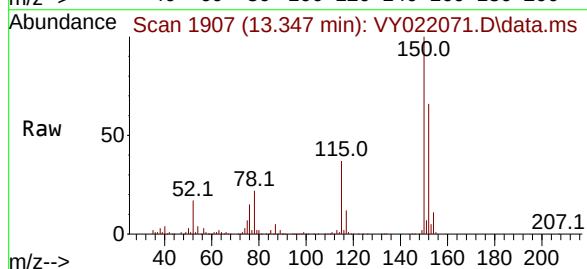
Tgt Ion:152 Resp: 186896

Ion Ratio Lower Upper

152 100

115 55.6 28.0 84.0

150 155.1 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

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\82Y042225S.M

Title : SW846 8260

Signal : TIC: VY022071.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.634	959	970	976	rBV	275568	662472	37.68%	7.480%
2	7.707	976	982	996	rVB	395565	894886	50.90%	10.104%
3	8.061	1030	1040	1051	rBV2	190974	427512	24.31%	4.827%
4	8.616	1122	1131	1144	rBV	648749	1273883	72.45%	14.384%
5	10.109	1367	1376	1395	rBV	1027561	1758262	100.00%	19.853%
6	11.414	1583	1590	1603	rBV	899099	1457691	82.91%	16.459%
7	12.408	1745	1753	1762	rBV	891073	1325837	75.41%	14.970%
8	13.347	1900	1907	1915	rBV	712938	1055872	60.05%	11.922%

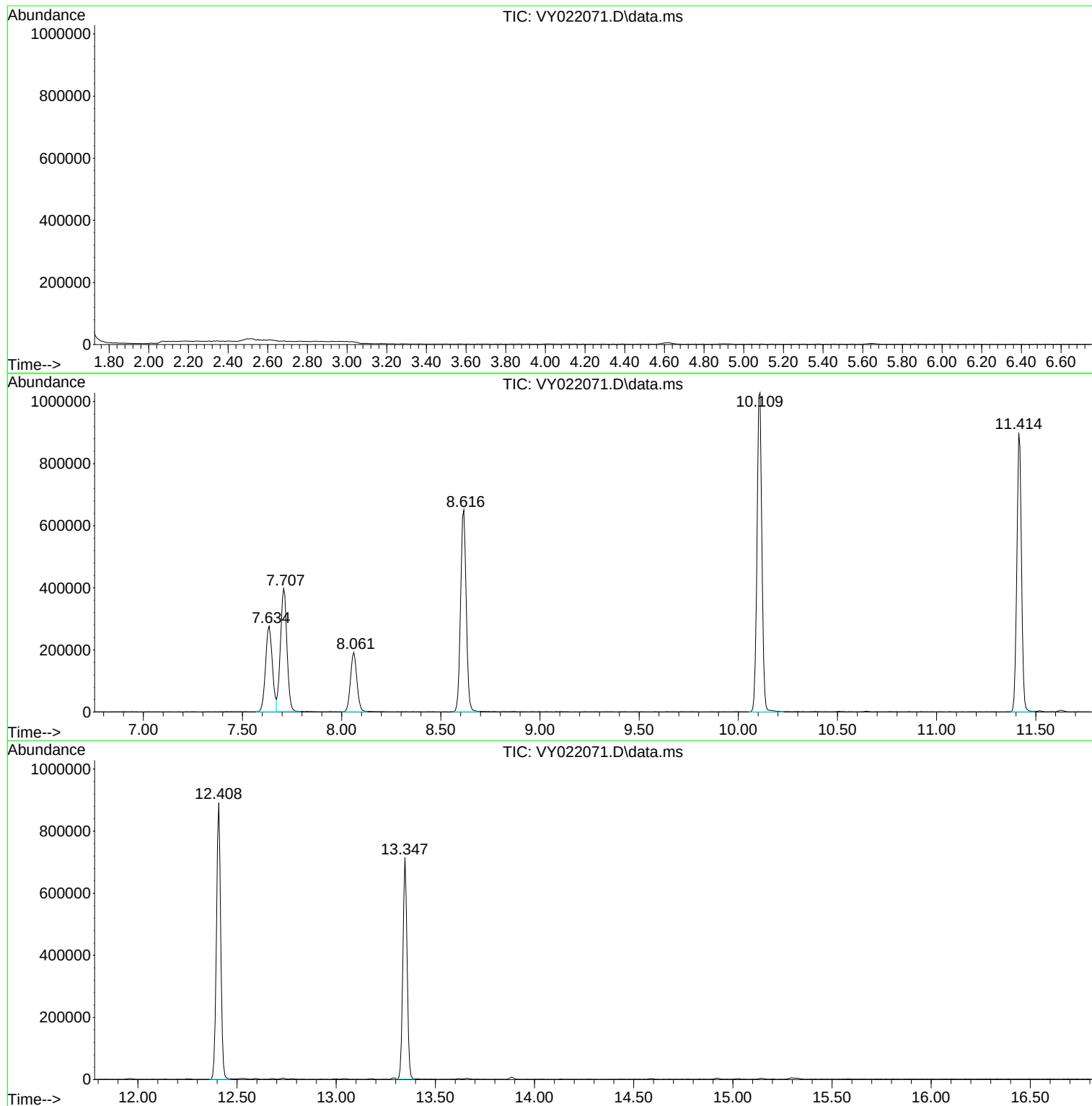
Sum of corrected areas: 8856415

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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\VY043025\
Data File : VY022071.D
Acq On : 30 Apr 2025 09:57
Operator : SY/MD
Sample : VY0430SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.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:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0429WBS01		SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045975.D	1		04/29/25 12:21	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.4		0.22	1.00	ug/L
74-87-3	Chloromethane	16.3		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.26	1.00	ug/L
74-83-9	Bromomethane	17.5		1.40	5.00	ug/L
75-00-3	Chloroethane	20.4		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
67-64-1	Acetone	97.8		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	13.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	28.4		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.0		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.0		0.22	1.00	ug/L
67-66-3	Chloroform	21.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.8		0.16	1.00	ug/L
71-43-2	Benzene	19.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.5		0.14	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045975.D	1		04/29/25 12:21	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	41.7		0.24	2.00	ug/L
95-47-6	o-Xylene	20.9		0.12	1.00	ug/L
100-42-5	Styrene	21.4		0.15	1.00	ug/L
75-25-2	Bromoform	21.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.9		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	53.0		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80600	5.55			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59200	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0429WBS01		SDG No.:	Q1901
Lab Sample ID:	VX0429WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045975.D	1		04/29/25 12:21	VX042925

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\VX042925\
 Data File : VX045975.D
 Acq On : 29 Apr 2025 12:21
 Operator : JC/MD
 Sample : VX0429WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/30/2025
 Supervised By : Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	80632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	140487	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	79501	53.915	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.840%			
35) Dibromofluoromethane	5.379	113	55216	55.396	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.800%			
50) Toluene-d8	8.647	98	184446	53.016	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.040%			
62) 4-Bromofluorobenzene	11.079	95	71406	56.347	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.700%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	20933	17.360	ug/l	99
3) Chloromethane	1.301	50	20239	16.337	ug/l	96
4) Vinyl Chloride	1.374	62	19140	16.883	ug/l	99
5) Bromomethane	1.593	94	9415	17.515	ug/l	100
6) Chloroethane	1.673	64	12245	20.358	ug/l	98
7) Trichlorofluoromethane	1.880	101	32749	19.371	ug/l	98
8) Diethyl Ether	2.130	74	11050	19.469	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	20234	20.425	ug/l	98
10) Methyl Iodide	2.447	142	22380	18.112	ug/l	96
11) Tert butyl alcohol	2.971	59	20596	103.932	ug/l	98
12) 1,1-Dichloroethene	2.313	96	17859	18.450	ug/l	96
13) Acrolein	2.233	56	30163	110.531	ug/l	99
14) Allyl chloride	2.654	41	35730	19.454	ug/l	99
15) Acrylonitrile	3.063	53	61950	99.034	ug/l	98
16) Acetone	2.380	43	59194	97.762	ug/l	97
17) Carbon Disulfide	2.508	76	32070	13.414	ug/l	99
18) Methyl Acetate	2.703	43	39576	28.389	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	71602	21.145	ug/l	98
20) Methylene Chloride	2.782	84	21785	19.218	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	17645	17.843	ug/l	93
22) Diisopropyl ether	3.758	45	75771	20.943	ug/l #	87
23) Vinyl Acetate	3.721	43	305248	97.653	ug/l	99
24) 1,1-Dichloroethane	3.605	63	41051	20.063	ug/l	97
25) 2-Butanone	4.556	43	89868	101.395	ug/l	96
26) 2,2-Dichloropropane	4.471	77	31094	23.521	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	23917	19.851	ug/l	98
28) Bromochloromethane	4.891	49	21747	21.994	ug/l	97
29) Tetrahydrofuran	5.007	42	55579	96.722	ug/l	98
30) Chloroform	5.087	83	44363	21.072	ug/l	97
31) Cyclohexane	5.465	56	32630	18.039	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	36667	20.583	ug/l	99
36) 1,1-Dichloropropene	5.690	75	26951	20.026	ug/l	99
37) Ethyl Acetate	4.709	43	32815	19.348	ug/l	99
38) Carbon Tetrachloride	5.672	117	30835	21.200	ug/l	91
39) Methylcyclohexane	7.379	83	31049	18.821	ug/l	99
40) Benzene	6.032	78	81137	19.740	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045975.D
 Acq On : 29 Apr 2025 12:21
 Operator : JC/MD
 Sample : VX0429WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/30/2025
 Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	19414	21.695	ug/l	98
42) 1,2-Dichloroethane	6.080	62	36439	21.464	ug/l	100
43) Isopropyl Acetate	6.342	43	52611	20.467	ug/l	99
44) Trichloroethene	7.123	130	19439	19.898	ug/l	99
45) 1,2-Dichloropropane	7.428	63	21438	20.904	ug/l	100
46) Dibromomethane	7.580	93	16625	21.118	ug/l	99
47) Bromodichloromethane	7.818	83	33664	21.412	ug/l	99
48) Methyl methacrylate	7.690	41	28494	21.469	ug/l	98
49) 1,4-Dioxane	7.659	88	9791	407.741	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	180040	105.654	ug/l	99
52) Toluene	8.714	92	50978	20.497	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	27141	19.419	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	31830	21.544	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	21739	21.934	ug/l	98
56) Ethyl methacrylate	9.116	69	33190	21.639	ug/l	99
57) 1,3-Dichloropropane	9.305	76	36368	21.073	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	86646	111.669	ug/l	99
59) 2-Hexanone	9.427	43	135946	107.732	ug/l	98
60) Dibromochloromethane	9.519	129	22822	21.122	ug/l	100
61) 1,2-Dibromoethane	9.610	107	21796	21.725	ug/l	97
64) Tetrachloroethene	9.269	164	17310	20.003	ug/l	96
65) Chlorobenzene	10.080	112	54355	20.753	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	19764	21.736	ug/l	100
67) Ethyl Benzene	10.189	91	97814	20.852	ug/l	97
68) m/p-Xylenes	10.299	106	71200	41.733	ug/l	97
69) o-Xylene	10.640	106	35169	20.926	ug/l	97
70) Styrene	10.653	104	59455	21.434	ug/l	98
71) Bromoform	10.799	173	14381	21.181	ug/l #	100
73) Isopropylbenzene	10.957	105	96809	20.403	ug/l	98
74) N-amyl acetate	10.842	43	45523	20.057	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	34807	20.882	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	28492m	19.719	ug/l	
77) Bromobenzene	11.195	156	21147	19.289	ug/l	99
78) n-propylbenzene	11.299	91	108978	19.940	ug/l	100
79) 2-Chlorotoluene	11.360	91	69847	19.991	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	80136	20.424	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	7544	17.720	ug/l	93
82) 4-Chlorotoluene	11.451	91	78882	20.249	ug/l	100
83) tert-Butylbenzene	11.713	119	79835	20.552	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	80856	20.532	ug/l	100
85) sec-Butylbenzene	11.890	105	99135	20.778	ug/l	100
86) p-Isopropyltoluene	12.006	119	80992	20.591	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	40055	20.071	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	40055	19.798	ug/l	97
89) n-Butylbenzene	12.329	91	67884	19.902	ug/l	99
90) Hexachloroethane	12.536	117	13846	20.482	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	42151	21.245	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7487	21.478	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	21510	19.477	ug/l	99
94) Hexachlorobutadiene	13.719	225	10079	21.179	ug/l	98
95) Naphthalene	13.774	128	79412	19.322	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	23277	20.128	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

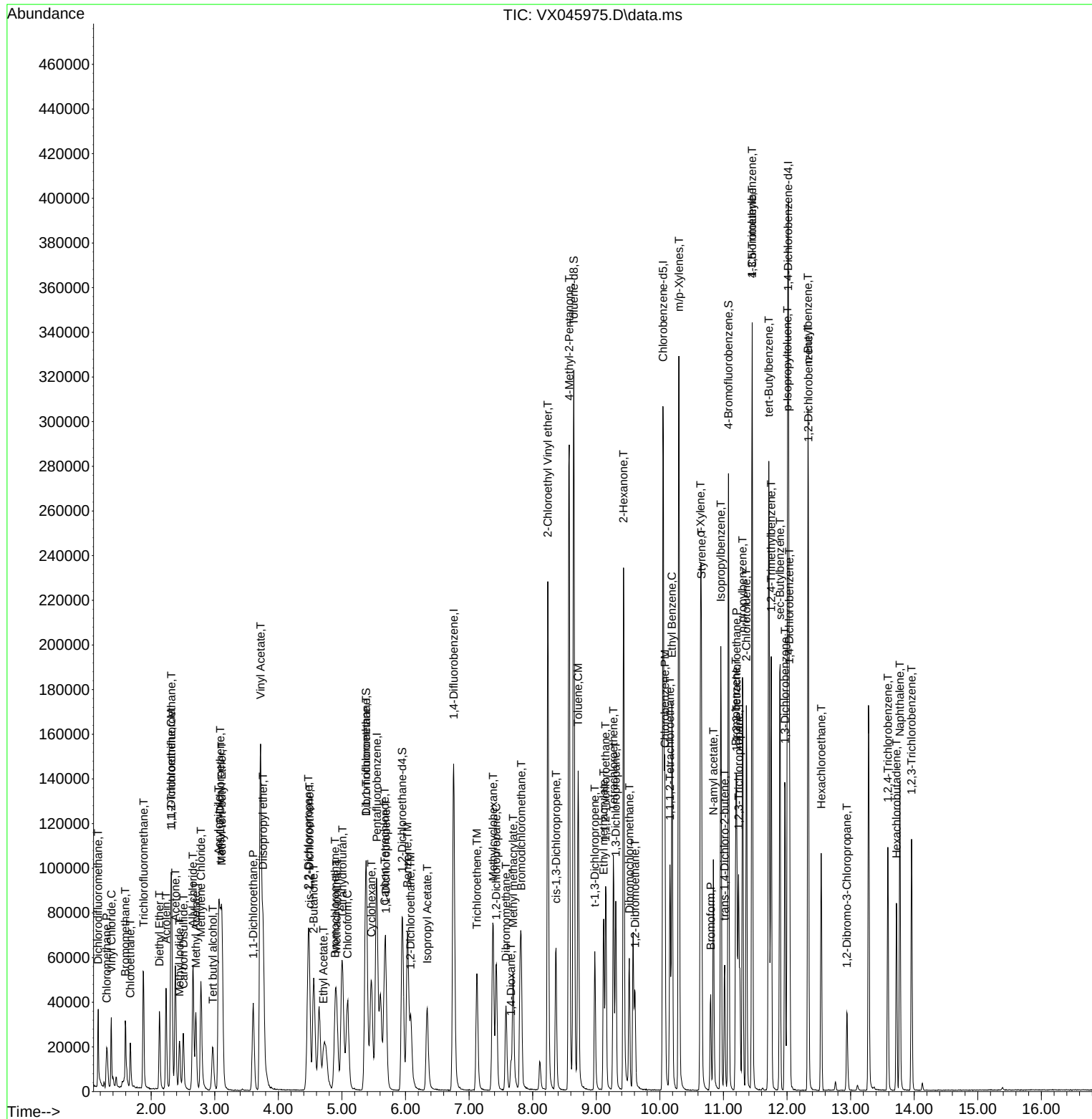
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045975.D
 Acq On : 29 Apr 2025 12:21
 Operator : JC/MD
 Sample : VX0429WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/30/2025
 Supervised By : Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:36:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY022072.D	1		04/30/25 10:30	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.7		1.00	5.00	ug/Kg
67-64-1	Acetone	94.5		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.3		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	19.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	92.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.3		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.4		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.91	5.00	ug/Kg
71-43-2	Benzene	20.6		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		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	21.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY022072.D	1		04/30/25 10:30	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.9		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	99.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.82	5.00	ug/Kg
100-42-5	Styrene	20.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		70 (63) - 130 (155)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	52.7		70 (74) - 130 (123)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (38) - 130 (136)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	286000	7.707			
540-36-3	1,4-Difluorobenzene	434000	8.616			
3114-55-4	Chlorobenzene-d5	405000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	223000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0430SBS01		SDG No.:	Q1901
Lab Sample ID:	VY0430SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% 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
VY022072.D	1		04/30/25 10:30	VY043025

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\VY043025\
 Data File : VY022072.D
 Acq On : 30 Apr 2025 10:30
 Operator : SY/MD
 Sample : VY0430SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0430SBS01

Manual Integrations
 APPROVED

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

Quant Time: May 01 01:31:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	286487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	433702	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	405299	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	222589	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	131013	49.509	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.020%		
35) Dibromofluoromethane	7.628	113	150835	52.643	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	105.280%		
50) Toluene-d8	10.103	98	568923	52.668	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	105.340%		
62) 4-Bromofluorobenzene	12.402	95	188289	51.779	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.560%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	47203	19.336	ug/l	98
3) Chloromethane	2.062	50	77084	22.176	ug/l	98
4) Vinyl Chloride	2.202	62	88437	20.704	ug/l	98
5) Bromomethane	2.586	94	83723	22.751	ug/l	97
6) Chloroethane	2.727	64	61631	21.186	ug/l	100
7) Trichlorofluoromethane	3.050	101	122851	21.811	ug/l	97
8) Diethyl Ether	3.452	74	28746	19.608	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.806	101	62287	20.385	ug/l	99
10) Methyl Iodide	4.001	142	60748	17.172	ug/l	99
11) Tert butyl alcohol	4.885	59	13923	95.838	ug/l #	87
12) 1,1-Dichloroethene	3.787	96	56168	19.722	ug/l	97
13) Acrolein	3.653	56	22527	86.396	ug/l	99
14) Allyl chloride	4.379	41	62659	18.895	ug/l	99
15) Acrylonitrile	5.055	53	51344	95.667	ug/l	99
16) Acetone	3.879	43	37345	94.535	ug/l	95
17) Carbon Disulfide	4.098	76	180355	19.861	ug/l	98
18) Methyl Acetate	4.385	43	25031	20.250	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	121034	18.988	ug/l	100
20) Methylene Chloride	4.610	84	67082	20.048	ug/l	95
21) trans-1,2-Dichloroethene	5.104	96	62226	19.509	ug/l	97
22) Diisopropyl ether	6.013	45	144165	19.535	ug/l	96
23) Vinyl Acetate	5.958	43	381862	96.013	ug/l	99
24) 1,1-Dichloroethane	5.909	63	101810	19.903	ug/l	95
25) 2-Butanone	6.890	43	55933	92.728	ug/l	97
26) 2,2-Dichloropropane	6.878	77	91436	20.394	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	69433	19.469	ug/l	99
28) Bromochloromethane	7.244	49	39832	20.047	ug/l	96
29) Tetrahydrofuran	7.262	42	37976	96.936	ug/l	99
30) Chloroform	7.415	83	115625	20.378	ug/l	99
31) Cyclohexane	7.701	56	82489	18.857	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	103303	20.124	ug/l	99
36) 1,1-Dichloropropene	7.829	75	77745	20.200	ug/l	99
37) Ethyl Acetate	6.982	43	28394	20.541	ug/l	97
38) Carbon Tetrachloride	7.817	117	97877	21.282	ug/l	96
39) Methylcyclohexane	9.103	83	92916	19.184	ug/l	94
40) Benzene	8.079	78	247402	20.563	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022072.D
 Acq On : 30 Apr 2025 10:30
 Operator : SY/MD
 Sample : VY0430SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0430SBS01

Manual Integrations
 APPROVED

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

Quant Time: May 01 01:31:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	15307	20.257	ug/l #	94
42) 1,2-Dichloroethane	8.159	62	63278	21.243	ug/l	99
43) Isopropyl Acetate	8.195	43	51820	19.521	ug/l	99
44) Trichloroethene	8.860	130	69720	20.921	ug/l	96
45) 1,2-Dichloropropane	9.140	63	54103	20.334	ug/l	96
46) Dibromomethane	9.225	93	34989	21.008	ug/l	99
47) Bromodichloromethane	9.420	83	87089	20.931	ug/l	96
48) Methyl methacrylate	9.219	41	23285	18.974	ug/l	94
49) 1,4-Dioxane	9.231	88	6982	393.308	ug/l	91
51) 4-Methyl-2-Pentanone	10.000	43	140074	100.658	ug/l	100
52) Toluene	10.170	92	163564	21.002	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	73442	20.578	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	87328	20.585	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	46477	20.891	ug/l	98
56) Ethyl methacrylate	10.439	69	47660	18.733	ug/l	97
57) 1,3-Dichloropropane	10.713	76	73654	20.651	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	125085	100.556	ug/l	98
59) 2-Hexanone	10.762	43	91664	99.867	ug/l	98
60) Dibromochloromethane	10.908	129	65090	21.132	ug/l	99
61) 1,2-Dibromoethane	11.012	107	43234	20.584	ug/l	99
64) Tetrachloroethene	10.646	164	80599	21.080	ug/l	96
65) Chlorobenzene	11.438	112	182280	20.111	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.512	131	66284	20.773	ug/l	100
67) Ethyl Benzene	11.518	91	285528	19.258	ug/l	100
68) m/p-Xylenes	11.627	106	239665	40.623	ug/l	97
69) o-Xylene	11.957	106	106876	19.654	ug/l	99
70) Styrene	11.969	104	182708	20.012	ug/l	100
71) Bromoform	12.127	173	38719	20.871	ug/l #	99
73) Isopropylbenzene	12.255	105	279562	18.799	ug/l	99
74) N-amyl acetate	12.072	43	45327	17.740	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	49468	19.730	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	35538m	18.640	ug/l	
77) Bromobenzene	12.530	156	73867	19.657	ug/l	97
78) n-propylbenzene	12.597	91	342875	19.361	ug/l	100
79) 2-Chlorotoluene	12.676	91	200281	19.446	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	235676	19.234	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	14374	18.155	ug/l	94
82) 4-Chlorotoluene	12.774	91	212735	19.870	ug/l	100
83) tert-Butylbenzene	12.999	119	205879	18.735	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	241750	19.725	ug/l	98
85) sec-Butylbenzene	13.176	105	309315	19.235	ug/l	99
86) p-Isopropyltoluene	13.292	119	260507	19.078	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	152160	19.937	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	148875	19.695	ug/l	99
89) n-Butylbenzene	13.615	91	225950	18.513	ug/l	99
90) Hexachloroethane	13.883	117	58174	19.391	ug/l	98
91) 1,2-Dichlorobenzene	13.658	146	134059	20.139	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7240	18.150	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	72337	19.176	ug/l	99
94) Hexachlorobutadiene	15.023	225	47088	20.289	ug/l	100
95) Naphthalene	15.145	128	109185	17.424	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	64048	19.670	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations
APPROVED

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

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

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

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

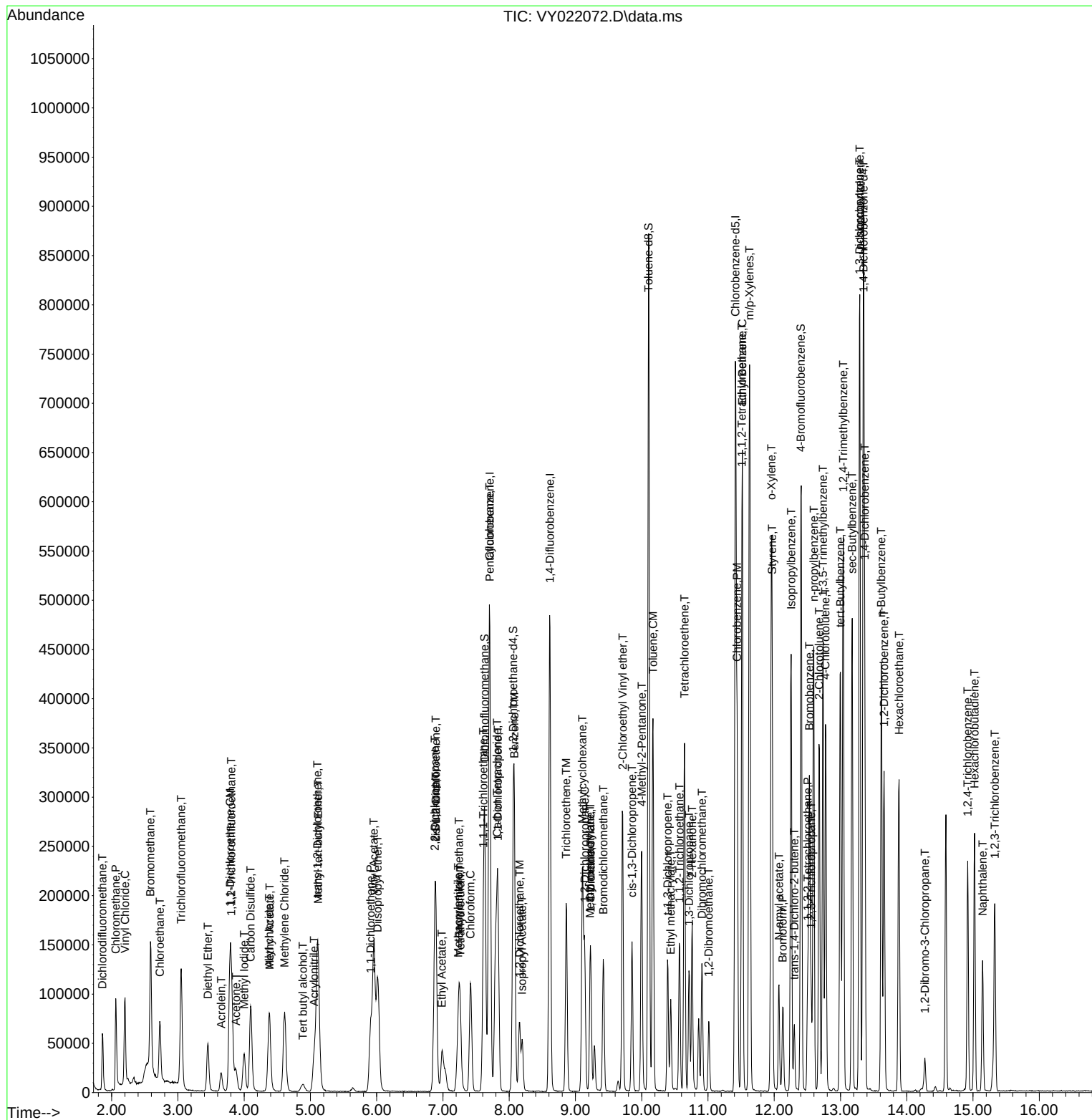
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

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

Quant Time: May 01 01:31:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045976.D	1		04/29/25 12:49	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.3		0.22	1.00	ug/L
74-87-3	Chloromethane	16.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.26	1.00	ug/L
74-83-9	Bromomethane	17.3		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	13.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	30.0		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.9		0.22	1.00	ug/L
67-66-3	Chloroform	21.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.9		0.16	1.00	ug/L
71-43-2	Benzene	19.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		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:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VX0429WBSD01		SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045976.D	1		04/29/25 12:49	VX042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.3		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	22.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	21.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	42.6		0.24	2.00	ug/L
95-47-6	o-Xylene	21.5		0.12	1.00	ug/L
100-42-5	Styrene	21.7		0.15	1.00	ug/L
75-25-2	Bromoform	21.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	22.3		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.9		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	77100	5.544			
540-36-3	1,4-Difluorobenzene	135000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57500	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	Q1901
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% 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
VX045976.D	1		04/29/25 12:49	VX042925

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\VX042925\
 Data File : VX045976.D
 Acq On : 29 Apr 2025 12:49
 Operator : JC/MD
 Sample : VX0429WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/30/2025
 Supervised By : Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:37:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	77095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	135079	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57470	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	76515	54.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.540%			
35) Dibromofluoromethane	5.379	113	52478	54.757	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.520%			
50) Toluene-d8	8.647	98	172943	51.700	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.400%			
62) 4-Bromofluorobenzene	11.079	95	67496	55.394	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.780%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19940	17.295	ug/l	98
3) Chloromethane	1.307	50	19464	16.433	ug/l	97
4) Vinyl Chloride	1.374	62	18281	16.865	ug/l	97
5) Bromomethane	1.593	94	8917	17.349	ug/l	97
6) Chloroethane	1.672	64	10885	18.927	ug/l	98
7) Trichlorofluoromethane	1.880	101	31444	19.453	ug/l	99
8) Diethyl Ether	2.130	74	11373	20.957	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	20162	21.286	ug/l	96
10) Methyl Iodide	2.447	142	21226	17.966	ug/l	95
11) Tert butyl alcohol	2.965	59	21757	114.828	ug/l	100
12) 1,1-Dichloroethene	2.313	96	17753	19.182	ug/l	97
13) Acrolein	2.233	56	29845	114.384	ug/l	99
14) Allyl chloride	2.660	41	34613	19.710	ug/l	100
15) Acrylonitrile	3.062	53	63530	106.219	ug/l	99
16) Acetone	2.380	43	59734	103.180	ug/l	98
17) Carbon Disulfide	2.508	76	30724	13.441	ug/l	98
18) Methyl Acetate	2.703	43	39952	29.973	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	70922	21.905	ug/l	100
20) Methylene Chloride	2.782	84	22066	20.359	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	17617	18.632	ug/l	95
22) Diisopropyl ether	3.757	45	74574	21.558	ug/l	94
23) Vinyl Acetate	3.715	43	306061	102.405	ug/l	99
24) 1,1-Dichloroethane	3.599	63	39043	19.957	ug/l	99
25) 2-Butanone	4.556	43	92556	109.219	ug/l	98
26) 2,2-Dichloropropane	4.465	77	29266	23.154	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	23658	20.537	ug/l	97
28) Bromochloromethane	4.891	49	21694	22.947	ug/l	96
29) Tetrahydrofuran	5.007	42	57573	104.788	ug/l	99
30) Chloroform	5.086	83	43275	21.498	ug/l	97
31) Cyclohexane	5.458	56	31835	18.407	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	35637	20.922	ug/l	99
36) 1,1-Dichloropropene	5.684	75	25072	19.375	ug/l	100
37) Ethyl Acetate	4.708	43	32920	20.187	ug/l	99
38) Carbon Tetrachloride	5.672	117	29700	21.237	ug/l	92
39) Methylcyclohexane	7.373	83	31598	19.921	ug/l	99
40) Benzene	6.031	78	78335	19.821	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
 Data File : VX045976.D
 Acq On : 29 Apr 2025 12:49
 Operator : JC/MD
 Sample : VX0429WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/30/2025
 Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:37:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	19612	22.794	ug/l	98
42) 1,2-Dichloroethane	6.080	62	36209	22.183	ug/l	100
43) Isopropyl Acetate	6.336	43	54185	21.923	ug/l	99
44) Trichloroethene	7.123	130	18371	19.557	ug/l	96
45) 1,2-Dichloropropane	7.421	63	21416	21.719	ug/l	100
46) Dibromomethane	7.580	93	16618	21.954	ug/l	99
47) Bromodichloromethane	7.818	83	32301	21.368	ug/l	97
48) Methyl methacrylate	7.690	41	27818	21.799	ug/l	100
49) 1,4-Dioxane	7.659	88	10150	439.614	ug/l	98
51) 4-Methyl-2-Pentanone	8.568	43	187368	114.356	ug/l	98
52) Toluene	8.714	92	48009	20.076	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	27378	20.260	ug/l	93
54) cis-1,3-Dichloropropene	8.360	75	30230	21.280	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	20571	21.587	ug/l	96
56) Ethyl methacrylate	9.116	69	32392	21.964	ug/l	98
57) 1,3-Dichloropropane	9.305	76	36964	22.275	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	85871	115.101	ug/l	99
59) 2-Hexanone	9.427	43	137555	113.371	ug/l	98
60) Dibromochloromethane	9.519	129	22935	22.077	ug/l	96
61) 1,2-Dibromoethane	9.604	107	21310	22.091	ug/l	99
64) Tetrachloroethene	9.269	164	16478	19.715	ug/l	96
65) Chlorobenzene	10.073	112	54296	21.464	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	19338	22.019	ug/l	100
67) Ethyl Benzene	10.189	91	96091	21.209	ug/l	97
68) m/p-Xylenes	10.299	106	70144	42.567	ug/l	100
69) o-Xylene	10.640	106	34876	21.485	ug/l	100
70) Styrene	10.653	104	58240	21.738	ug/l	99
71) Bromoform	10.799	173	13887	21.177	ug/l #	96
73) Isopropylbenzene	10.957	105	91610	19.901	ug/l	99
74) N-amyl acetate	10.842	43	45116	20.488	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.207	83	34033	21.045	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	29260m	20.873	ug/l	
77) Bromobenzene	11.195	156	20879	19.630	ug/l	96
78) n-propylbenzene	11.299	91	106699	20.123	ug/l	99
79) 2-Chlorotoluene	11.360	91	66357	19.576	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	79294	20.831	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	7415	17.952	ug/l	93
82) 4-Chlorotoluene	11.451	91	77140	20.411	ug/l	99
83) tert-Butylbenzene	11.713	119	78461	20.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	78597	20.572	ug/l	99
85) sec-Butylbenzene	11.890	105	98401	21.258	ug/l	99
86) p-Isopropyltoluene	12.006	119	79322	20.786	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	39159	20.225	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	39249	19.996	ug/l	96
89) n-Butylbenzene	12.329	91	66533	20.105	ug/l	100
90) Hexachloroethane	12.536	117	13828	21.084	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	40899	21.247	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7537	22.286	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	22349	20.858	ug/l	98
94) Hexachlorobutadiene	13.719	225	9997	21.652	ug/l	96
95) Naphthalene	13.774	128	82571	20.708	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	22765	20.290	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/30/2025
Supervised By :Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

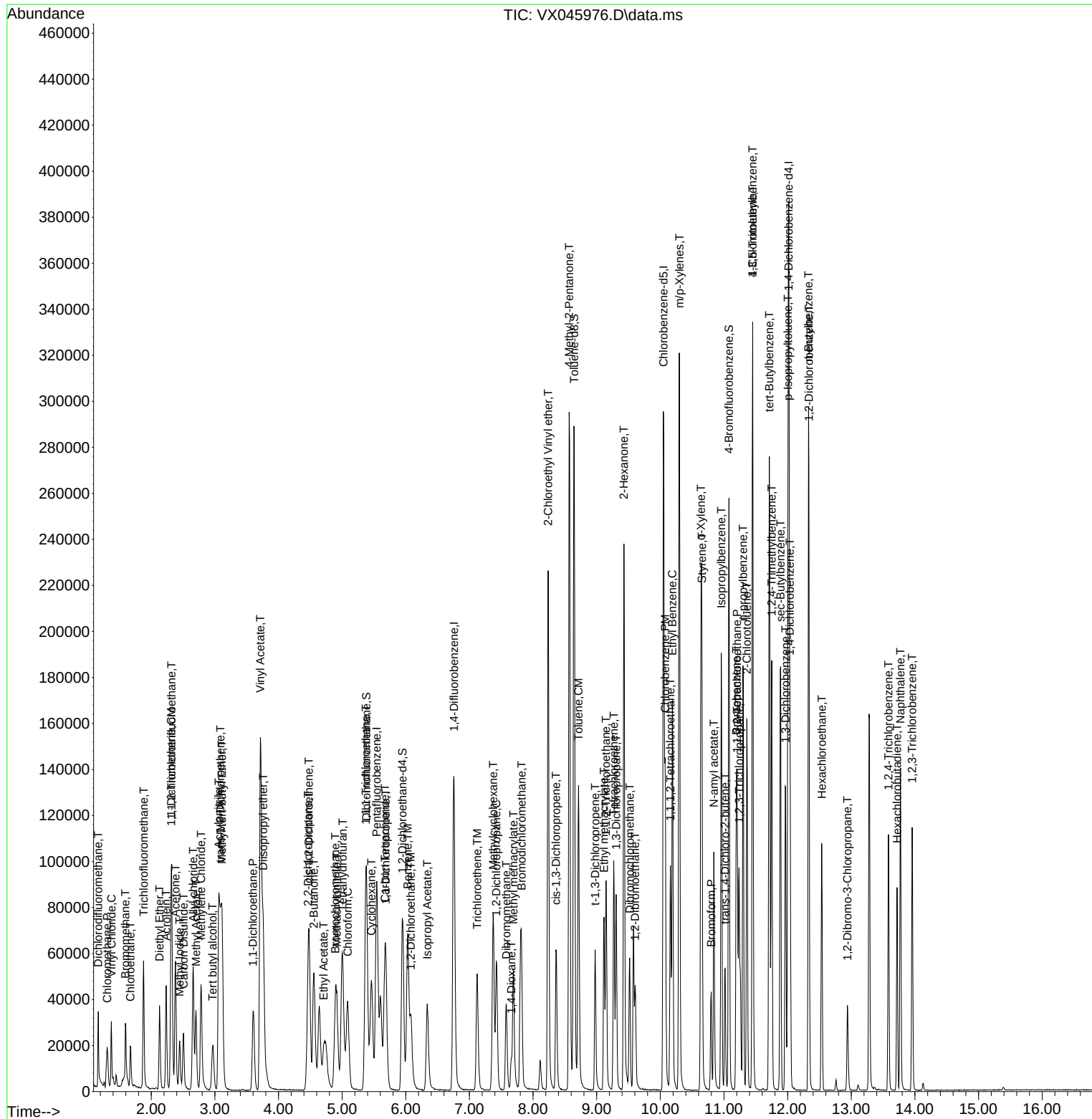
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/30/2025
Supervised By : Semsettin Yesilyurt 04/30/2025

Quant Time: Apr 30 01:37:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0430SBSD01		SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% 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
VY022073.D	1		04/30/25 10:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	89.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.5		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	20.0		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.79	5.00	ug/Kg
78-93-3	2-Butanone	91.4		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	19.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	98.5		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0430SBSD01	SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY022073.D	1		04/30/25 10:52	VY043025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.3		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.2		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.3		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	19.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		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	20.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	440000	8.61			
3114-55-4	Chlorobenzene-d5	407000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	218000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0430SBSD01		SDG No.:	Q1901
Lab Sample ID:	VY0430SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% 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
VY022073.D	1		04/30/25 10:52	VY043025

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\VY043025\
 Data File : VY022073.D
 Acq On : 30 Apr 2025 10:52
 Operator : SY/MD
 Sample : VY0430SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0430SBS01

Manual Integrations
 APPROVED

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

Quant Time: May 01 01:32:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	289313	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	439988	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	406945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	218185	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130907	48.986	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.980%		
35) Dibromofluoromethane	7.634	113	147653	50.796	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.600%		
50) Toluene-d8	10.103	98	562631	51.341	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.680%		
62) 4-Bromofluorobenzene	12.402	95	187095	50.715	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	101.440%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	49931	20.254	ug/l	99
3) Chloromethane	2.068	50	68325	19.465	ug/l	99
4) Vinyl Chloride	2.202	62	84965	19.697	ug/l	100
5) Bromomethane	2.586	94	72512	19.512	ug/l	94
6) Chloroethane	2.727	64	57263	19.492	ug/l	100
7) Trichlorofluoromethane	3.050	101	116170	20.423	ug/l	97
8) Diethyl Ether	3.452	74	27804	18.780	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	62953	20.402	ug/l	100
10) Methyl Iodide	3.995	142	67087	18.779	ug/l	100
11) Tert butyl alcohol	4.860	59	14050	95.768	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	58062	20.188	ug/l	95
13) Acrolein	3.653	56	22474	85.350	ug/l	98
14) Allyl chloride	4.379	41	63213	18.876	ug/l	98
15) Acrylonitrile	5.055	53	51846	95.658	ug/l	100
16) Acetone	3.873	43	36077	89.420	ug/l	92
17) Carbon Disulfide	4.104	76	180959	19.733	ug/l	99
18) Methyl Acetate	4.385	43	26790	21.461	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	119952	18.634	ug/l	98
20) Methylene Chloride	4.610	84	67948	20.108	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64406	19.996	ug/l	97
22) Diisopropyl ether	6.019	45	146890	19.710	ug/l	98
23) Vinyl Acetate	5.958	43	371342	92.455	ug/l	99
24) 1,1-Dichloroethane	5.915	63	102207	19.785	ug/l	95
25) 2-Butanone	6.890	43	55654	91.364	ug/l	100
26) 2,2-Dichloropropane	6.884	77	91186	20.140	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	70781	19.653	ug/l	98
28) Bromochloromethane	7.244	49	40106	19.988	ug/l	98
29) Tetrahydrofuran	7.262	42	36921	93.322	ug/l	98
30) Chloroform	7.421	83	115178	20.101	ug/l	98
31) Cyclohexane	7.701	56	83695	18.946	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	104622	20.181	ug/l	99
36) 1,1-Dichloropropene	7.829	75	78332	20.062	ug/l	99
37) Ethyl Acetate	6.988	43	27342m	19.497	ug/l	
38) Carbon Tetrachloride	7.817	117	96787	20.744	ug/l	96
39) Methylcyclohexane	9.103	83	93388	19.006	ug/l	94
40) Benzene	8.079	78	250157	20.495	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022073.D
 Acq On : 30 Apr 2025 10:52
 Operator : SY/MD
 Sample : VY0430SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0430SBS01

Manual Integrations
 APPROVED

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

Quant Time: May 01 01:32:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.214	41	15478	20.191	ug/l #	95
42) 1,2-Dichloroethane	8.158	62	61936	20.495	ug/l	99
43) Isopropyl Acetate	8.195	43	51000	18.937	ug/l	98
44) Trichloroethene	8.860	130	69297	20.497	ug/l	93
45) 1,2-Dichloropropane	9.140	63	54935	20.352	ug/l	98
46) Dibromomethane	9.231	93	35003	20.716	ug/l	99
47) Bromodichloromethane	9.420	83	87120	20.639	ug/l	99
48) Methyl methacrylate	9.219	41	23107	18.560	ug/l	95
49) 1,4-Dioxane	9.225	88	7458	414.120	ug/l	93
51) 4-Methyl-2-Pentanone	9.994	43	139092	98.525	ug/l	98
52) Toluene	10.170	92	162291	20.541	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	73102	20.190	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	86456	20.088	ug/l	97
55) 1,1,2-Trichloroethane	10.567	97	46575	20.636	ug/l	96
56) Ethyl methacrylate	10.439	69	47773	18.509	ug/l	98
57) 1,3-Dichloropropane	10.713	76	73864	20.414	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	124335	98.525	ug/l	99
59) 2-Hexanone	10.762	43	87825	94.317	ug/l	97
60) Dibromochloromethane	10.908	129	63230	20.235	ug/l	98
61) 1,2-Dibromoethane	11.012	107	42794	20.084	ug/l	98
64) Tetrachloroethene	10.646	164	81751	21.295	ug/l	97
65) Chlorobenzene	11.438	112	184325	20.255	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	66577	20.780	ug/l	99
67) Ethyl Benzene	11.518	91	289472	19.445	ug/l	100
68) m/p-Xylenes	11.627	106	238544	40.269	ug/l	99
69) o-Xylene	11.951	106	105935	19.403	ug/l	99
70) Styrene	11.969	104	185895	20.278	ug/l	98
71) Bromoform	12.133	173	37727	20.254	ug/l #	99
73) Isopropylbenzene	12.255	105	280709	19.257	ug/l	100
74) N-amyl acetate	12.066	43	44208	17.652	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	47576	19.358	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	33877m	18.127	ug/l	
77) Bromobenzene	12.530	156	73436	19.937	ug/l	98
78) n-propylbenzene	12.591	91	339221	19.541	ug/l	100
79) 2-Chlorotoluene	12.676	91	200769	19.887	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	239215	19.917	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	14890	19.187	ug/l	97
82) 4-Chlorotoluene	12.774	91	212766	20.274	ug/l	100
83) tert-Butylbenzene	12.993	119	209440	19.443	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	238623	19.863	ug/l	98
85) sec-Butylbenzene	13.176	105	313905	19.915	ug/l	100
86) p-Isopropyltoluene	13.292	119	262861	19.639	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	149261	19.952	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	148377	20.026	ug/l	99
89) n-Butylbenzene	13.615	91	223801	18.707	ug/l	99
90) Hexachloroethane	13.877	117	58123	19.765	ug/l	99
91) 1,2-Dichlorobenzene	13.658	146	132919	20.371	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7198	18.409	ug/l	92
93) 1,2,4-Trichlorobenzene	14.919	180	69519	18.801	ug/l	97
94) Hexachlorobutadiene	15.023	225	46146	20.284	ug/l	98
95) Naphthalene	15.145	128	103951	16.924	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	60230	18.870	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations
APPROVED

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

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

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

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

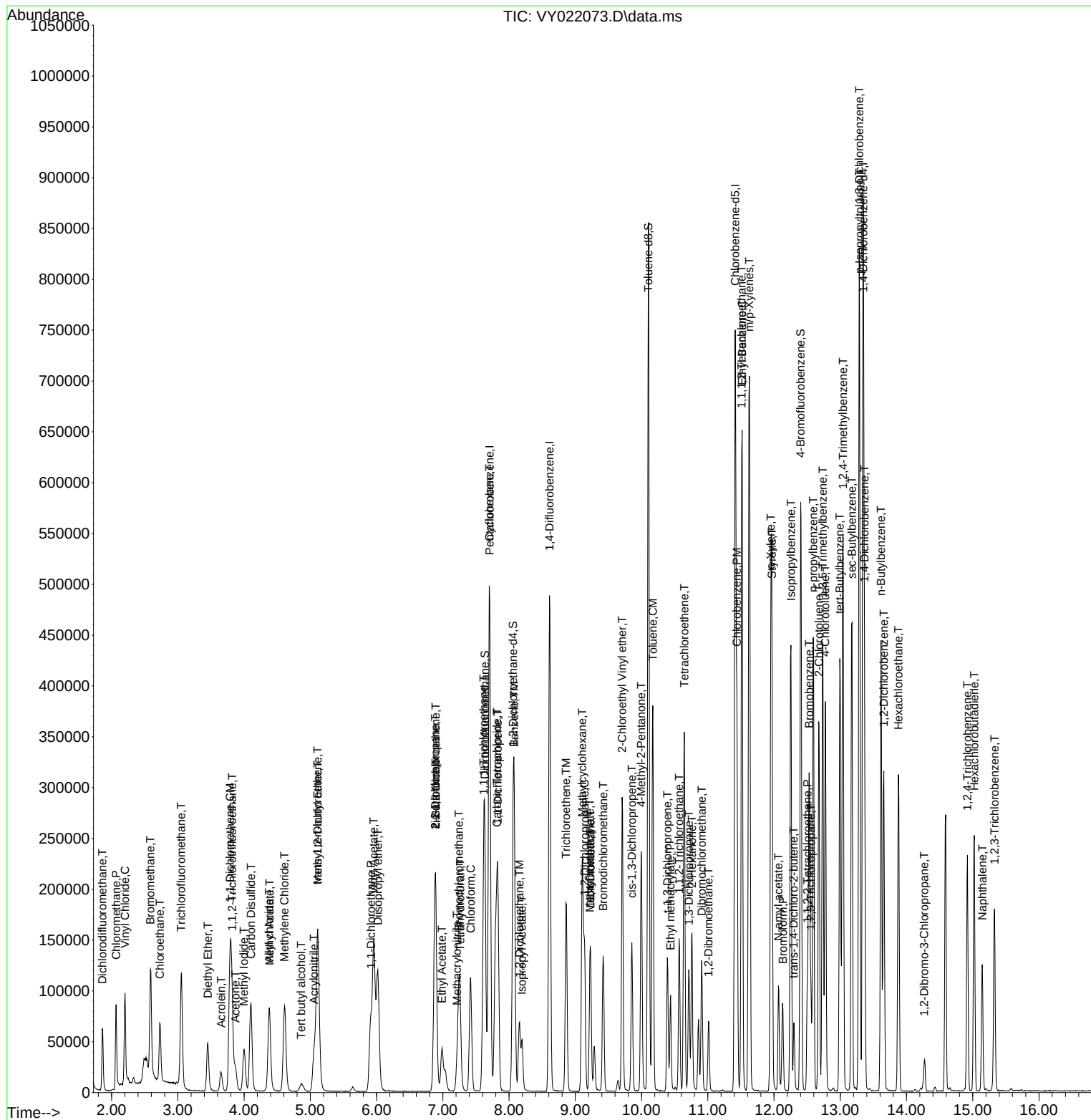
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

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

Quant Time: May 01 01:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDIC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDIC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDIC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDIC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDIC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX040225

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VX042925

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045972.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:49 AM	Sam	4/30/2025 2:23:15 PM	Peak Integrated by Software
VX0429WBS01	VX045975.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:53 AM	Sam	4/30/2025 2:23:17 PM	Peak Integrated by Software
VX0429WBSD01	VX045976.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:32:57 AM	Sam	4/30/2025 2:23:20 PM	Peak Integrated by Software
VSTDCCC050	VX045983.D	1,2,3-Trichloropropane	JOHN	4/30/2025 9:33:01 AM	Sam	4/30/2025 2:23:25 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY021953.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDIC005	VY021953.D	Ethyl Acetate	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDIC005	VY021953.D	Methacrylonitrile	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDIC005	VY021953.D	Tert butyl alcohol	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDIC010	VY021954.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDIC010	VY021954.D	Ethyl Acetate	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDIC010	VY021954.D	Methacrylonitrile	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDIC020	VY021955.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDIC020	VY021955.D	Methacrylonitrile	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDIC050	VY021956.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:53 AM	MMDadoda	4/23/2025 1:29:11 PM	Peak Integrated by Software
VSTDIC100	VY021957.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:56 AM	MMDadoda	4/23/2025 1:29:15 PM	Peak Integrated by Software
VSTDIC150	VY021958.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:57 AM	MMDadoda	4/23/2025 1:29:19 PM	Peak Integrated by Software
VSTDICV050	VY021960.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:59 AM	MMDadoda	4/23/2025 1:29:23 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY042225

Instrument

MSVOA_y

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VY043025

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022070.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:25 AM	MMDadoda	5/5/2025 2:54:38 PM	Peak Integrated by Software
VY0430SBS01	VY022072.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:30 AM	MMDadoda	5/5/2025 2:54:41 PM	Peak Integrated by Software
VY0430SBSD0 1	VY022073.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:37 AM	MMDadoda	5/5/2025 2:54:44 PM	Peak Integrated by Software
VY0430SBSD0 1	VY022073.D	Ethyl Acetate	sam	5/5/2025 4:23:37 AM	MMDadoda	5/5/2025 2:54:44 PM	Peak Integrated by Software
VSTDCCC050	VY022093.D	1,2,3-Trichloropropane	sam	5/5/2025 4:23:47 AM	MMDadoda	5/5/2025 2:54:48 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICCC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICCC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICCC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICCC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICCC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDICCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX042925

Review By	John Carlone	Review On	4/30/2025 9:47:21 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/30/2025 2:23:33 PM
SubDirectory	VX042925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133784		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133785,VP133786		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045971.D	29 Apr 2025 09:35	JC/MD	Ok
2	VSTDCCC050	VX045972.D	29 Apr 2025 11:06	JC/MD	Ok,M
3	VX0429MBL01	VX045973.D	29 Apr 2025 11:35	JC/MD	Ok
4	VX0429WBL01	VX045974.D	29 Apr 2025 11:58	JC/MD	Ok
5	VX0429WBS01	VX045975.D	29 Apr 2025 12:21	JC/MD	Ok,M
6	VX0429WBSD01	VX045976.D	29 Apr 2025 12:49	JC/MD	Ok,M
7	IBLK	VX045977.D	29 Apr 2025 13:12	JC/MD	Ok
8	Q1901-07	VX045978.D	29 Apr 2025 13:35	JC/MD	Ok
9	Q1901-06	VX045979.D	29 Apr 2025 13:58	JC/MD	Ok
10	Q1896-03	VX045980.D	29 Apr 2025 14:21	JC/MD	Ok
11	IBLK	VX045981.D	29 Apr 2025 14:45	JC/MD	Ok
12	IBLK	VX045982.D	29 Apr 2025 15:08	JC/MD	Ok
13	VSTDCCC050	VX045983.D	29 Apr 2025 16:15	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Maresh Dadoda	Supervise On	4/23/2025 1:28:52 PM		
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133718			
Initial Calibration Stds		VP133719,VP133720,VP133721,VP133722,VP133723,VP133724			
CCC					
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133725			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VY021952.D	22 Apr 2025 11:33	SY/MD	Ok
2	VSTDIC005	VY021953.D	22 Apr 2025 13:39	SY/MD	Ok,M
3	VSTDIC010	VY021954.D	22 Apr 2025 14:44	SY/MD	Ok,M
4	VSTDIC020	VY021955.D	22 Apr 2025 15:07	SY/MD	Ok,M
5	VSTDIC050	VY021956.D	22 Apr 2025 15:29	SY/MD	Ok,M
6	VSTDIC100	VY021957.D	22 Apr 2025 15:52	SY/MD	Ok,M
7	VSTDIC150	VY021958.D	22 Apr 2025 16:15	SY/MD	Ok,M
8	IBLK	VY021959.D	22 Apr 2025 16:38	SY/MD	Ok
9	VSTDICV050	VY021960.D	22 Apr 2025 17:01	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM		
Supervise By	Maresh Dadoda	Supervise On	5/5/2025 2:55:11 PM		
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133787			
CCC		VP133788,VP133789			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022069.D	30 Apr 2025 08:50	SY/MD	Ok
2	VSTDCCC050	VY022070.D	30 Apr 2025 09:20	SY/MD	Ok,M
3	VY0430SBL01	VY022071.D	30 Apr 2025 09:57	SY/MD	Ok
4	VY0430SBS01	VY022072.D	30 Apr 2025 10:30	SY/MD	Ok,M
5	VY0430SBS01	VY022073.D	30 Apr 2025 10:52	SY/MD	Ok,M
6	Q1911-01	VY022074.D	30 Apr 2025 11:37	SY/MD	ReRun
7	Q1905-07	VY022075.D	30 Apr 2025 12:00	SY/MD	Ok
8	Q1910-01	VY022076.D	30 Apr 2025 12:24	SY/MD	Ok
9	Q1912-03	VY022077.D	30 Apr 2025 12:47	SY/MD	Ok
10	Q1912-07	VY022078.D	30 Apr 2025 13:11	SY/MD	Ok
11	Q1883-05	VY022079.D	30 Apr 2025 13:34	SY/MD	Ok
12	Q1883-07	VY022080.D	30 Apr 2025 13:58	SY/MD	Ok
13	Q1883-09	VY022081.D	30 Apr 2025 14:21	SY/MD	Ok
14	Q1883-11	VY022082.D	30 Apr 2025 14:44	SY/MD	ReRun
15	Q1883-13	VY022083.D	30 Apr 2025 15:11	SY/MD	Not Ok
16	Q1883-15	VY022084.D	30 Apr 2025 15:55	SY/MD	Ok
17	Q1907-01	VY022085.D	30 Apr 2025 16:18	SY/MD	Ok
18	Q1901-01	VY022086.D	30 Apr 2025 16:42	SY/MD	Ok
19	Q1901-02	VY022087.D	30 Apr 2025 17:05	SY/MD	Ok
20	Q1901-03	VY022088.D	30 Apr 2025 17:29	SY/MD	Ok
21	Q1901-04	VY022089.D	30 Apr 2025 17:52	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM		
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133787			
CCC		VP133788,VP133789			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1901-05	VY022090.D	30 Apr 2025 18:16	SY/MD	Ok
23	Q1916-03	VY022091.D	30 Apr 2025 18:39	SY/MD	ReRun
24	Q1917-03	VY022092.D	30 Apr 2025 19:03	SY/MD	Ok
25	VSTDCCC050	VY022093.D	30 Apr 2025 19:25	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDIC050	VSTDIC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX042925

Review By	John Carlone	Review On	4/30/2025 9:47:21 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/30/2025 2:23:33 PM
SubDirectory	VX042925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133784		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133785,VP133786		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045971.D	29 Apr 2025 09:35		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045972.D	29 Apr 2025 11:06	pH#Lot#V12668	JC/MD	Ok,M
3	VX0429MBL01	VX0429MBL01	VX045973.D	29 Apr 2025 11:35		JC/MD	Ok
4	VX0429WBL01	VX0429WBL01	VX045974.D	29 Apr 2025 11:58		JC/MD	Ok
5	VX0429WBS01	VX0429WBS01	VX045975.D	29 Apr 2025 12:21		JC/MD	Ok,M
6	VX0429WBSD01	VX0429WBSD01	VX045976.D	29 Apr 2025 12:49		JC/MD	Ok,M
7	IBLK	IBLK	VX045977.D	29 Apr 2025 13:12		JC/MD	Ok
8	Q1901-07	TB04262025	VX045978.D	29 Apr 2025 13:35	vial A pH<2 TB	JC/MD	Ok
9	Q1901-06	FB04262025	VX045979.D	29 Apr 2025 13:58	vial A pH<2 FB	JC/MD	Ok
10	Q1896-03	295-BERGEN-FRAC	VX045980.D	29 Apr 2025 14:21	vial A pH<2	JC/MD	Ok
11	IBLK	IBLK	VX045981.D	29 Apr 2025 14:45		JC/MD	Ok
12	IBLK	IBLK	VX045982.D	29 Apr 2025 15:08		JC/MD	Ok
13	VSTDCCC050	VSTDCCC050EC	VX045983.D	29 Apr 2025 16:15		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM
Supervise By	Maresh Dadoda	Supervise On	4/23/2025 1:28:52 PM
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y HP Processing Method 82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133718 VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131783 VP133725

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021952.D	22 Apr 2025 11:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021953.D	22 Apr 2025 13:39		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021954.D	22 Apr 2025 14:44	Com.#16 is on Linear Regression	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021955.D	22 Apr 2025 15:07		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021956.D	22 Apr 2025 15:29		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021957.D	22 Apr 2025 15:52		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021958.D	22 Apr 2025 16:15		SY/MD	Ok,M
8	IBLK	IBLK	VY021959.D	22 Apr 2025 16:38		SY/MD	Ok
9	VSTDICV050	ICVVY042225	VY021960.D	22 Apr 2025 17:01		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM
Supervise By	Maresh Dadoda	Supervise On	5/5/2025 2:55:11 PM
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y HP Processing Method 82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133787
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133788,VP133789 VP131783

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022069.D	30 Apr 2025 08:50		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022070.D	30 Apr 2025 09:20		SY/MD	Ok,M
3	VY0430SBL01	VY0430SBL01	VY022071.D	30 Apr 2025 09:57		SY/MD	Ok
4	VY0430SBS01	VY0430SBS01	VY022072.D	30 Apr 2025 10:30		SY/MD	Ok,M
5	VY0430SBSD01	VY0430SBSD01	VY022073.D	30 Apr 2025 10:52		SY/MD	Ok,M
6	Q1911-01	EO-03-04292025	VY022074.D	30 Apr 2025 11:37	vial-A Internal Standard Fail	SY/MD	ReRun
7	Q1905-07	MH-H-VOC	VY022075.D	30 Apr 2025 12:00	vial-A	SY/MD	Ok
8	Q1910-01	MOO-25-0123-27	VY022076.D	30 Apr 2025 12:24	vial-A	SY/MD	Ok
9	Q1912-03	MH-E-VOC	VY022077.D	30 Apr 2025 12:47	vial-A	SY/MD	Ok
10	Q1912-07	MH-F-VOC	VY022078.D	30 Apr 2025 13:11	vial-A	SY/MD	Ok
11	Q1883-05	OU4-PCS-TC-29-04232	VY022079.D	30 Apr 2025 13:34	vial-B	SY/MD	Ok
12	Q1883-07	OU4-PCS-TC-30-04232	VY022080.D	30 Apr 2025 13:58	vial-B	SY/MD	Ok
13	Q1883-09	OU4-PCS-TC-31-04232	VY022081.D	30 Apr 2025 14:21	vial-B	SY/MD	Ok
14	Q1883-11	OU4-PCS-TC-32-04232	VY022082.D	30 Apr 2025 14:44	Internal Standard Fail; Surrogate fail	SY/MD	ReRun
15	Q1883-13	OU4-VSL-18-042325	VY022083.D	30 Apr 2025 15:11	NOT PURGE	SY/MD	Not Ok
16	Q1883-15	OU4-VSL-19-042325	VY022084.D	30 Apr 2025 15:55	vial-B	SY/MD	Ok
17	Q1907-01	CO-8R-WC	VY022085.D	30 Apr 2025 16:18	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY043025

Review By	Semsettin Yesilyurt	Review On	5/5/2025 4:24:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:11 PM		
SubDirectory	VY043025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133787			
CCC		VP133788,VP133789			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q1901-01	B-170-SB00	VY022086.D	30 Apr 2025 16:42	vial-A	SY/MD	Ok
19	Q1901-02	B-167-SB01	VY022087.D	30 Apr 2025 17:05	vial-A	SY/MD	Ok
20	Q1901-03	B-170-SB01	VY022088.D	30 Apr 2025 17:29	vial-A	SY/MD	Ok
21	Q1901-04	B-167-SB02	VY022089.D	30 Apr 2025 17:52	vial-A	SY/MD	Ok
22	Q1901-05	B-170-SB02	VY022090.D	30 Apr 2025 18:16	vial-A	SY/MD	Ok
23	Q1916-03	WC-12-VOC	VY022091.D	30 Apr 2025 18:39	vial-A Internal Standard Fail	SY/MD	ReRun
24	Q1917-03	MH-JJ-VOC	VY022092.D	30 Apr 2025 19:03	vial-A	SY/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VY022093.D	30 Apr 2025 19:25		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1872-24	HW0425-PT-SOL-SOIL	8	0.92	10.30	11.22	8.82	76.7	
Q1901-01	B-170-SB00	1	1.14	5.55	6.69	6.28	92.6	
Q1901-02	B-167-SB01	2	1.14	10.22	11.36	9.58	82.6	
Q1901-03	B-170-SB01	3	1.19	10.31	11.5	9.75	83.0	
Q1901-04	B-167-SB02	4	1.15	9.78	10.93	6.35	53.2	
Q1901-05	B-170-SB02	5	1.14	10.16	11.3	8.77	75.1	
Q1902-01	343	6	1.19	10.23	11.42	10.7	93.0	
Q1902-02	343	7	1.13	10.19	11.32	10.33	90.3	
Q1903-01	COMP-4	9	1.18	11.14	12.32	10.46	83.3	
Q1903-02	COMP-5	10	1.16	10.50	11.66	9.44	78.9	
Q1903-03	COMP-6	11	1.17	10.60	11.77	10.06	83.9	
Q1904-01	VNJ-210	12	1.19	10.39	11.58	10.6	90.6	
Q1905-01	MH-G	13	1.15	10.35	11.5	10.38	89.2	
Q1905-02	MH-G-EPH	14	1.16	9.65	10.81	9.71	88.6	
Q1905-03	MH-G-VOC	15	1.16	10.33	11.49	10.36	89.1	
Q1905-05	MH-H	16	1.12	10.03	11.15	10.5	93.5	
Q1905-06	MH-H-EPH	17	1.13	10.30	11.43	10.5	91.0	
Q1905-07	MH-H-VOC	18	1.12	10.03	11.15	10.01	88.6	
Q1906-01	WC-4	19	1.15	9.85	11.00	10.14	91.3	
Q1906-02	WC-4-EPH	20	1.16	9.97	11.13	10.17	90.4	
Q1906-03	WC-4-VOC	21	1.18	9.99	11.17	9.91	87.4	
Q1906-05	WC-5	22	1.16	10.82	11.98	10.19	83.5	
Q1906-06	WC-5-EPH	23	1.13	10.41	11.54	9.94	84.6	
Q1906-07	WC-5-VOC	24	1.18	10.47	11.65	11.63	99.8	
Q1906-09	WC-6	25	1.14	10.04	11.18	10.4	92.2	
Q1906-10	WC-6-EPH	26	1.15	10.77	11.92	10.23	84.3	
Q1906-11	WC-6-VOC	27	1.14	10.47	11.61	10.86	92.8	
Q1906-13	WC-7	28	1.14	10.85	11.99	10.31	84.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1906-14	WC-7-EPH	29	1.12	9.86	10.98	9.7	87.0	
Q1906-15	WC-7-VOC	30	1.13	10.27	11.4	10.23	88.6	
Q1907-01	CO-8R-WC	31	1.13	10.26	11.39	9.81	84.6	

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

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042825

WorkList ID : 189159

Department : Wet-Chemistry

Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-24	HW0425-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1903-01	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-02	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-03	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1901-01	B-170-SB00	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-02	B-167-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-03	B-170-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-04	B-167-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-05	B-170-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1902-01	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1902-02	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1904-01	VNJ-210	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-01	MH-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-02	MH-G-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-03	MH-G-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-13	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-14	WC-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-15	WC-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-06	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-07	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/28/25 17:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

Handwritten signature

WorkList Name : %1-042825 WorkList ID : 189159 Department : Wet-Chemistry Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1906-09	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-10	WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-11	WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-05	MH-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-06	MH-H-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-07	MH-H-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-01	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-02	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-03	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1907-01	CO-8R-WC	Solid	Percent Solids	Cool 4 deg C	WALS01	L51	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

Date/Time 04/28/25 17:30
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

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	Q1901-01	39.49-32.82=6.67	11:00	39.91-33.04=6.87	11:01	34.36-27.83=6.53	11:02	V14143	04/29/2025	8260 TERRACORE SAMPLES
2	Q1901-02	40.60-32.77=7.83	11:03	40.84-33.12=7.72	11:04	36.85-28.55=8.3	11:05	V14143	04/29/2025	8260 TERRACORE SAMPLES
3	Q1901-03	39.92-32.57=7.35	11:06	38.83-32.75=6.08	11:07	33.93-27.93=6	11:08	V14143	04/29/2025	8260 TERRACORE SAMPLES
4	Q1901-04	38.38-32.86=5.52	11:09	38.53-33.10=5.43	11:10	39.61-28.35=11.26	11:11	V14143	04/29/2025	8260 TERRACORE SAMPLES
5	Q1901-05	38.39-32.87=5.52	11:12	38.24-33.00=5.24	11:13	34.47-28.08=6.39	11:14	V14143	04/29/2025	8260 TERRACORE SAMPLES

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

REPORT TO BE SENT TO:
COMPANY: Summa Health
ADDRESS: 1010 Adams Ave
CITY: Aurora STATE: PA ZIP: 18403
ATTENTION: Joe Krupsky
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupsky
e-mail: QaQc@Bemsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#: 07092
ADDRESS: 284 Sheffield
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Summa Health PHONE: 188-728-348

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

1. TCL-VOLATILE
2. PLBS
3. Crating
4. TCL-SUBSTRATE
5. SAL MENTS
6. EPA
7. TCLP (L)
8. RLRA (L)
9. PLBS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-170-SB00	S		X	4/26/25	900	4	X										
2.	B-167-SB01	S		X		1000	7	X	X	X	X		X	X	X	X		
3.	B-170-SB01	S		X		1015	7	X	X	X	X		X	X	X	X		
4.	B-167-SB02	S		X		1030	8	X	X	X	X		X	X	X	X		
5.	B-170-SB02	S		X		1145	7	X	X	X	X		X	X	X	X		
6.	FB04262025	DI W				1215	11	X	X	X	X	X	X	X	X	X		PH 1.3
7.	TB04262025	DI W				NA	2	X										
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>4/26/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	4-28-25 0700	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments: <u>Tr. 6.0 #1 "Adjust factor + 1"</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.		Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901 PORT06

Order Date : 4/28/2025 10:24:00 AM

Project Mgr :

Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 4/28/2025 7:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :

Hard Copy Date :

Invoice Contact : Joseph Krupansky

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1901-01	B-170-SB00	Solid	04/26/2025	09:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-02	B-167-SB01	Solid	04/26/2025	10:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-03	B-170-SB01	Solid	04/26/2025	10:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-04	B-167-SB02	Solid	04/26/2025	10:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-05	B-170-SB02	Solid	04/26/2025	11:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-06	FB04262025	Water	04/26/2025	12:15	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1901-07	TB04262025	Water	04/26/2025	00:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901	PORT06	Order Date : 4/28/2025 10:24:00 AM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 4/28/2025 7:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : CP

Date / Time : 4/28/25 11:45

Received By : JK

Date / Time : 4/28/25 1145

Storage Area : VOA Refridgerator Room