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Cover Page

Order ID : Q1901

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1901-01	B-170-SB00
Q1901-02	B-167-SB01
Q1901-03	B-170-SB01
Q1901-04	B-167-SB02
Q1901-05	B-170-SB02
Q1901-06	FB04262025
Q1901-07	TB04262025
Q1901-08	B-167-SB01
Q1901-09	B-170-SB01
Q1901-10	B-167-SB02
Q1901-11	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: 5/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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#121-1324UIThe 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.

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.
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.

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

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_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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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 Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **05/09/2025**

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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**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
			VOC-TCLVOA-10	8260D			05/01/25	
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
			VOC-TCLVOA-10	8260D			05/01/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260D			04/30/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260-Low			04/29/25	
Q1901-07	**TB04262025**	**Water**			**04/26/25**			**04/28/25**
			VOC-TCLVOA-10	8260-Low			04/29/25	
Q1901-08	**B-167-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-09	**B-170-SB01**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-10	**B-167-SB02**	**TCLP**			**04/26/25**			**04/28/25**
			TCLP VOA	8260D			04/30/25	
Q1901-11	**B-170-SB02**	**TCLP**			**04/26/25**			**04/28/25**

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LAB CHRONICLE

TCLP VOA	8260D	04/30/25

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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-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				

QC SUMMARY

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Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1901-01	B-170-SB00	1,2-Dichloroethane-d4	50	53.5	107	70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102	70 (70)	130 (134)
		Toluene-d8	50	48.2	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	54.9	110	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	55.0	110	70 (63)	130 (155)
		Dibromofluoromethane	50	51.4	103	70 (70)	130 (134)
		Toluene-d8	50	47.9	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	56.5	113	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)
VY0501SBL01	VY0501SBL01	1,2-Dichloroethane-d4	50	49.2	98	70 (63)	130 (155)
		Dibromofluoromethane	50	50.6	101	70 (70)	130 (134)
		Toluene-d8	50	47.8	96	70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.1	106	70 (38)	130 (136)
VY0501SBS01	VY0501SBS01	1,2-Dichloroethane-d4	50	47.5	95	70 (63)	130 (155)
		Dibromofluoromethane	50	49.5	99	70 (70)	130 (134)
		Toluene-d8	50	50.1	100	70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.3	99	70 (38)	130 (136)

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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	Limits 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)

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Alliance TECHNICAL GROUP
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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	Limits 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)	

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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	Limits 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)	

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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	Limits Low	Limits High	Limits 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)

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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	Limits Low	Limits High	Limits 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)

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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	Limits 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)	

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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	Limits Low	Limits High	Limits 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)	

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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	Limits Low	Limits High	Limits 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)

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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	Limits Low	Limits High	Limits 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)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022097.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0501SBS01	Dichlorodifluoromethane	20	19.2	ug/Kg	96			40 (64)	160 (136)	
	Chloromethane	20	18.7	ug/Kg	94			40 (70)	160 (130)	
	Vinyl chloride	20	18.7	ug/Kg	94			70 (72)	130 (129)	
	Bromomethane	20	18.6	ug/Kg	93			40 (58)	160 (141)	
	Chloroethane	20	18.9	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.9	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	91.2	ug/Kg	91			40 (60)	160 (131)	
	Carbon disulfide	20	19.5	ug/Kg	98			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.0	ug/Kg	90			70 (77)	130 (129)	
	Methyl Acetate	20	18.7	ug/Kg	94			70 (69)	130 (149)	
	Methylene Chloride	20	19.3	ug/Kg	97			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	Cyclohexane	20	18.8	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	86.7	ug/Kg	87			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.6	ug/Kg	103			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.8	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	18.9	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.2	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.0	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	20.2	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.9	ug/Kg	100			70 (81)	130 (126)	
	Trichloroethene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.1	ug/Kg	101			70 (83)	130 (122)	
	Bromodichloromethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	88.1	ug/Kg	88			40 (70)	160 (135)	
	Toluene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.9	ug/Kg	95			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	84.7	ug/Kg	85			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.5	ug/Kg	98			70 (82)	130 (124)	
	m/p-Xylenes	40	40.5	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.6	ug/Kg	98			70 (83)	130 (123)	
	Styrene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	Bromoform	20	19.6	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.4	ug/Kg	92			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022097.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0501SBS01	1,2-Dibromo-3-Chloropropane	20	17.7	ug/Kg	89			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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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:

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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-167-SB01	Q1901-02	VY022087.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:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0501SBL01

Lab Name: CHEMTECH Contract: PORT06

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

Lab File ID: VY022096.D Lab Sample ID: VY0501SBL01

Date Analyzed: 05/01/2025 Time Analyzed: 10:11

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
VY0501SBS01	VY0501SBS01	VY022097.D	05/01/2025
B-170-SB00	Q1901-01	VY022105.D	05/01/2025
B-170-SB01	Q1901-03	VY022106.D	05/01/2025

COMMENTS:

Raw Data: **VX045524.D**

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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
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

Raw Data: **VX045971.D**

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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

Raw Data: **VY021952.D**

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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: 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
VSTDICC005	VSTDICC005	VY021953.D	04/22/2025	13:39
VSTDICC010	VSTDICC010	VY021954.D	04/22/2025	14:44
VSTDICC020	VSTDICC020	VY021955.D	04/22/2025	15:07
VSTDICCC050	VSTDICCC050	VY021956.D	04/22/2025	15:29
VSTDICC100	VSTDICC100	VY021957.D	04/22/2025	15:52
VSTDICC150	VSTDICC150	VY021958.D	04/22/2025	16:15

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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: 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-167-SB01	Q1901-02	VY022087.D	04/30/2025	17:05
B-167-SB02	Q1901-04	VY022089.D	04/30/2025	17:52
B-170-SB02	Q1901-05	VY022090.D	04/30/2025	18:16

Raw Data: **VY022094.D**

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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: VY022094.D BFB Injection Date: 05/01/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:20

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	47.7
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	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	87.7
175	5.0 - 9.0% of mass 174	6.9 (7.8) 1
176	95.0 - 101.0% of mass 174	83.4 (95.1) 1
177	5.0 - 9.0% of mass 176	5.6 (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
VSTDCCC050	VSTDCCC050	VY022095.D	05/01/2025	08:50
VY0501SBL01	VY0501SBL01	VY022096.D	05/01/2025	10:11
VY0501SBS01	VY0501SBS01	VY022097.D	05/01/2025	10:42
B-170-SB00	Q1901-01	VY022105.D	05/01/2025	14:15
B-170-SB01	Q1901-03	VY022106.D	05/01/2025	14:38

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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.

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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.

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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-167-SB01	348376	7.71	652384	8.61	556238	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.

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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-167-SB01	176600	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.

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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: VY022095.D Date Analyzed: 05/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:50

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	300031	7.71	433614	8.62	410078	11.42
UPPER LIMIT	600062	8.207	867228	9.116	820156	11.92
LOWER LIMIT	150016	7.207	216807	8.116	205039	10.92
EPA SAMPLE NO.						
B-170-SB00	310481	7.71	585270	8.62	519369	11.41
B-170-SB01	307701	7.71	584162	8.62	521346	11.42
VY0501SBL01	317996	7.71	585580	8.62	508953	11.42
VY0501SBS01	294485	7.71	452802	8.62	414235	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.

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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: VY022095.D Date Analyzed: 05/01/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:50

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

	IS4 AREA #	RT #				
12 HOUR STD	227184	13.347				
UPPER LIMIT	454368	13.847				
LOWER LIMIT	113592	12.847				
EPA SAMPLE NO.						
B-170-SB00	196391	13.35				
B-170-SB01	197125	13.35				
VY0501SBL01	180066	13.35				
VY0501SBS01	225406	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

Raw Data: **VY022105.D**

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

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
VY022105.D	1		05/01/25 14:15	VY050125

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

Raw Data: **VY022105.D**

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

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
VY022105.D	1		05/01/25 14:15	VY050125

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	53.5		70 (63) - 130 (155)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		70 (38) - 130 (136)	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	310000	7.707			
540-36-3	1,4-Difluorobenzene	585000	8.616			
3114-55-4	Chlorobenzene-d5	519000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.347			

Raw Data: **VY022105.D**

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

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
VY022105.D	1		05/01/25 14:15	VY050125

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\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Time: May 02 01:30:19 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	310481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	585270	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	519369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	196391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	153526	53.533	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.060%			
35) Dibromofluoromethane	7.634	113	196359	50.783	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.560%			
50) Toluene-d8	10.109	98	702240	48.174	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.340%			
62) 4-Bromofluorobenzene	12.408	95	269562	54.932	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.860%			

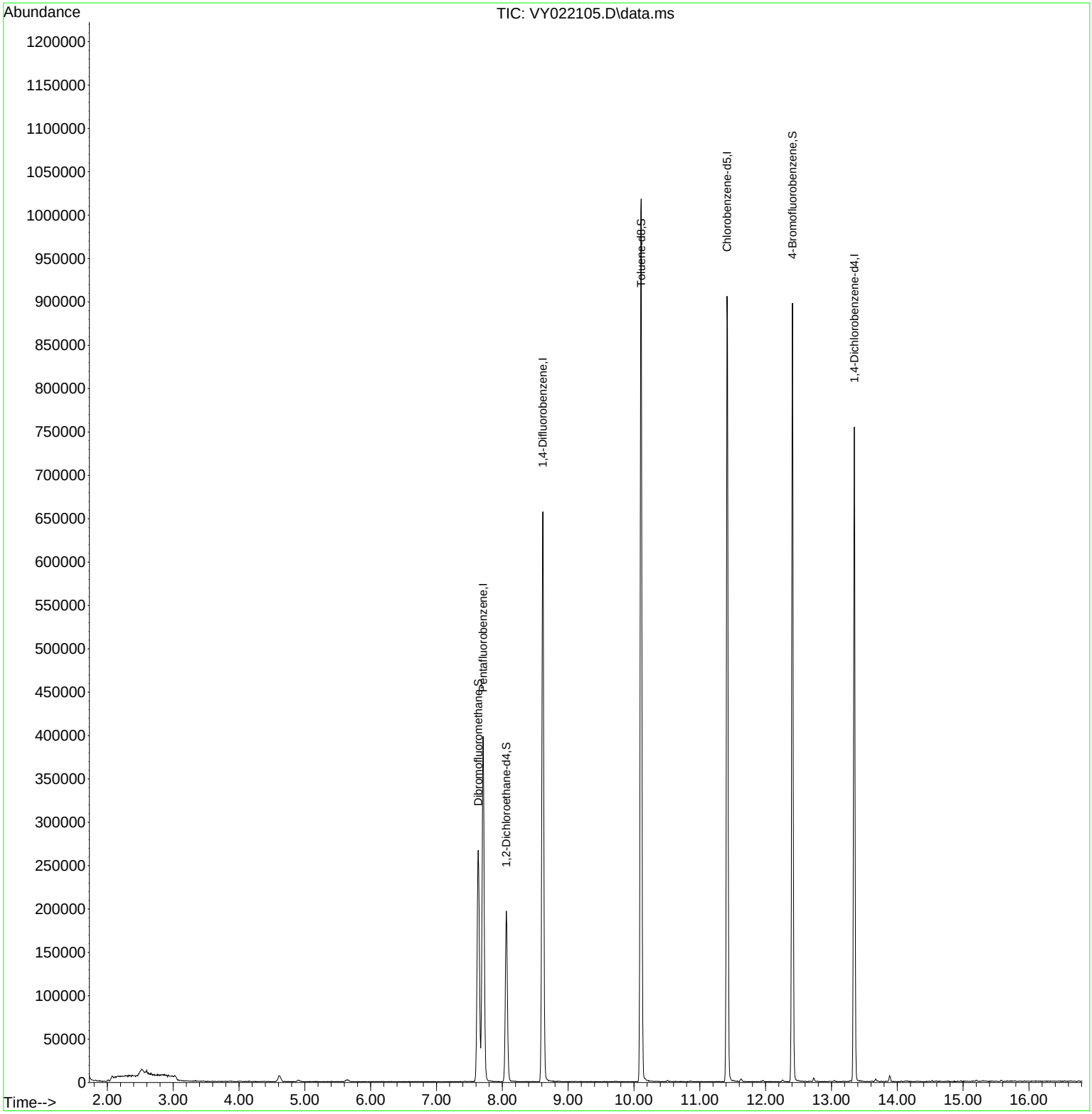
Target Compounds Qvalue

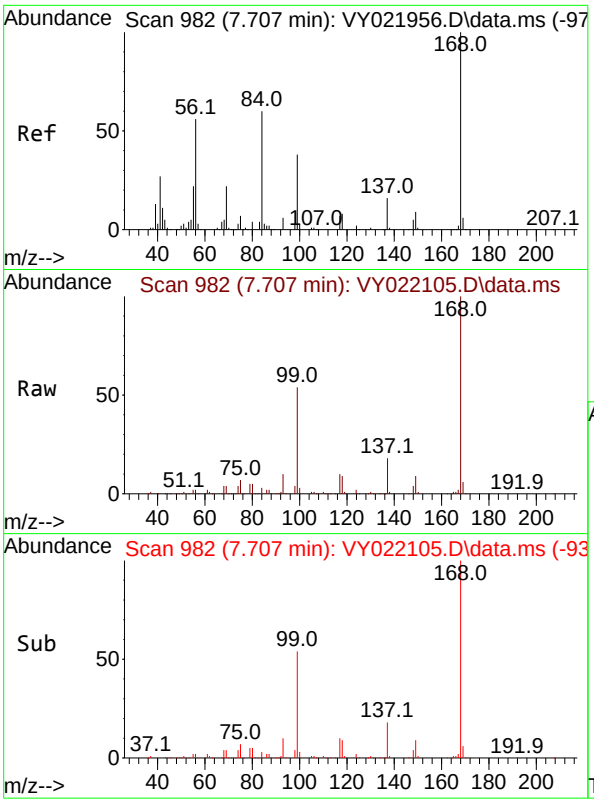
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Quant Time: May 02 01:30:19 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



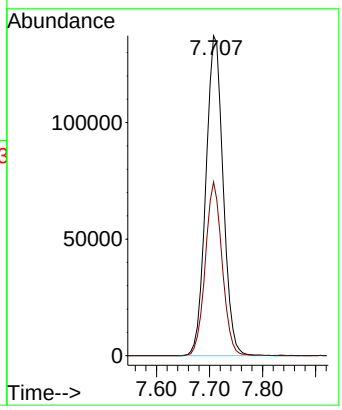


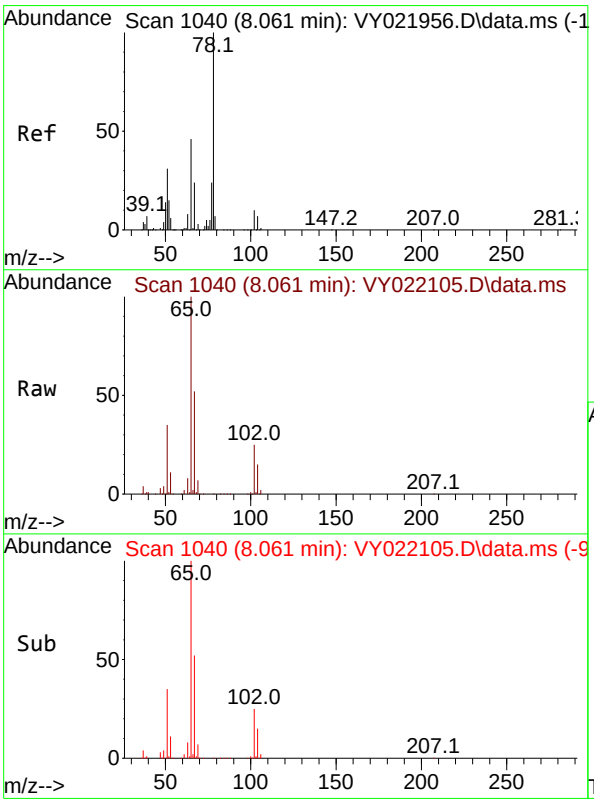
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:168 Resp: 310481

Ion	Ratio	Lower	Upper
168	100		
99	54.3	43.1	64.7

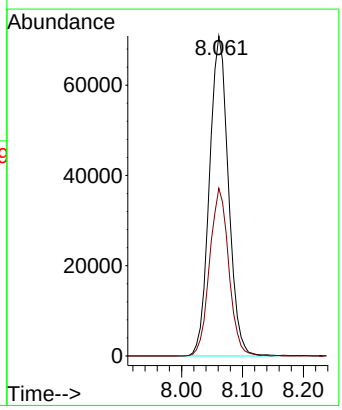


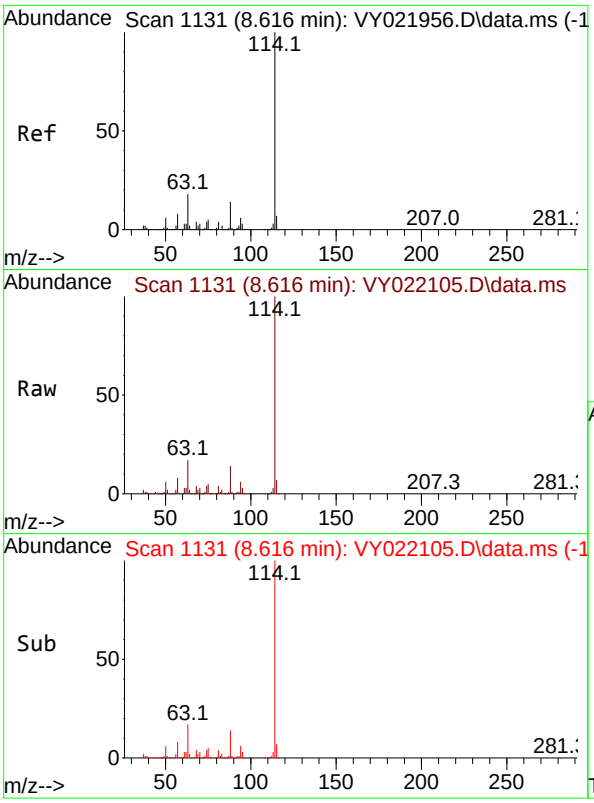


#33
1,2-Dichloroethane-d4
Concen: 53.533 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion: 65 Resp: 153526

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



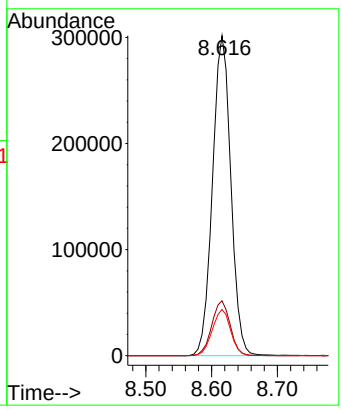


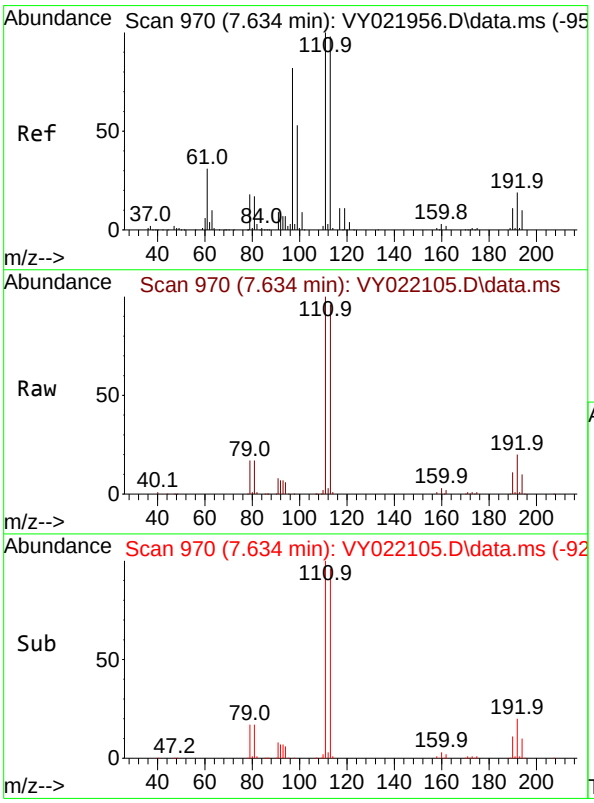
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:114 Resp: 585270

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.4
88	14.4	0.0	28.2

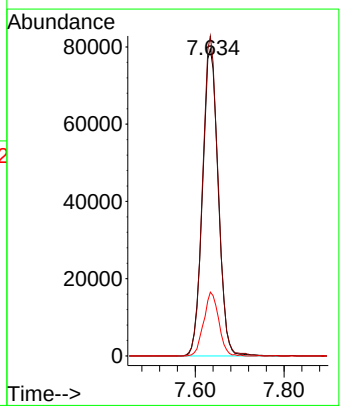


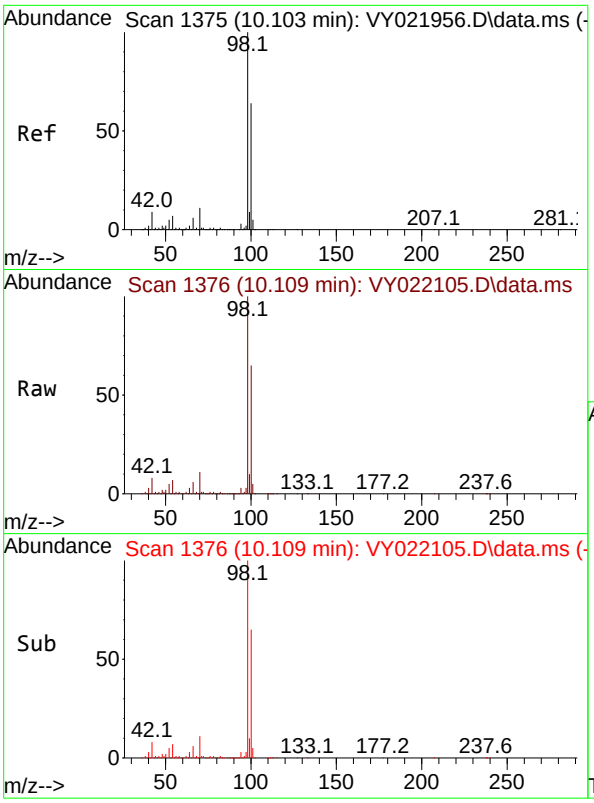


#35
Dibromofluoromethane
Concen: 50.783 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion:113 Resp: 196359

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	19.9	15.6	23.4



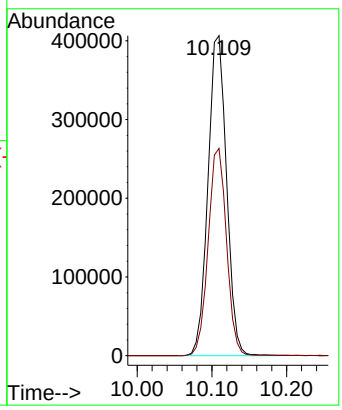


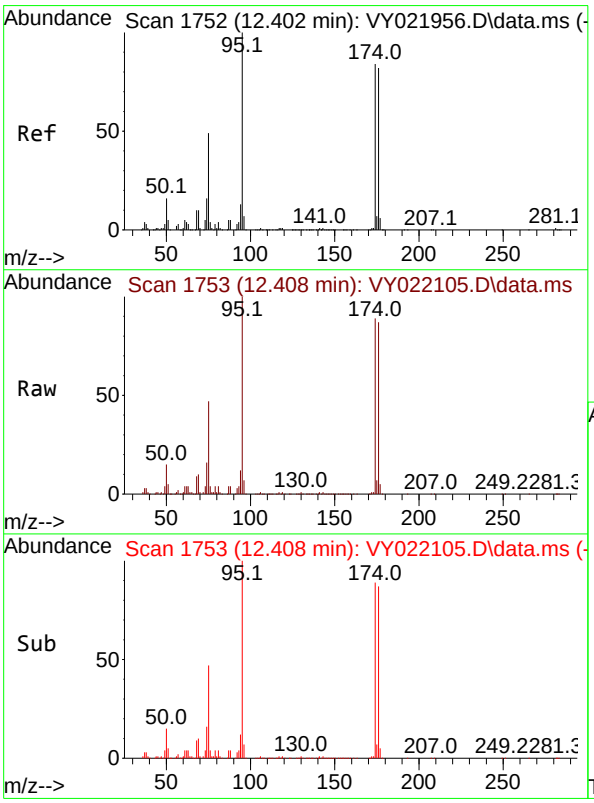
#50
Toluene-d8
Concen: 48.174 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion: 98 Resp: 702240

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

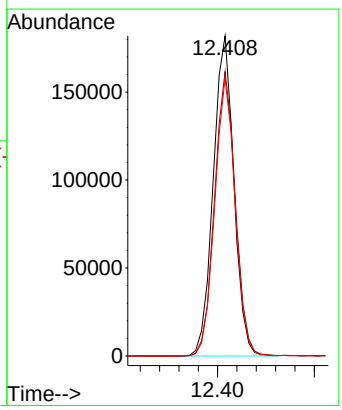


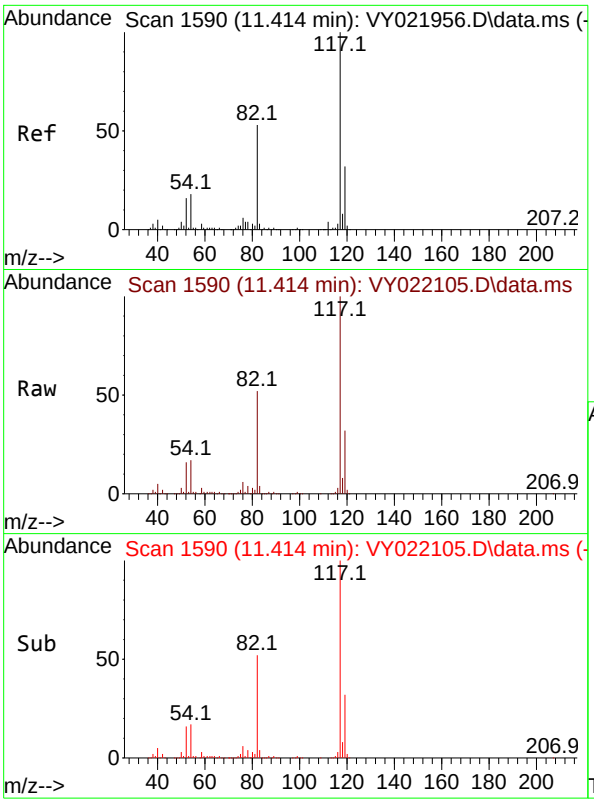


#62
4-Bromofluorobenzene
Concen: 54.932 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion: 95 Resp: 269562

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	179.0
176	86.2	0.0	171.8



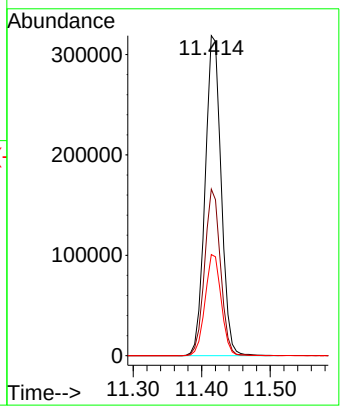


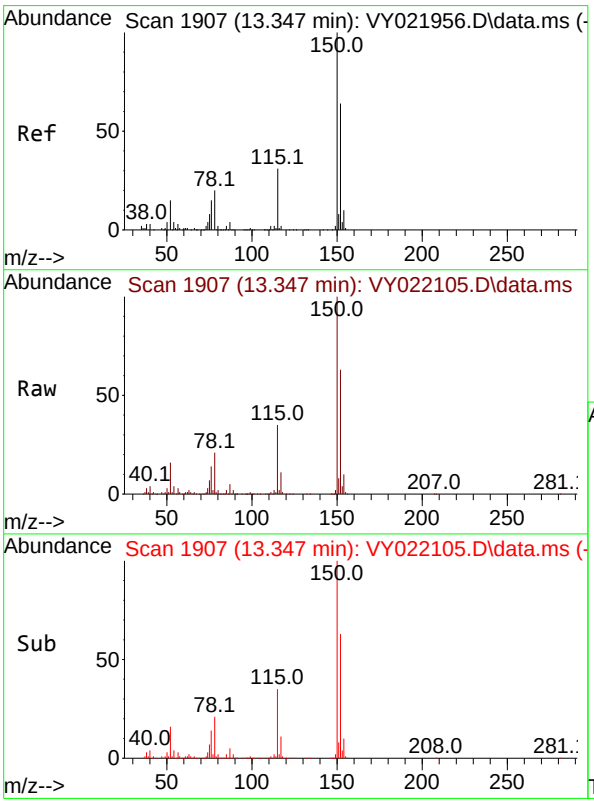
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB00

Tgt Ion:117 Resp: 519369

Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.1	63.1
119	31.6	25.7	38.5

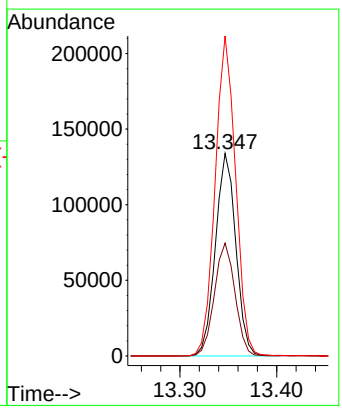




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022105.D
Acq: 01 May 2025 14:15

Tgt Ion:152 Resp: 196391

Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.0	84.0
150	158.2	0.0	345.6



Sample Results: **VY022105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 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: VY022105.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	465	474	484	rVB5	7040	22569	1.27%	0.250%
2	7.634	959	970	976	rBV	266775	648695	36.62%	7.195%
3	7.707	976	982	996	rVB	397528	893839	50.45%	9.914%
4	8.061	1030	1040	1051	rBV	196876	433782	24.49%	4.811%
5	8.616	1122	1131	1145	rBV	657004	1283538	72.45%	14.236%
6	10.109	1368	1376	1390	rBV	1017914	1771561	100.00%	19.648%
7	11.414	1581	1590	1603	rBV	905873	1482936	83.71%	16.447%
8	12.408	1745	1753	1766	rBV	897673	1360181	76.78%	15.086%
9	13.347	1900	1907	1916	rBV	754380	1119179	63.17%	12.413%

Sum of corrected areas: 9016280

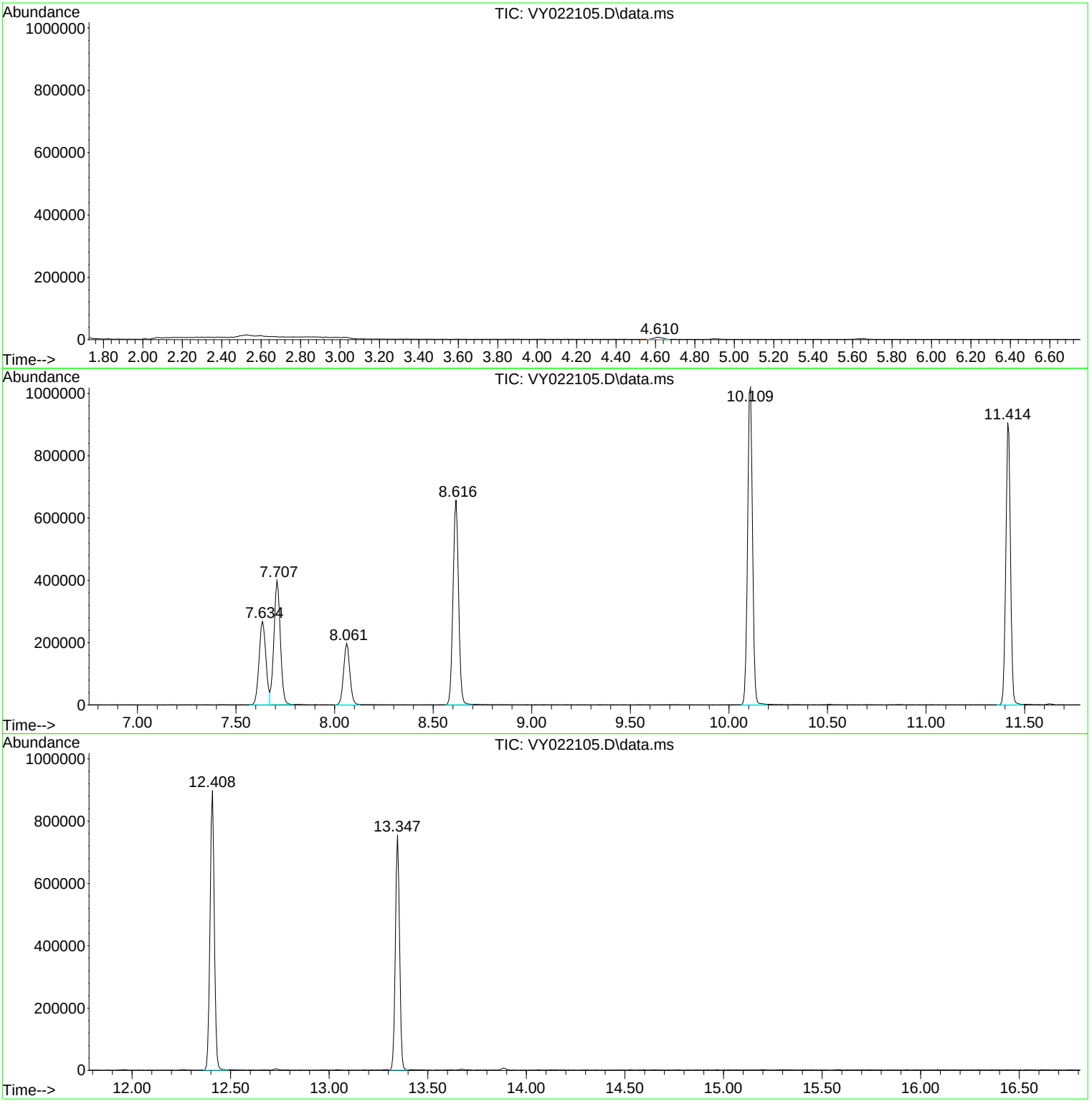
Sample Results: **VY022105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022105.D
Acq On : 01 May 2025 14:15
Operator : SY/MD
Sample : Q1901-01
Misc : 6.67g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 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

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

Raw Data: **VY022087.D**

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

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

Raw Data: **VY022087.D**

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

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			

Raw Data: **VY022087.D**

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

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%			

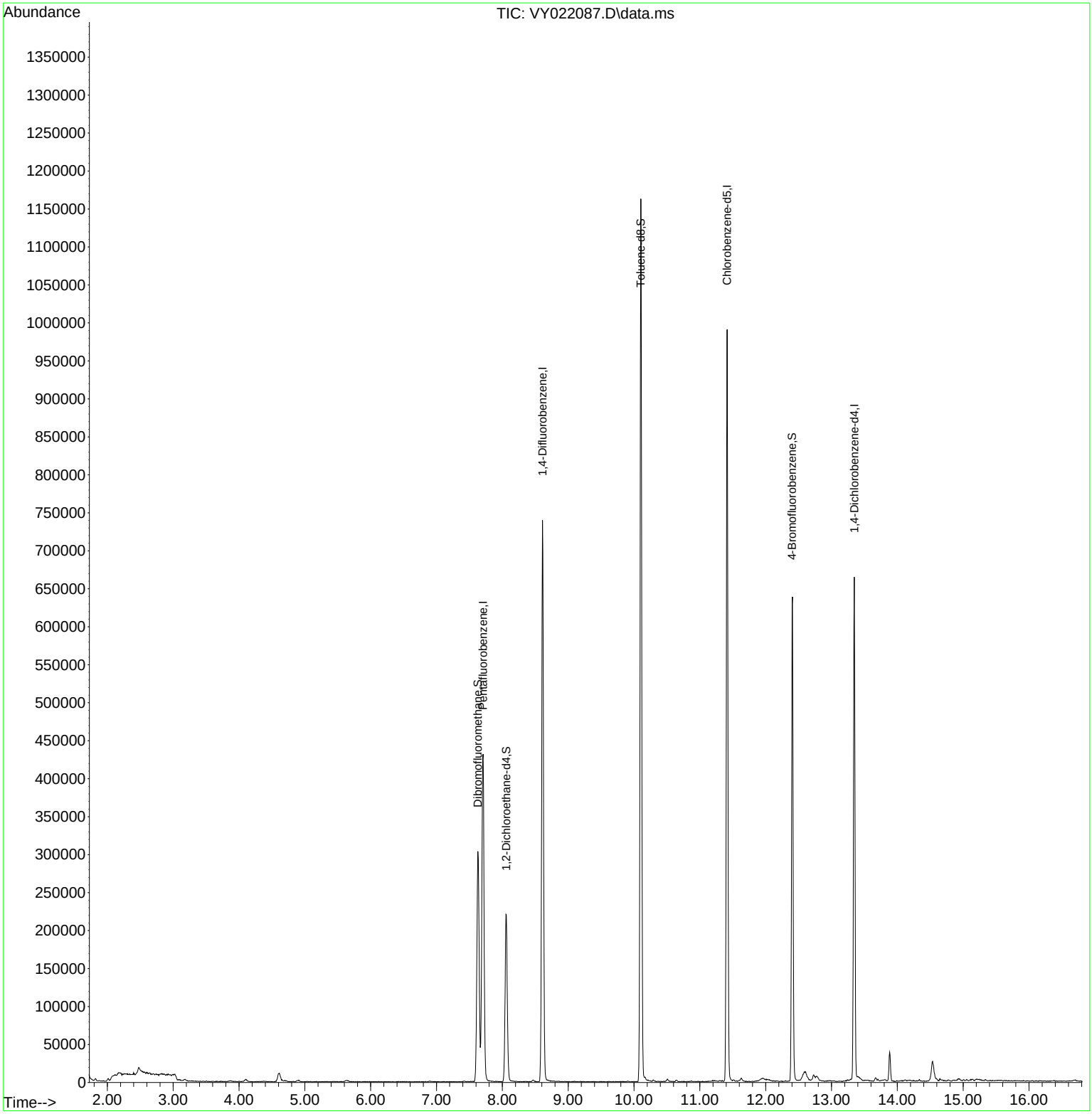
Target Compounds Qvalue

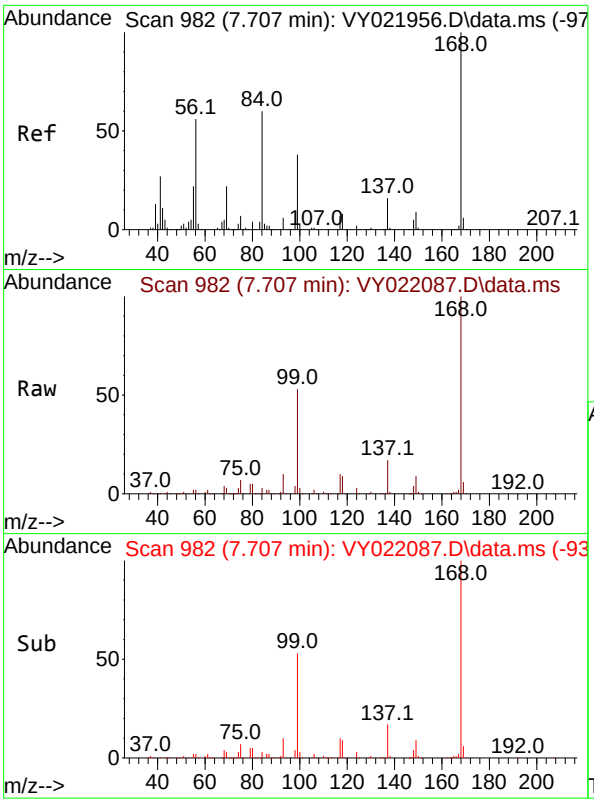
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



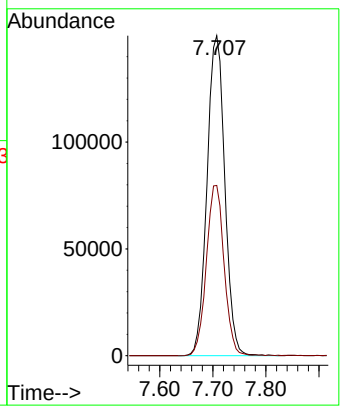


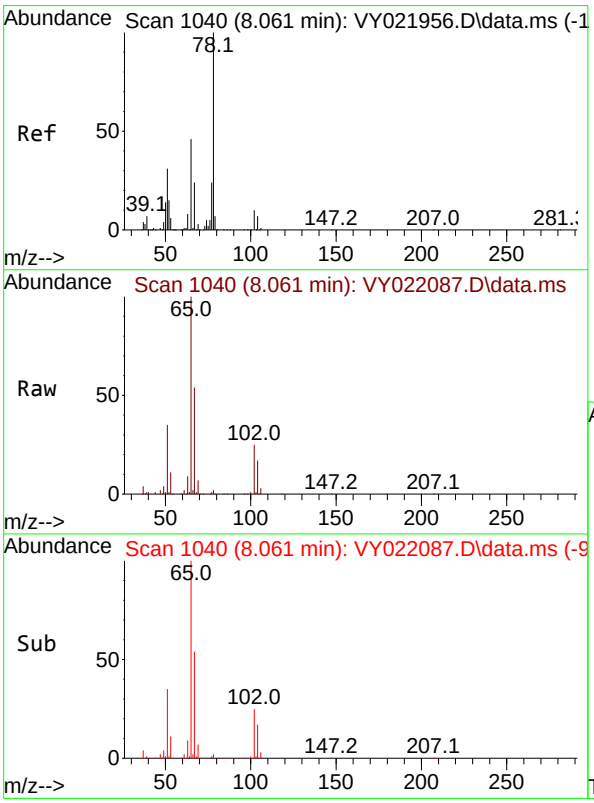
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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

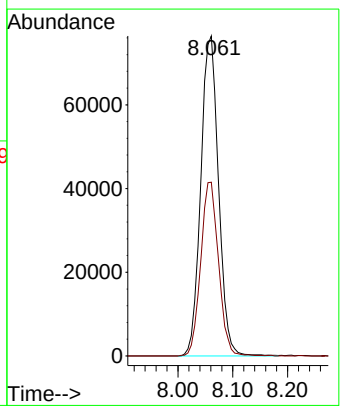


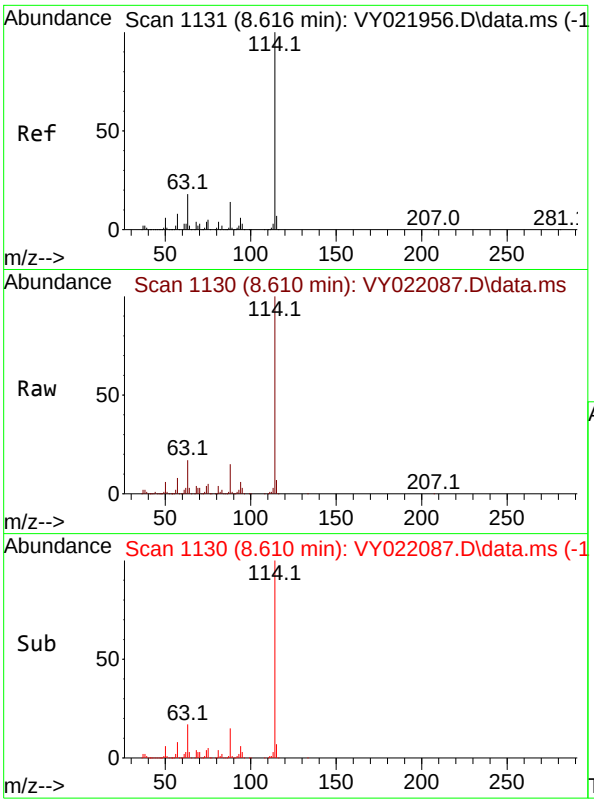


#33
1,2-Dichloroethane-d4
Concen: 53.310 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 65 Resp: 171544

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.8



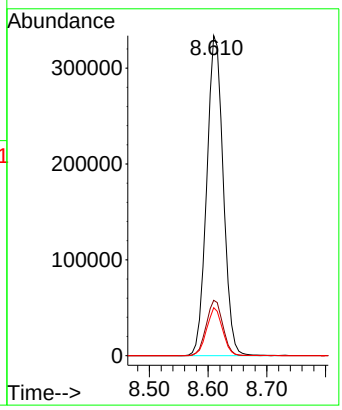


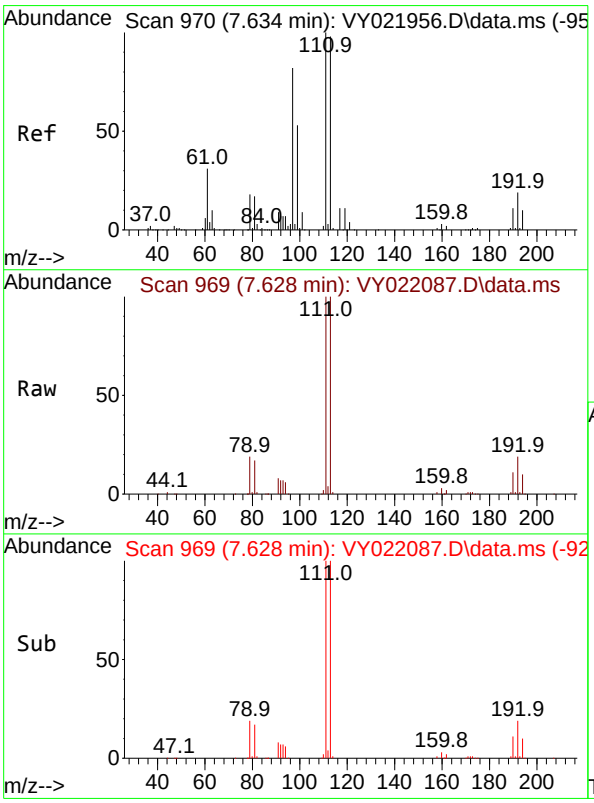
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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

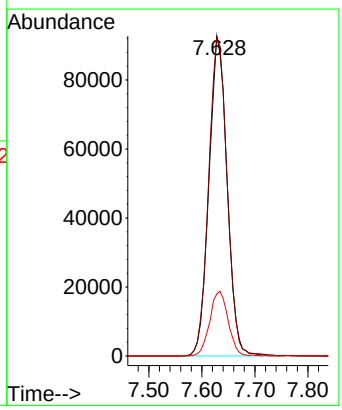


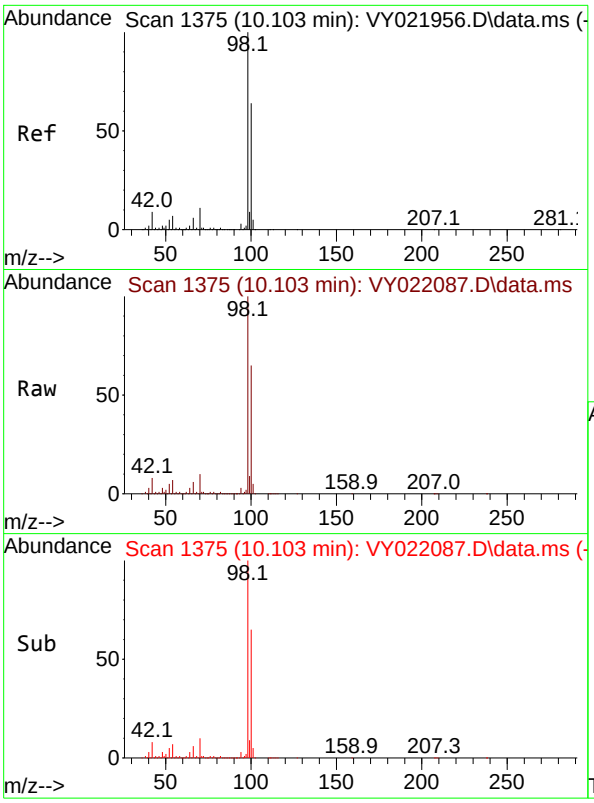


#35
Dibromofluoromethane
Concen: 51.127 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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



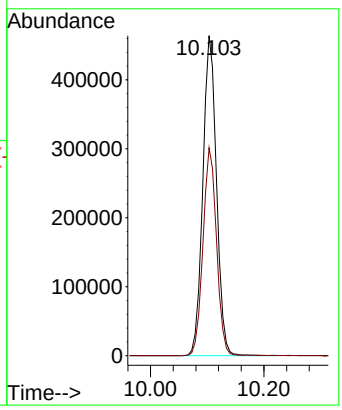


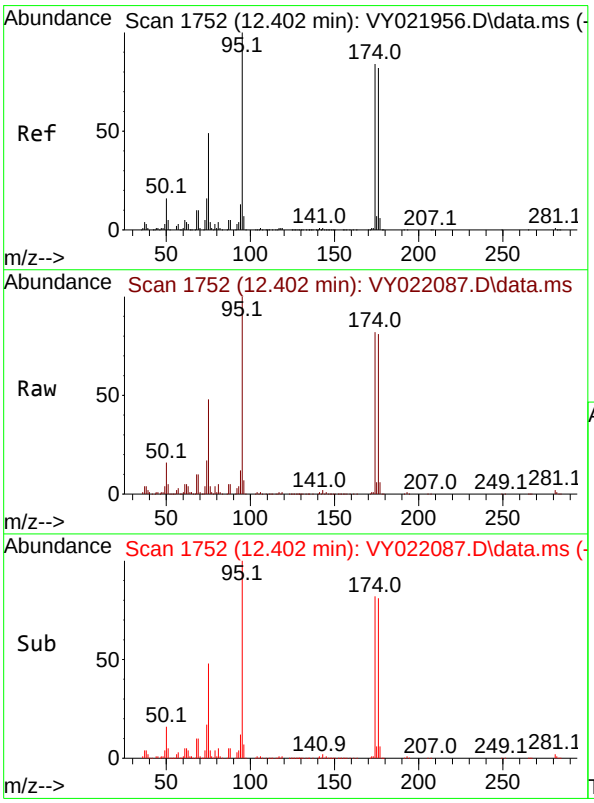
#50
Toluene-d8
Concen: 47.680 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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

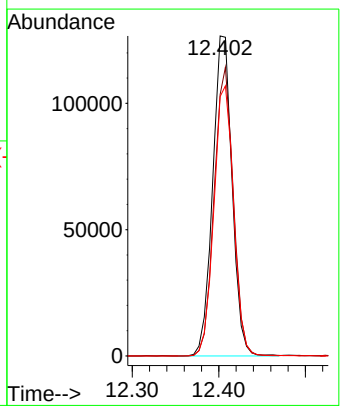


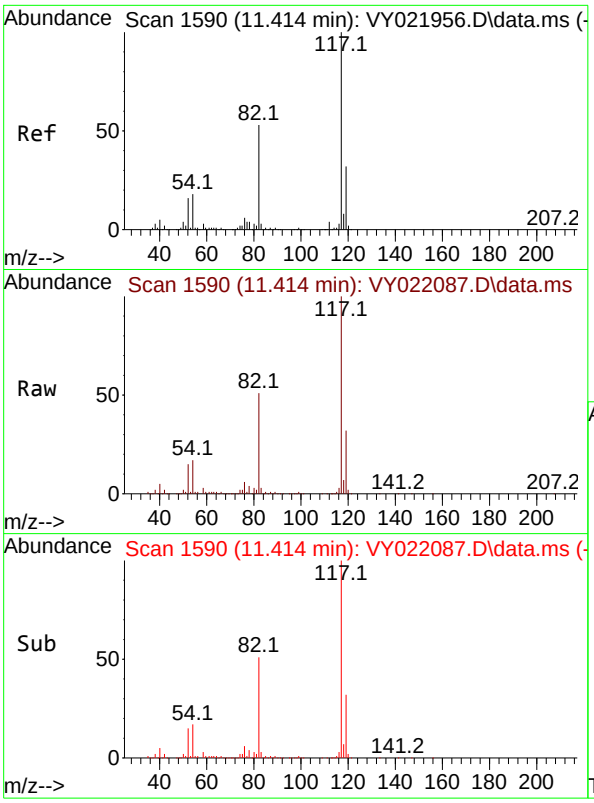


#62
4-Bromofluorobenzene
Concen: 36.079 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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



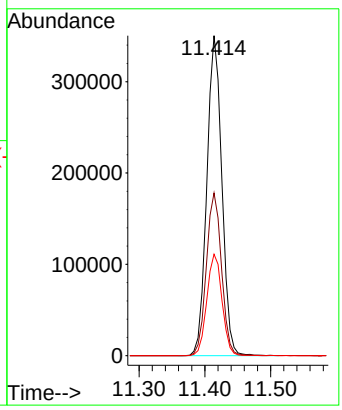


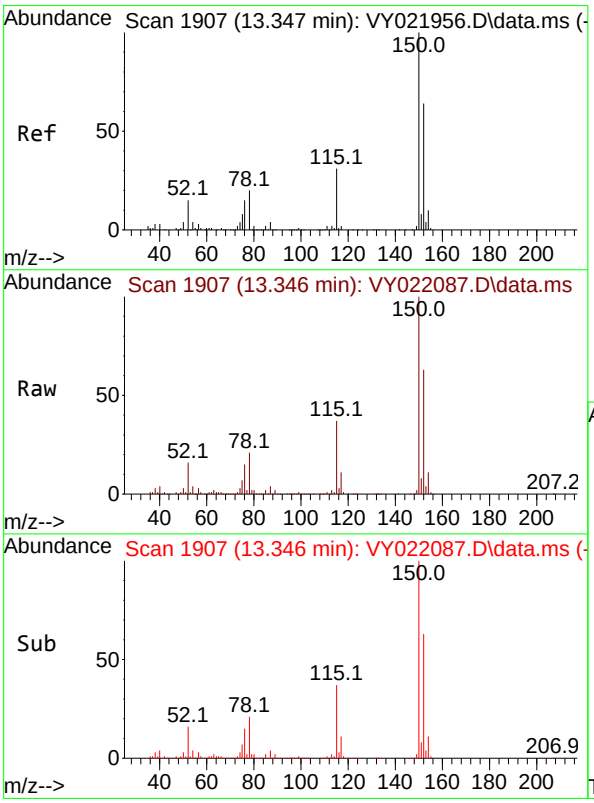
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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

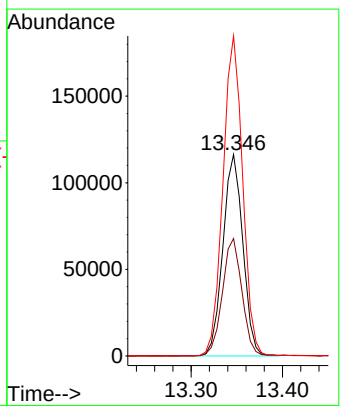




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022087.D
Acq: 30 Apr 2025 17:05

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



Sample Results: **VY022087.D**

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 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: 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

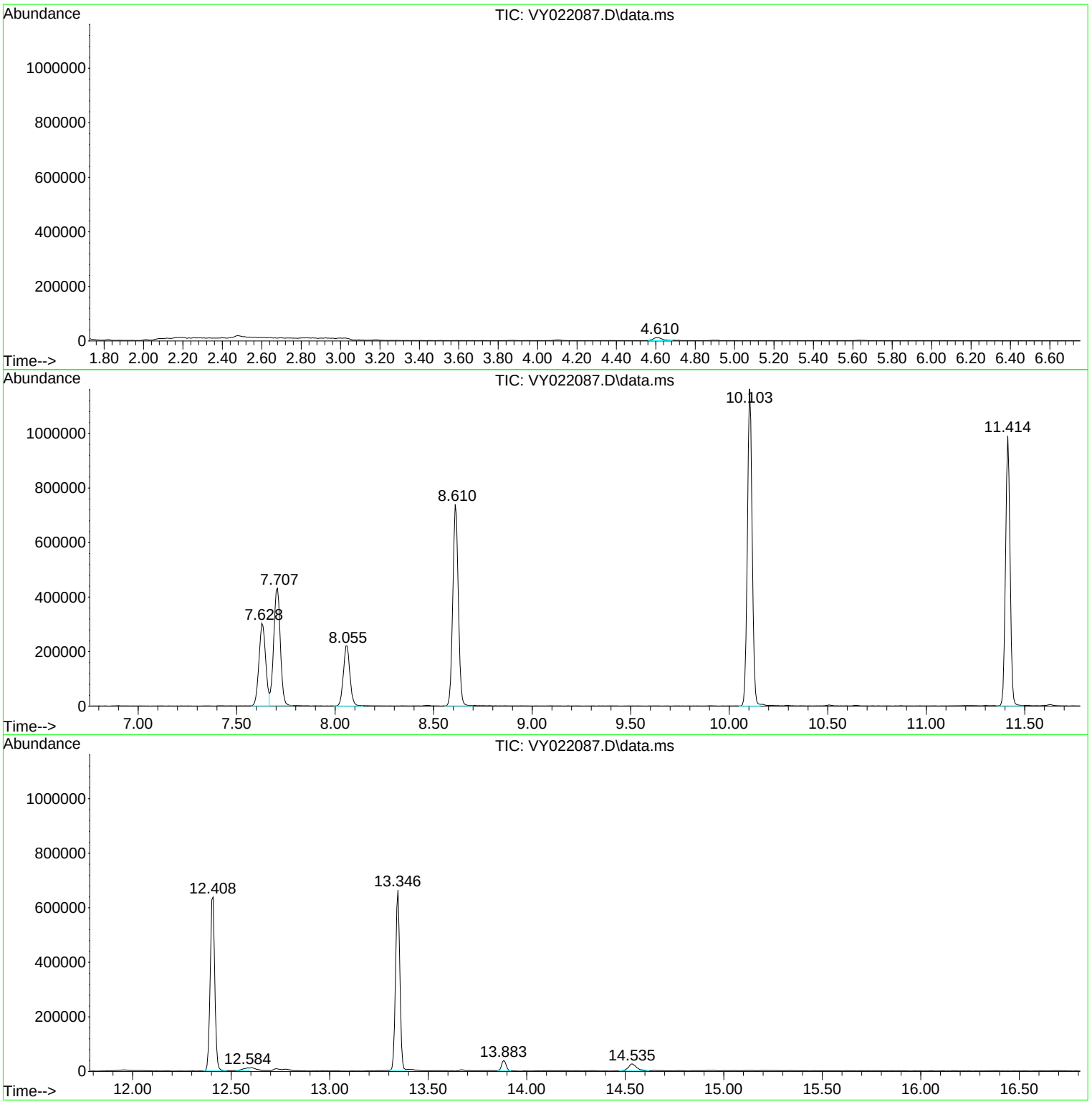
Sample Results: **VY022087.D**

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



Library Search Compound Report

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

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

Raw Data: **VY022106.D**

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

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
VY022106.D	1		05/01/25 14:38	VY050125

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

Raw Data: **VY022106.D**

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

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
VY022106.D	1		05/01/25 14:38	VY050125

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	55.0		70 (63) - 130 (155)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	47.9		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		70 (38) - 130 (136)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	308000	7.713			
540-36-3	1,4-Difluorobenzene	584000	8.615			
3114-55-4	Chlorobenzene-d5	521000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.346			

Raw Data: **VY022106.D**

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

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
VY022106.D	1		05/01/25 14:38	VY050125

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\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Time: May 02 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	7.713	168	307701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	584162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	521346	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	197125	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156205	54.960	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.920%			
35) Dibromofluoromethane	7.634	113	198196	51.356	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.720%			
50) Toluene-d8	10.109	98	696993	47.905	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.800%			
62) 4-Bromofluorobenzene	12.407	95	276478	56.448	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 112.900%			

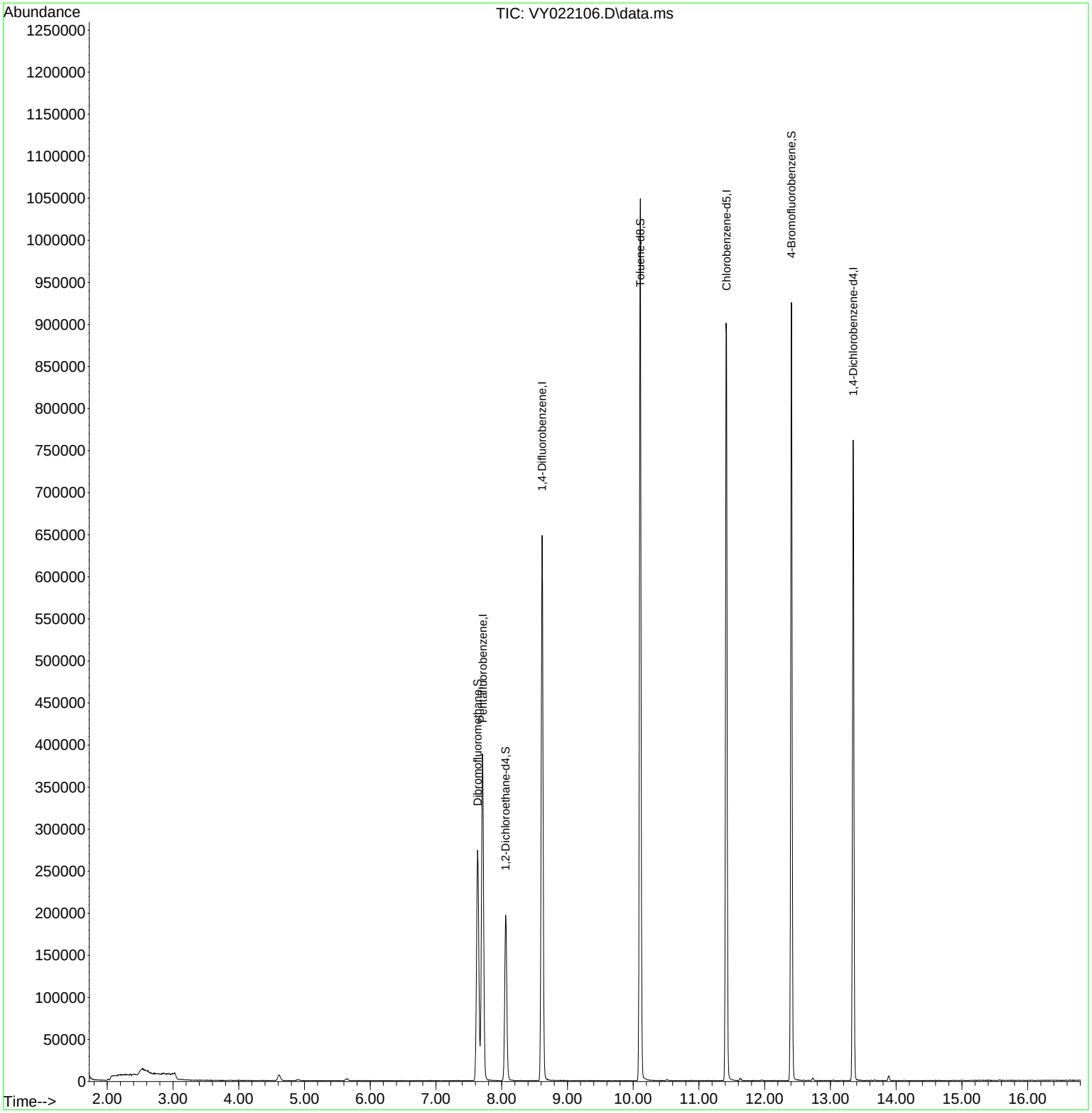
Target Compounds Qvalue

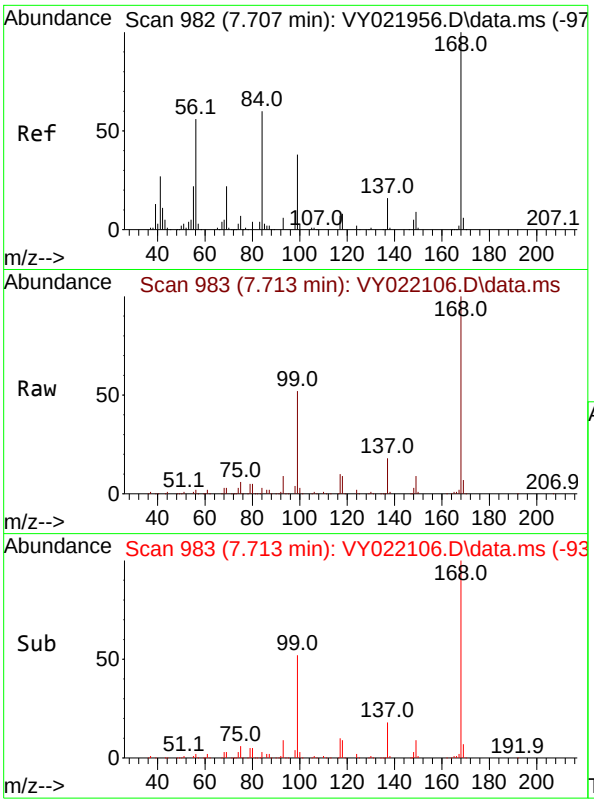
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Quant Time: May 02 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



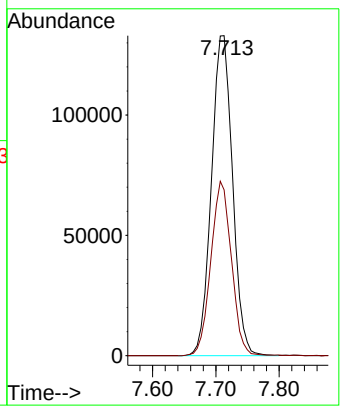


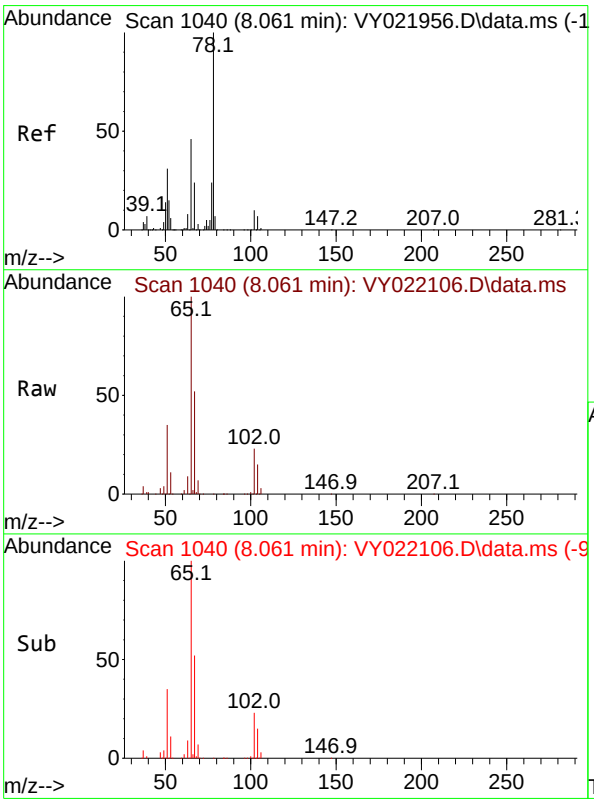
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:168 Resp: 307701

Ion	Ratio	Lower	Upper
168	100		
99	51.8	43.1	64.7

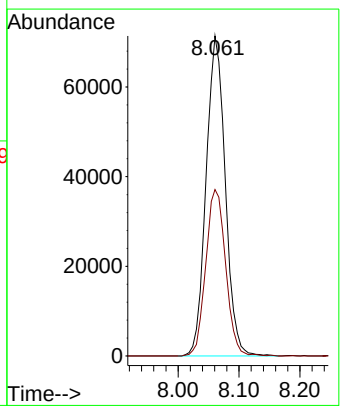


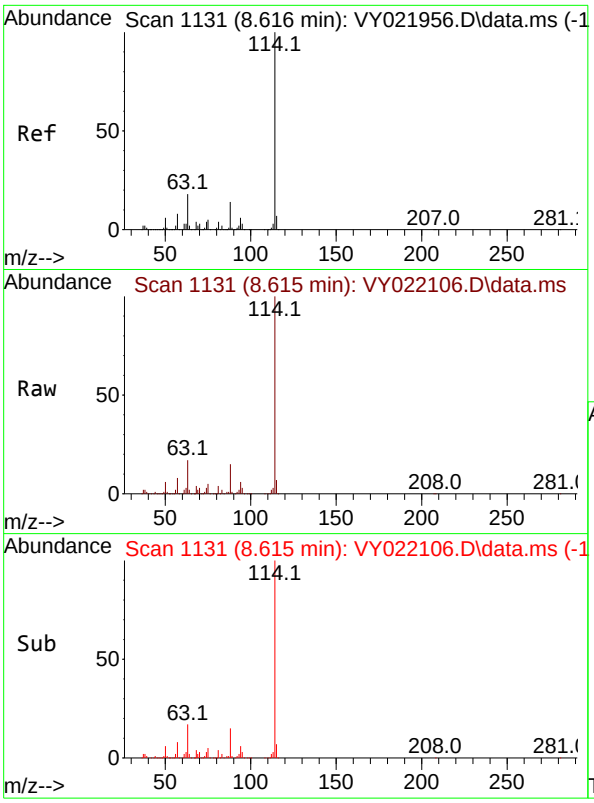


#33
1,2-Dichloroethane-d4
Concen: 54.960 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion: 65 Resp: 156205

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.8



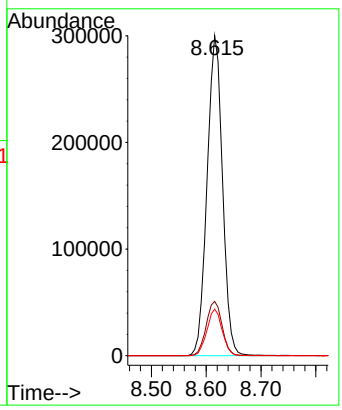


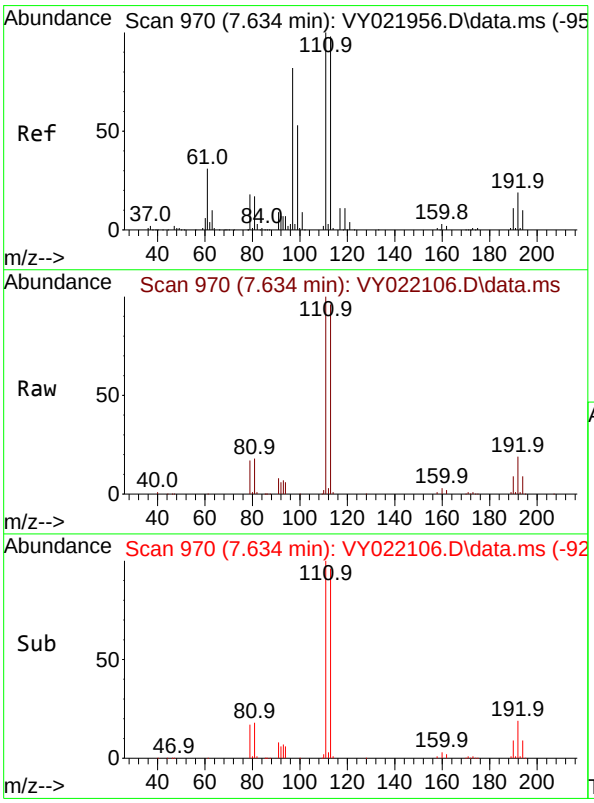
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:114 Resp: 584162

Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	35.4
88	14.6	0.0	28.2

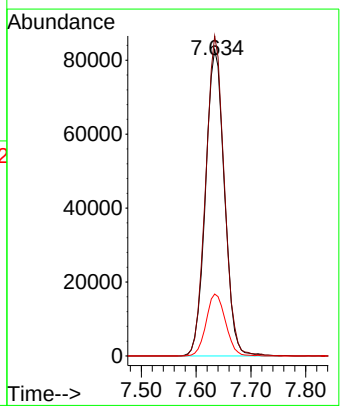


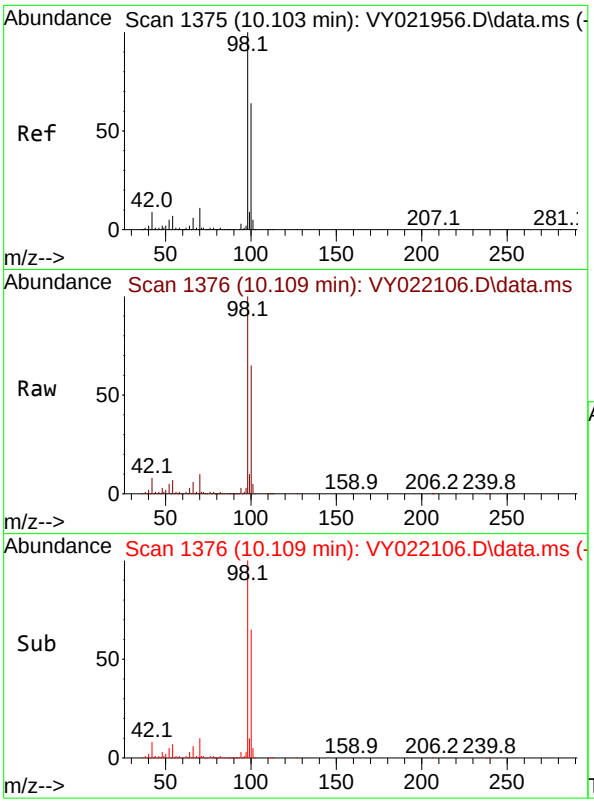


#35
Dibromofluoromethane
Concen: 51.356 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion:113 Resp: 198196

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.8
192	20.8	15.6	23.4



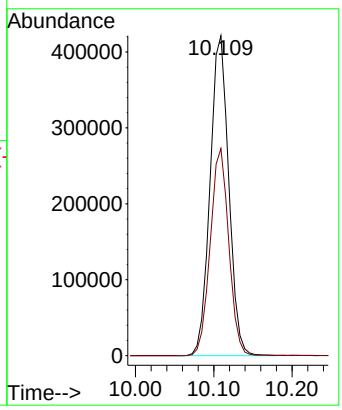


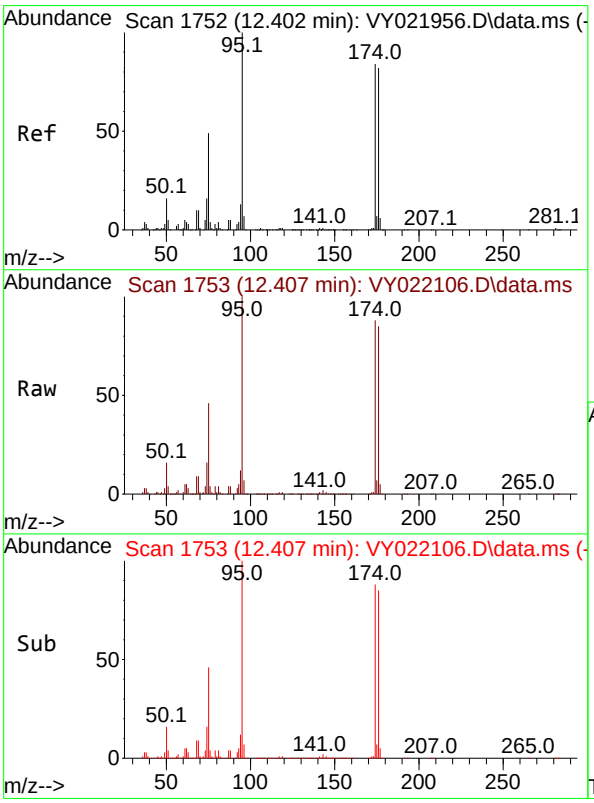
#50
Toluene-d8
Concen: 47.905 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion: 98 Resp: 696993

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4

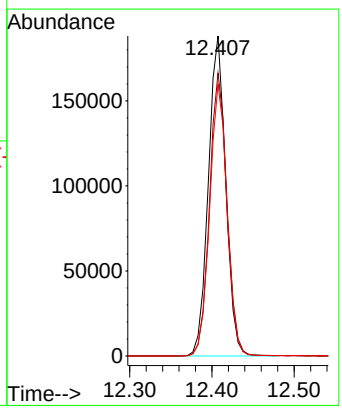


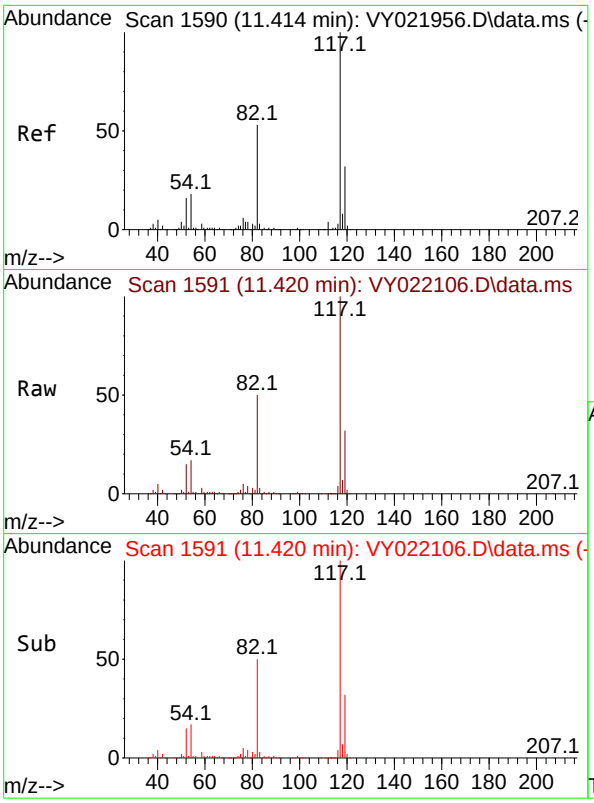


#62
4-Bromofluorobenzene
Concen: 56.448 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion: 95 Resp: 276478

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	179.0
176	85.3	0.0	171.8



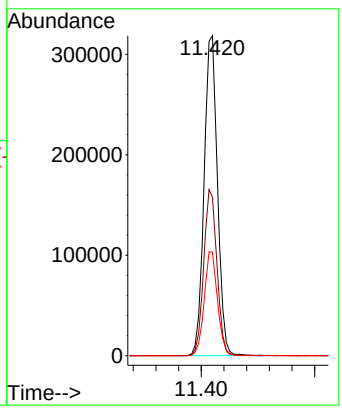


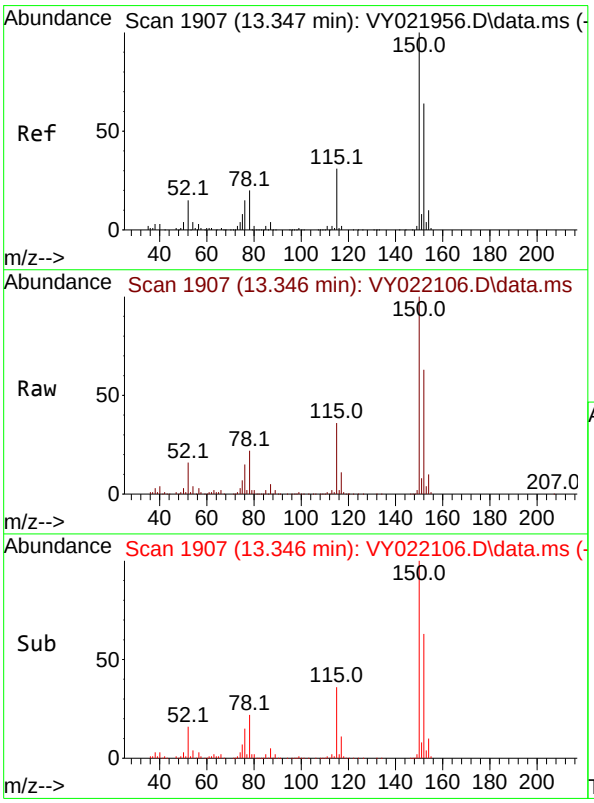
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

Tgt Ion:117 Resp: 521346

Ion	Ratio	Lower	Upper
117	100		
82	49.5	42.1	63.1
119	32.4	25.7	38.5

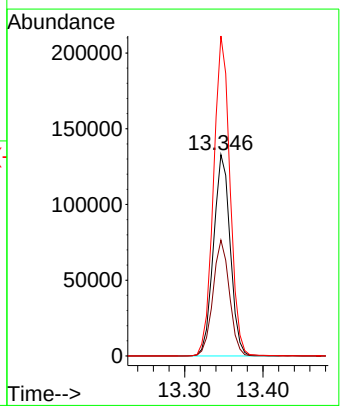




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022106.D
Acq: 01 May 2025 14:38

Tgt Ion:152 Resp: 197125

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.0	84.0
150	156.6	0.0	345.6



Sample Results: **VY022106.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-170-SB01

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: VY022106.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	2.537	121	134	135	rBV10	7895	24776	1.40%	0.273%
2	4.616	464	475	484	rBV3	7008	21743	1.23%	0.240%
3	7.634	960	970	976	rBV	273875	653719	37.01%	7.204%
4	7.707	976	982	996	rVB	387917	888752	50.32%	9.794%
5	8.061	1030	1040	1053	rBV	196710	442842	25.07%	4.880%
6	8.615	1122	1131	1142	rBV	648317	1273587	72.11%	14.035%
7	10.109	1366	1376	1394	rBV	1048811	1766285	100.00%	19.464%
8	11.414	1582	1590	1604	rBV	900719	1484318	84.04%	16.357%
9	12.407	1744	1753	1765	rBV	925787	1393935	78.92%	15.361%
10	13.346	1900	1907	1917	rBV	761599	1124448	63.66%	12.391%

Sum of corrected areas: 9074405

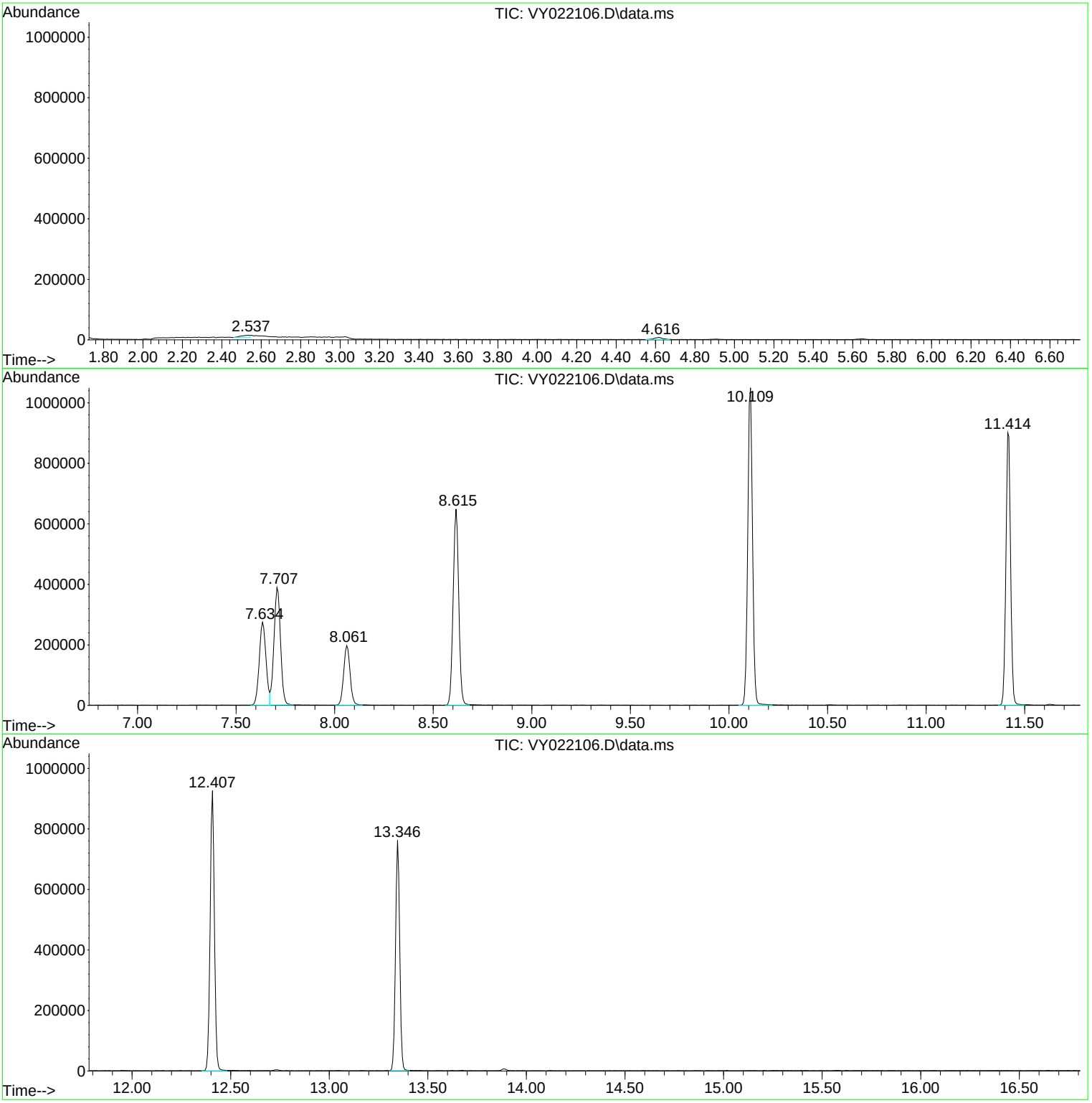
Sample Results: **VY022106.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 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\VY050125\
Data File : VY022106.D
Acq On : 01 May 2025 14:38
Operator : SY/MD
Sample : Q1901-03
Misc : 7.35g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 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

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

Raw Data: **VY022089.D**

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

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

Raw Data: **VY022089.D**

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

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			

Raw Data: **VY022089.D**

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

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

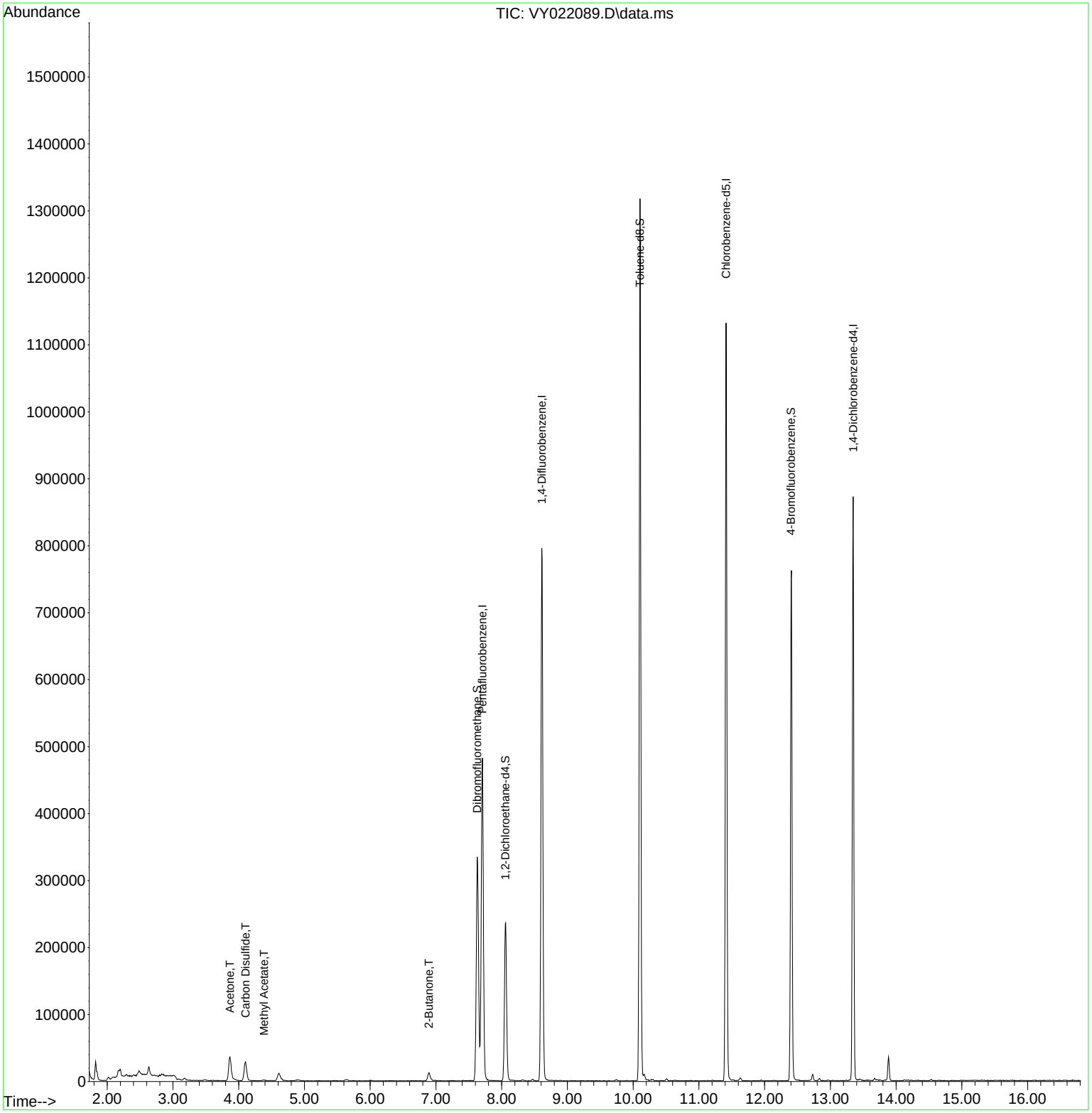
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	381091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	712829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	629182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	233488	50.000	ug/l	0.00
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

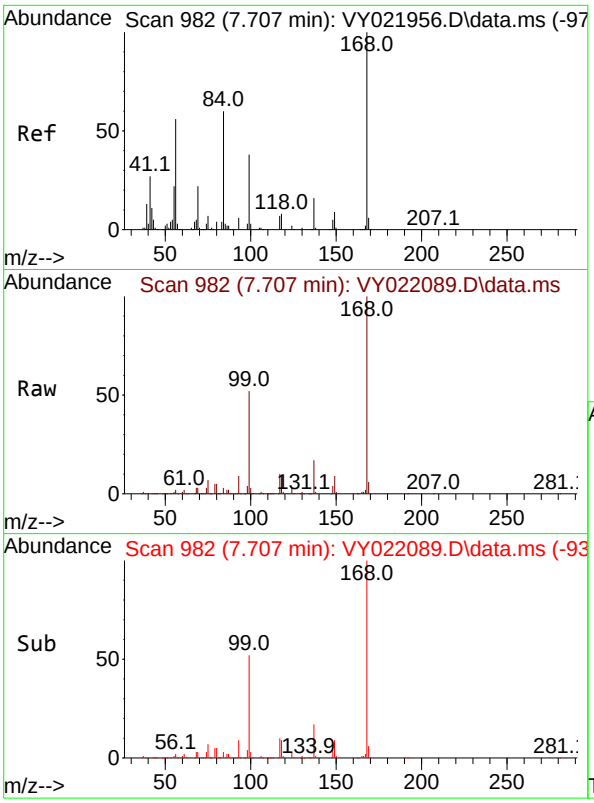
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



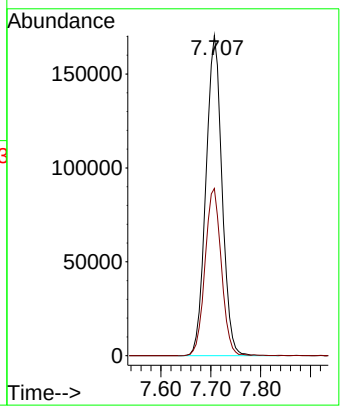


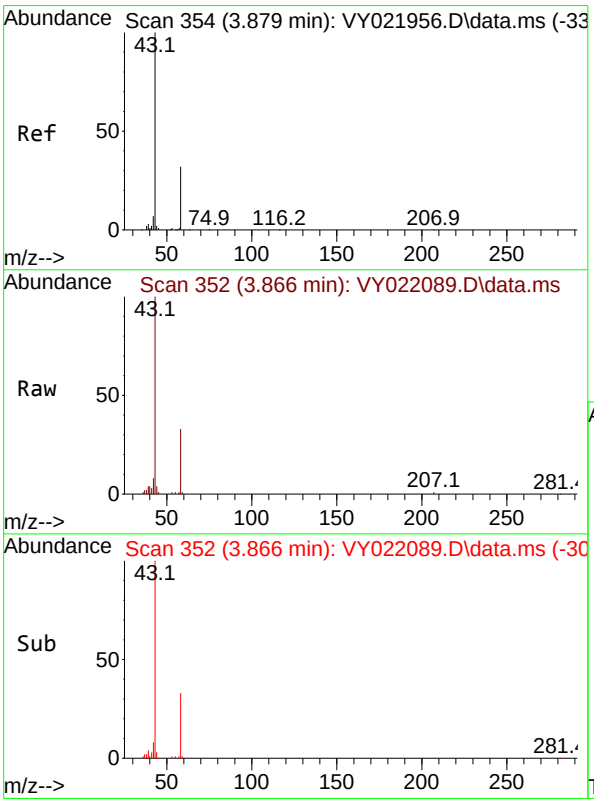
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

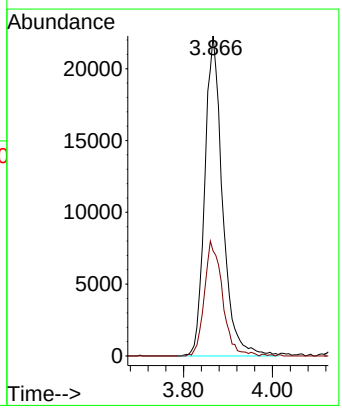


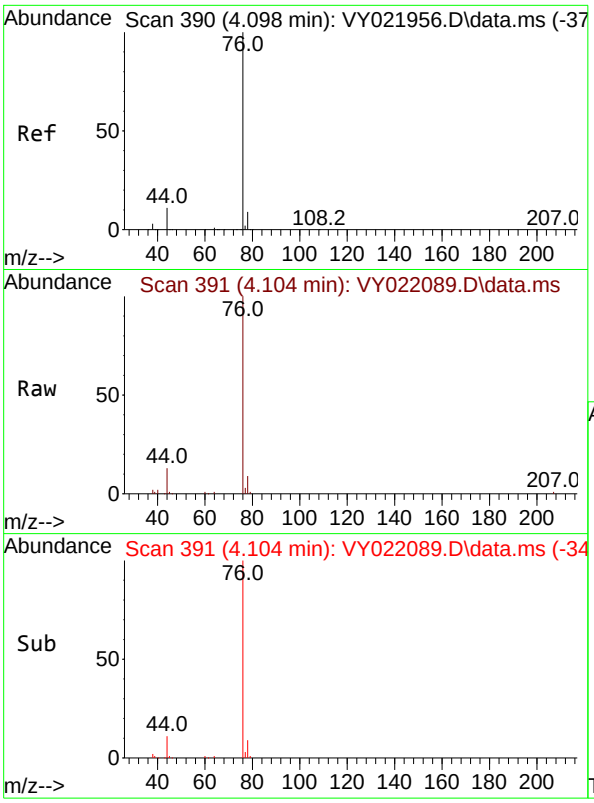


#16
Acetone
Concen: 123.893 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.013 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 43 Resp: 62048

Ion	Ratio	Lower	Upper
43	100		
58	32.8	27.0	40.4



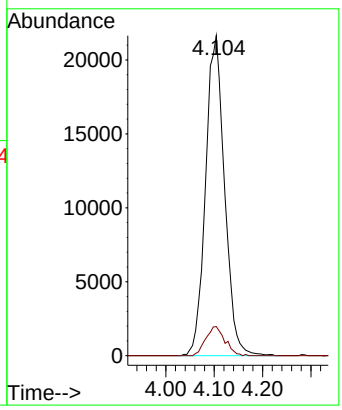


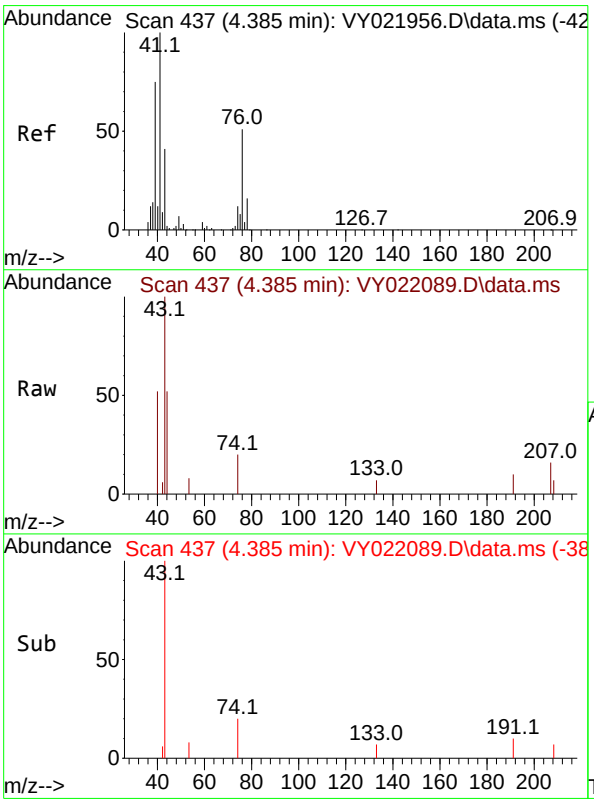
#17
Carbon Disulfide
Concen: 4.894 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

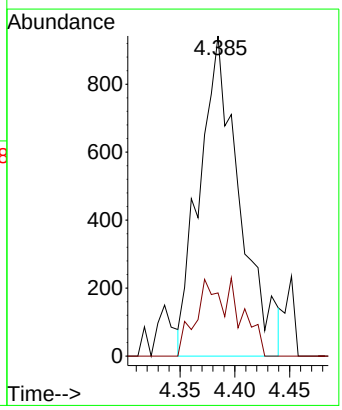


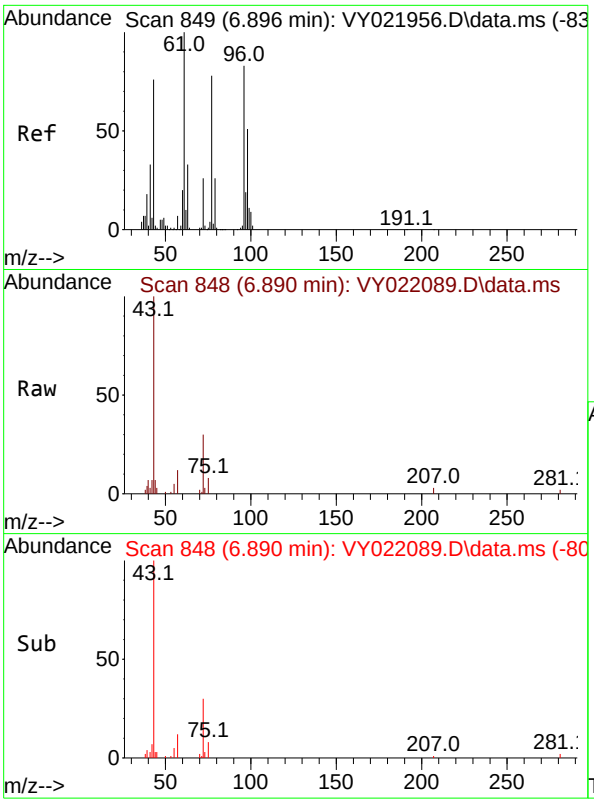


#18
Methyl Acetate
Concen: 1.458 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 43 Resp: 2398

Ion	Ratio	Lower	Upper
43	100		
74	15.2	24.2	36.4#



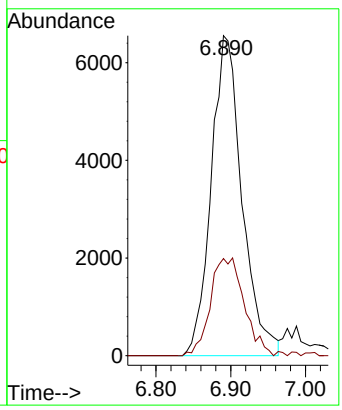


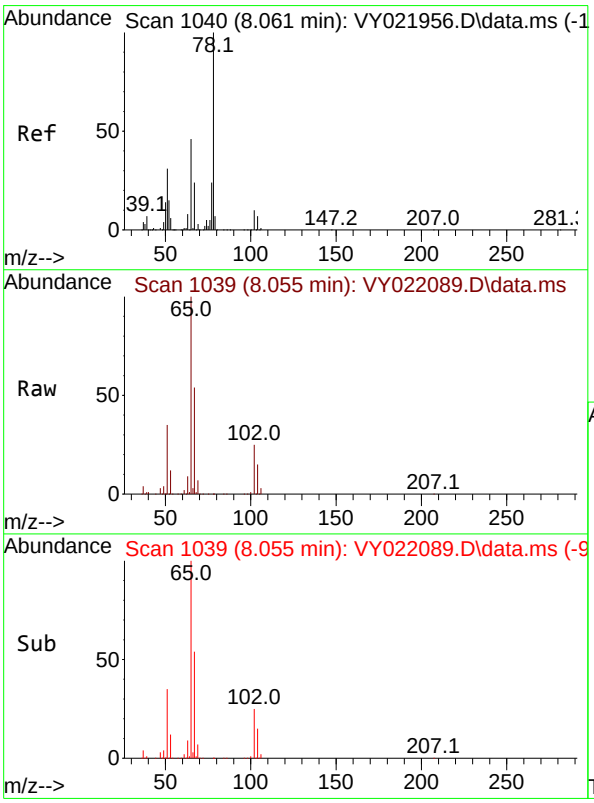
#25
2-Butanone
Concen: 23.439 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

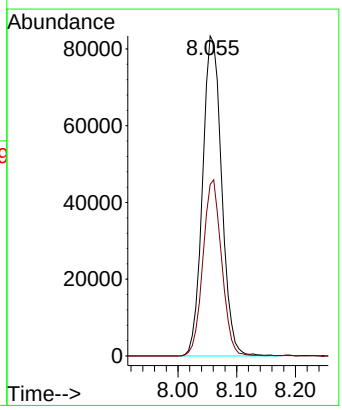


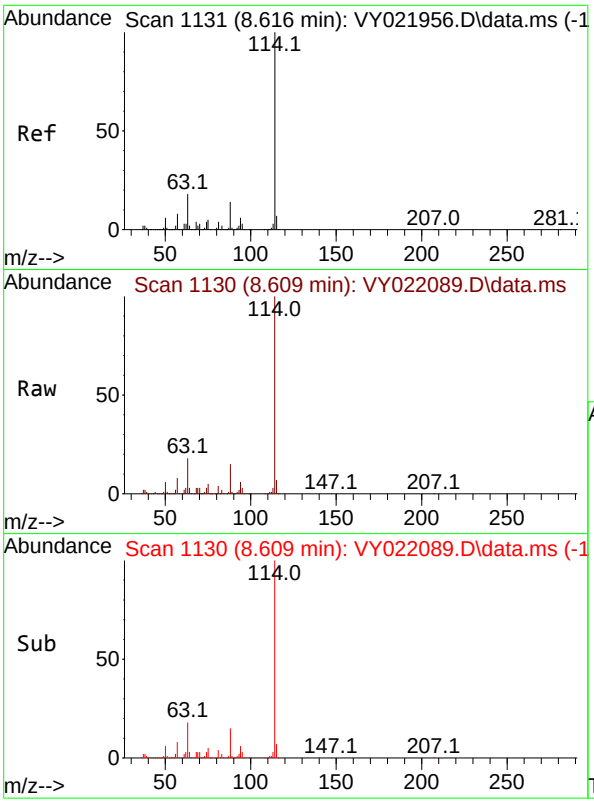


#33
1,2-Dichloroethane-d4
Concen: 53.549 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

Tgt Ion: 65 Resp: 188495

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	105.8



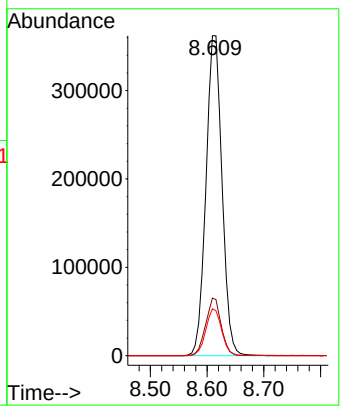


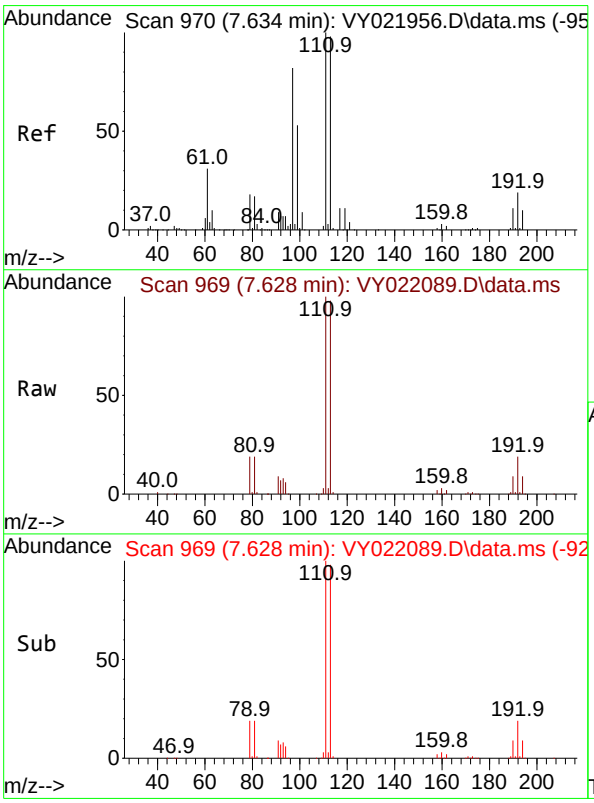
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

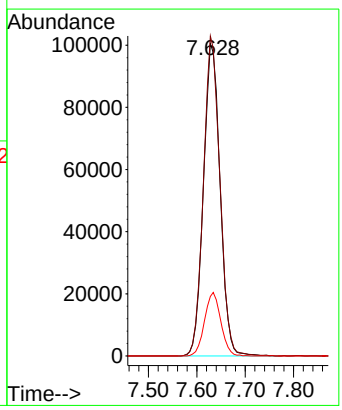


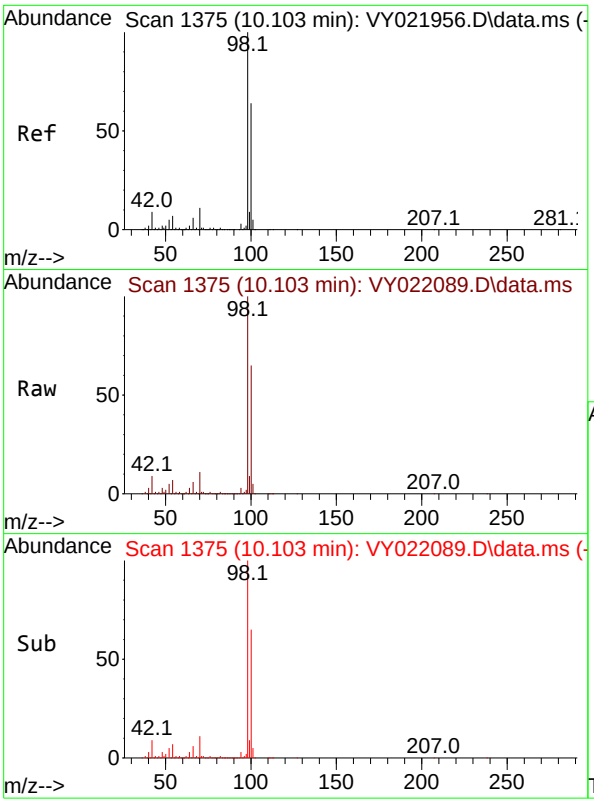


#35
Dibromofluoromethane
Concen: 50.999 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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



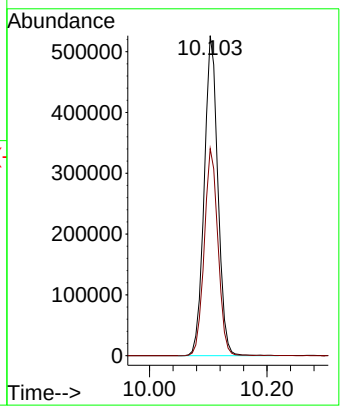


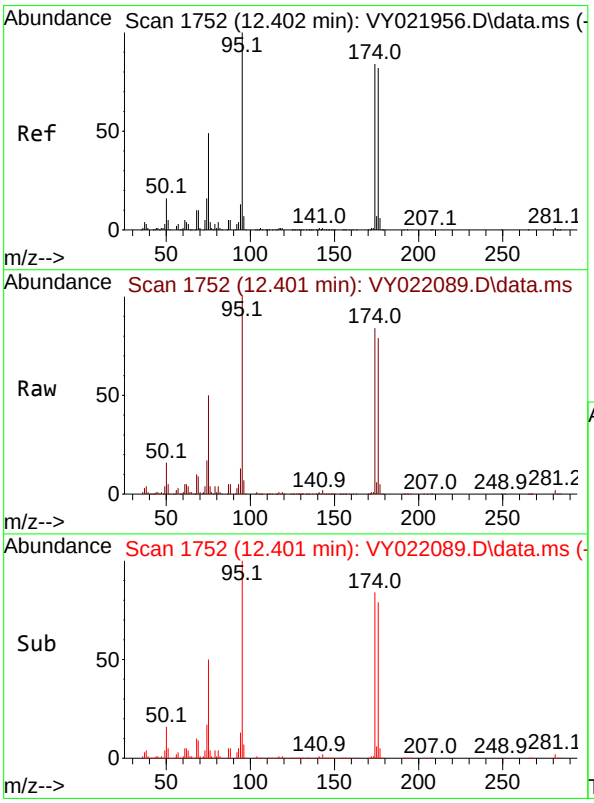
#50
Toluene-d8
Concen: 47.743 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

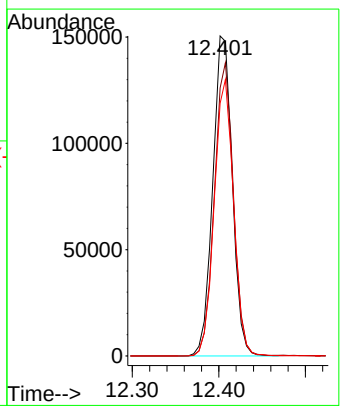


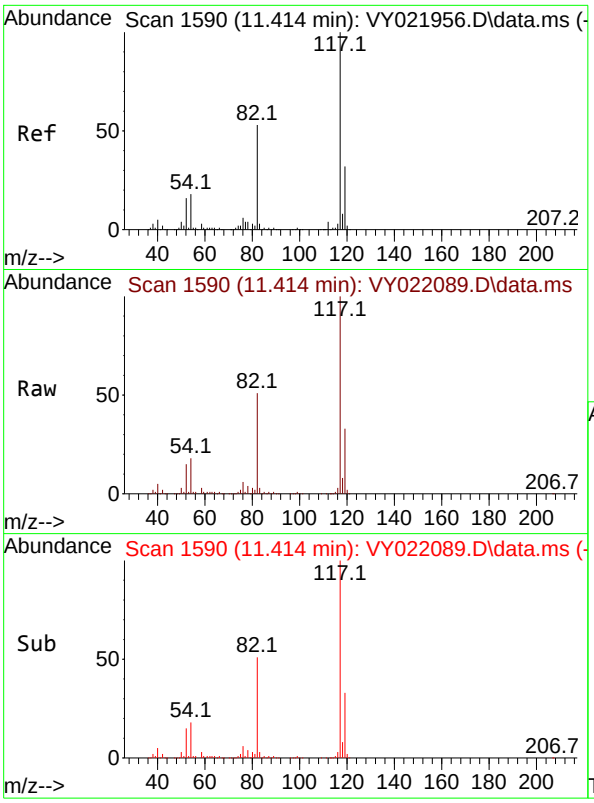


#62
4-Bromofluorobenzene
Concen: 39.347 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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



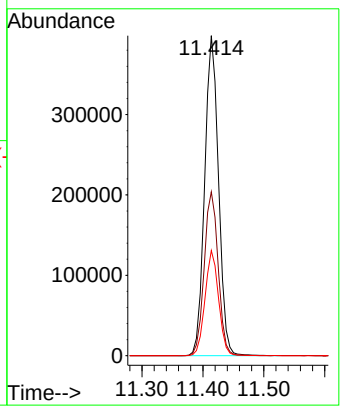


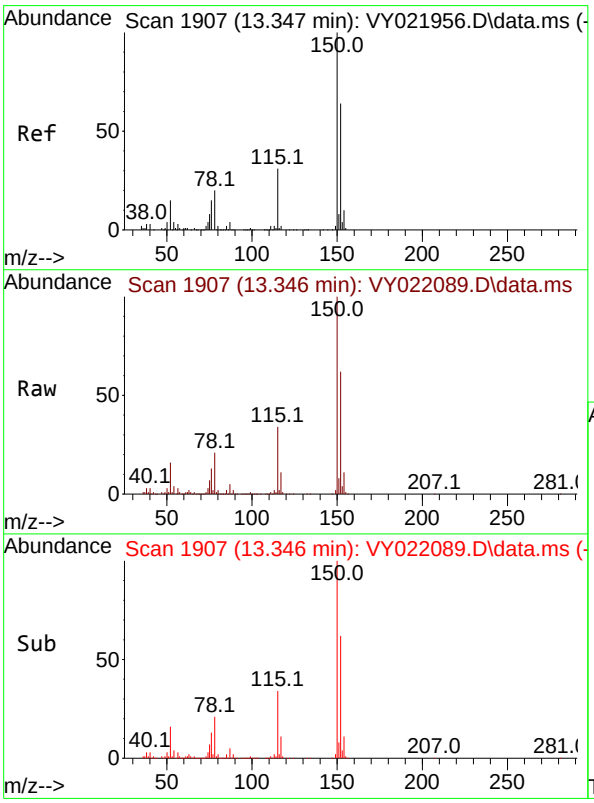
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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

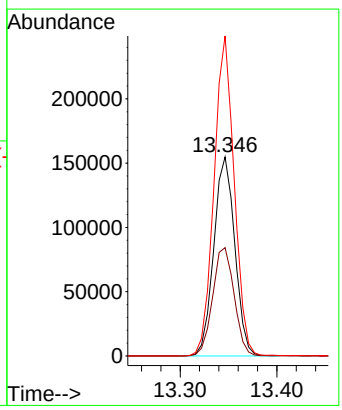




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022089.D
Acq: 30 Apr 2025 17:52

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



Sample Results: **VY022089.D**

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	% of 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

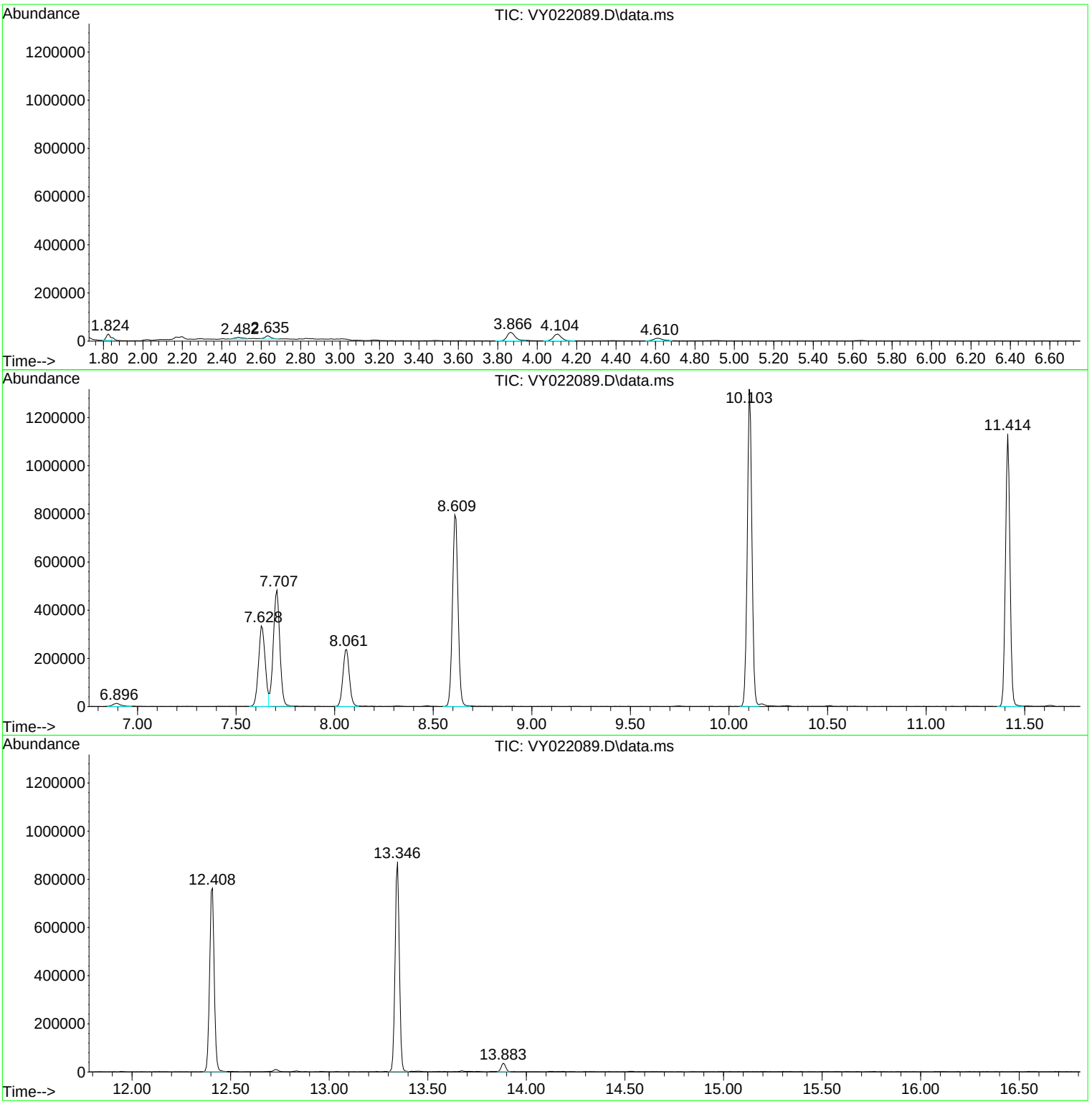
Sample Results: **VY022089.D**

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



Library Search Compound Report

Sample Results: **VY022089.D**

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

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

Raw Data: **VY022090.D**

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

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

Raw Data: **VY022090.D**

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

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)
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						

Raw Data: **VY022090.D**

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

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

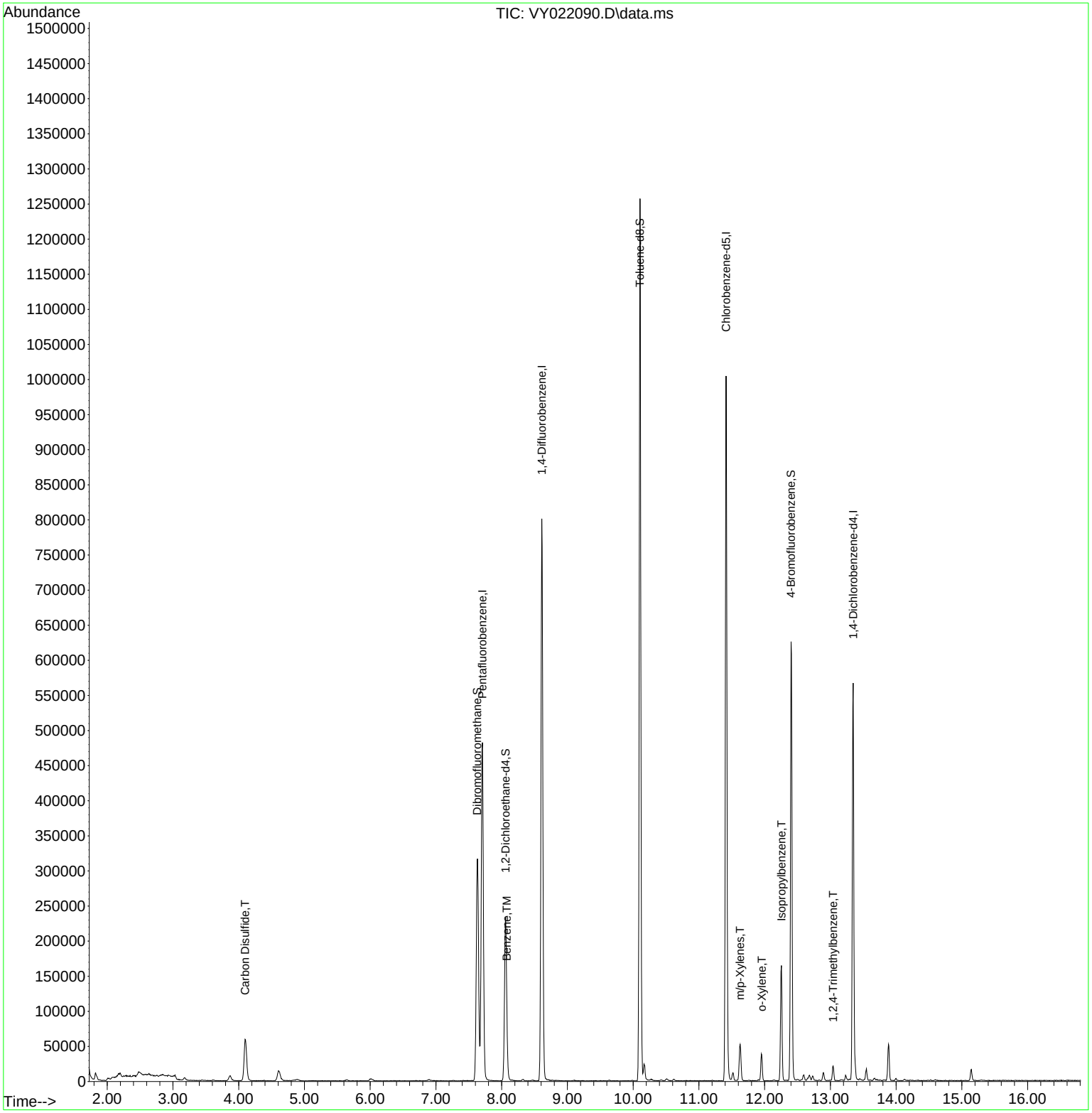
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	384809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	709625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	563942	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	150773	50.000	ug/l	0.00
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

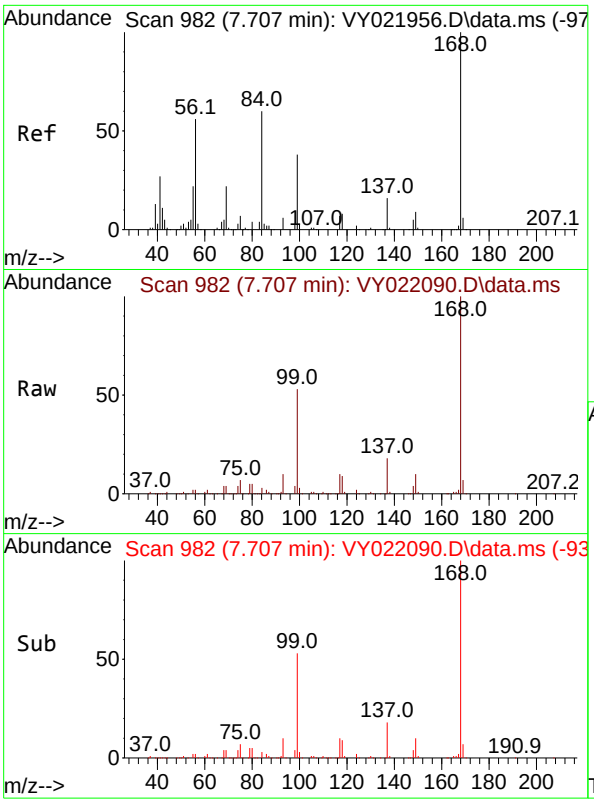
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



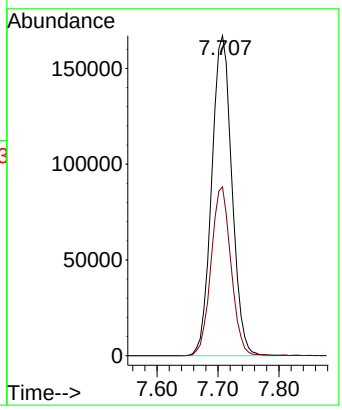


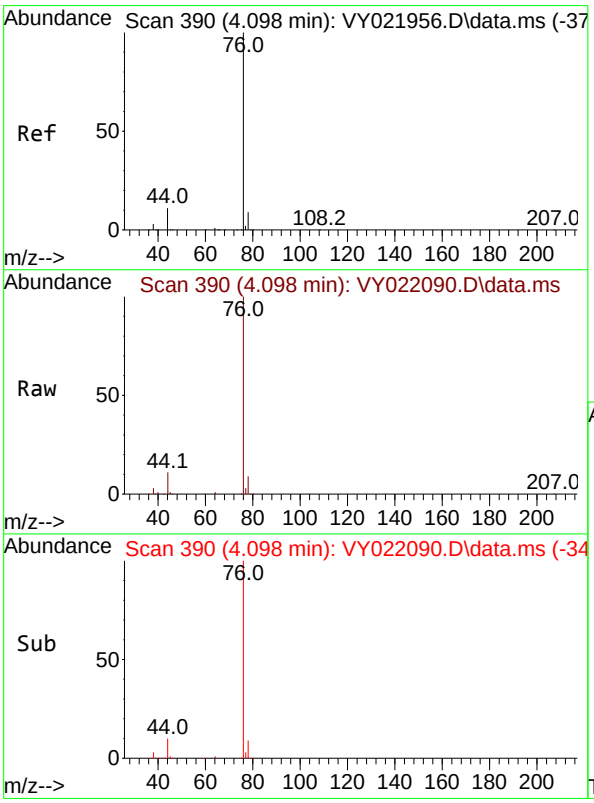
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

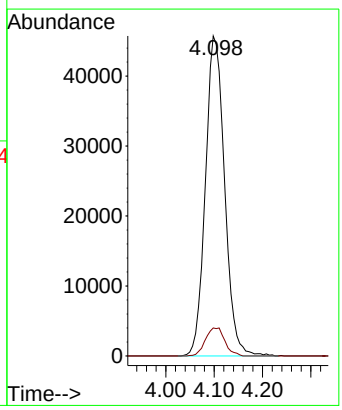


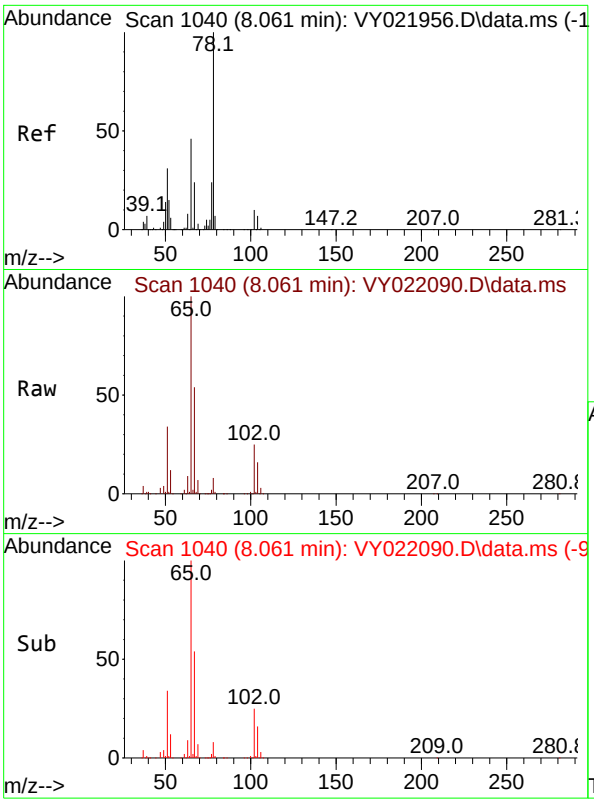


#17
Carbon Disulfide
Concen: 10.343 ug/l
RT: 4.098 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 76 Resp: 126155

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.6	11.4



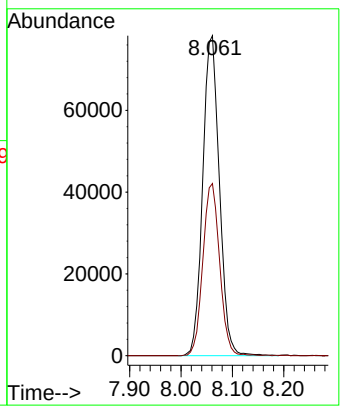


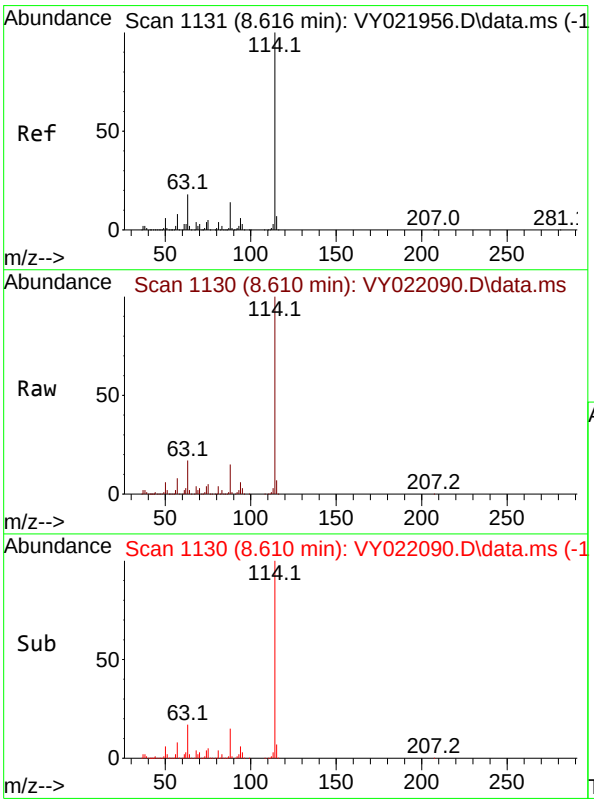
#33
1,2-Dichloroethane-d4
Concen: 49.608 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

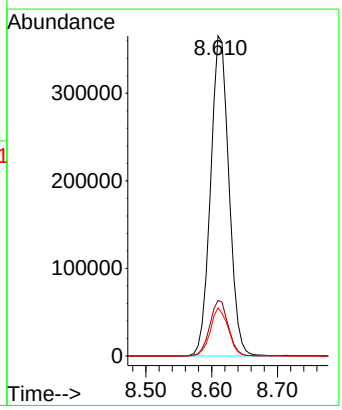


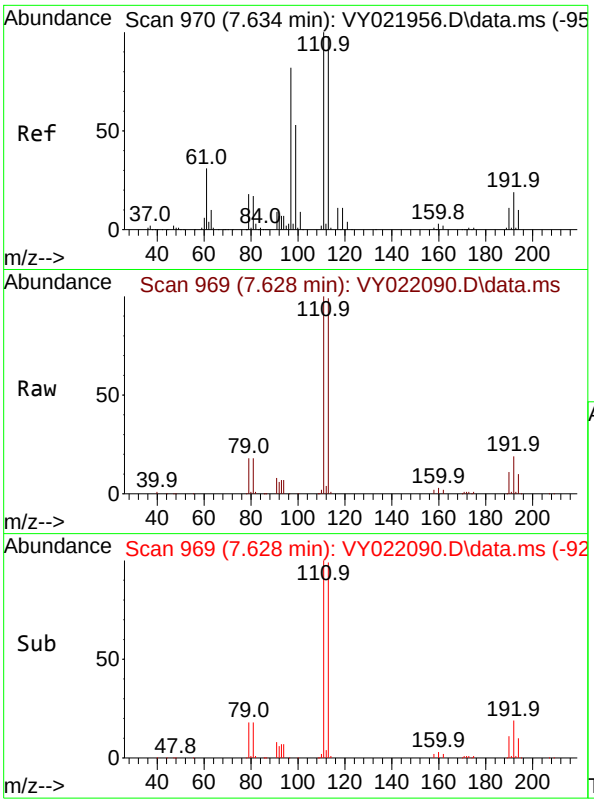


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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



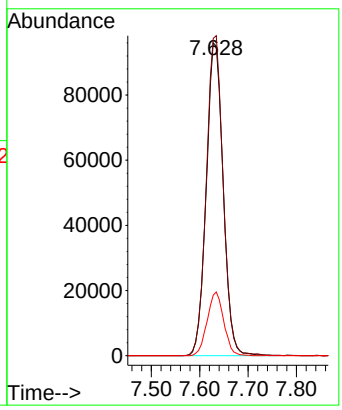


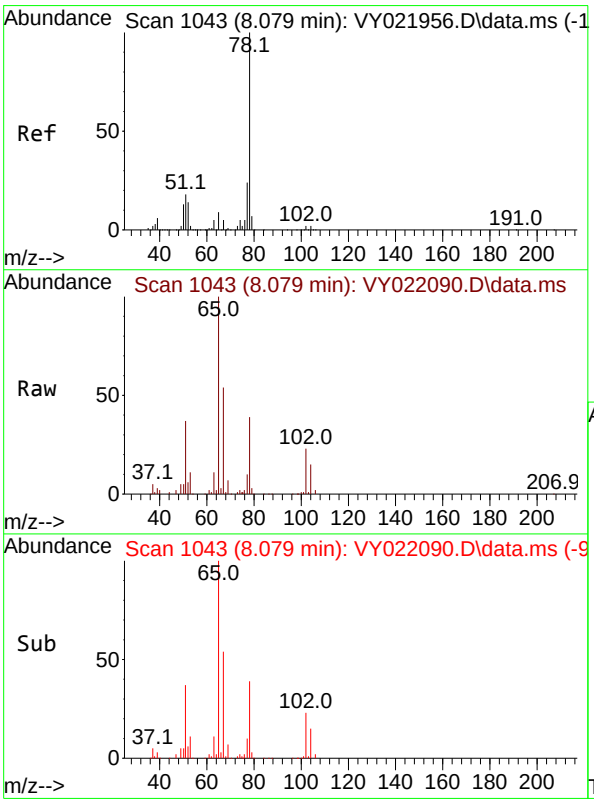
#35
Dibromofluoromethane
Concen: 49.766 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

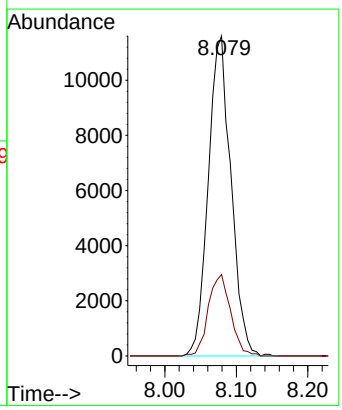


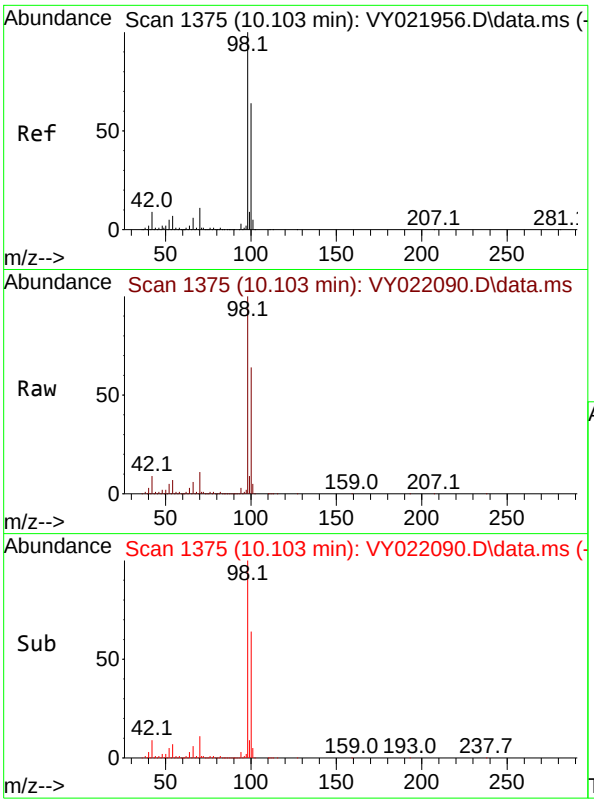


#40
Benzene
Concen: 1.300 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion: 78 Resp: 25594

Ion	Ratio	Lower	Upper
78	100		
77	25.4	19.3	28.9



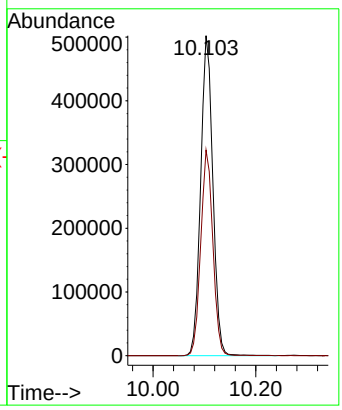


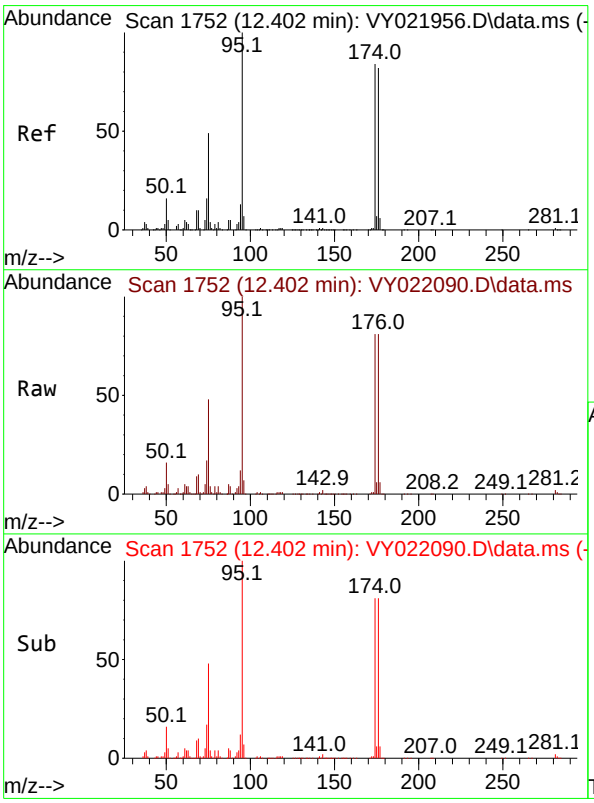
#50
Toluene-d8
Concen: 46.689 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

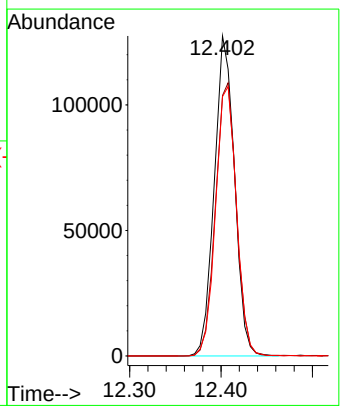


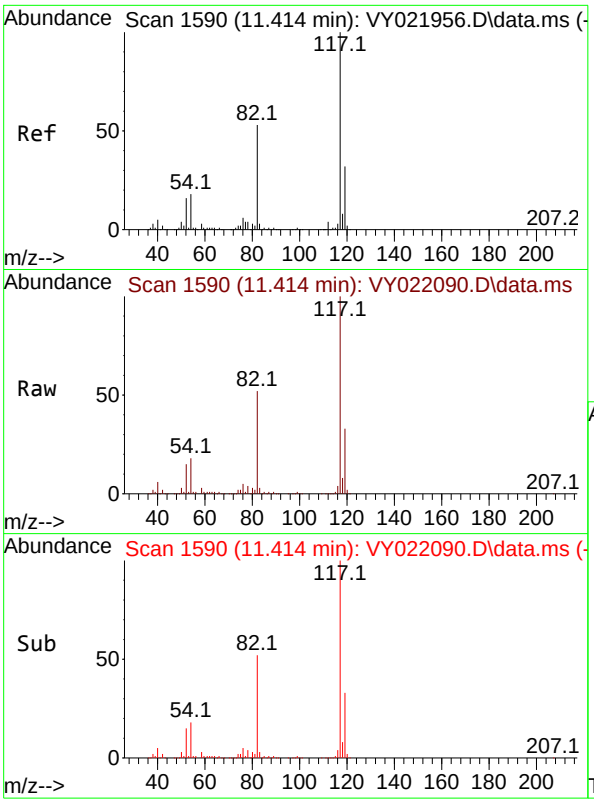


#62
4-Bromofluorobenzene
Concen: 32.962 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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



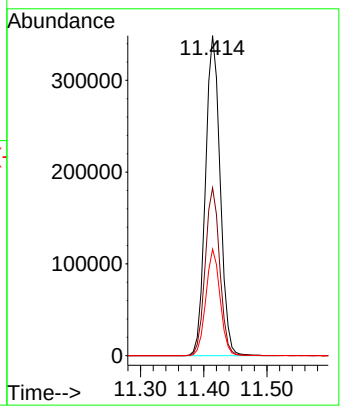


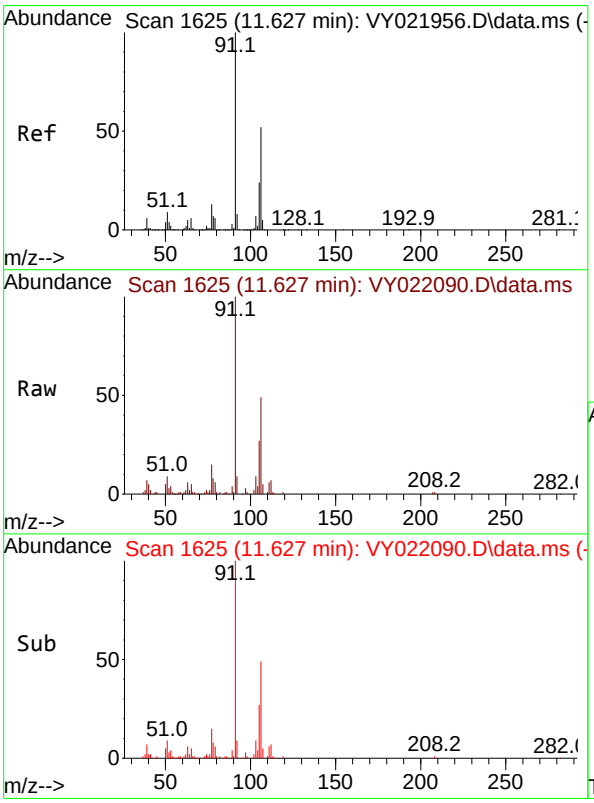
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

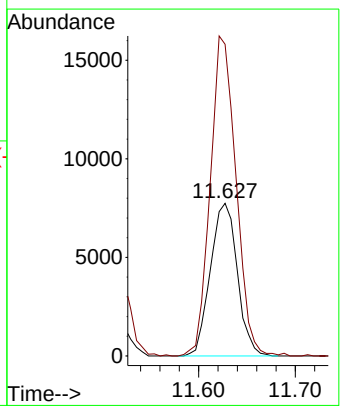


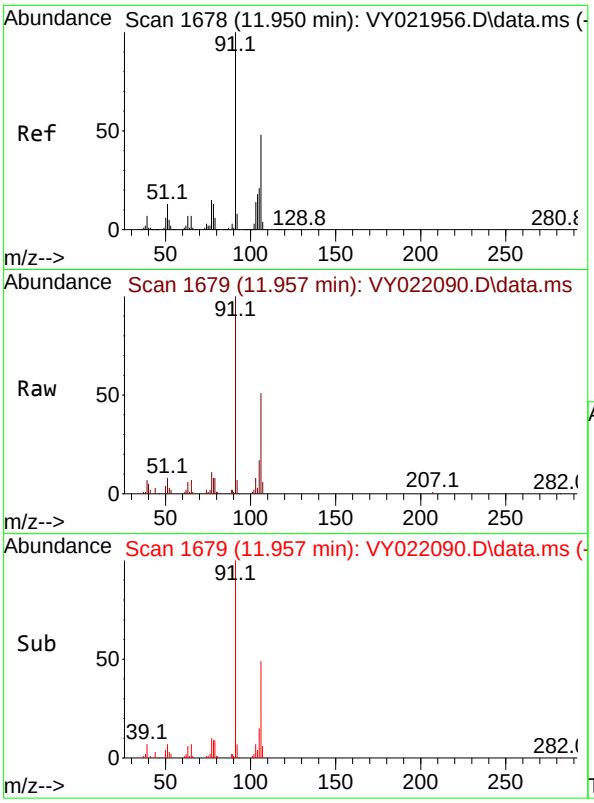


#68
m/p-Xylenes
Concen: 1.824 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:106 Resp: 14972

Ion	Ratio	Lower	Upper
106	100		
91	200.6	156.2	234.2



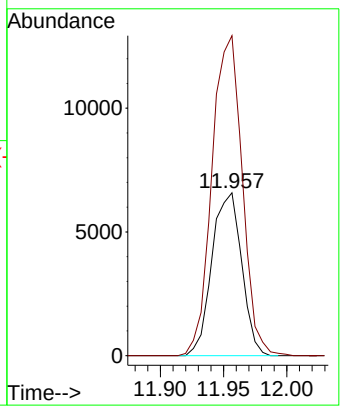


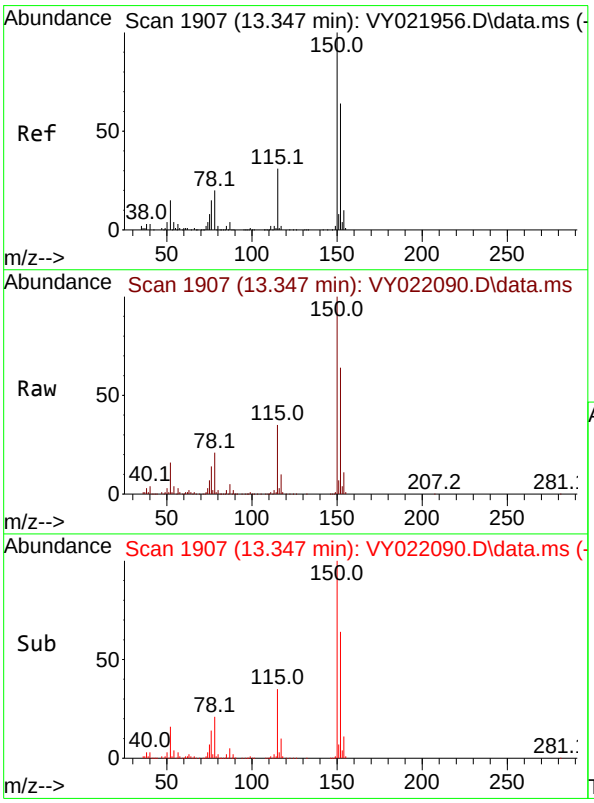
#69
o-Xylene
Concen: 1.421 ug/l
RT: 11.957 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

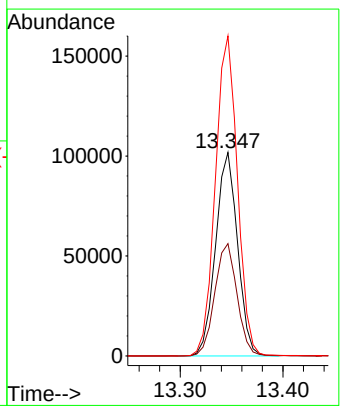


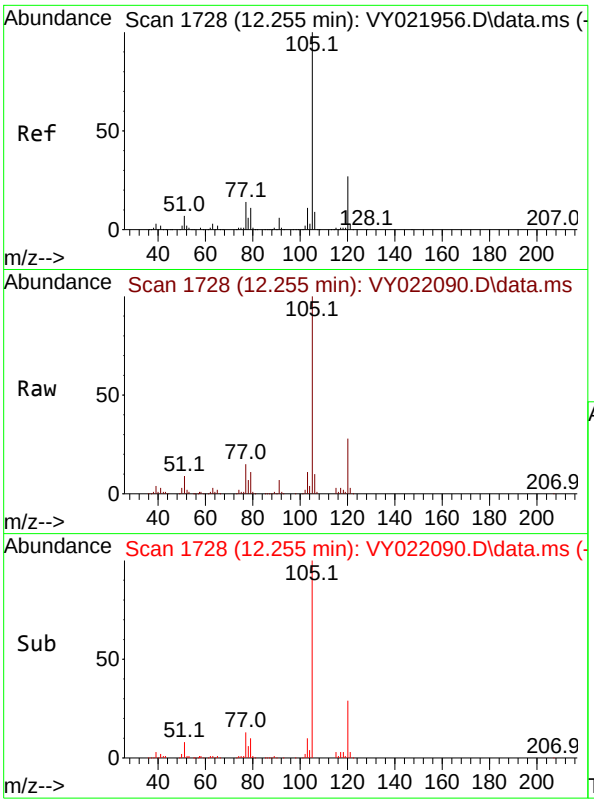


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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



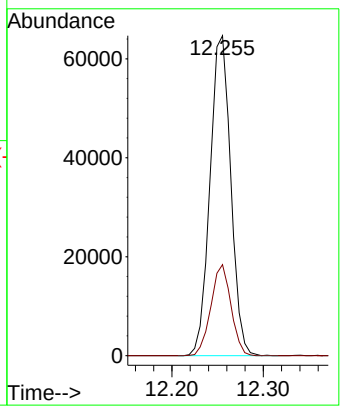


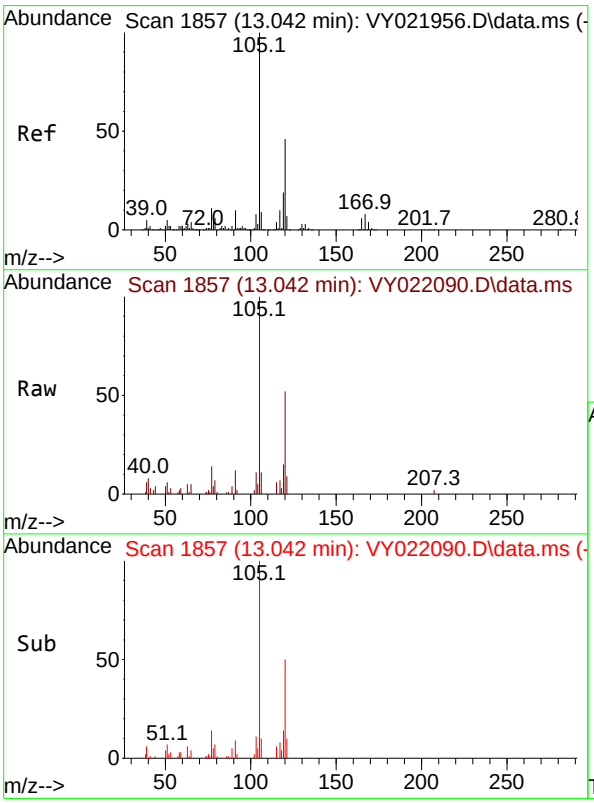
#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

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

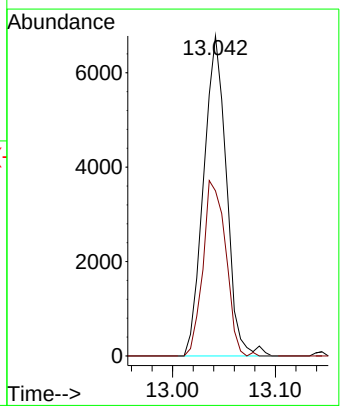




#84
1,2,4-Trimethylbenzene
Concen: 1.262 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022090.D
Acq: 30 Apr 2025 18:16

Tgt Ion:105 Resp: 10477

Ion	Ratio	Lower	Upper
105	100		
120	54.6	23.4	70.0



Sample Results: **VY022090.D**

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

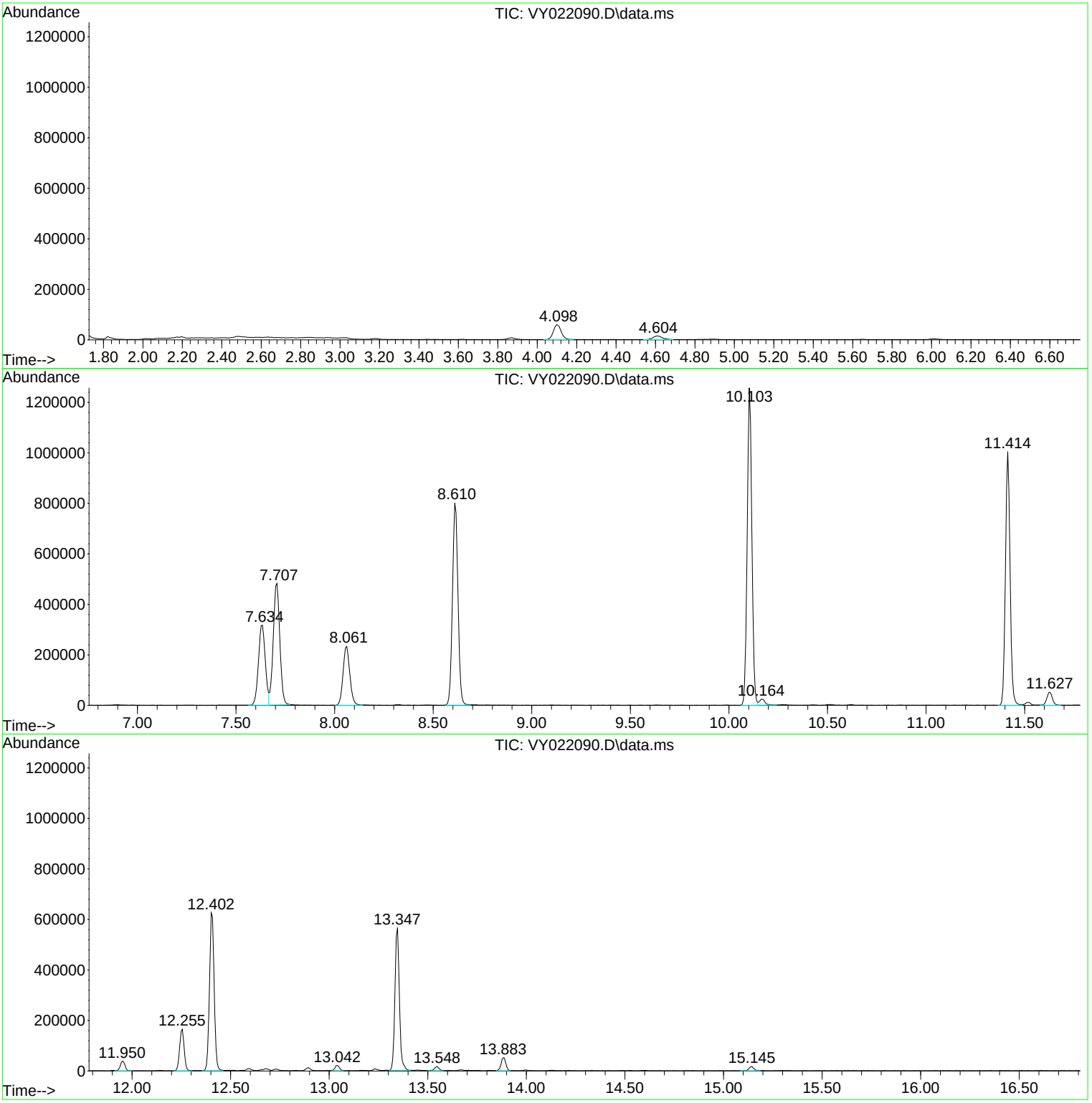
Sample Results: **VY022090.D**

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



Library Search Compound Report

Sample Results: **VY022090.D**

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

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

Raw Data: **VX045979.D**

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

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

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

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
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			

Raw Data: **VX045979.D**

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

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

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

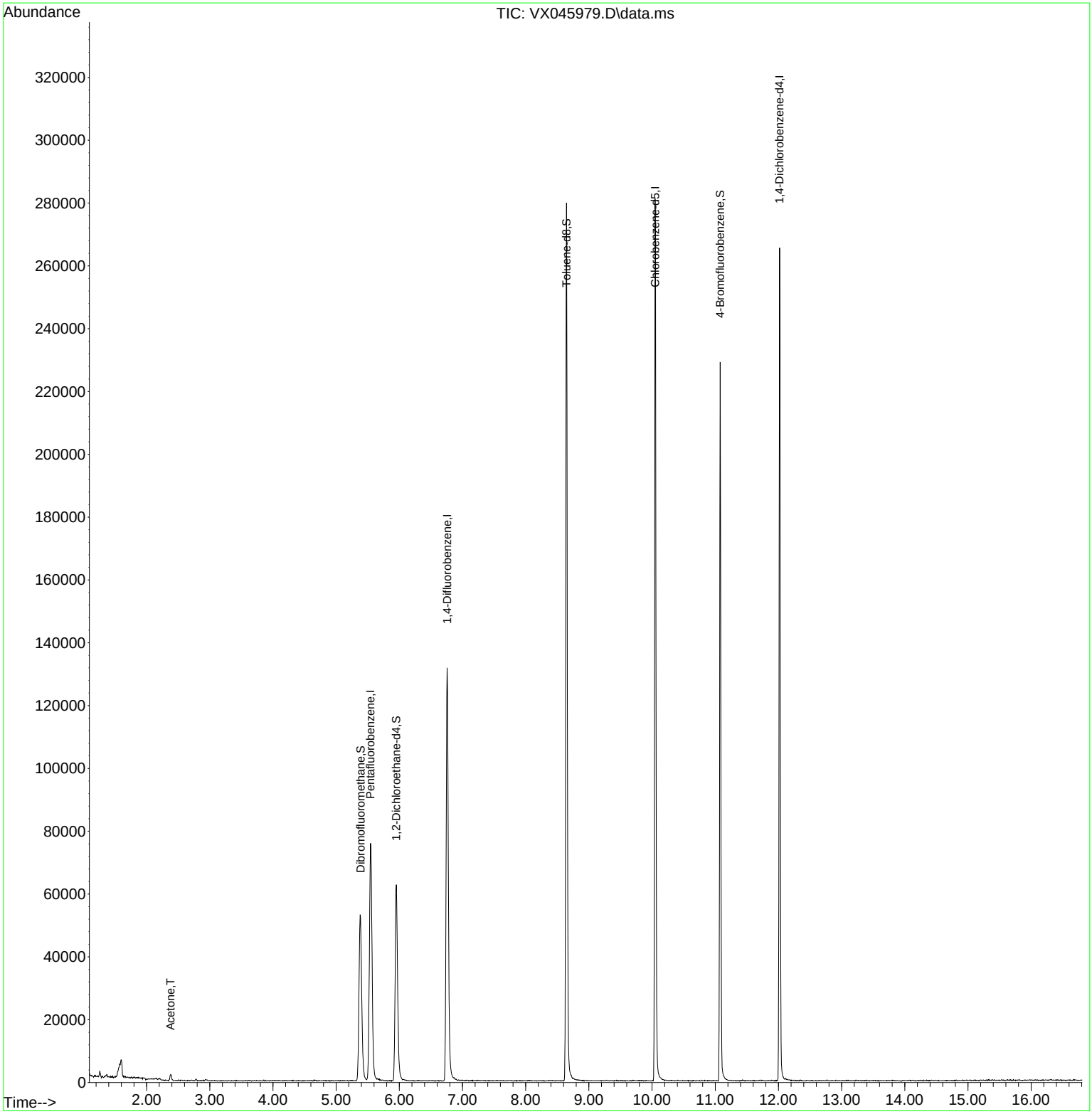
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	115874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48370	50.000	ug/l	0.00
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

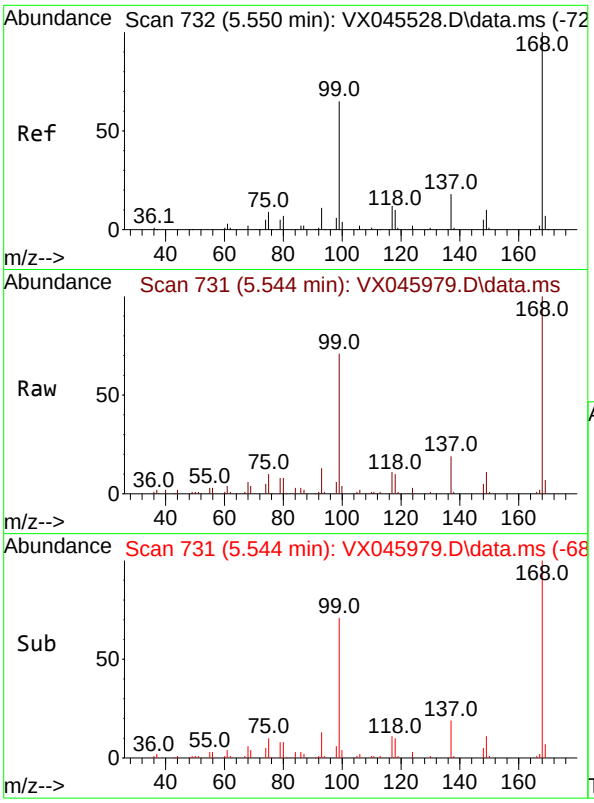
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



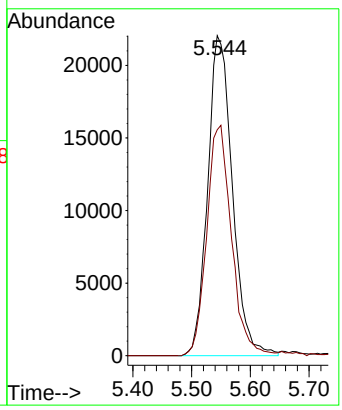


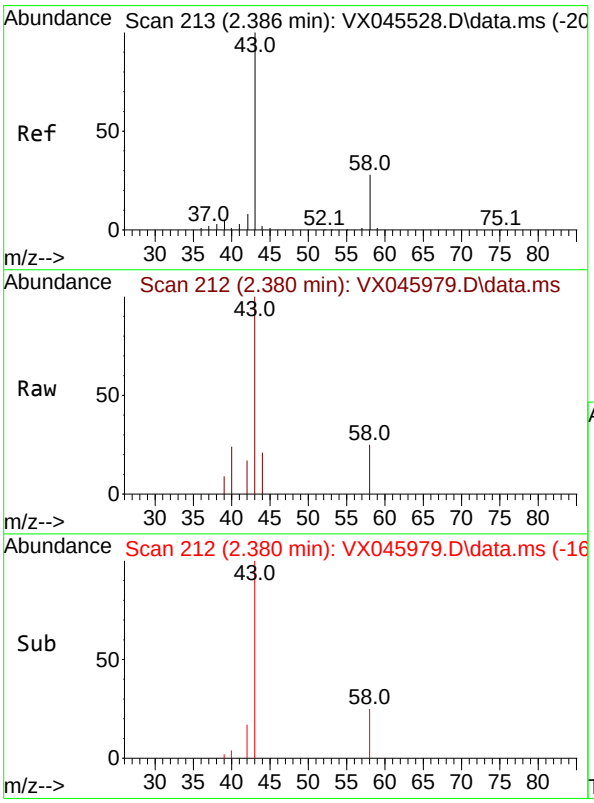
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion:168 Resp: 64509

Ion	Ratio	Lower	Upper
168	100		
99	70.6	52.3	78.5

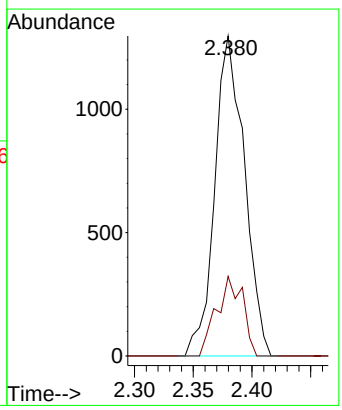


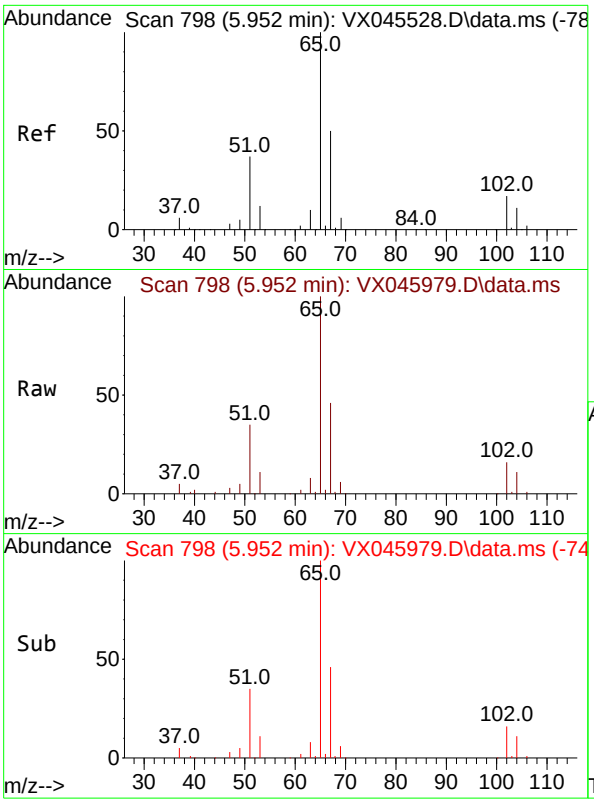


#16
Acetone
Concen: 4.717 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion: 43 Resp: 2285

Ion	Ratio	Lower	Upper
43	100		
58	24.8	22.3	33.5



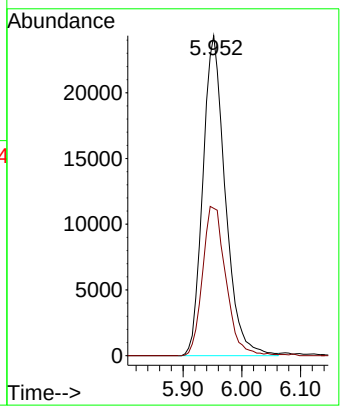


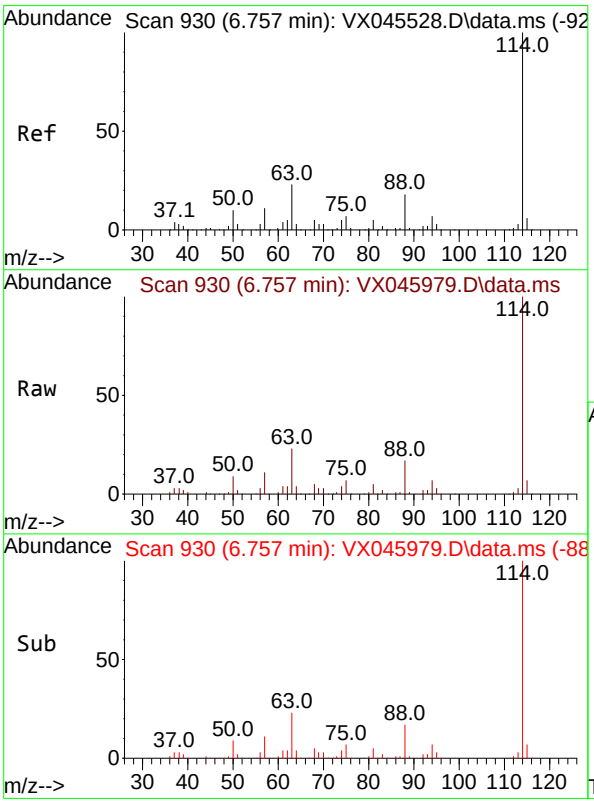
#33
1,2-Dichloroethane-d4
Concen: 54.626 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Instrument :
MSVOA_X
ClientSampleId :
FB04262025

Tgt Ion: 65 Resp: 64442

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0

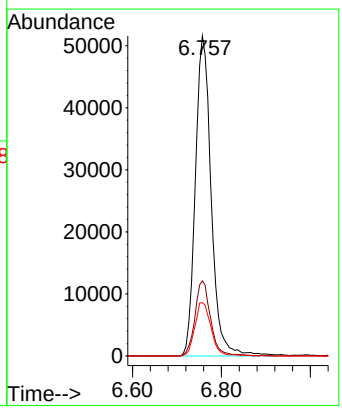


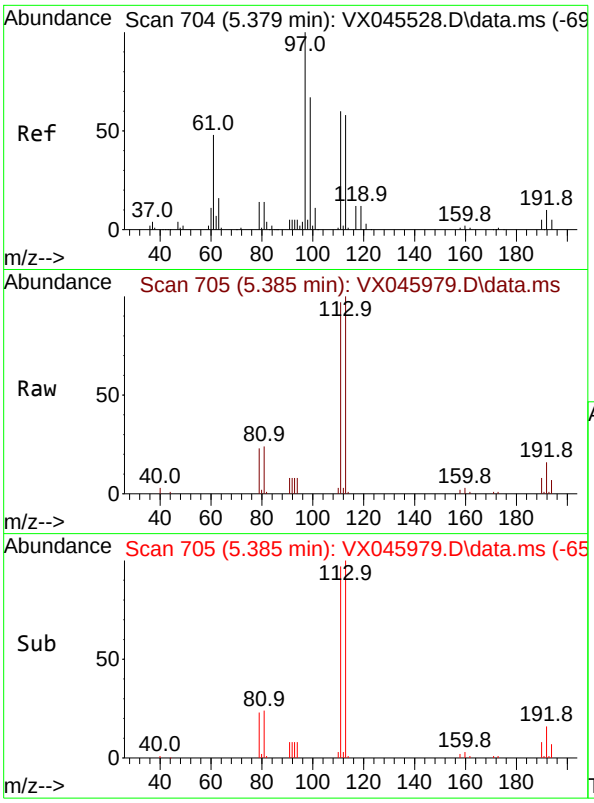


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

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



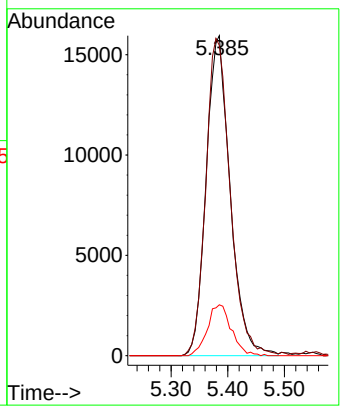


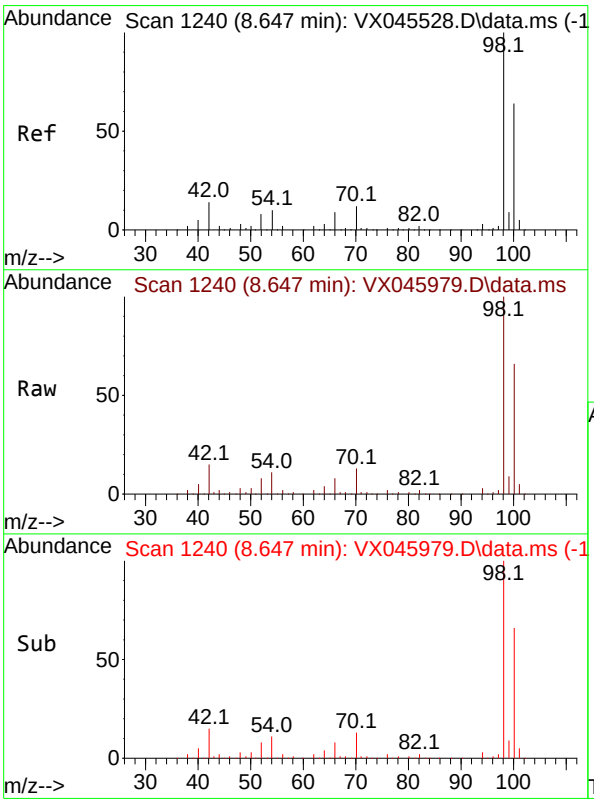
#35
Dibromofluoromethane
Concen: 51.573 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

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

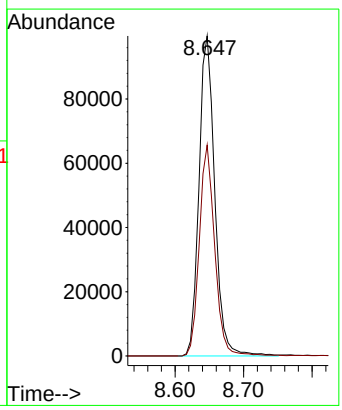


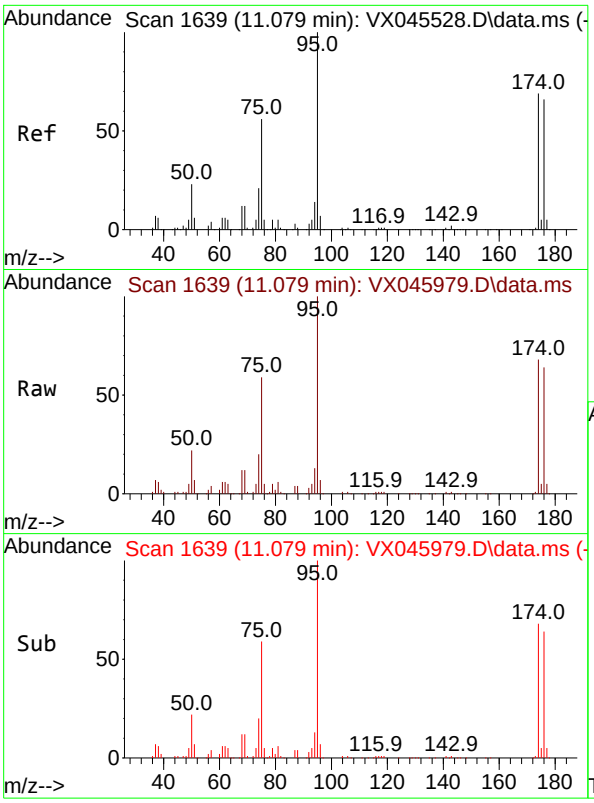


#50
Toluene-d8
Concen: 50.459 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

Tgt Ion: 98 Resp: 159888

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4



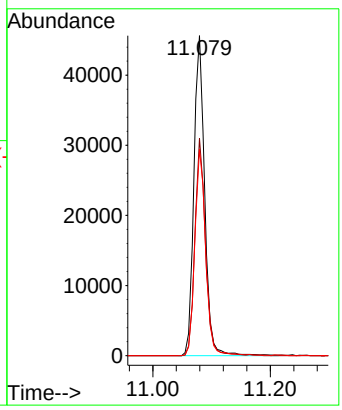


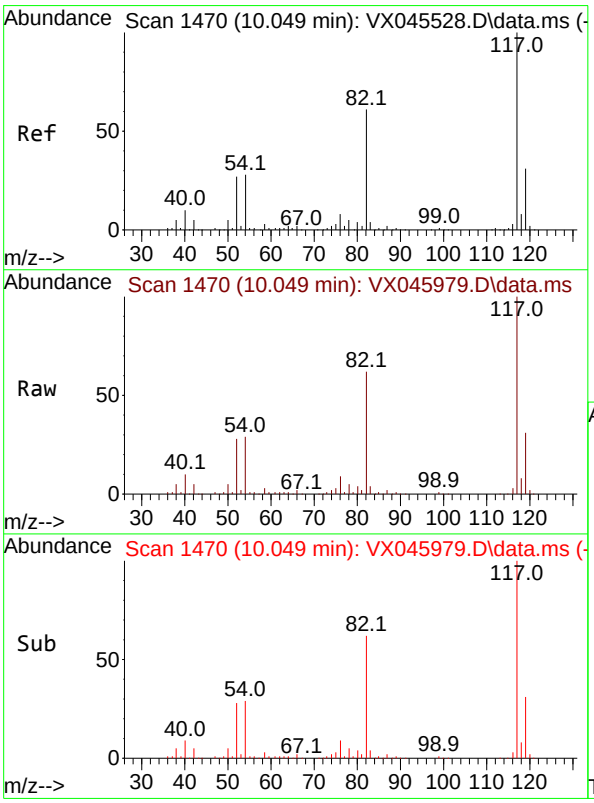
#62
4-Bromofluorobenzene
Concen: 50.394 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

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

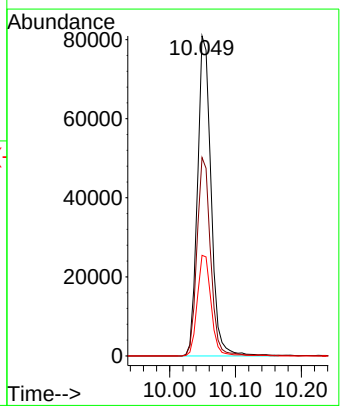


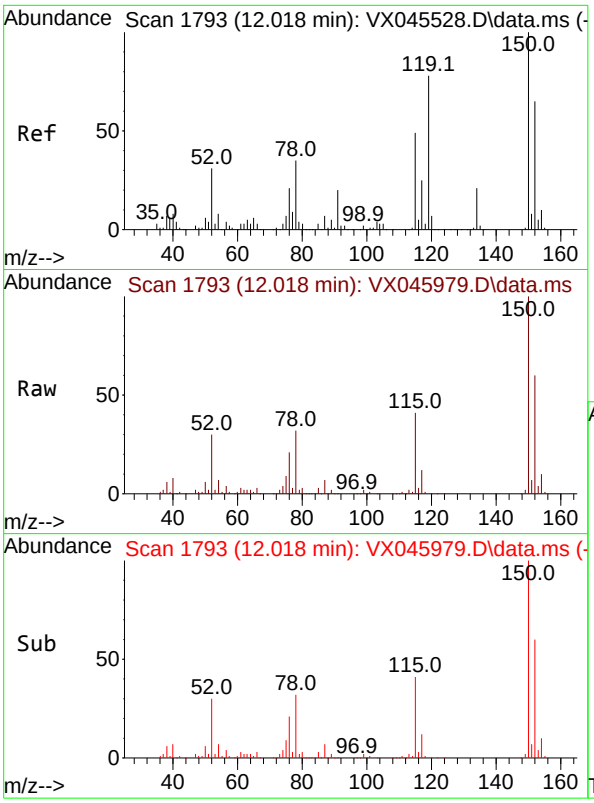


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

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



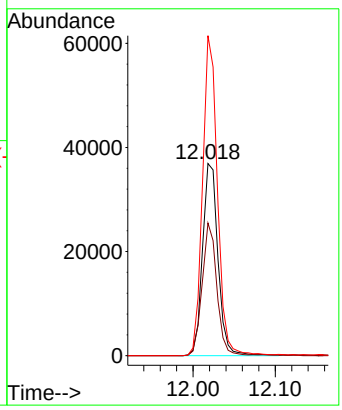


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045979.D
Acq: 29 Apr 2025 13:58

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



Sample Results: **VX045979.D**

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 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: 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

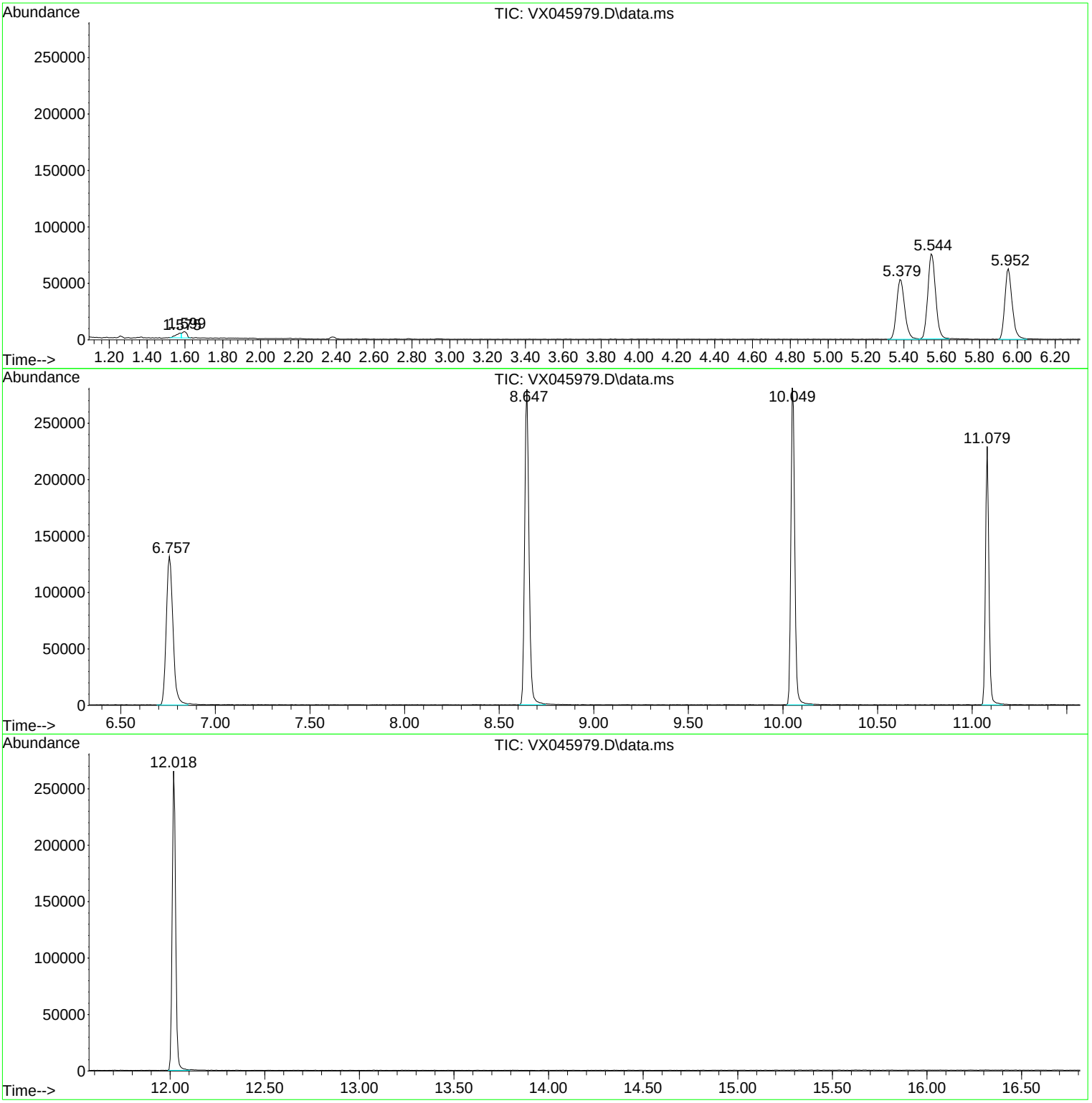
Sample Results: **VX045979.D**

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



Library Search Compound Report

Sample Results: **VX045979.D**

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
****

Sample Results: **VX045979.D**

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

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

Raw Data: **VX045978.D**

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

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

Raw Data: **VX045978.D**

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

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
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			

Raw Data: **VX045978.D**

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

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

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

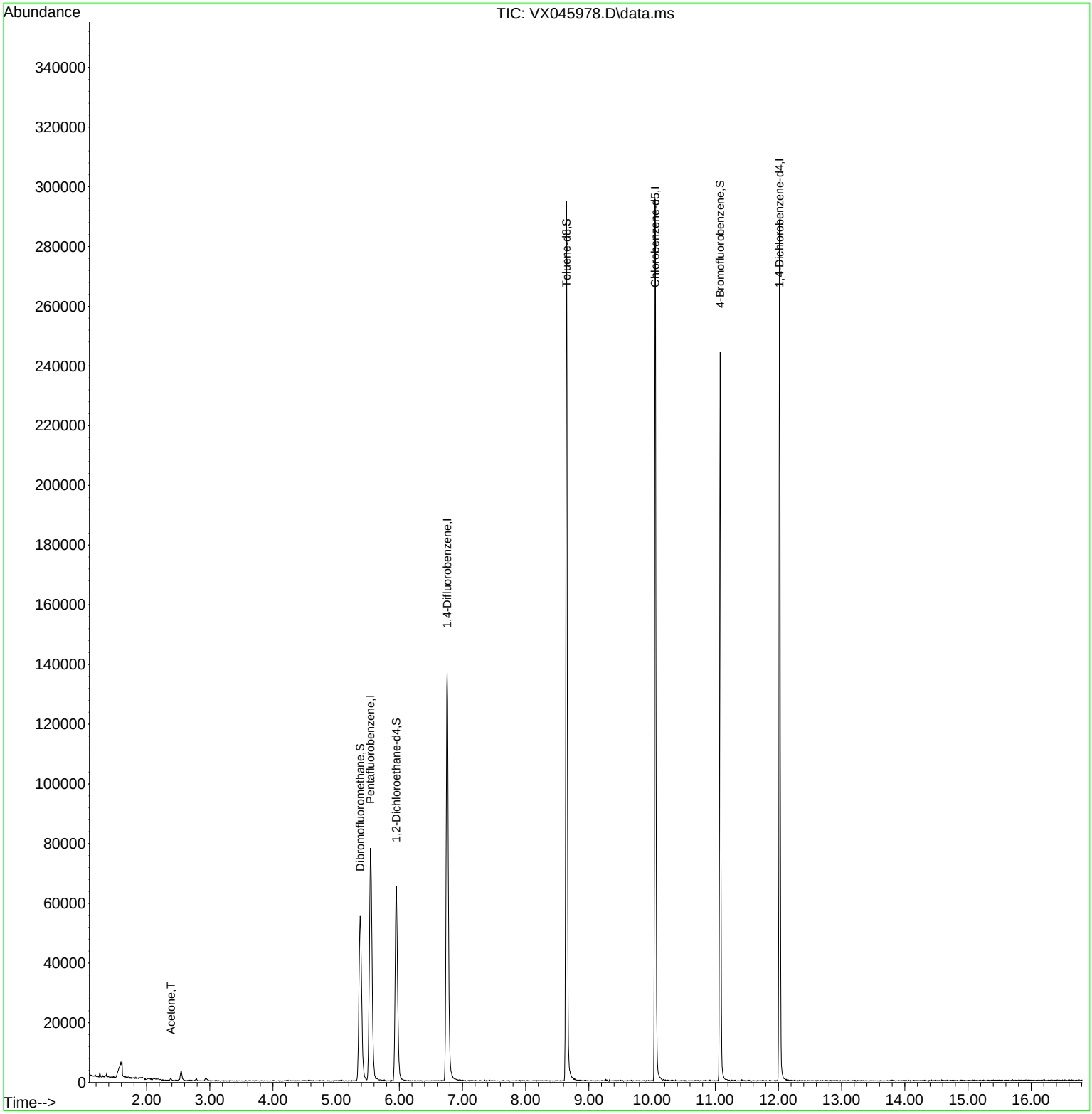
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	67274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123412	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	53777	50.000	ug/l	0.00
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

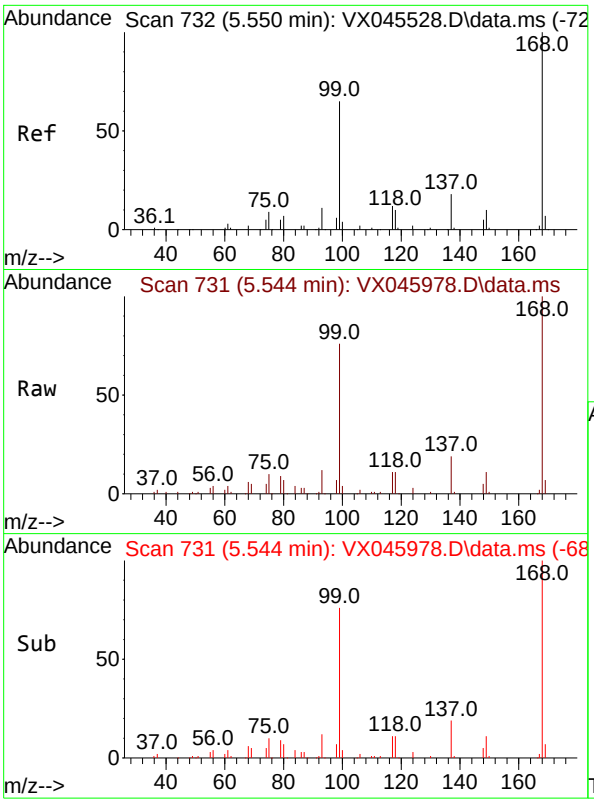
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



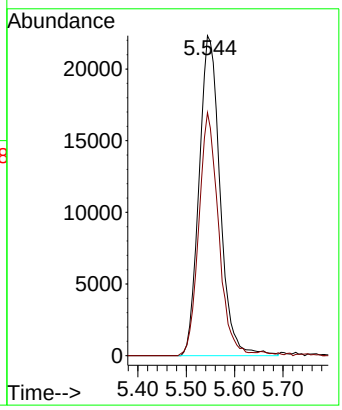


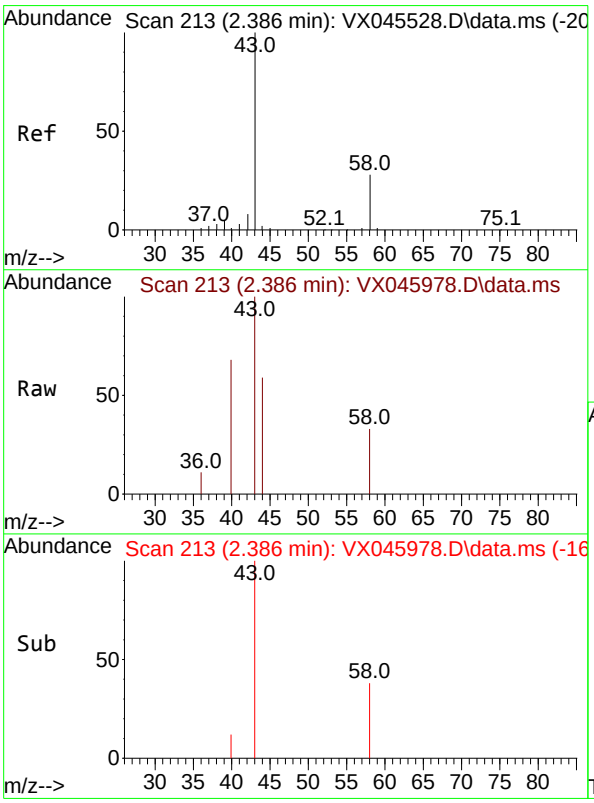
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion:168 Resp: 67274

Ion	Ratio	Lower	Upper
168	100		
99	76.0	52.3	78.5

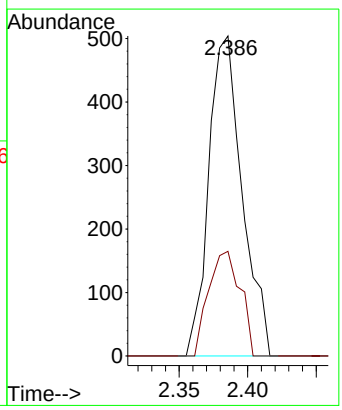


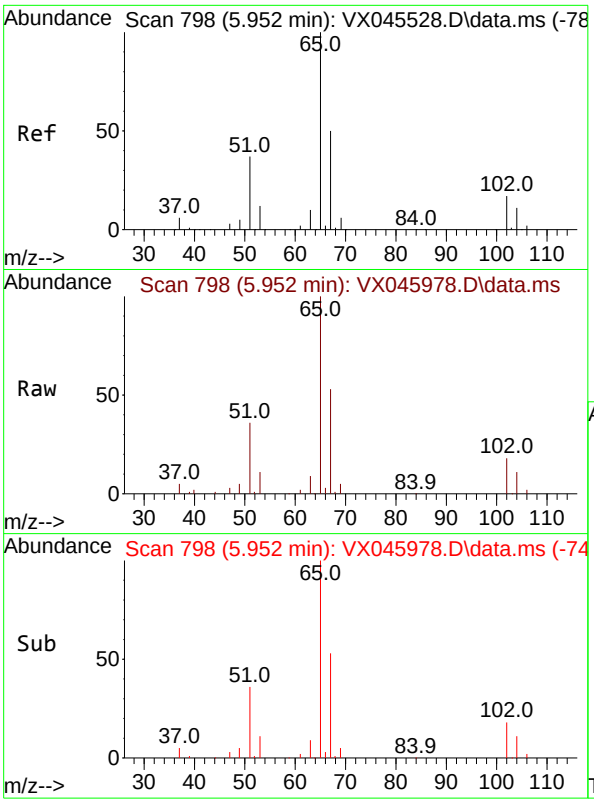


#16
Acetone
Concen: 1.690 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion: 43 Resp: 854

Ion	Ratio	Lower	Upper
43	100		
58	32.7	22.3	33.5



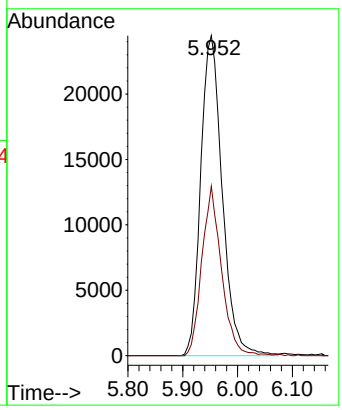


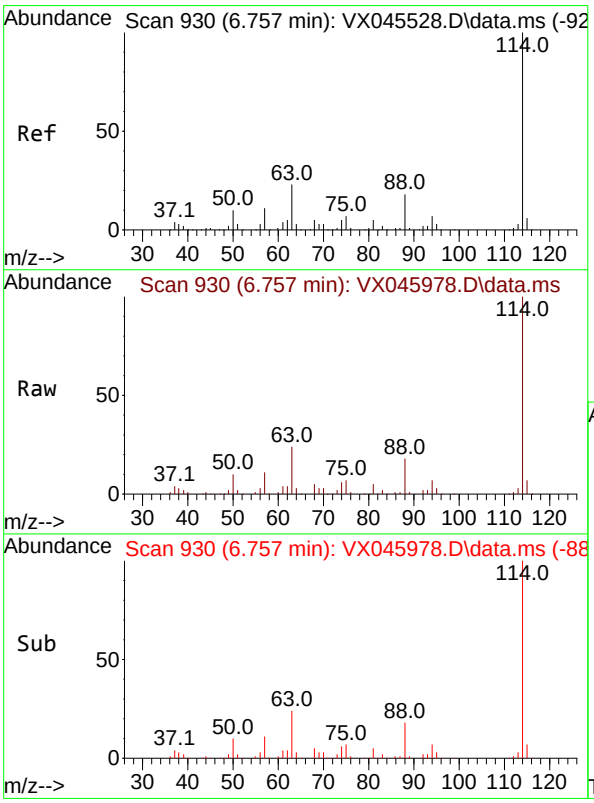
#33
1,2-Dichloroethane-d4
Concen: 54.158 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
TB04262025

Tgt Ion: 65 Resp: 66629

Ion	Ratio	Lower	Upper
65	100		
67	48.3	0.0	99.0

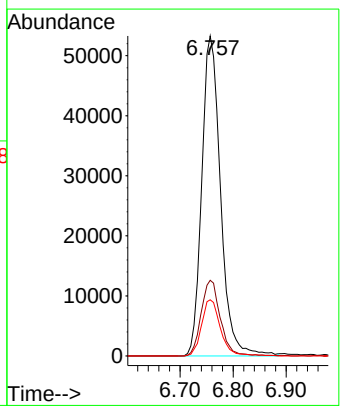


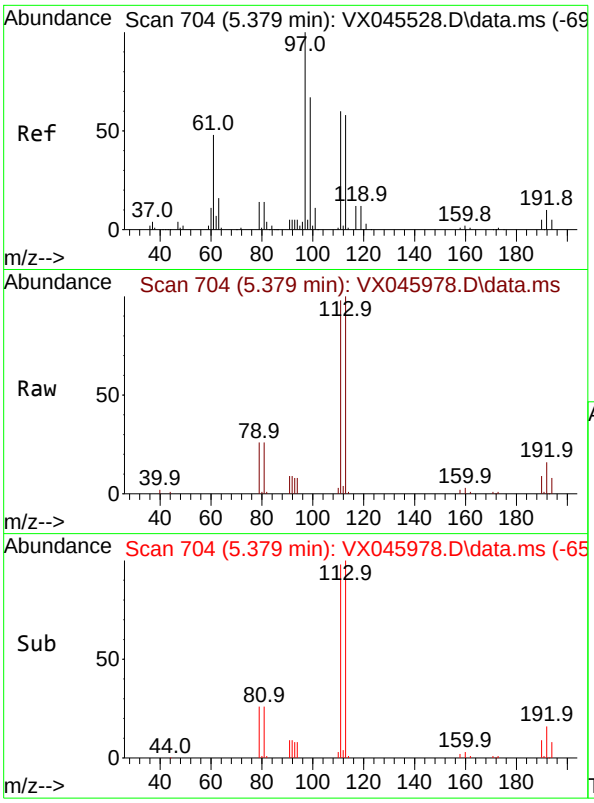


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

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



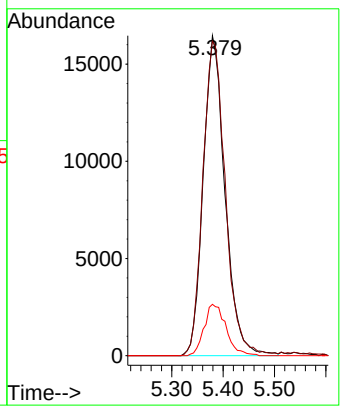


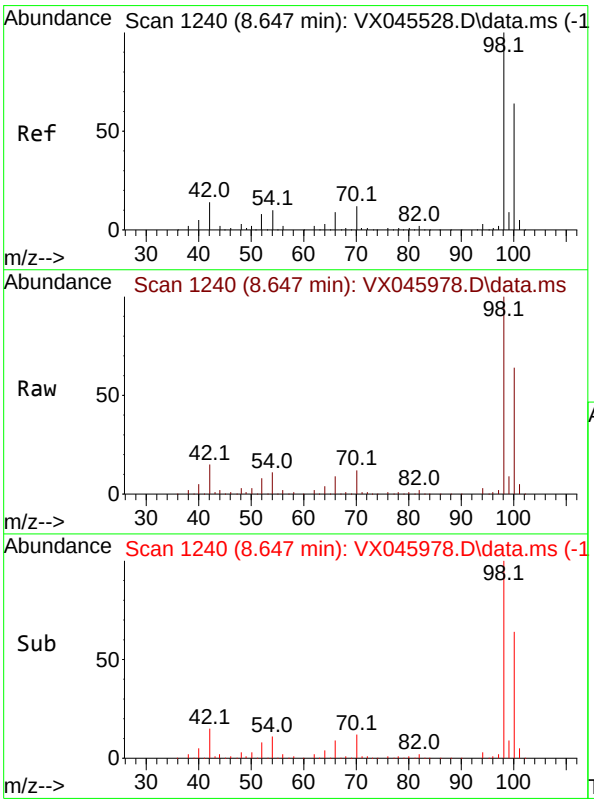
#35
Dibromofluoromethane
Concen: 51.911 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

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

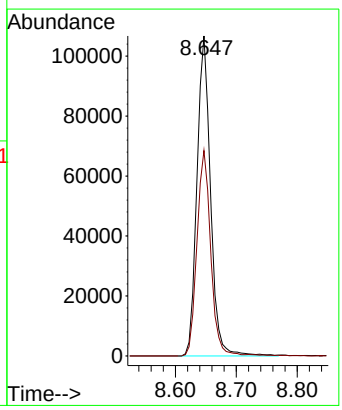


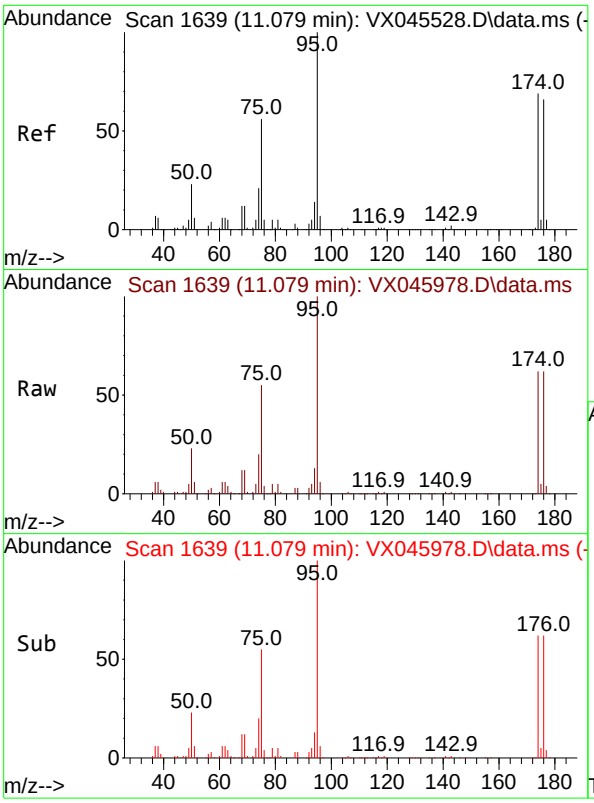


#50
Toluene-d8
Concen: 50.834 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

Tgt Ion: 98 Resp: 165475

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4



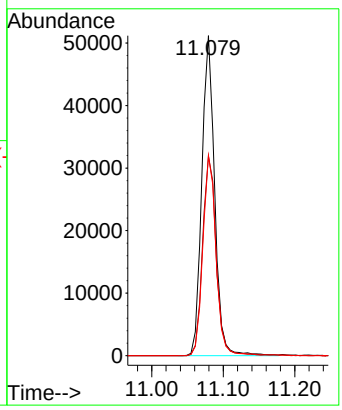


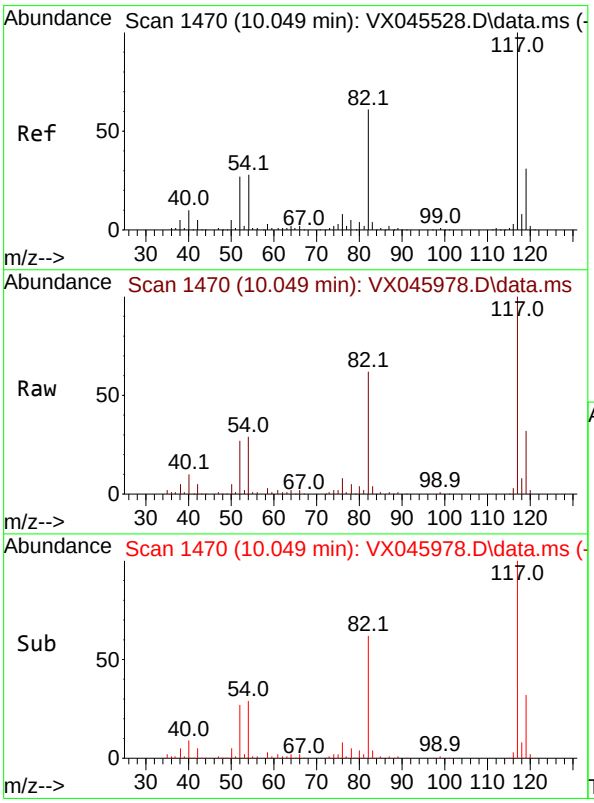
#62
4-Bromofluorobenzene
Concen: 53.875 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

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

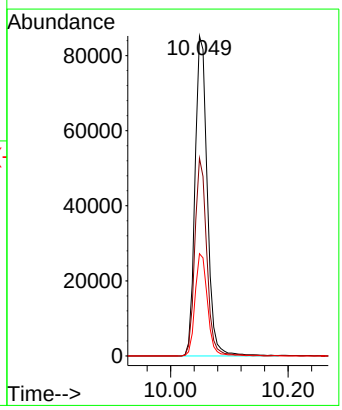


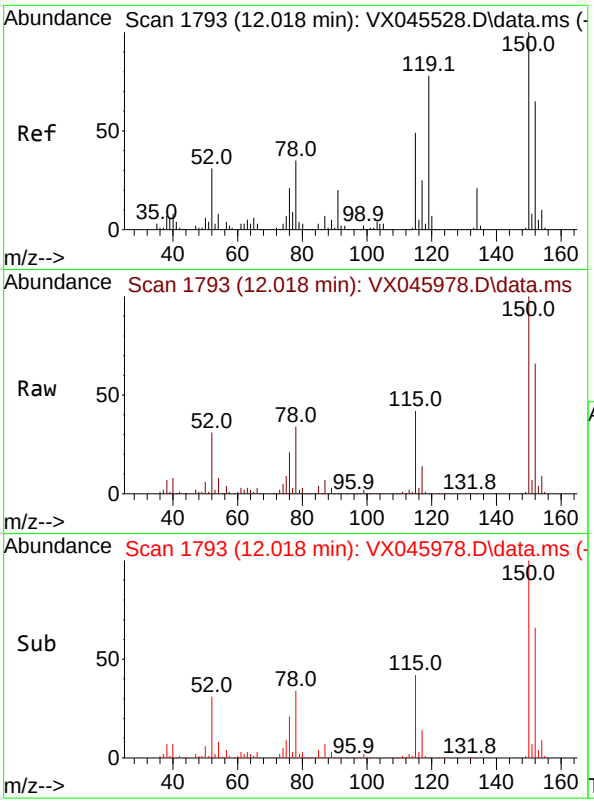


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

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



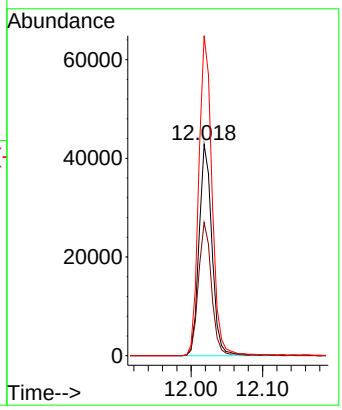


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045978.D
Acq: 29 Apr 2025 13:35

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



Sample Results: **VX045978.D**

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

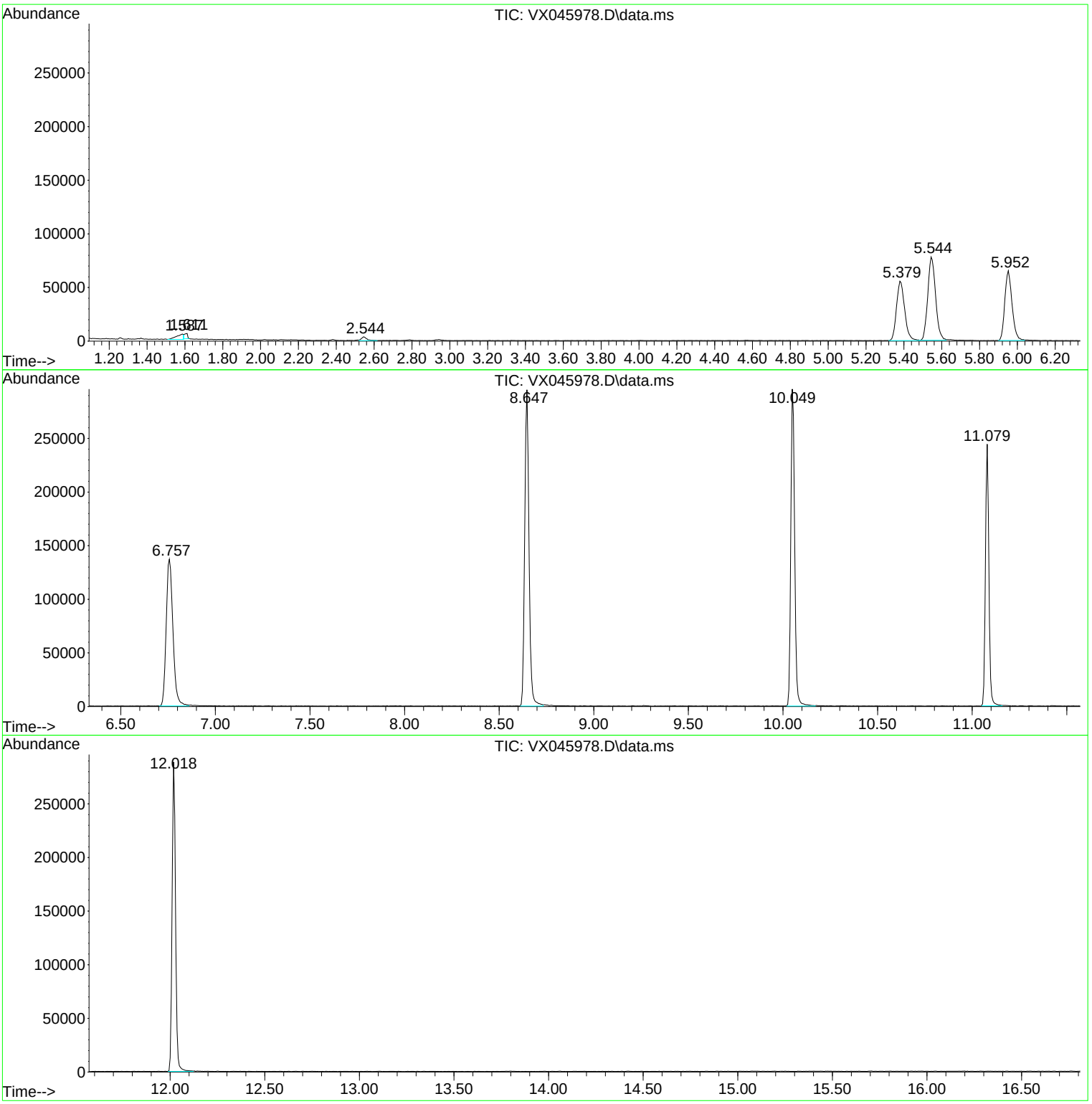
Sample Results: **VX045978.D**

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



Library Search Compound Report

Sample Results: **VX045978.D**

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

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

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: 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	$\overline{RRF}$	% 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: 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	$\overline{RRF}$	% 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.

Response Factor Report MSVOA_X2

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

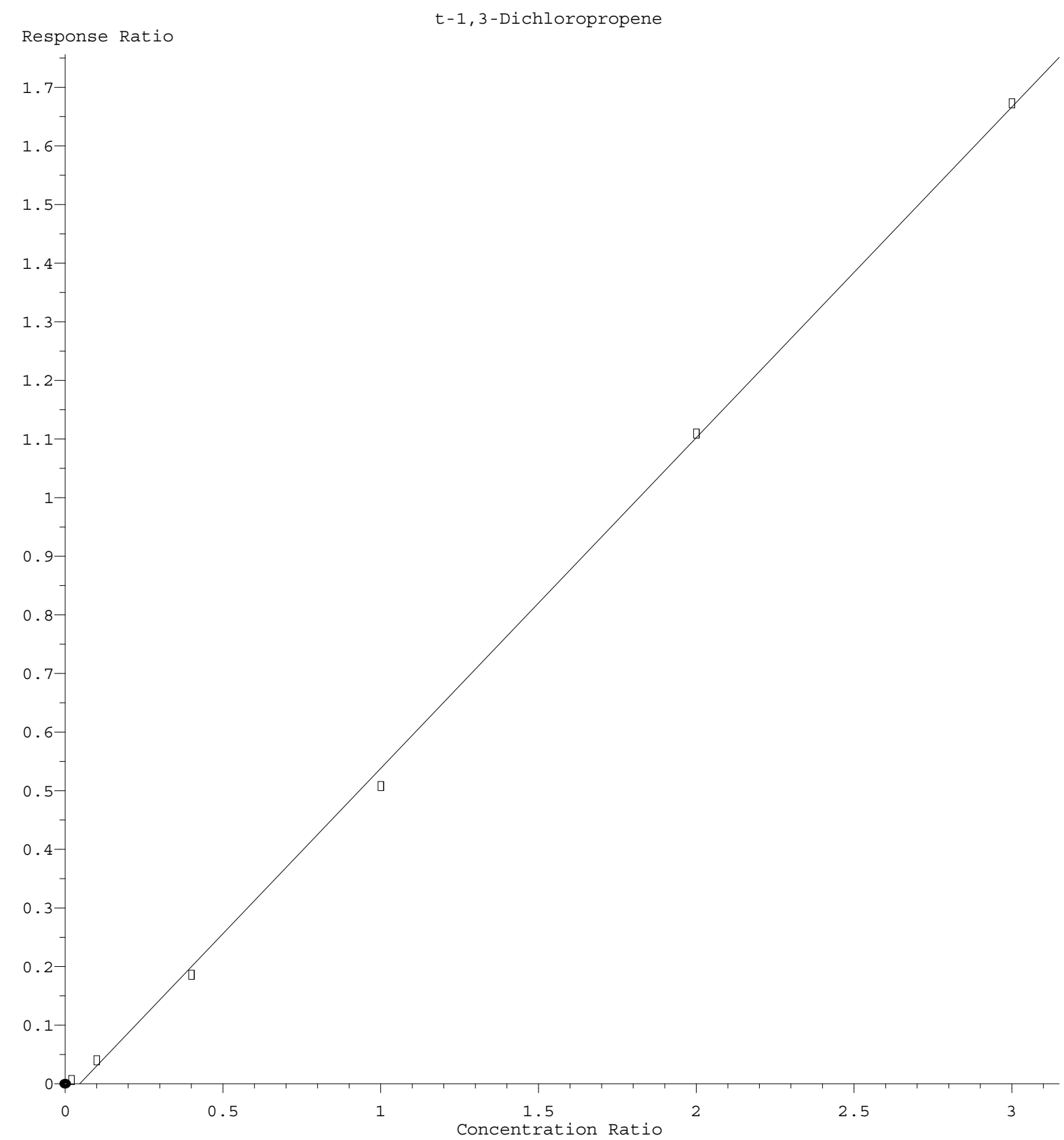
Calibration Files
1 =VX045525.D 5 =VX045526.D 20 =VX045527.D 50 =VX045528.D 100 =VX045529.D 150 =VX045530.D

		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



Response = 5.639e-001 * Amt - 2.582e-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

Quantitation Report (QT Reviewed)

ICAL Form

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

Quantitation Report (QT Reviewed)

ICAL Form

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)
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

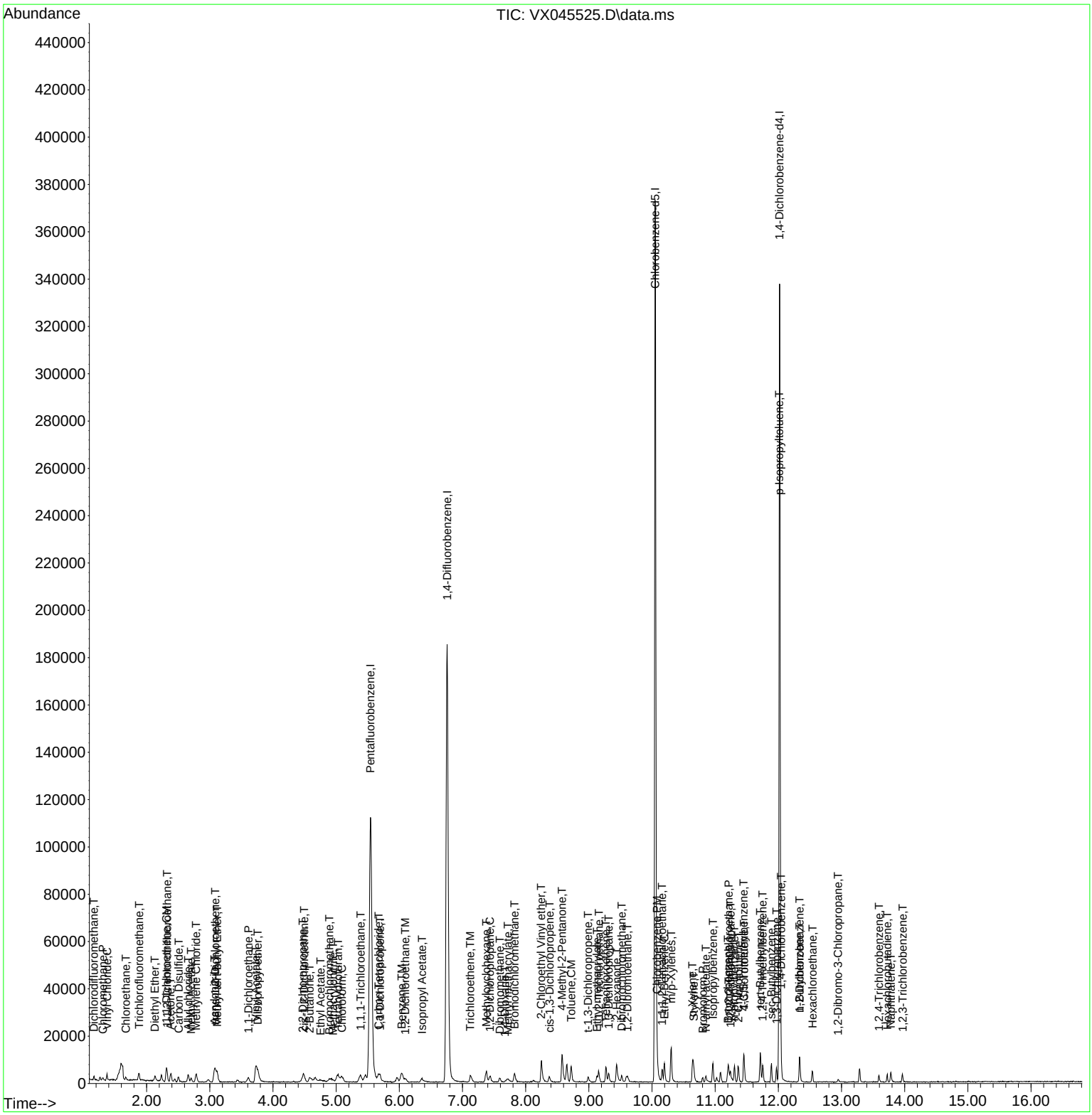
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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	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

ICAL Form

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

ICAL Form

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

ICAL Form

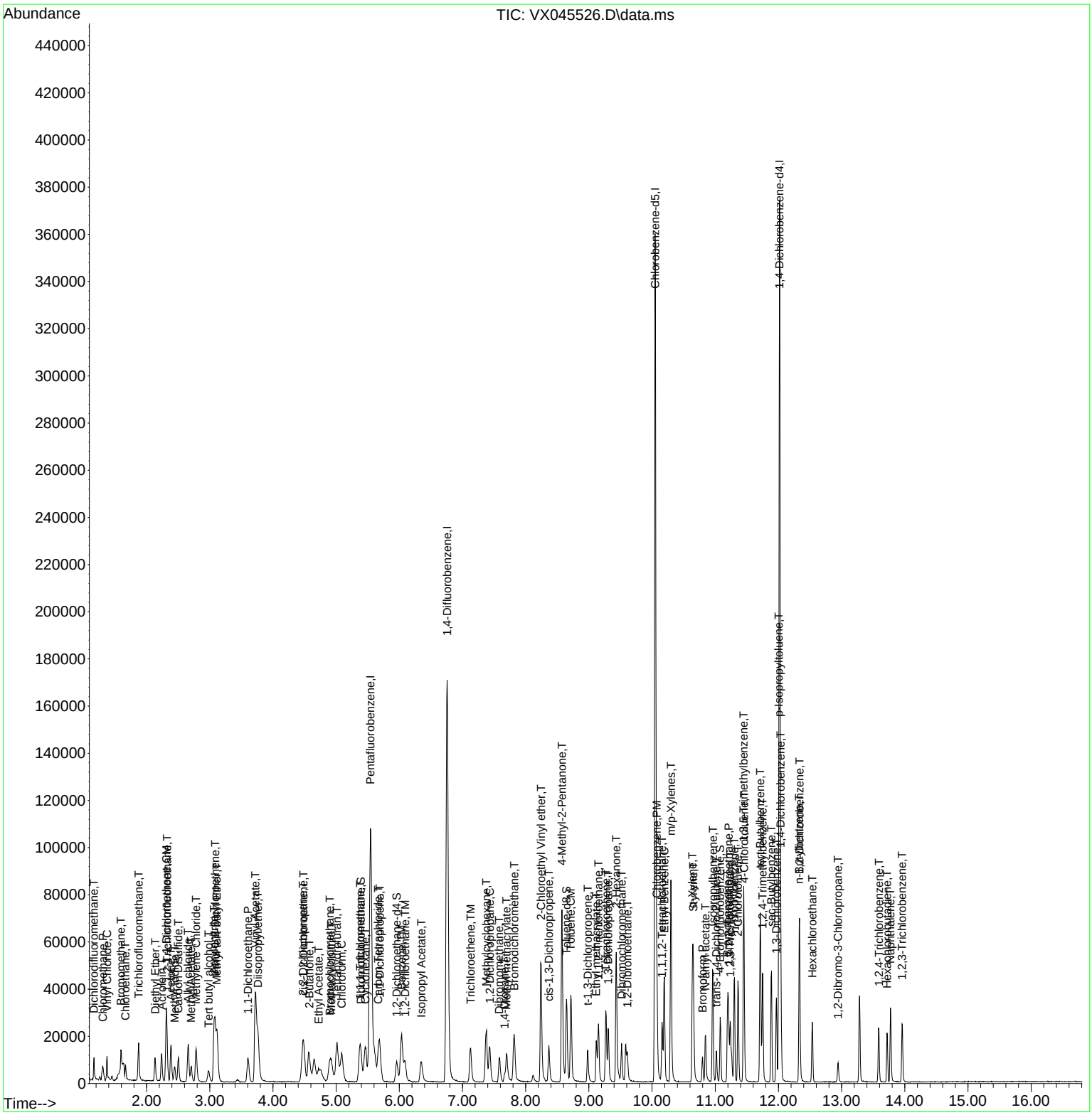
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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)
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

ICAL Form

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

ICAL Form

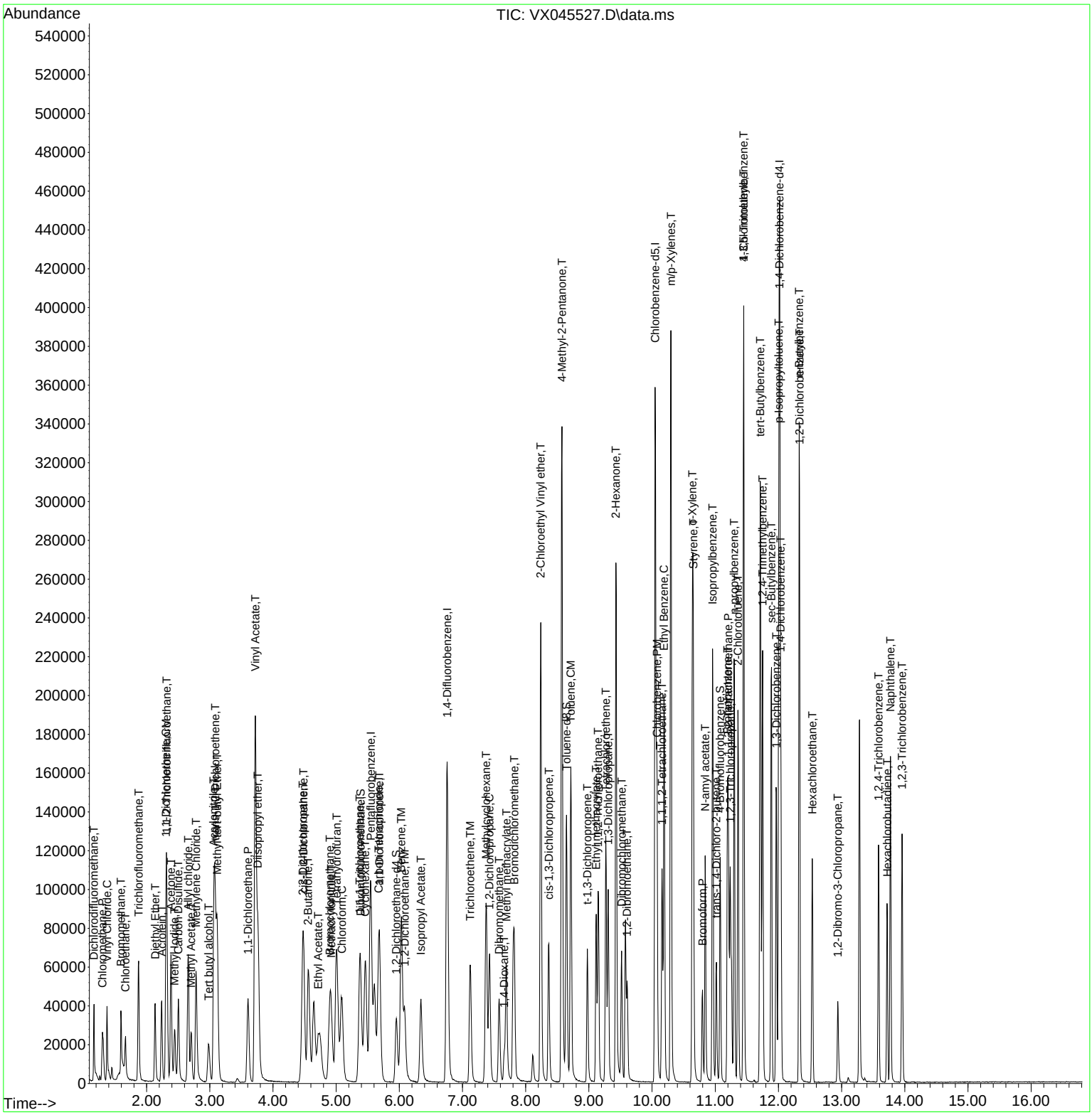
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

ICAL Form

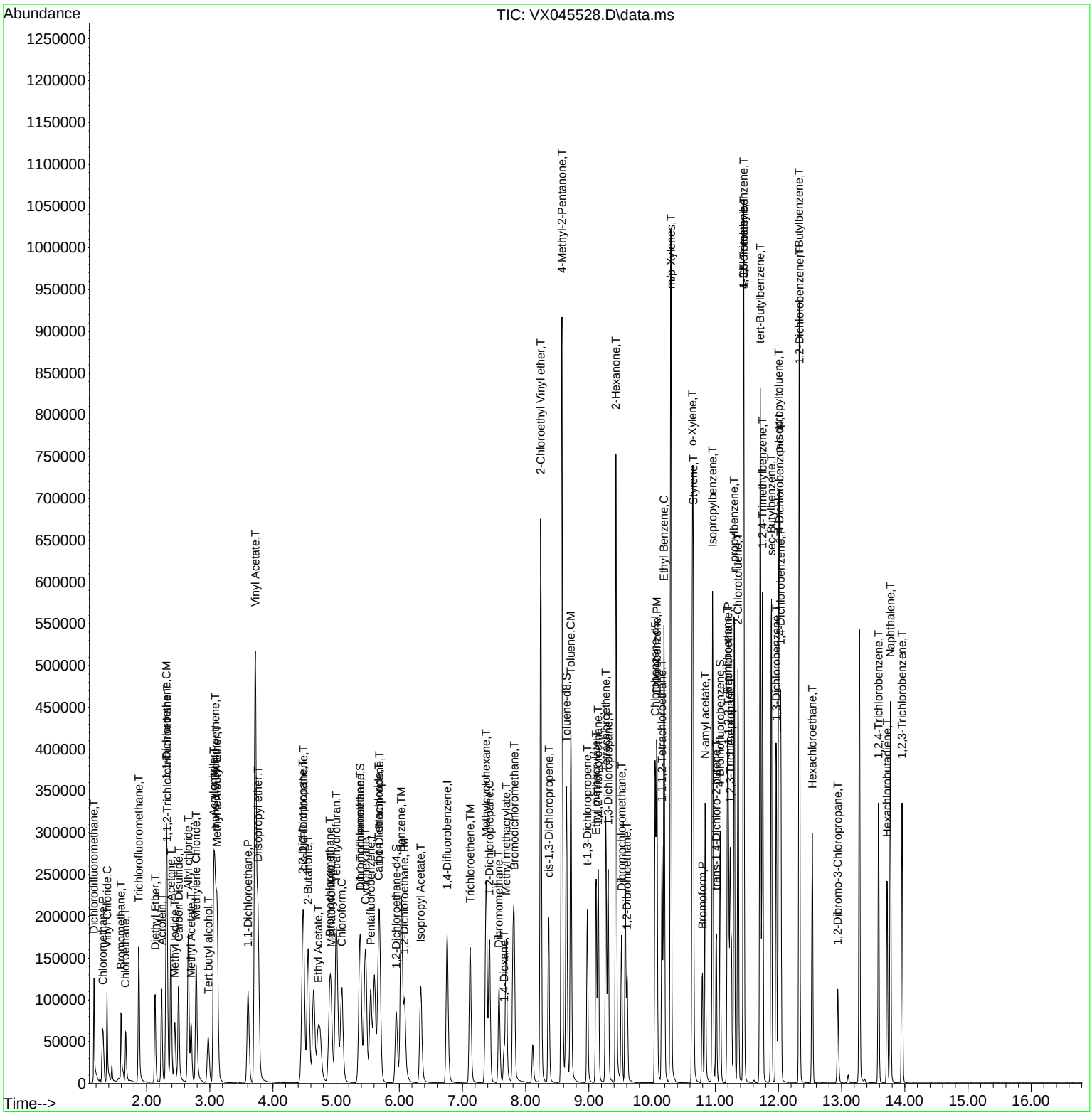
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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	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

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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)
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

ICAL Form

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

ICAL Form

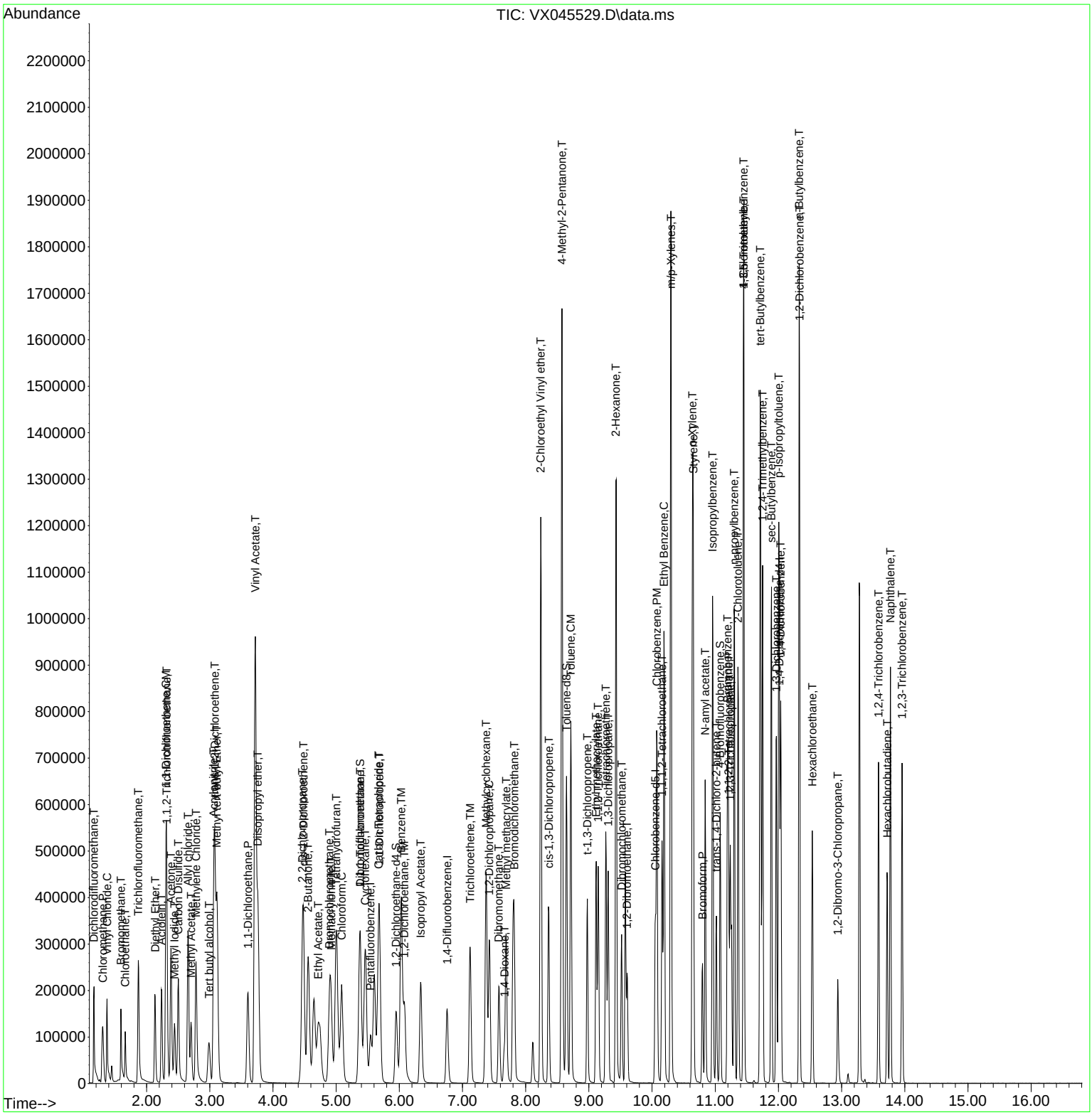
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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)
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

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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)
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

ICAL Form

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

ICAL Form

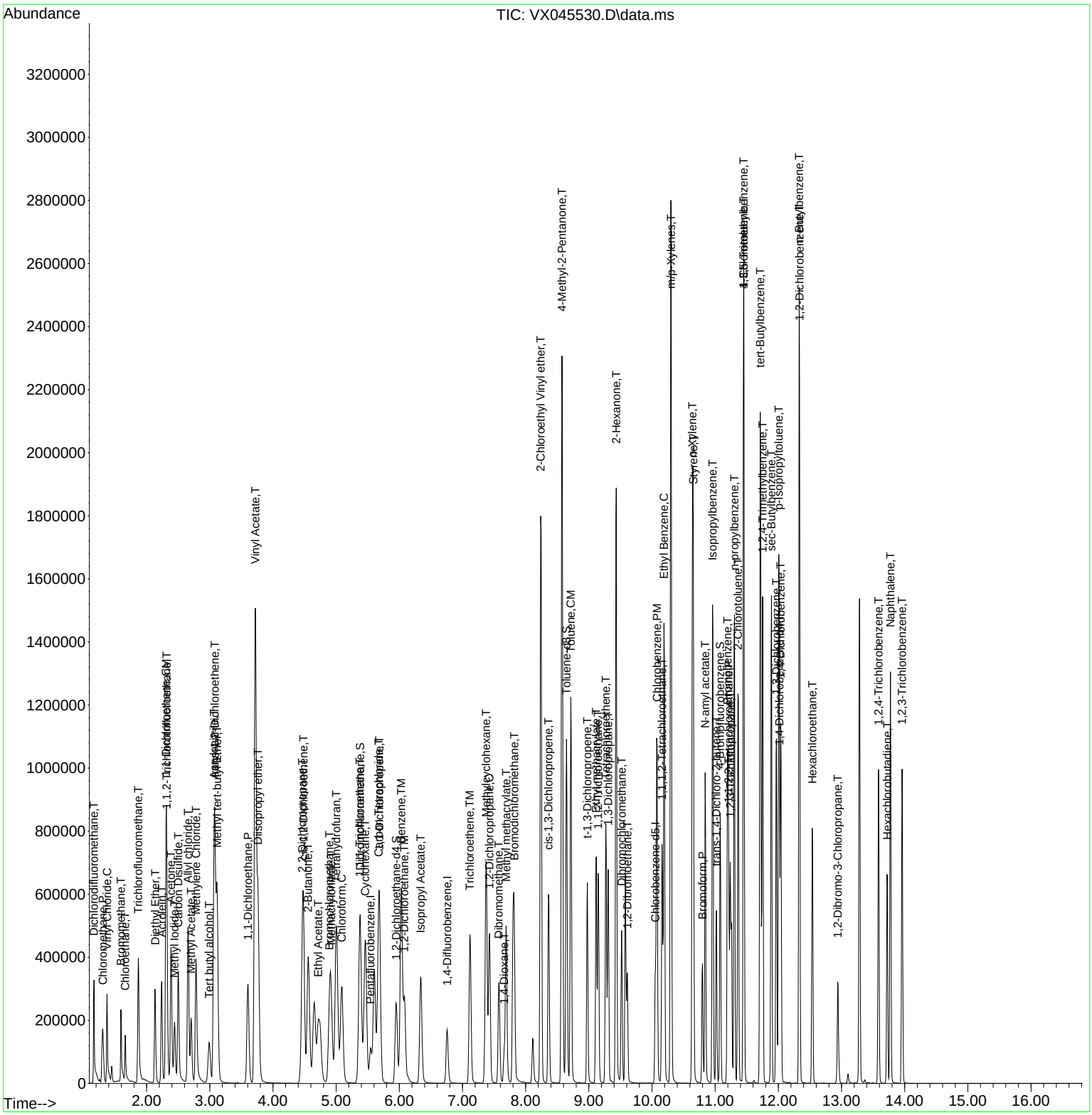
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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)
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

ICAL Form

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

ICAL Form

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

ICAL Form

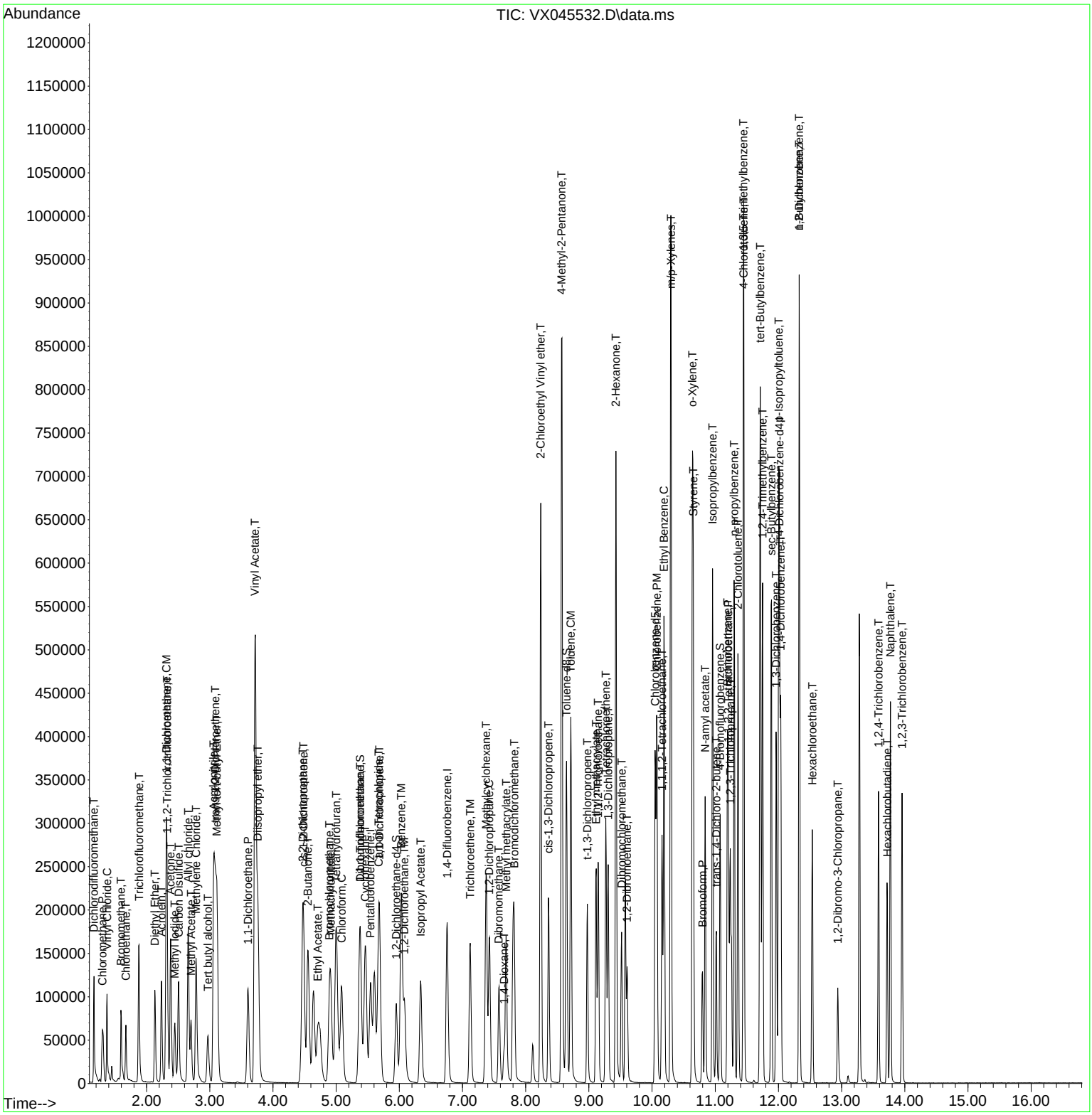
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED

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



Evaluate Continuing Calibration Report

ICAL Form

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

ICAL Form

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

ICAL Form

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

Evaluate Continuing Calibration Report

ICAL Form

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)
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

ICAL Form

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)
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-amyl 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

ICAL Form

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

Raw Data

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	$\overline{RRF}$	% 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: 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	$\overline{RRF}$	% 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.

Response Factor Report GCVOA_Y

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

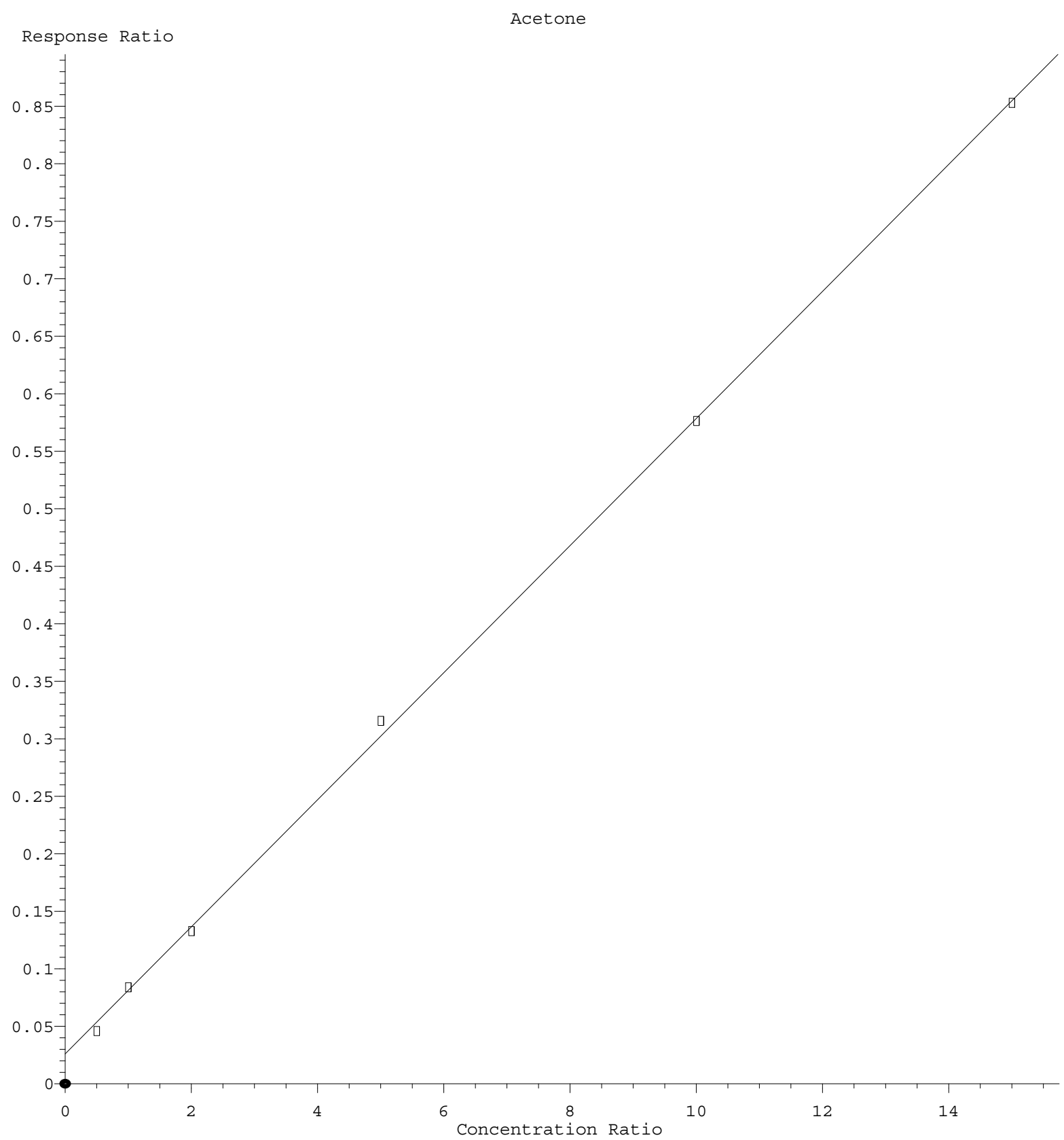
Calibration Files
5 =VY021953.D 10 =VY021954.D 20 =VY021955.D 50 =VY021956.D 100 =VY021957.D 150 =VY021958.D

		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



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

Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

ICAL Form

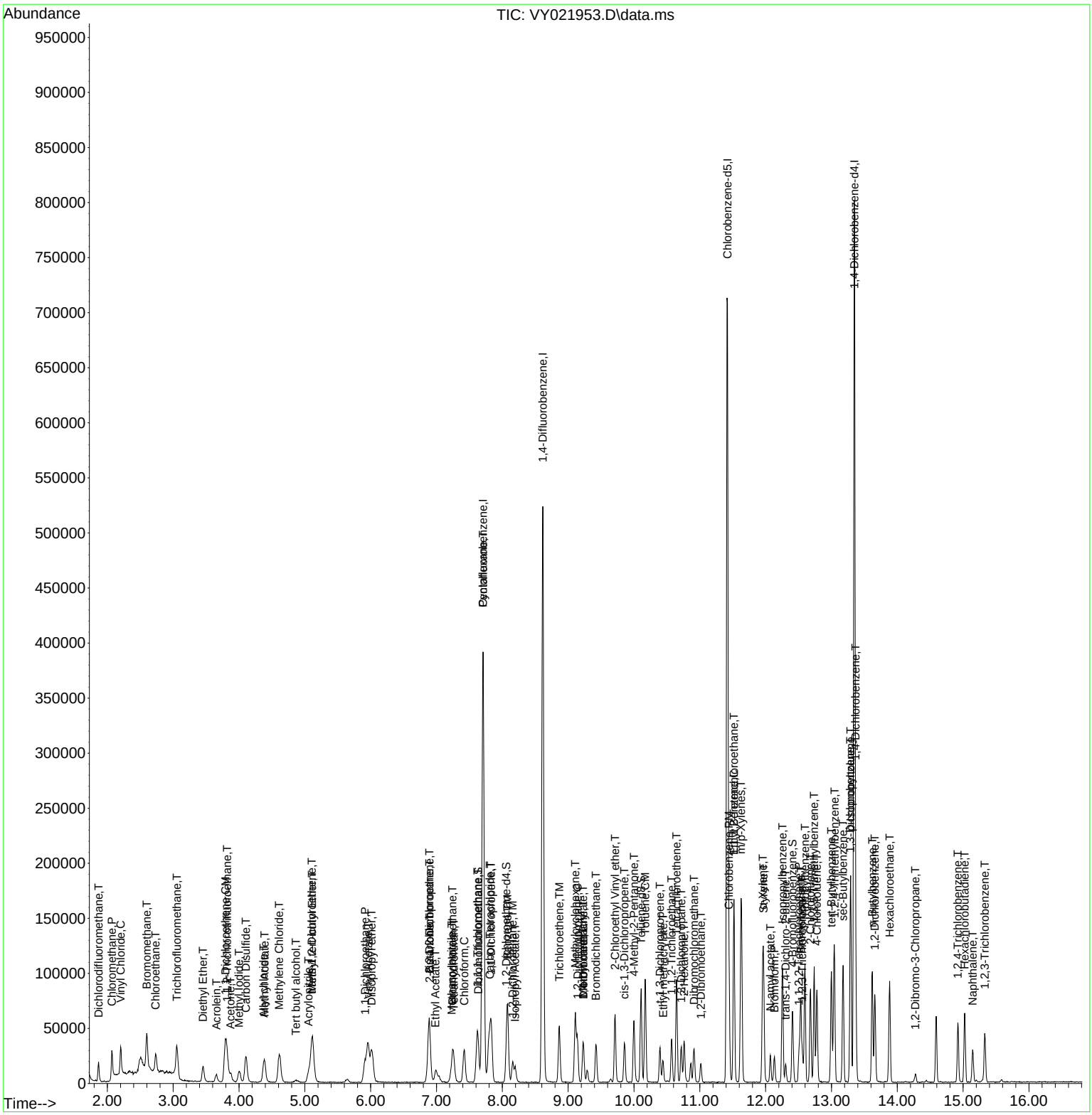
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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)
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

ICAL Form

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

ICAL Form

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

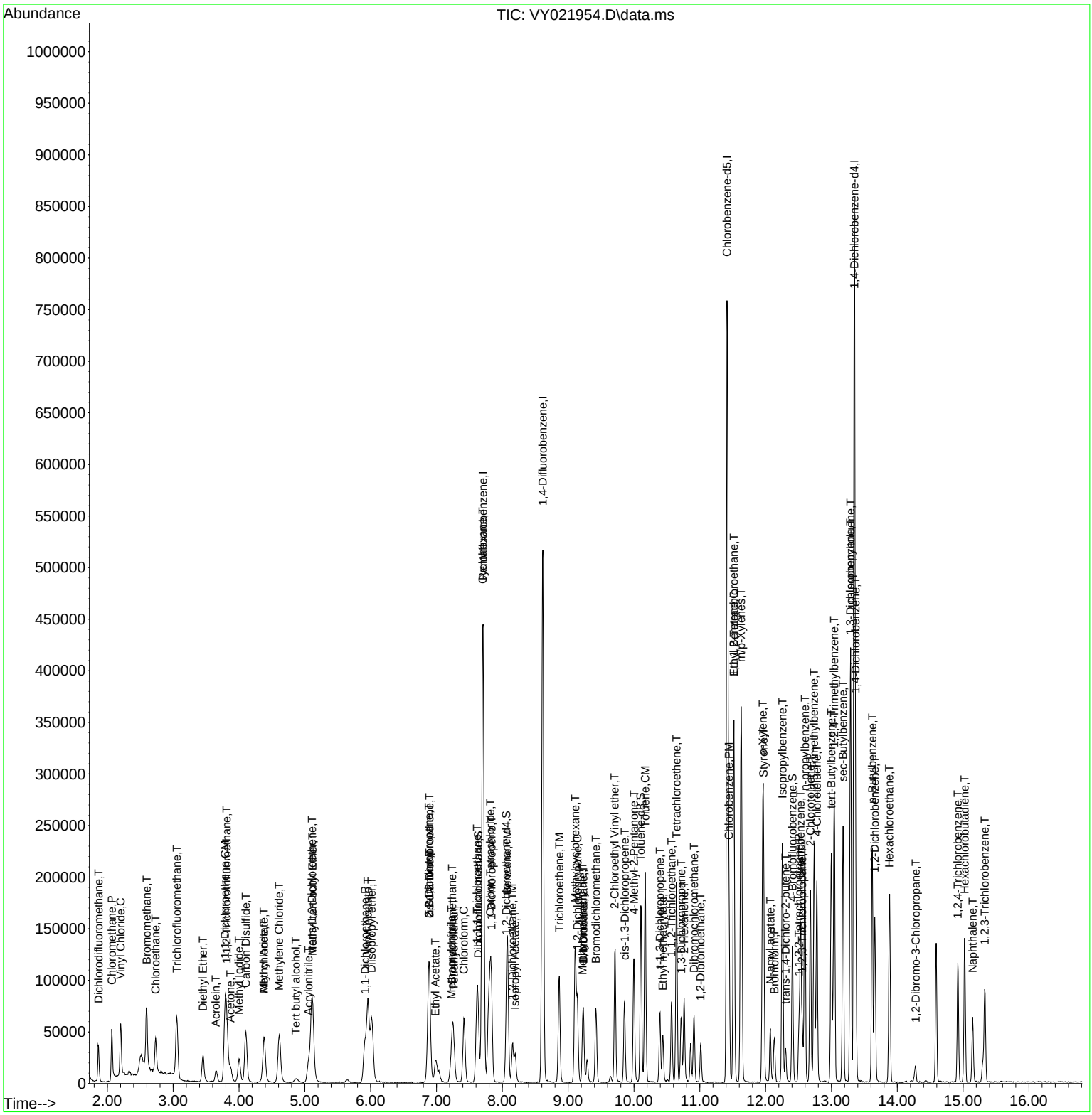
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

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

ICAL Form

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

ICAL Form

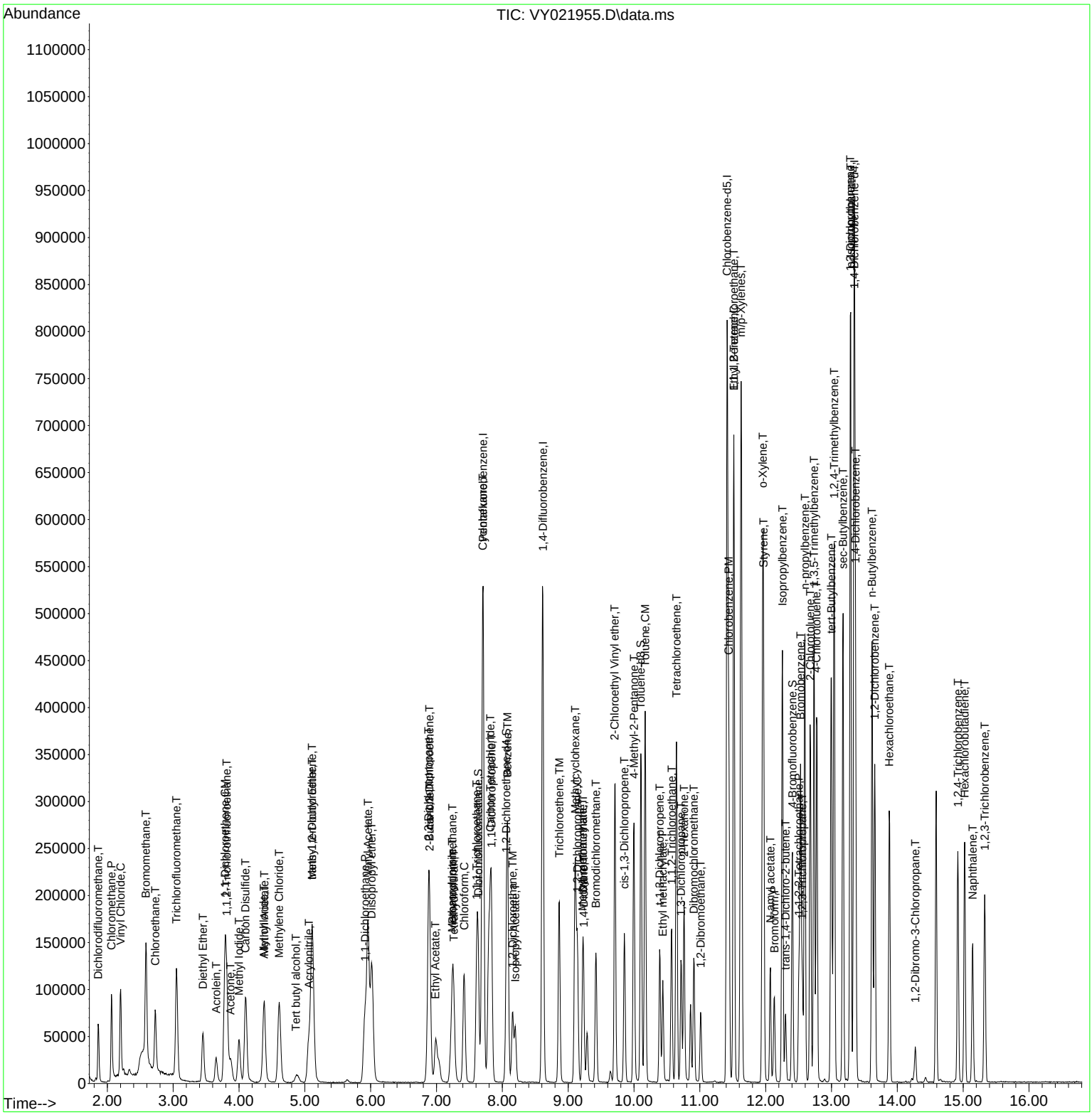
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

ICAL Form

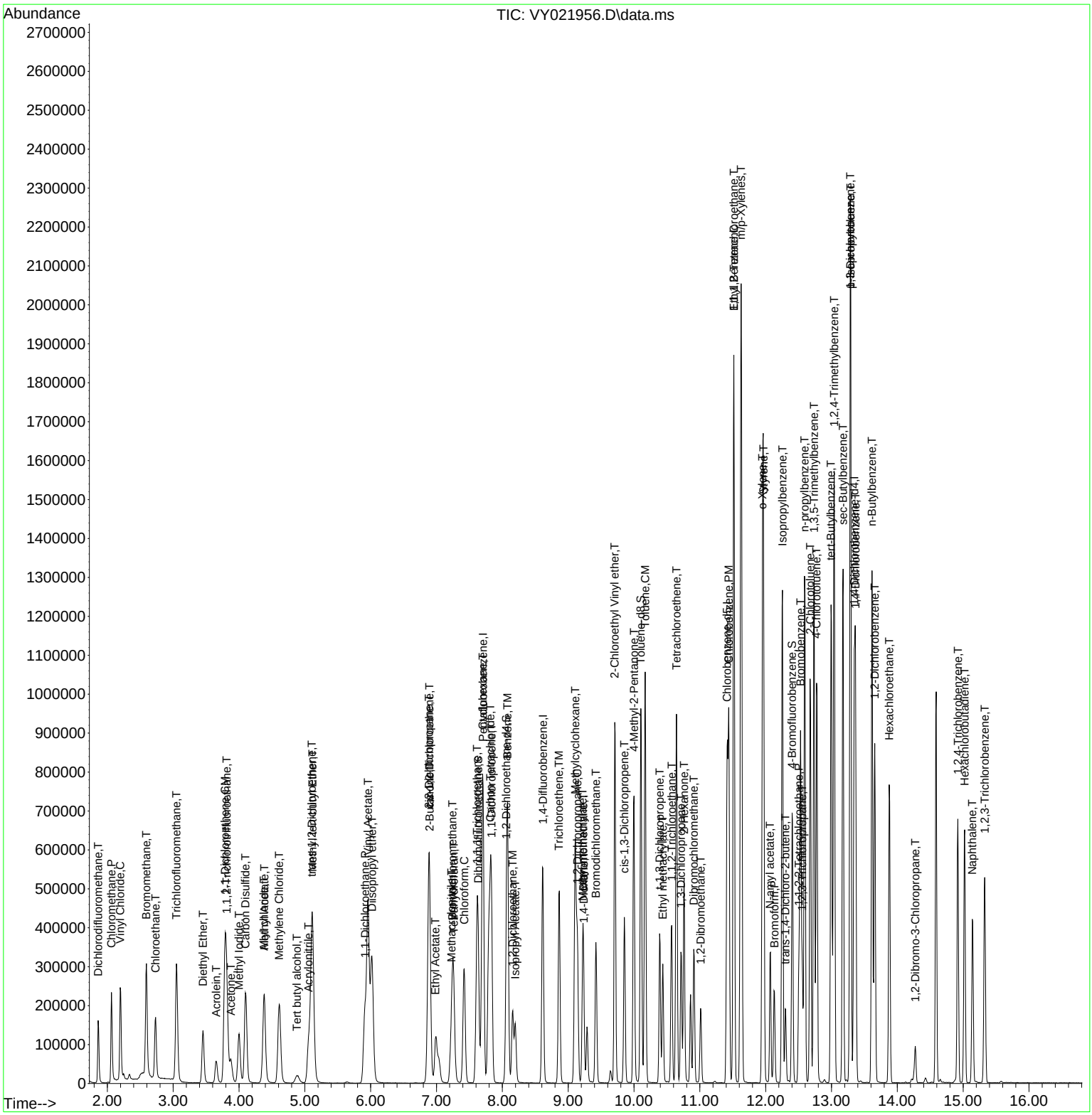
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Manual Integrations APPROVED

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

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

ICAL Form

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

ICAL Form

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

ICAL Form

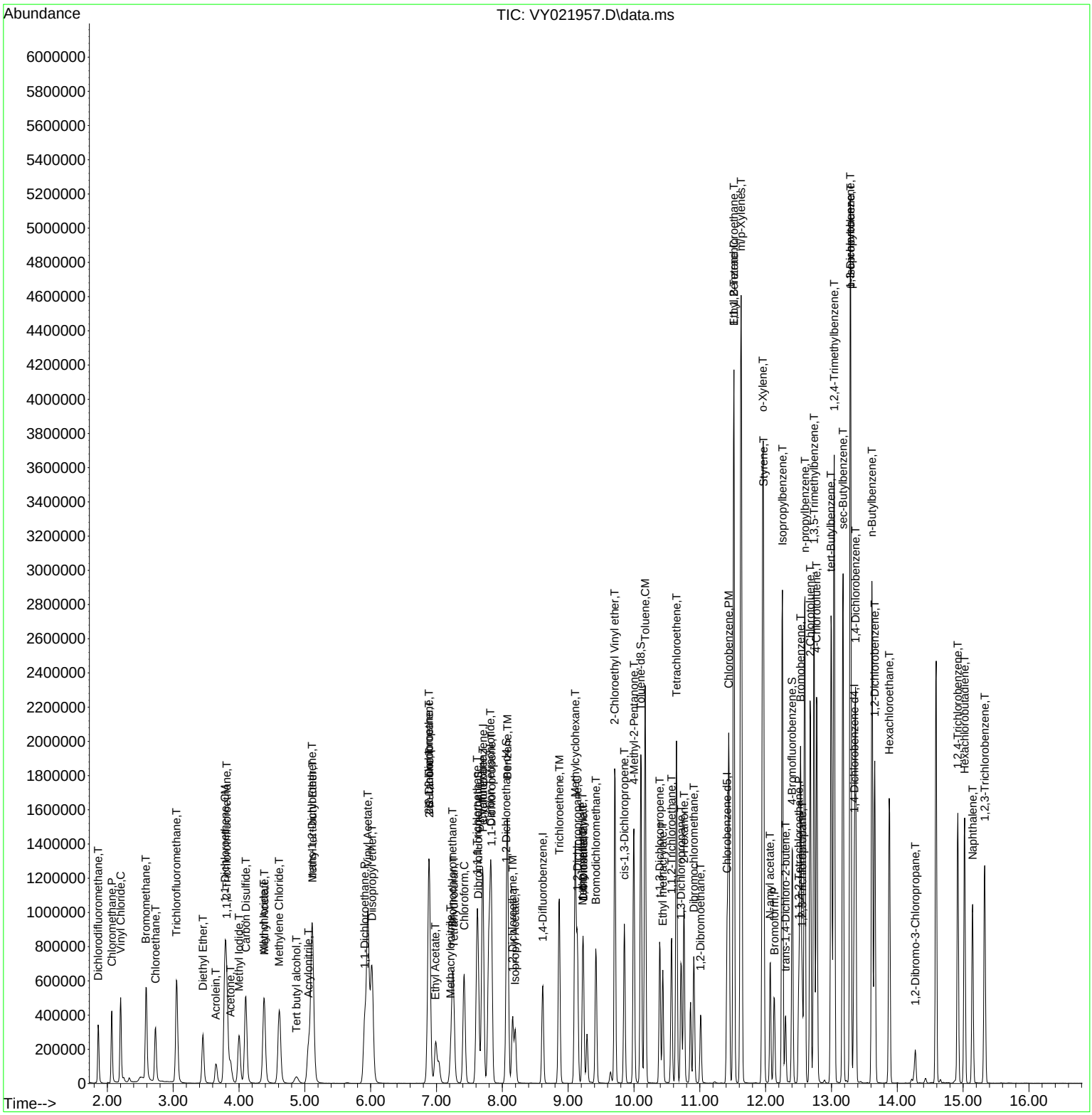
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

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

ICAL Form

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

ICAL Form

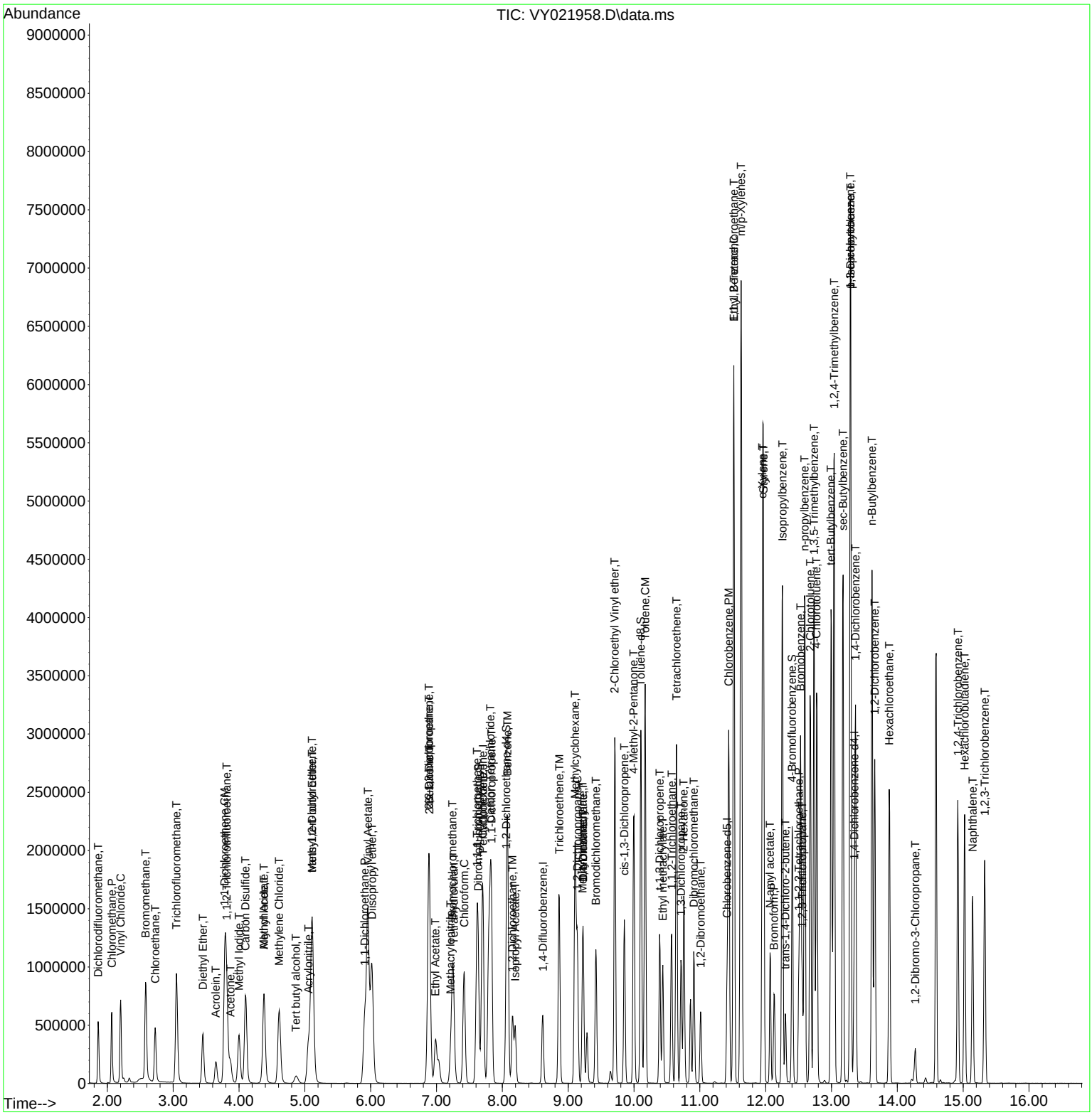
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



Raw Data: **VX045972.D**

Alliance TECHNICAL GROUP
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.

Alliance TECHNICAL GROUP

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

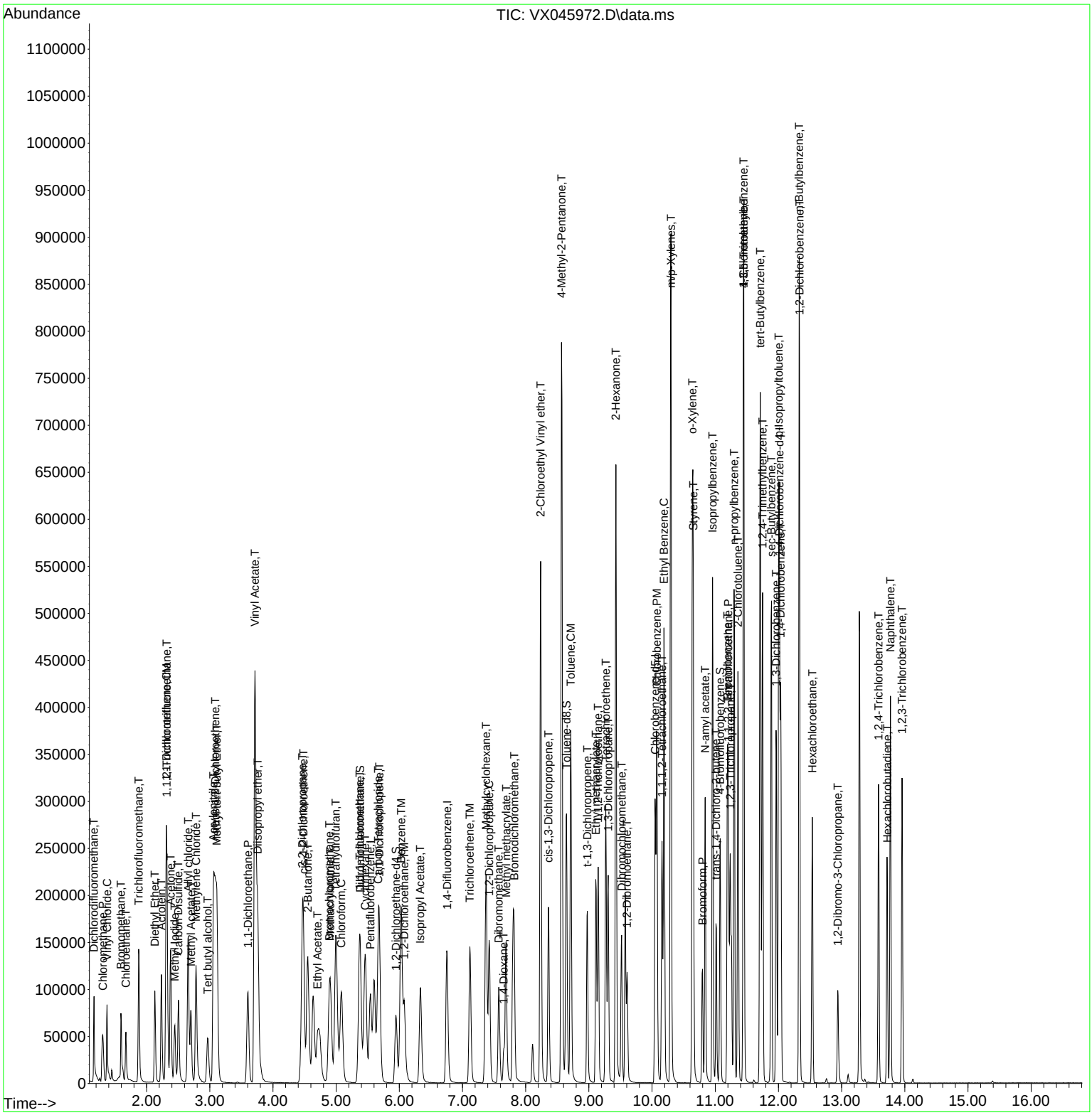
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045972.D
Acq On : 29 Apr 2025 11:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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



Sample Results: **VX045972.D**

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

Sample Results: **VX045972.D**

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

Sample Results: **VX045972.D**

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

Sample Results: **VX045972.D**

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

Sample Results: **VX045972.D**

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

Sample Results: **VX045972.D**

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

Raw Data: **VY022070.D**

Alliance TECHNICAL GROUP
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.

Raw Data: **VY022070.D**

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

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

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

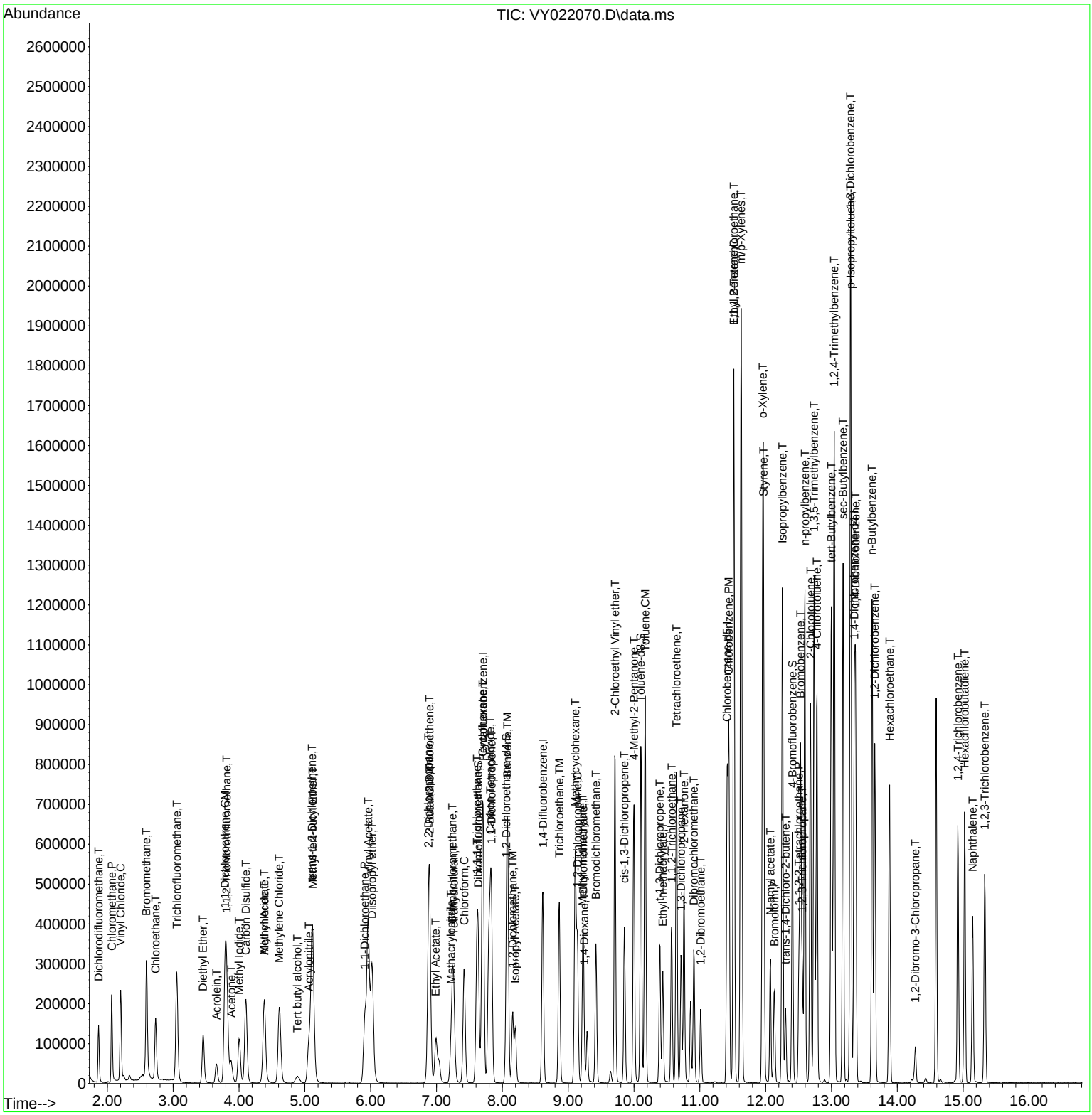
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022070.D
Acq On : 30 Apr 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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



Sample Results: **VY022070.D**

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

Sample Results: **VY022070.D**

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

Sample Results: **VY022070.D**

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

Sample Results: **VY022070.D**

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-amyl 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

Sample Results: **VY022070.D**

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

Raw Data: **VY022095.D**

Alliance TECHNICAL GROUP
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: 05/01/2025 08:50

Lab File ID: VY022095.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	0.359		-15.73	20
Chloromethane	0.607	0.542	0.1	-10.71	20
Vinyl Chloride	0.745	0.677		-9.13	20
Bromomethane	0.642	0.511		-20.41	20
Chloroethane	0.508	0.454		-10.63	20
Trichlorofluoromethane	0.983	0.891		-9.36	20
1,1,2-Trichlorotrifluoroethane	0.533	0.484		-9.19	20
1,1-Dichloroethene	0.497	0.441		-11.27	20
Acetone	0.070	0.062		-11.43	20
Carbon Disulfide	1.585	1.372		-13.44	20
Methyl tert-butyl Ether	1.113	1.031		-7.37	20
Methyl Acetate	0.216	0.226		4.63	20
Methylene Chloride	0.584	0.488		-16.44	20
trans-1,2-Dichloroethene	0.557	0.508		-8.8	20
1,1-Dichloroethane	0.893	0.788	0.1	-11.76	20
Cyclohexane	0.763	0.665		-12.84	20
2-Butanone	0.105	0.100		-4.76	20
Carbon Tetrachloride	0.530	0.528		-0.38	20
cis-1,2-Dichloroethene	0.622	0.570		-8.36	20
Bromochloromethane	0.347	0.340		-2.02	20
Chloroform	0.990	0.919		-7.17	20
1,1,1-Trichloroethane	0.896	0.816		-8.93	20
Methylcyclohexane	0.558	0.550		-1.43	20
Benzene	1.387	1.370		-1.23	20
1,2-Dichloroethane	0.343	0.348		1.46	20
Trichloroethene	0.384	0.385		0.26	20
1,2-Dichloropropane	0.307	0.304		-0.98	20
Bromodichloromethane	0.480	0.484		0.83	20
4-Methyl-2-Pentanone	0.160	0.176		10	20
Toluene	0.898	0.925		3.01	20
t-1,3-Dichloropropene	0.411	0.416		1.22	20
cis-1,3-Dichloropropene	0.489	0.484		-1.02	20
1,1,2-Trichloroethane	0.256	0.267		4.3	20
2-Hexanone	0.106	0.118		11.32	20
Dibromochloromethane	0.355	0.371		4.51	20
1,2-Dibromoethane	0.242	0.251		3.72	20
Tetrachloroethene	0.472	0.481		1.91	20
Chlorobenzene	1.118	1.078	0.3	-3.58	20

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

Raw Data: **VY022095.D**

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: 05/01/2025 08:50

Lab File ID: VY022095.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	1.811		-0.98	20
m/p-Xylenes	0.728	0.745		2.34	20
o-Xylene	0.671	0.676		0.75	20
Styrene	1.126	1.172		4.09	20
Bromoform	0.229	0.238	0.1	3.93	20
Isopropylbenzene	3.341	3.204		-4.1	20
1,1,2,2-Tetrachloroethane	0.563	0.530	0.3	-5.86	20
1,3-Dichlorobenzene	1.714	1.634		-4.67	20
1,4-Dichlorobenzene	1.698	1.606		-5.42	20
1,2-Dichlorobenzene	1.495	1.427		-4.55	20
1,2-Dibromo-3-Chloropropane	0.090	0.085		-5.56	20
1,2,4-Trichlorobenzene	0.847	0.802		-5.31	20
1,2,3-Trichlorobenzene	0.731	0.697		-4.65	20
1,2-Dichloroethane-d4	0.462	0.431		-6.71	20
Dibromofluoromethane	0.330	0.335		1.51	20
Toluene-d8	1.245	1.270		2.01	20
4-Bromofluorobenzene	0.419	0.427		1.91	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\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 12:52:18 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	300031	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	433614	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	410078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	227184	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129452	46.711	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.420%			
35) Dibromofluoromethane	7.634	113	145369	50.745	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.500%			
50) Toluene-d8	10.109	98	550662	50.988	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.980%			
62) 4-Bromofluorobenzene	12.408	95	185315	50.971	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	107755	42.149	ug/l	100
3) Chloromethane	2.068	50	162561	44.656	ug/l	99
4) Vinyl Chloride	2.202	62	203141	45.411	ug/l	98
5) Bromomethane	2.592	94	153399	39.803	ug/l	98
6) Chloroethane	2.733	64	136234	44.717	ug/l	96
7) Trichlorofluoromethane	3.056	101	267266	45.309	ug/l	98
8) Diethyl Ether	3.458	74	65627	42.745	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	145092	45.342	ug/l	98
10) Methyl Iodide	4.001	142	166199	44.860	ug/l	98
11) Tert butyl alcohol	4.879	59	36425	239.412	ug/l #	87
12) 1,1-Dichloroethene	3.787	96	132167	44.312	ug/l	97
13) Acrolein	3.653	56	46426	170.015	ug/l	99
14) Allyl chloride	4.385	41	149377	43.012	ug/l	99
15) Acrylonitrile	5.061	53	131912	234.690	ug/l	99
16) Acetone	3.873	43	93527	258.562	ug/l	93
17) Carbon Disulfide	4.104	76	411563	43.277	ug/l	100
18) Methyl Acetate	4.385	43	67887	52.440	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	309344	46.339	ug/l	99
20) Methylene Chloride	4.610	84	146445	41.790	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	152494	45.652	ug/l	97
22) Diisopropyl ether	6.019	45	358660	46.406	ug/l	99
23) Vinyl Acetate	5.958	43	972154	233.397	ug/l	99
24) 1,1-Dichloroethane	5.915	63	236343	44.117	ug/l	98
25) 2-Butanone	6.896	43	149979	237.416	ug/l	100
26) 2,2-Dichloropropane	6.884	77	216277	46.061	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	171041	45.794	ug/l	100
28) Bromochloromethane	7.238	49	102077	49.056	ug/l	95
29) Tetrahydrofuran	7.262	42	100678	245.385	ug/l	97
30) Chloroform	7.421	83	275742	46.403	ug/l	100
31) Cyclohexane	7.701	56	199607	43.571	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	244709	45.518	ug/l	99
36) 1,1-Dichloropropene	7.835	75	186977	48.590	ug/l	100
37) Ethyl Acetate	6.988	43	70801	51.230	ug/l	97
38) Carbon Tetrachloride	7.817	117	229097	49.824	ug/l	100
39) Methylcyclohexane	9.110	83	238404	49.231	ug/l	96
40) Benzene	8.079	78	593961	49.378	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 12:52:18 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	34133	45.180	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	150849	50.652	ug/l		99
43) Isopropyl Acetate	8.195	43	130927	49.331	ug/l		99
44) Trichloroethene	8.866	130	166940	50.105	ug/l		99
45) 1,2-Dichloropropane	9.140	63	131749	49.528	ug/l		97
46) Dibromomethane	9.231	93	84979	51.032	ug/l		99
47) Bromodichloromethane	9.427	83	209708	50.411	ug/l		100
48) Methyl methacrylate	9.219	41	64491	52.563	ug/l		97
49) 1,4-Dioxane	9.231	88	19493	1098.297	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	381378	274.117	ug/l		99
52) Toluene	10.170	92	401133	51.517	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	180292	50.528	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	209730	49.447	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	115966	52.135	ug/l		98
56) Ethyl methacrylate	10.439	69	133143	52.343	ug/l		98
57) 1,3-Dichloropropane	10.719	76	182342	51.135	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	351579	282.693	ug/l		99
59) 2-Hexanone	10.762	43	255399	278.311	ug/l		99
60) Dibromochloromethane	10.914	129	160702	52.183	ug/l		99
61) 1,2-Dibromoethane	11.012	107	108715	51.771	ug/l		100
64) Tetrachloroethene	10.646	164	197335	51.010	ug/l		99
65) Chlorobenzene	11.444	112	442124	48.212	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	160317	49.657	ug/l		100
67) Ethyl Benzene	11.518	91	742816	49.517	ug/l		99
68) m/p-Xylenes	11.627	106	610976	102.352	ug/l		99
69) o-Xylene	11.957	106	277219	50.386	ug/l		98
70) Styrene	11.969	104	480407	52.004	ug/l		99
71) Bromoform	12.133	173	97556	51.974	ug/l	#	98
73) Isopropylbenzene	12.255	105	727842	47.953	ug/l		99
74) N-amyl acetate	12.072	43	120776	46.314	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	120473	47.078	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	96284m	49.479	ug/l		
77) Bromobenzene	12.536	156	186160	48.538	ug/l		99
78) n-propylbenzene	12.597	91	874536	48.382	ug/l		99
79) 2-Chlorotoluene	12.682	91	498448	47.417	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	613435	49.051	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	38218	47.296	ug/l		98
82) 4-Chlorotoluene	12.780	91	523473	47.904	ug/l		98
83) tert-Butylbenzene	12.999	119	538982	48.054	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	621868	49.714	ug/l		100
85) sec-Butylbenzene	13.176	105	800547	48.777	ug/l		99
86) p-Isopropyltoluene	13.292	119	689548	49.477	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	371168	47.649	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	364925	47.301	ug/l		98
89) n-Butylbenzene	13.621	91	597694	47.980	ug/l		99
90) Hexachloroethane	13.883	117	142735	46.615	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	324218	47.720	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19397	47.643	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	182261	47.340	ug/l		100
94) Hexachlorobutadiene	15.023	225	111490	47.066	ug/l		99
95) Naphthalene	15.145	128	304421	47.598	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	158454	47.678	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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

Sample Results: **VY022095.D**

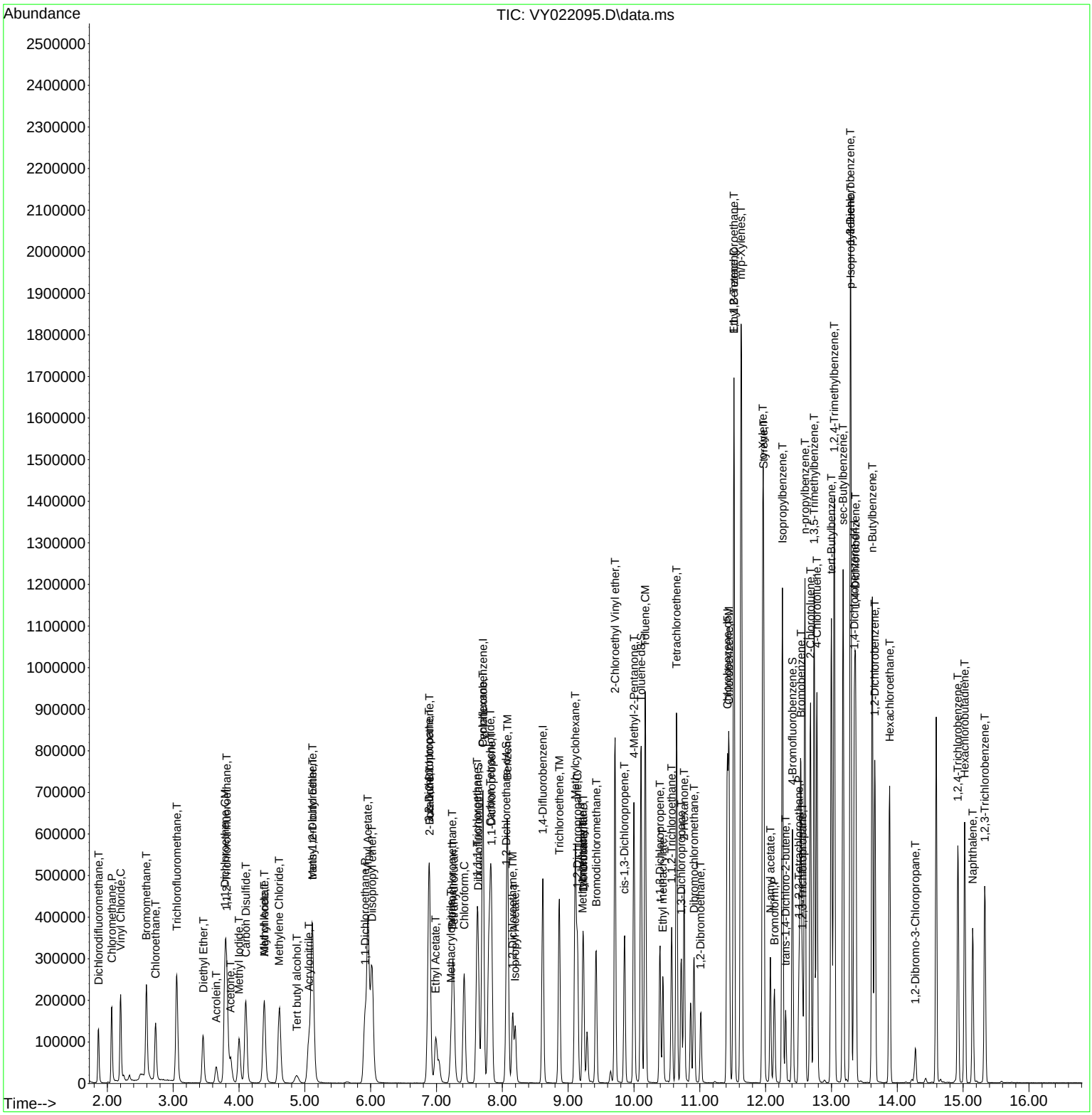
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 12:52:18 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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



Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	0.359	15.7	85	0.00
3	P	Chloromethane	0.607	0.542	10.7	84	0.00
4	C	Vinyl Chloride	0.745	0.677	9.1#	87	0.00
5	T	Bromomethane	0.642	0.511	20.4	80	0.00
6	T	Chloroethane	0.508	0.454	10.6	86	0.00
7	T	Trichlorofluoromethane	0.983	0.891	9.4	87	0.00
8	T	Diethyl Ether	0.256	0.219	14.5	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.533	0.484	9.2	92	0.00
10	T	Methyl Iodide	0.617	0.554	10.2	82	0.00
11	T	Tert butyl alcohol	0.025	0.024	4.0	87	0.00
12	CM	1,1-Dichloroethene	0.497	0.441	11.3#	87	0.00
13	T	Acrolein	0.046	0.031	32.6#	68	0.00
14	T	Allyl chloride	0.579	0.498	14.0	84	0.00
15	T	Acrylonitrile	0.094	0.088	6.4	88	0.00
16	T	Acetone	0.070	0.062	11.4	92	0.00
17	T	Carbon Disulfide	1.585	1.372	13.4	86	0.00
18	T	Methyl Acetate	0.216	0.226	-4.6	95	0.00
19	T	Methyl tert-butyl Ether	1.113	1.031	7.4	85	0.00
20	T	Methylene Chloride	0.584	0.488	16.4	85	0.00
21	T	trans-1,2-Dichloroethene	0.557	0.508	8.8	89	0.01
22	T	Diisopropyl ether	1.288	1.195	7.2	86	0.00
23	T	Vinyl Acetate	0.694	0.648	6.6	84	0.00
24	P	1,1-Dichloroethane	0.893	0.788	11.8	86	0.00
25	T	2-Butanone	0.105	0.100	4.8	88	0.00
26	T	2,2-Dichloropropane	0.782	0.721	7.8	91	0.00
27	T	cis-1,2-Dichloroethene	0.622	0.570	8.4	87	0.00
28	T	Bromochloromethane	0.347	0.340	2.0	92	0.00
29	T	Tetrahydrofuran	0.068	0.067	1.5	86	0.00
30	C	Chloroform	0.990	0.919	7.2#	90	0.00
31	T	Cyclohexane	0.763	0.665	12.8	88	0.00
32	T	1,1,1-Trichloroethane	0.896	0.816	8.9	89	0.00
33	S	1,2-Dichloroethane-d4	0.462	0.431	6.7	86	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
35	S	Dibromofluoromethane	0.330	0.335	-1.5	88	0.00
36	T	1,1-Dichloropropene	0.444	0.431	2.9	88	0.00
37	T	Ethyl Acetate	0.159	0.163	-2.5	88	0.00
38	T	Carbon Tetrachloride	0.530	0.528	0.4	90	0.00
39	T	Methylcyclohexane	0.558	0.550	1.4	87	0.00
40	TM	Benzene	1.387	1.370	1.2	89	0.00
41	T	Methacrylonitrile	0.087	0.079	9.2	74	0.00
42	TM	1,2-Dichloroethane	0.343	0.348	-1.5	90	0.00
43	T	Isopropyl Acetate	0.306	0.302	1.3	84	0.00
44	TM	Trichloroethene	0.384	0.385	-0.3	91	0.00
45	C	1,2-Dichloropropane	0.307	0.304	1.0#	88	0.00
46	T	Dibromomethane	0.192	0.196	-2.1	91	0.00
47	T	Bromodichloromethane	0.480	0.484	-0.8	89	0.00
48	T	Methyl methacrylate	0.141	0.149	-5.7	86	0.00

Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	96	0.00
50	S	Toluene-d8	1.245	1.270	-2.0	86	0.00
51	T	4-Methyl-2-Pentanone	0.160	0.176	-10.0	89	0.00
52	CM	Toluene	0.898	0.925	-3.0#	90	0.00
53	T	t-1,3-Dichloropropene	0.411	0.416	-1.2	86	0.00
54	T	cis-1,3-Dichloropropene	0.489	0.484	1.0	87	0.00
55	T	1,1,2-Trichloroethane	0.256	0.267	-4.3	91	0.00
56	T	Ethyl methacrylate	0.293	0.307	-4.8	84	0.00
57	T	1,3-Dichloropropane	0.411	0.421	-2.4	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.143	0.162	-13.3	88	0.00
59	T	2-Hexanone	0.106	0.118	-11.3	89	0.00
60	T	Dibromochloromethane	0.355	0.371	-4.5	91	0.00
61	T	1,2-Dibromoethane	0.242	0.251	-3.7	90	0.00
62	S	4-Bromofluorobenzene	0.419	0.427	-1.9	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64	T	Tetrachloroethene	0.472	0.481	-1.9	95	0.00
65	PM	Chlorobenzene	1.118	1.078	3.6	89	0.00
66	T	1,1,1,2-Tetrachloroethane	0.394	0.391	0.8	90	0.00
67	C	Ethyl Benzene	1.829	1.811	1.0#	88	0.00
68	T	m/p-Xylenes	0.728	0.745	-2.3	91	0.00
69	T	o-Xylene	0.671	0.676	-0.7	88	0.00
70	T	Styrene	1.126	1.172	-4.1	90	0.00
71	P	Bromoform	0.229	0.238	-3.9	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	3.341	3.204	4.1	89	0.00
74	T	N-amyl acetate	0.574	0.532	7.3	83	0.00
75	P	1,1,2,2-Tetrachloroethane	0.563	0.530	5.9	89	0.00
76	T	1,2,3-Trichloropropane	0.428	0.424	0.9	97	0.00
77	T	Bromobenzene	0.844	0.819	3.0	91	0.00
78	T	n-propylbenzene	3.978	3.849	3.2	89	0.00
79	T	2-Chlorotoluene	2.314	2.194	5.2	89	0.00
80	T	1,3,5-Trimethylbenzene	2.752	2.700	1.9	89	0.00
81	T	trans-1,4-Dichloro-2-butene	0.178	0.168	5.6	88	0.00
82	T	4-Chlorotoluene	2.405	2.304	4.2	89	0.00
83	T	tert-Butylbenzene	2.468	2.372	3.9	88	0.00
84	T	1,2,4-Trimethylbenzene	2.753	2.737	0.6	91	0.00
85	T	sec-Butylbenzene	3.612	3.524	2.4	90	0.00
86	T	p-Isopropyltoluene	3.067	3.035	1.0	91	0.00
87	T	1,3-Dichlorobenzene	1.714	1.634	4.7	92	0.00
88	T	1,4-Dichlorobenzene	1.698	1.606	5.4	92	0.00
89	T	n-Butylbenzene	2.742	2.631	4.0	89	0.00
90	T	Hexachloroethane	0.674	0.628	6.8	91	0.00
91	T	1,2-Dichlorobenzene	1.495	1.427	4.5	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.090	0.085	5.6	94	0.00
93	T	1,2,4-Trichlorobenzene	0.847	0.802	5.3	90	0.00
94	T	Hexachlorobutadiene	0.521	0.491	5.8	95	0.00
95	T	Naphthalene	1.408	1.340	4.8	86	0.00

Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	0.697	4.7	91	0.00

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

Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	42.149	15.7	85	0.00
3	P	Chloromethane	50.000	44.656	10.7	84	0.00
4	C	Vinyl Chloride	50.000	45.411	9.2#	87	0.00
5	T	Bromomethane	50.000	39.803	20.4	80	0.00
6	T	Chloroethane	50.000	44.717	10.6	86	0.00
7	T	Trichlorofluoromethane	50.000	45.309	9.4	87	0.00
8	T	Diethyl Ether	50.000	42.745	14.5	83	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.342	9.3	92	0.00
10	T	Methyl Iodide	50.000	44.860	10.3	82	0.00
11	T	Tert butyl alcohol	250.000	239.412	4.2	87	0.00
12	CM	1,1-Dichloroethene	50.000	44.312	11.4#	87	0.00
13	T	Acrolein	250.000	170.015	32.0#	68	0.00
14	T	Allyl chloride	50.000	43.012	14.0	84	0.00
15	T	Acrylonitrile	250.000	234.690	6.1	88	0.00
16	T	Acetone	250.000	258.562	-3.4	92	0.00
17	T	Carbon Disulfide	50.000	43.277	13.4	86	0.00
18	T	Methyl Acetate	50.000	52.440	-4.9	95	0.00
19	T	Methyl tert-butyl Ether	50.000	46.339	7.3	85	0.00
20	T	Methylene Chloride	50.000	41.790	16.4	85	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.652	8.7	89	0.01
22	T	Diisopropyl ether	50.000	46.406	7.2	86	0.00
23	T	Vinyl Acetate	250.000	233.397	6.6	84	0.00
24	P	1,1-Dichloroethane	50.000	44.117	11.8	86	0.00
25	T	2-Butanone	250.000	237.416	5.0	88	0.00
26	T	2,2-Dichloropropane	50.000	46.061	7.9	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.794	8.4	87	0.00
28	T	Bromochloromethane	50.000	49.056	1.9	92	0.00
29	T	Tetrahydrofuran	250.000	245.385	1.8	86	0.00
30	C	Chloroform	50.000	46.403	7.2#	90	0.00
31	T	Cyclohexane	50.000	43.571	12.9	88	0.00
32	T	1,1,1-Trichloroethane	50.000	45.518	9.0	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.711	6.6	86	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	87	0.00
35	S	Dibromofluoromethane	50.000	50.745	-1.5	88	0.00
36	T	1,1-Dichloropropene	50.000	48.590	2.8	88	0.00
37	T	Ethyl Acetate	50.000	51.230	-2.5	88	0.00
38	T	Carbon Tetrachloride	50.000	49.824	0.4	90	0.00
39	T	Methylcyclohexane	50.000	49.231	1.5	87	0.00
40	TM	Benzene	50.000	49.378	1.2	89	0.00
41	T	Methacrylonitrile	50.000	45.180	9.6	74	0.00
42	TM	1,2-Dichloroethane	50.000	50.652	-1.3	90	0.00
43	T	Isopropyl Acetate	50.000	49.331	1.3	84	0.00
44	TM	Trichloroethene	50.000	50.105	-0.2	91	0.00
45	C	1,2-Dichloropropane	50.000	49.528	0.9#	88	0.00
46	T	Dibromomethane	50.000	51.032	-2.1	91	0.00
47	T	Bromodichloromethane	50.000	50.411	-0.8	89	0.00
48	T	Methyl methacrylate	50.000	52.563	-5.1	86	0.00

Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	1098.297	-9.8	96	0.00
50	S	Toluene-d8	50.000	50.988	-2.0	86	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.117	-9.6	89	0.00
52	CM	Toluene	50.000	51.517	-3.0#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	50.528	-1.1	86	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.447	1.1	87	0.00
55	T	1,1,2-Trichloroethane	50.000	52.135	-4.3	91	0.00
56	T	Ethyl methacrylate	50.000	52.343	-4.7	84	0.00
57	T	1,3-Dichloropropane	50.000	51.135	-2.3	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	282.693	-13.1	88	0.00
59	T	2-Hexanone	250.000	278.311	-11.3	89	0.00
60	T	Dibromochloromethane	50.000	52.183	-4.4	91	0.00
61	T	1,2-Dibromoethane	50.000	51.771	-3.5	90	0.00
62	S	4-Bromofluorobenzene	50.000	50.971	-1.9	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64	T	Tetrachloroethene	50.000	51.010	-2.0	95	0.00
65	PM	Chlorobenzene	50.000	48.212	3.6	89	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.657	0.7	90	0.00
67	C	Ethyl Benzene	50.000	49.517	1.0#	88	0.00
68	T	m/p-Xylenes	100.000	102.352	-2.4	91	0.00
69	T	o-Xylene	50.000	50.386	-0.8	88	0.00
70	T	Styrene	50.000	52.004	-4.0	90	0.00
71	P	Bromoform	50.000	51.974	-3.9	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	47.953	4.1	89	0.00
74	T	N-amyl acetate	50.000	46.314	7.4	83	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.078	5.8	89	0.00
76	T	1,2,3-Trichloropropane	50.000	49.479	1.0	97	0.00
77	T	Bromobenzene	50.000	48.538	2.9	91	0.00
78	T	n-propylbenzene	50.000	48.382	3.2	89	0.00
79	T	2-Chlorotoluene	50.000	47.417	5.2	89	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.051	1.9	89	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.296	5.4	88	0.00
82	T	4-Chlorotoluene	50.000	47.904	4.2	89	0.00
83	T	tert-Butylbenzene	50.000	48.054	3.9	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.714	0.6	91	0.00
85	T	sec-Butylbenzene	50.000	48.777	2.4	90	0.00
86	T	p-Isopropyltoluene	50.000	49.477	1.0	91	0.00
87	T	1,3-Dichlorobenzene	50.000	47.649	4.7	92	0.00
88	T	1,4-Dichlorobenzene	50.000	47.301	5.4	92	0.00
89	T	n-Butylbenzene	50.000	47.980	4.0	89	0.00
90	T	Hexachloroethane	50.000	46.615	6.8	91	0.00
91	T	1,2-Dichlorobenzene	50.000	47.720	4.6	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.643	4.7	94	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.340	5.3	90	0.00
94	T	Hexachlorobutadiene	50.000	47.066	5.9	95	0.00
95	T	Naphthalene	50.000	47.598	4.8	86	0.00

Sample Results: **VY022095.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022095.D
Acq On : 01 May 2025 08:50
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 12:52:18 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	47.678	4.6	91	0.00

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

QC SAMPLE DATA

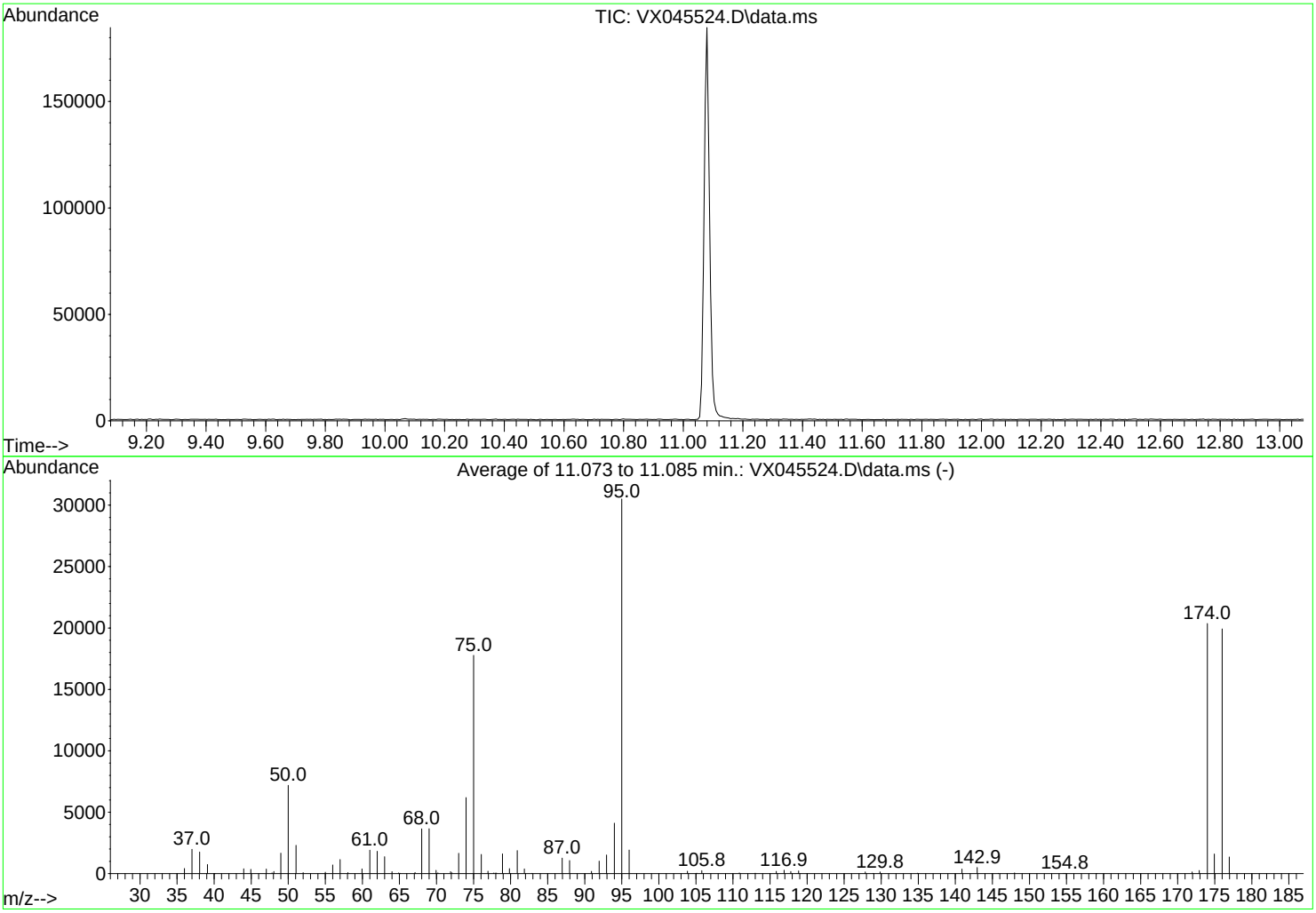
Sample Results: **VX045524.D**

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

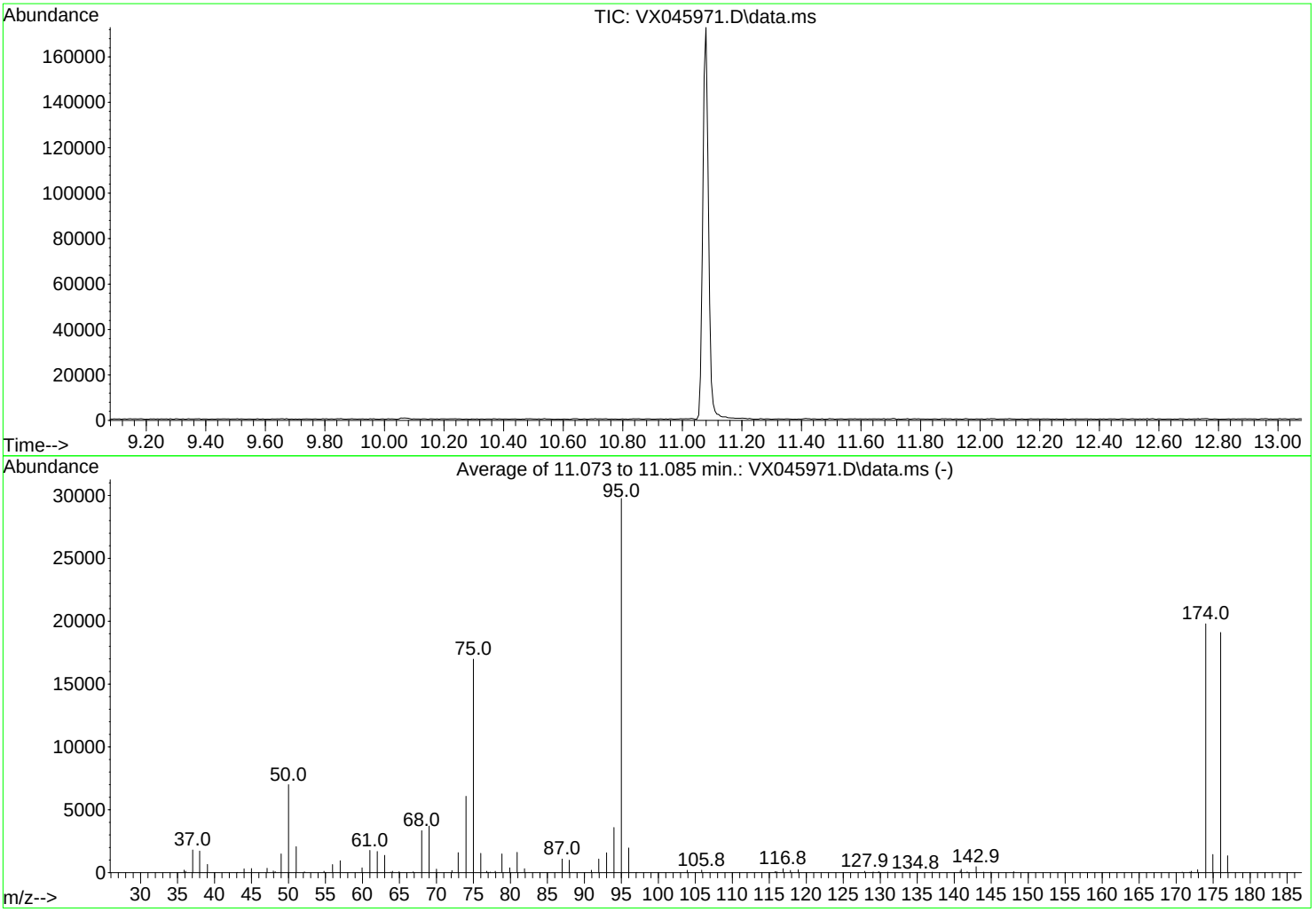
Sample Results: **VX045971.D**

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

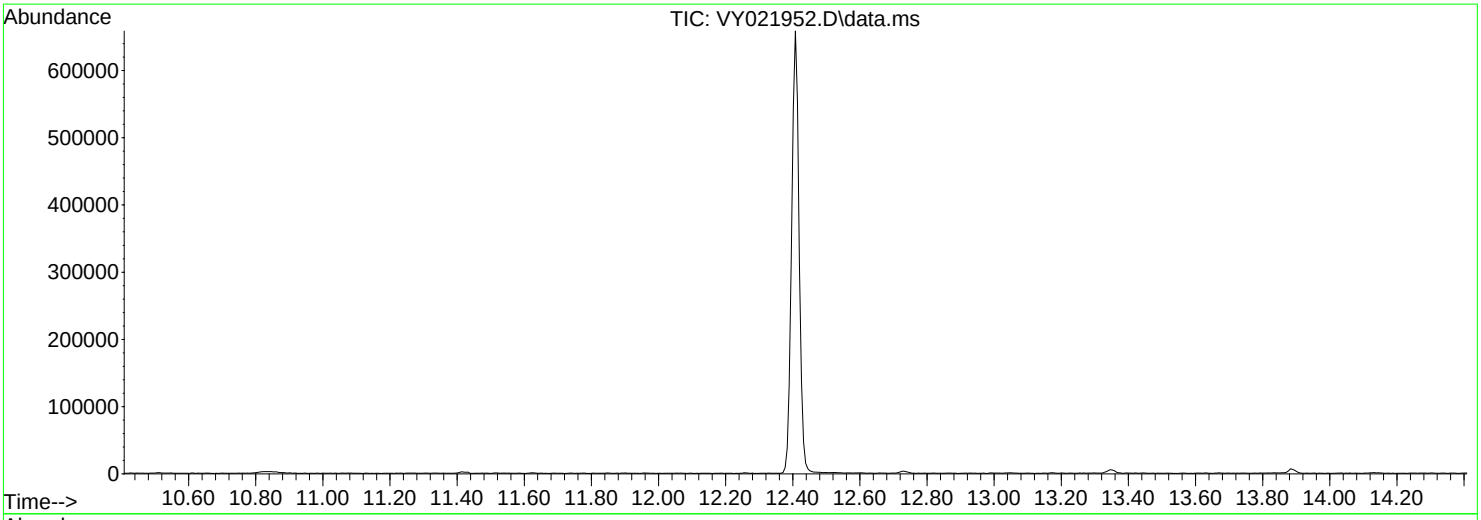
Sample Results: **VY021952.D**

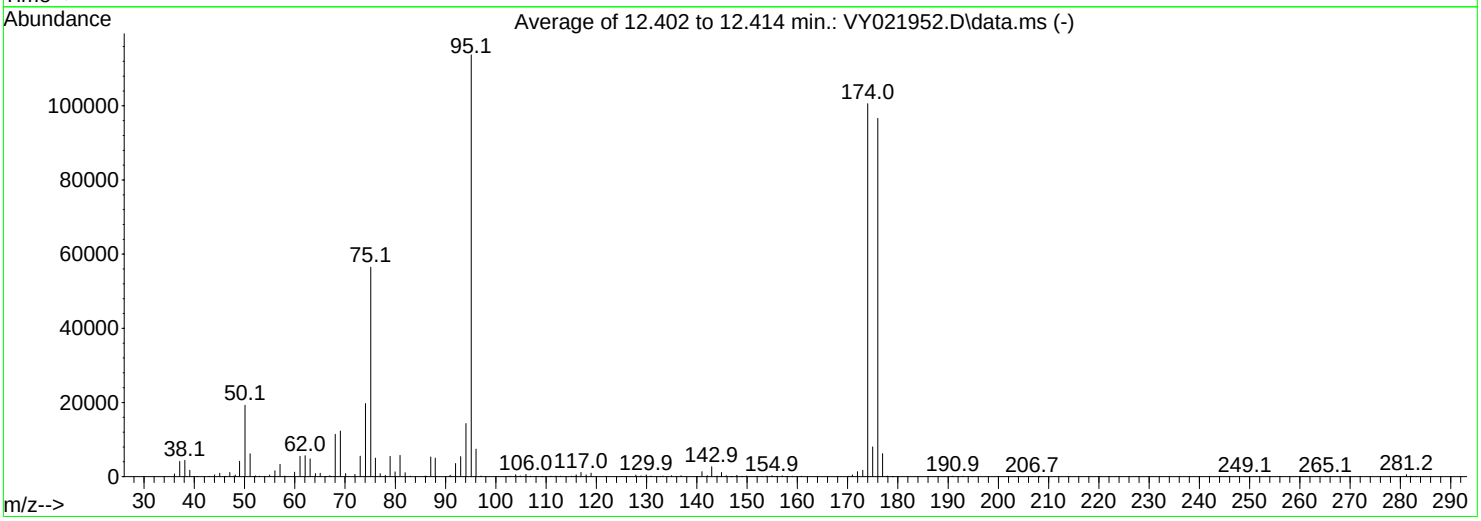
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021952.D
Acq On : 22 Apr 2025 11:33
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

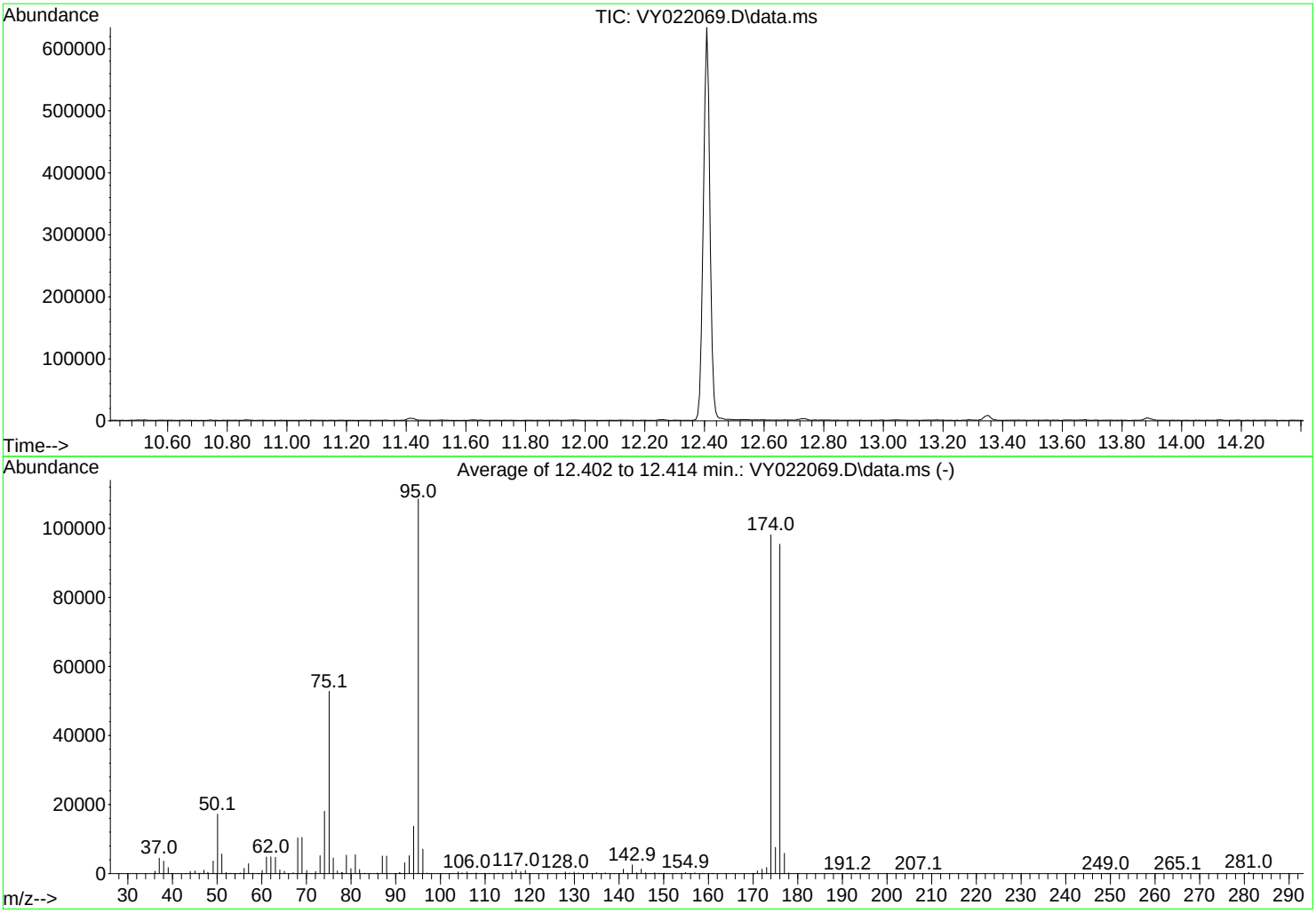
Sample Results: **VY022069.D**

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

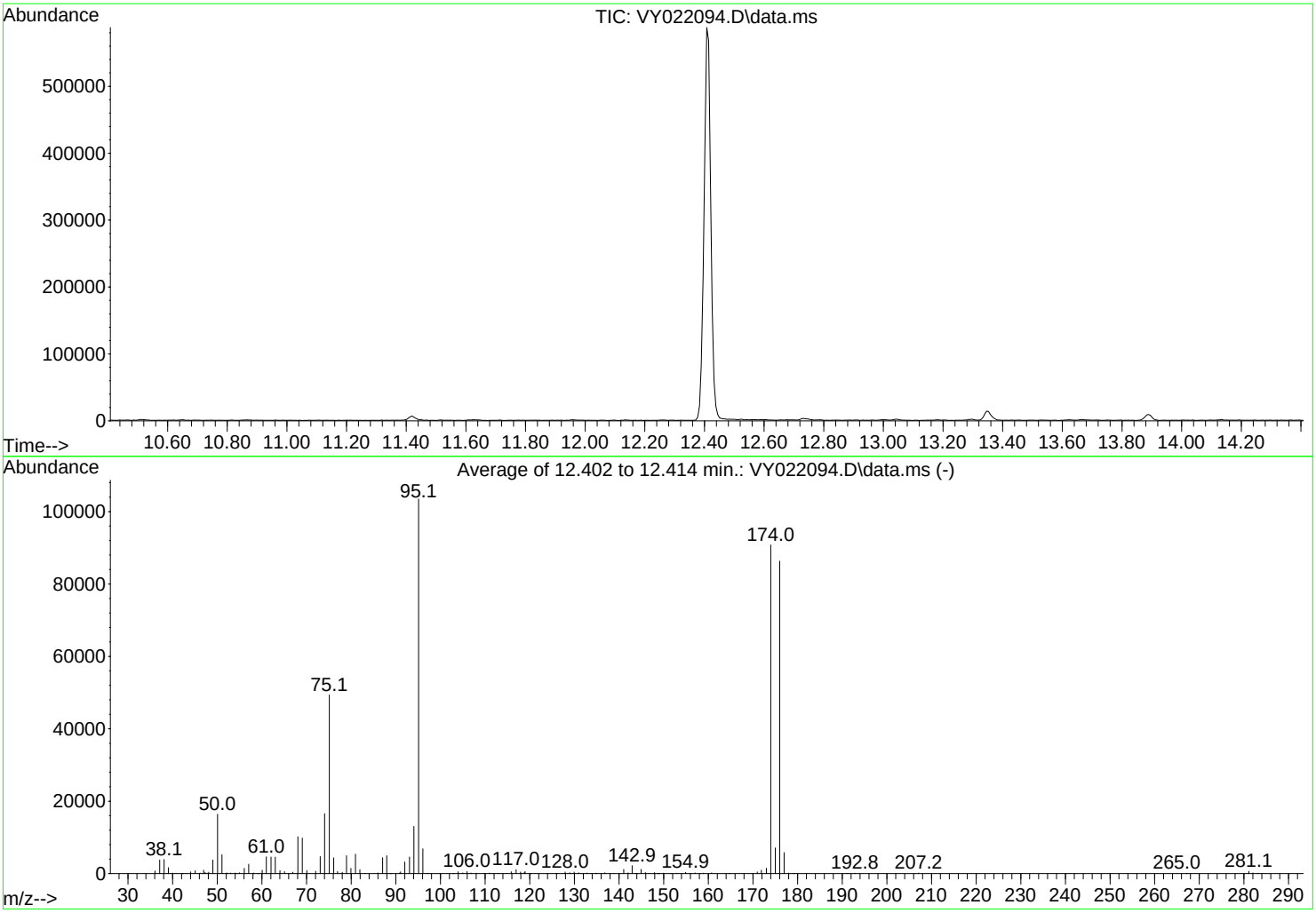
Sample Results: **VY022094.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022094.D
Acq On : 01 May 2025 08:20
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 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	16401	PASS
75	95	30	60	47.7	49328	PASS
95	95	100	100	100.0	103483	PASS
96	95	5	9	6.6	6869	PASS
173	174	0.00	2	1.7	1510	PASS
174	95	50	100	87.7	90792	PASS
175	174	5	9	7.8	7092	PASS
176	174	95	101	95.1	86309	PASS
177	176	5	9	6.8	5827	PASS

Raw Data: **VX045974.D**

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

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

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

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			

Raw Data: **VX045974.D**

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

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

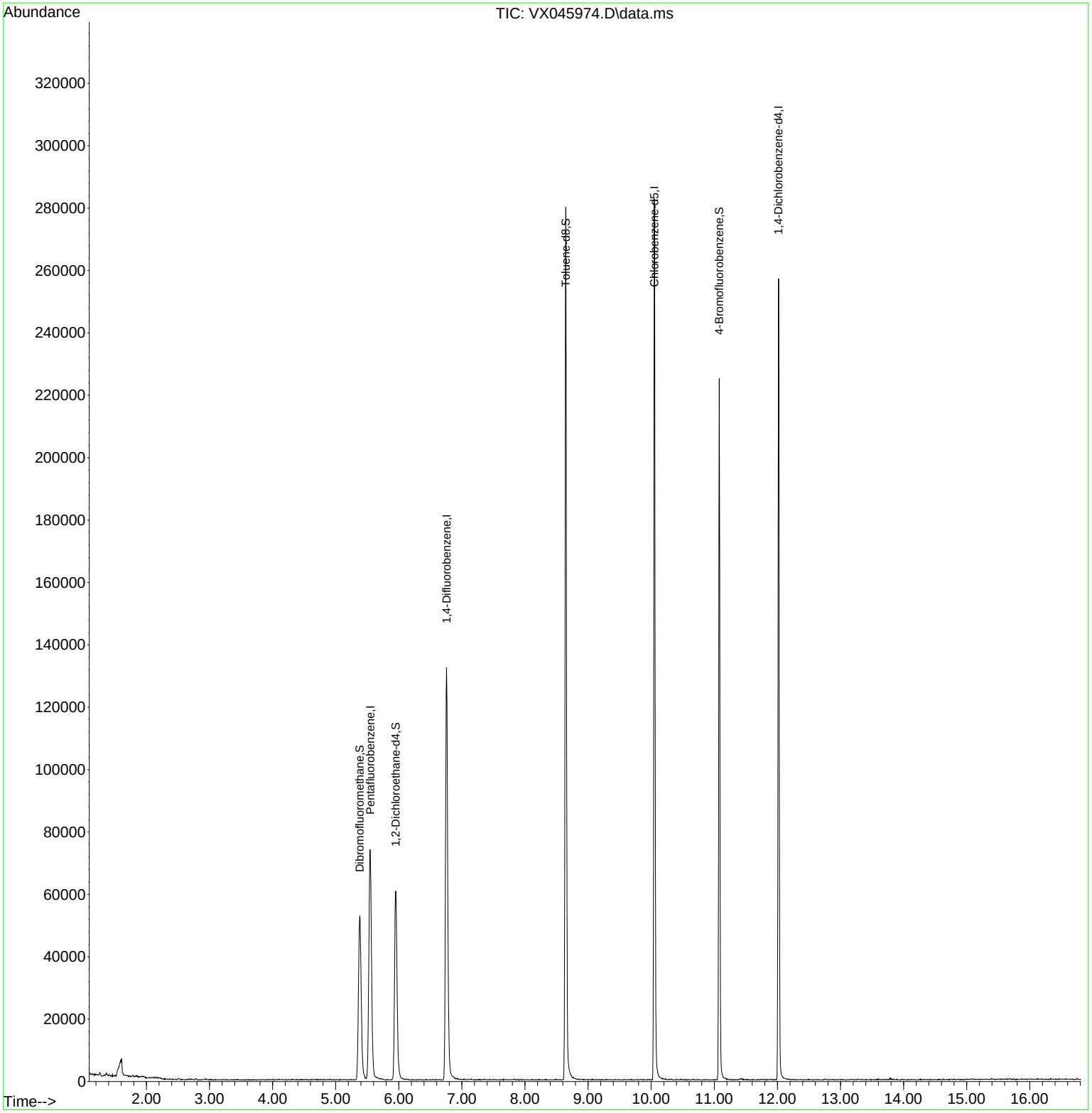
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	63902	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127024	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47876	50.000	ug/l	0.00
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

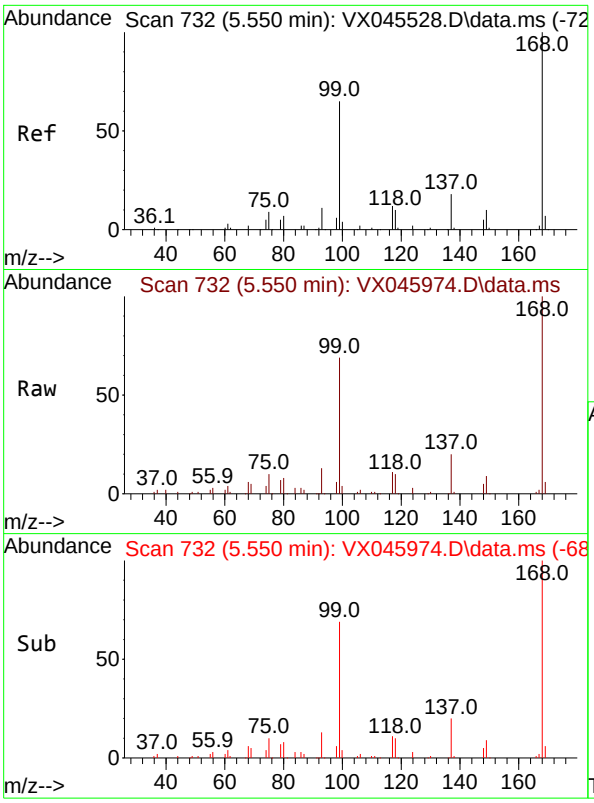
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



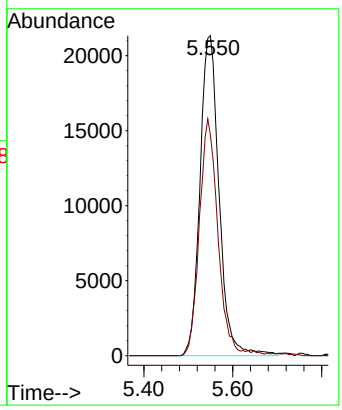


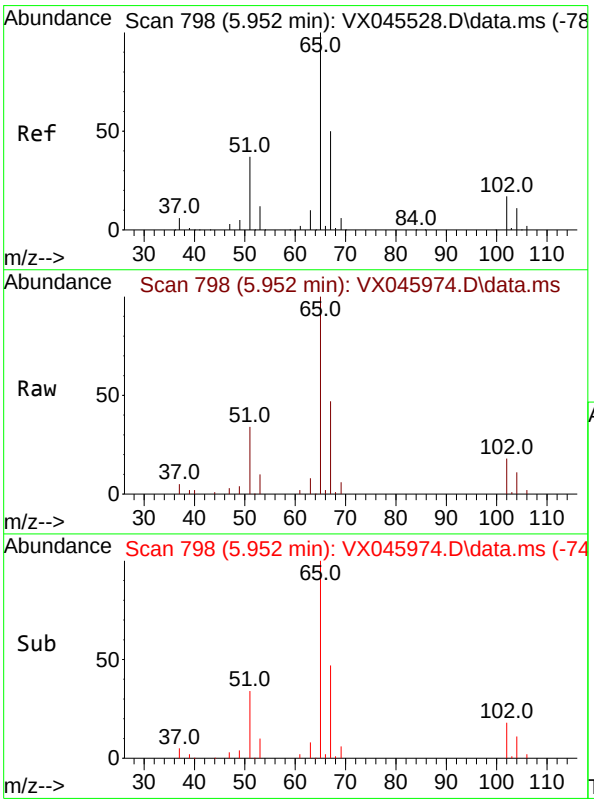
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion:168 Resp: 63902

Ion	Ratio	Lower	Upper
168	100		
99	69.0	52.3	78.5

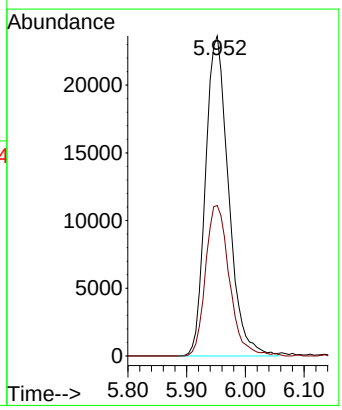


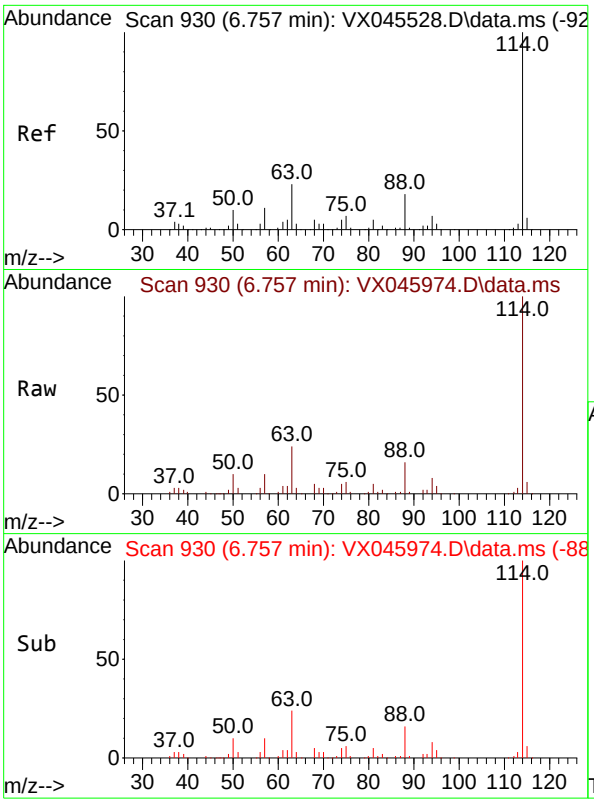


#33
1,2-Dichloroethane-d4
Concen: 55.073 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Tgt Ion: 65 Resp: 64358

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0



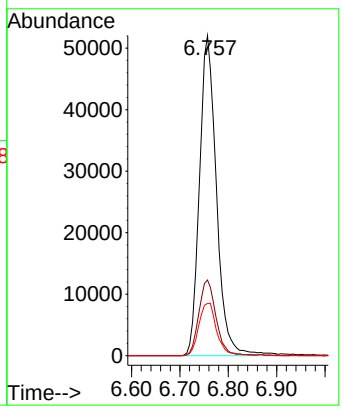


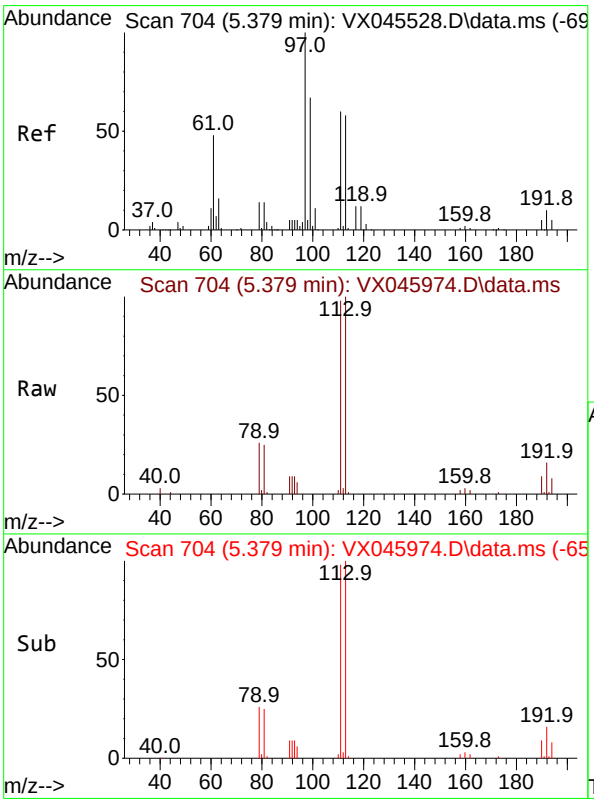
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

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

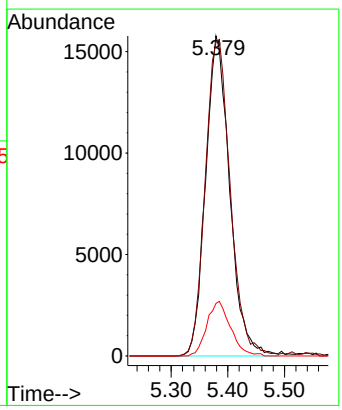


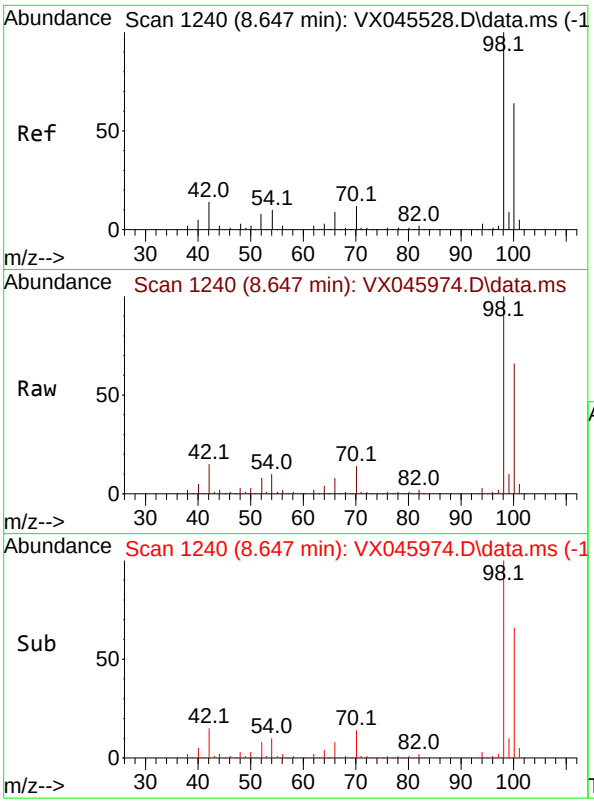


#35
Dibromofluoromethane
Concen: 51.635 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

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



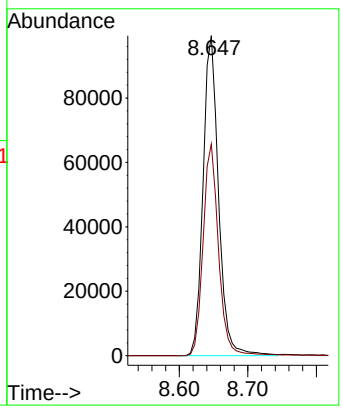


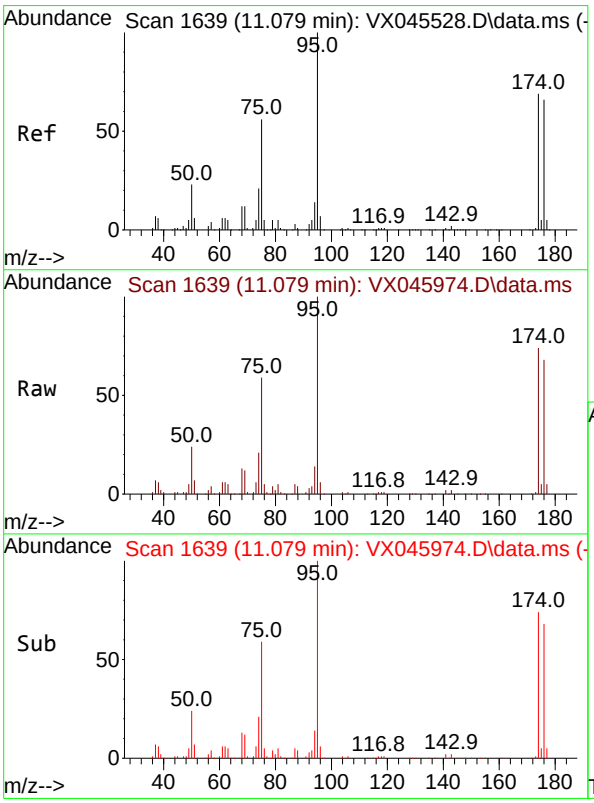
#50
Toluene-d8
Concen: 49.728 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL01

Tgt Ion: 98 Resp: 156429

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.2	78.4

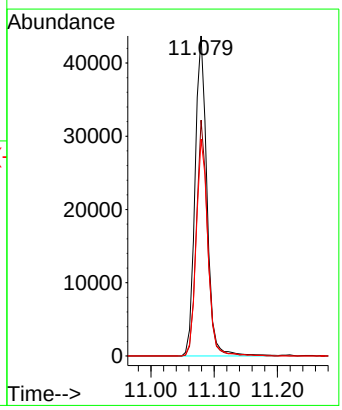


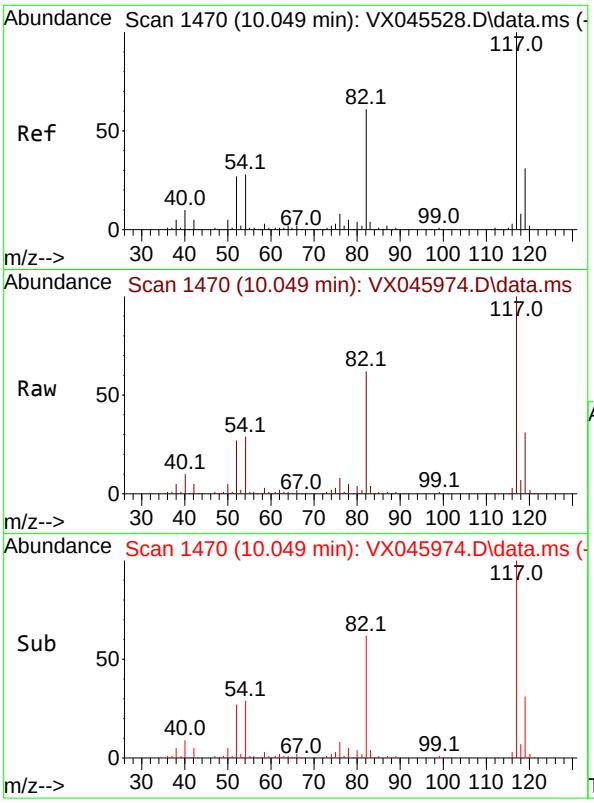


#62
4-Bromofluorobenzene
Concen: 49.934 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

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



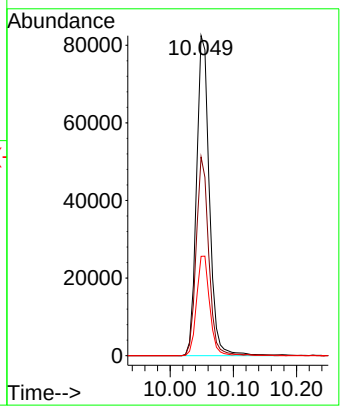


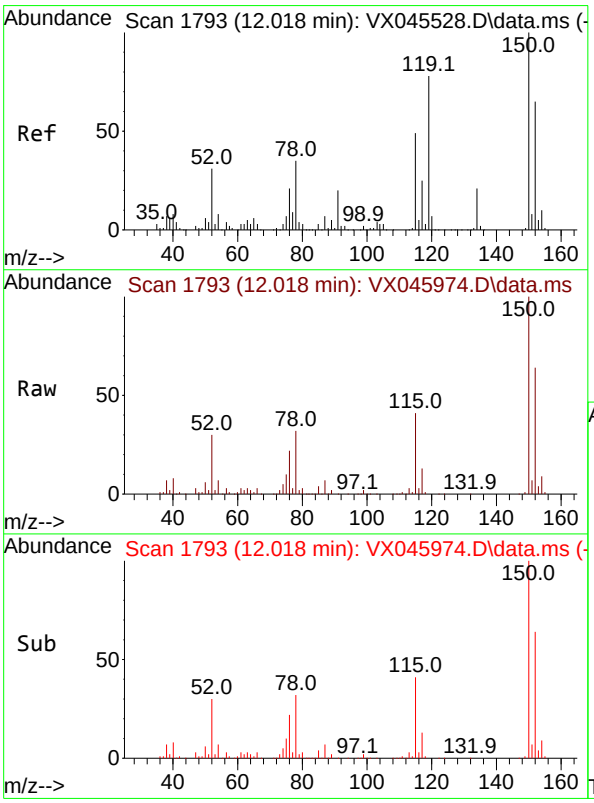
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

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

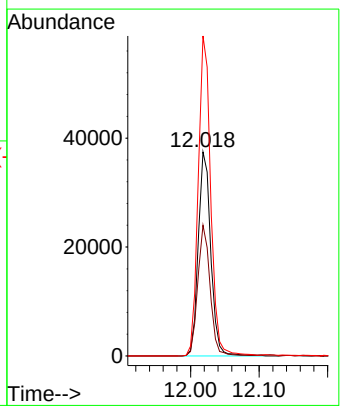




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045974.D
Acq: 29 Apr 2025 11:58

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



Sample Results: **VX045974.D**

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 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: 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

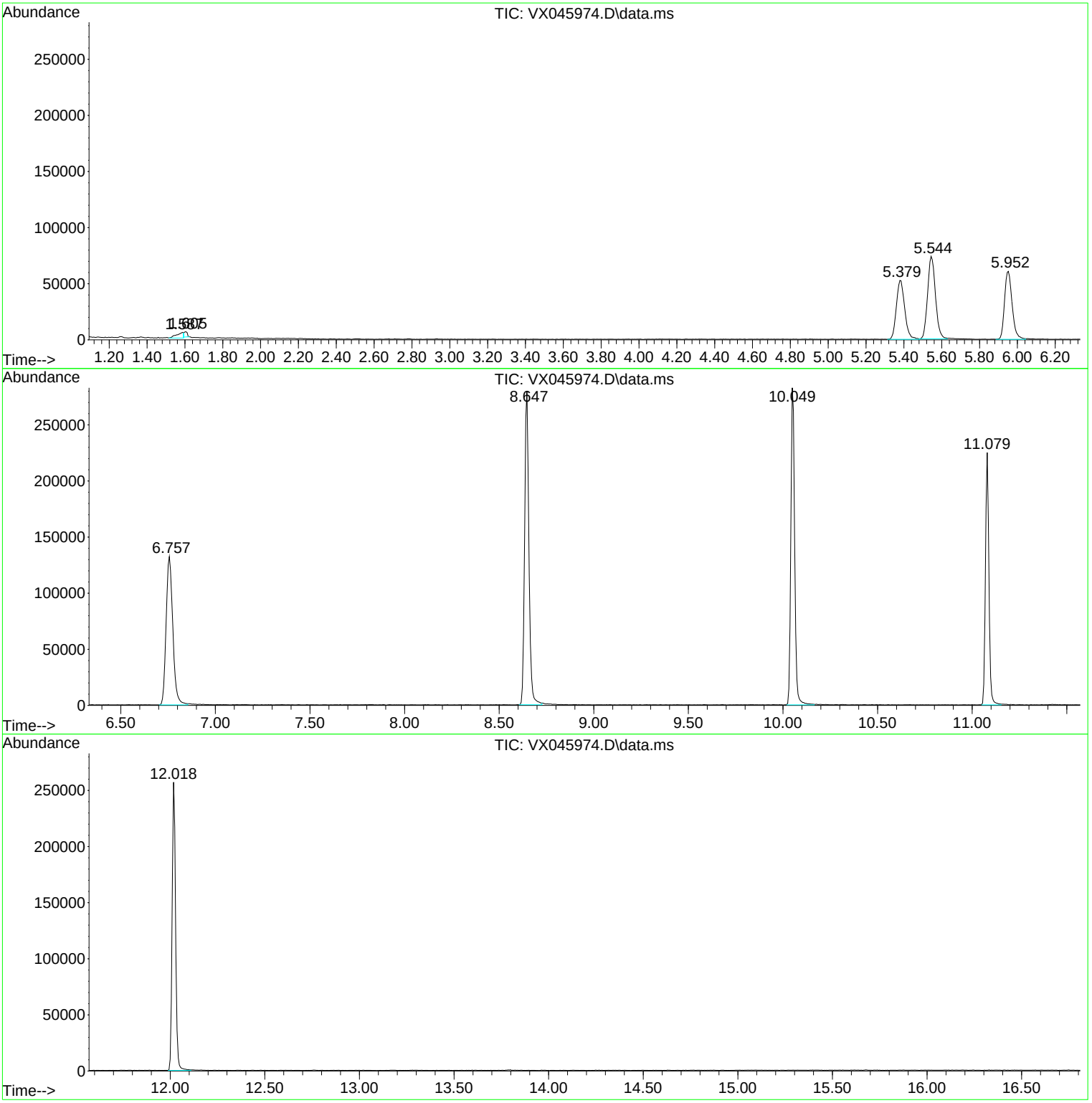
Sample Results: **VX045974.D**

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



Library Search Compound Report

Sample Results: **VX045974.D**

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

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

Raw Data: **VY022071.D**

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

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

Raw Data: **VY022071.D**

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

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)
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			

Raw Data: **VY022071.D**

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

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%			

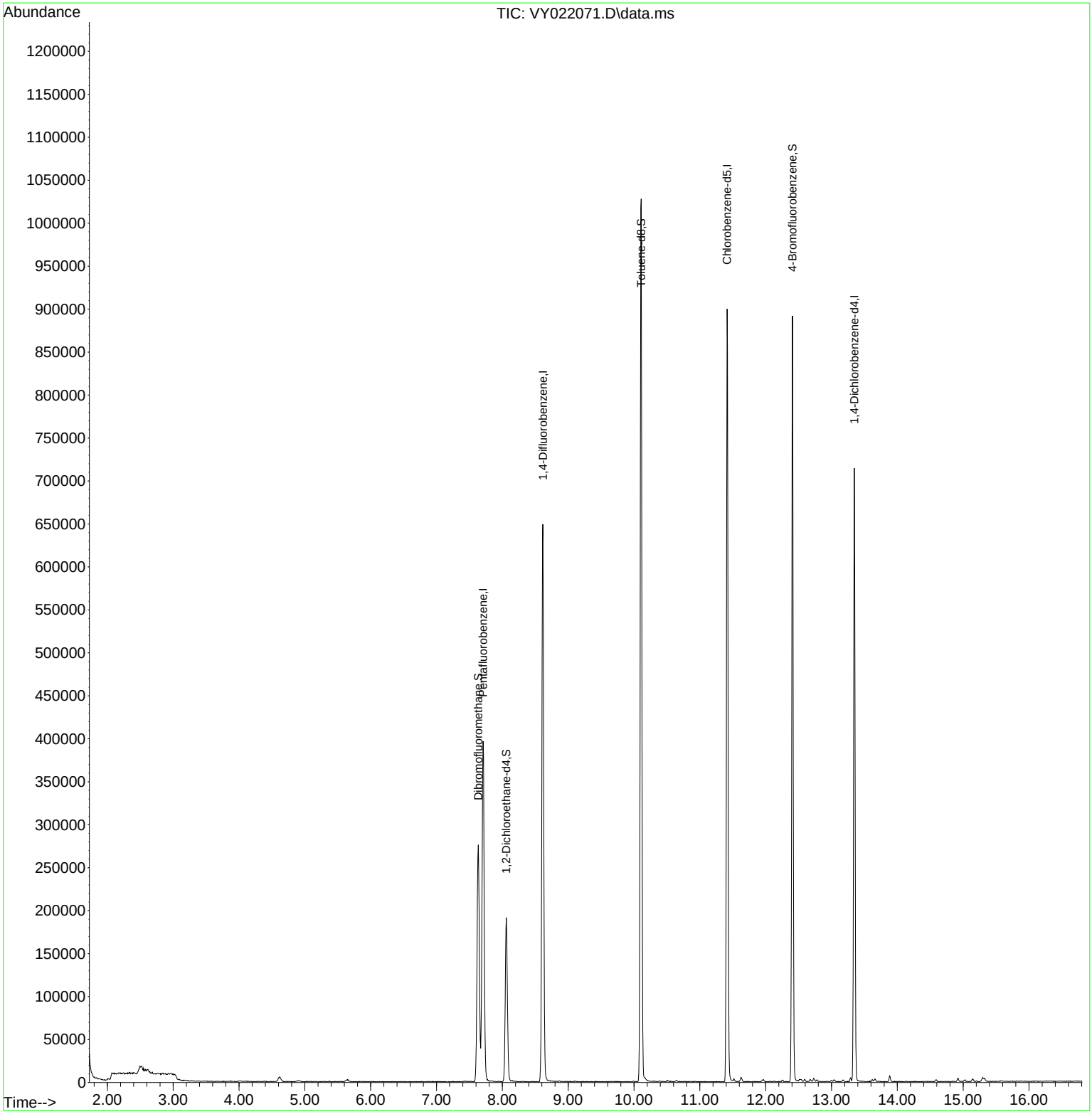
Target Compounds Qvalue

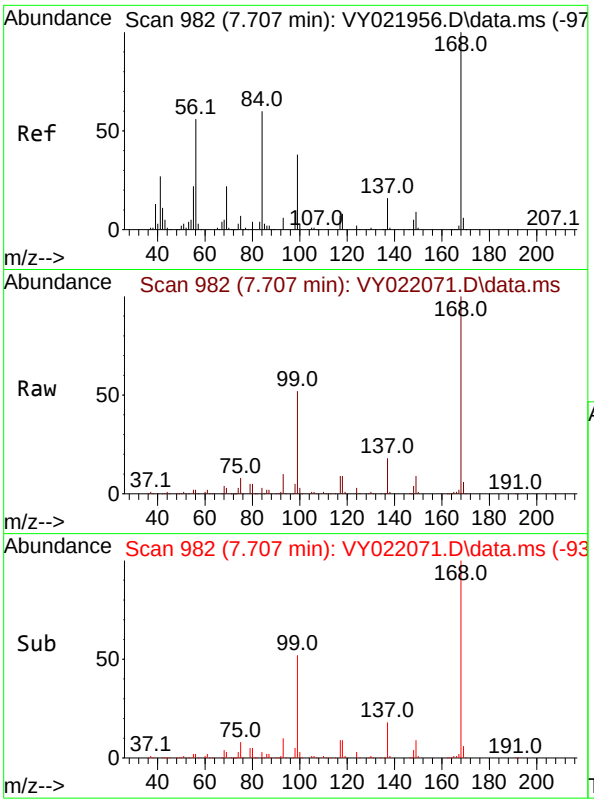
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



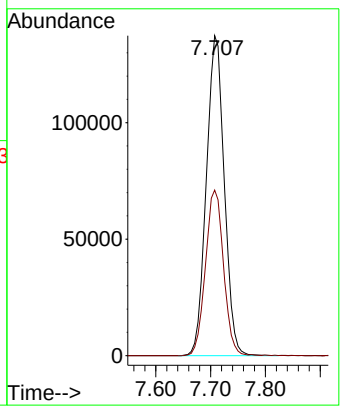


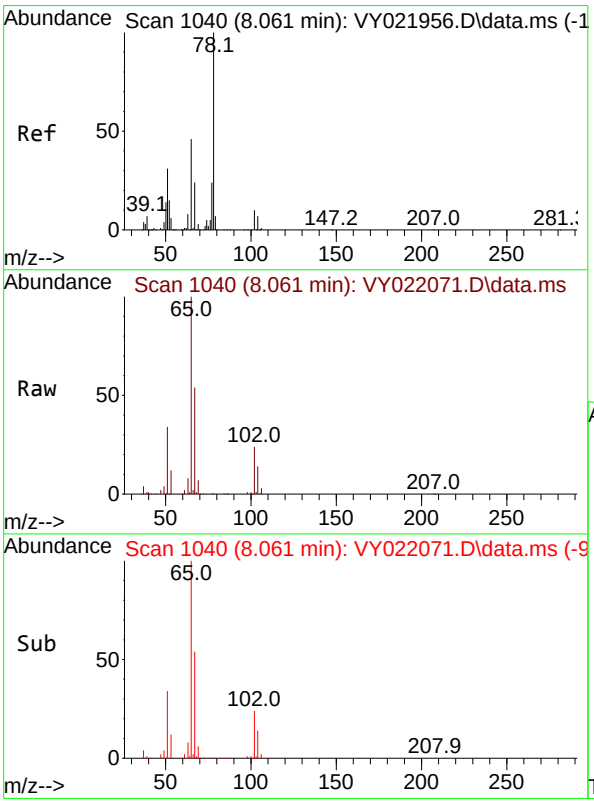
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion:168 Resp: 311598

Ion	Ratio	Lower	Upper
168	100		
99	51.8	43.1	64.7

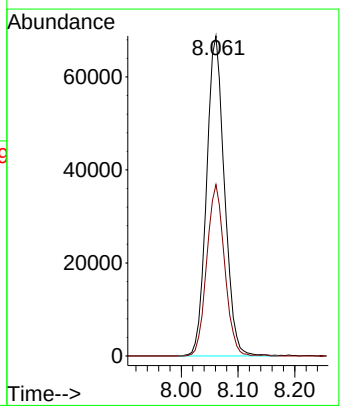


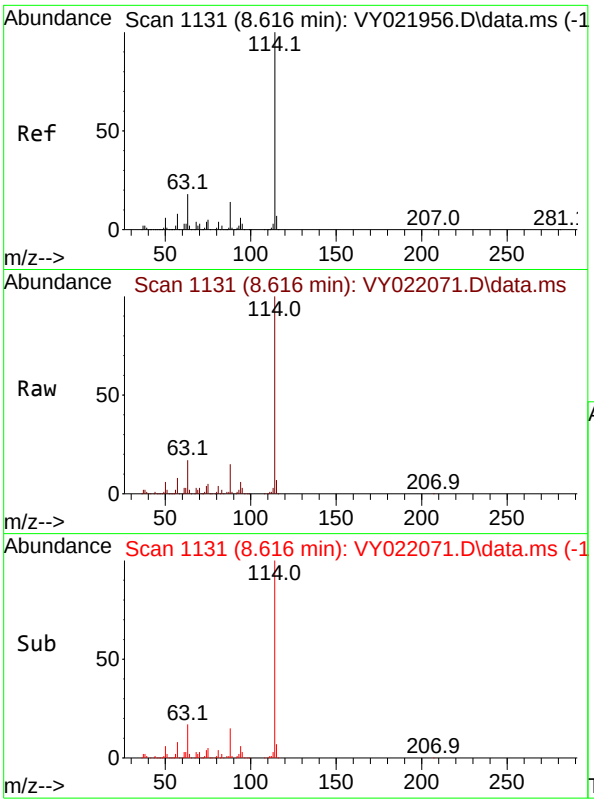


#33
1,2-Dichloroethane-d4
Concen: 52.327 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Tgt Ion: 65 Resp: 150607

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.8



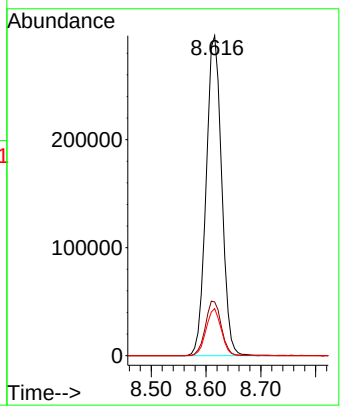


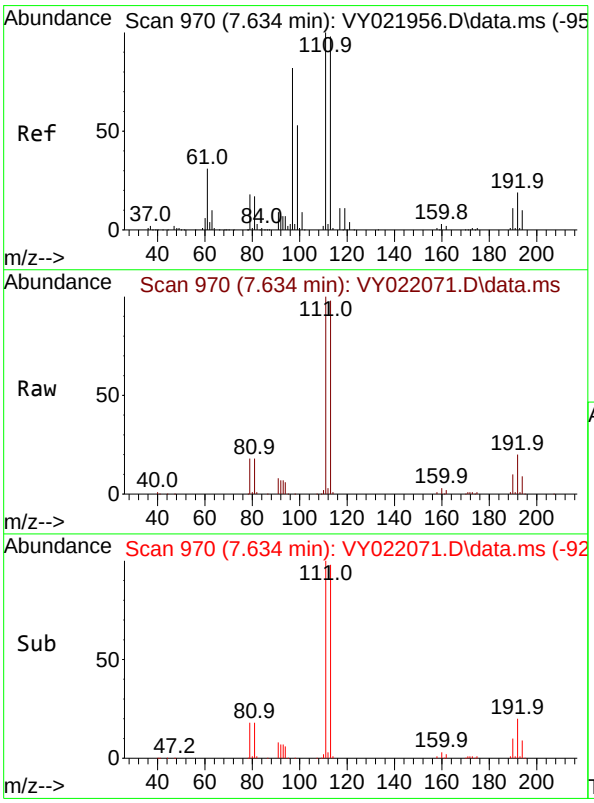
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

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

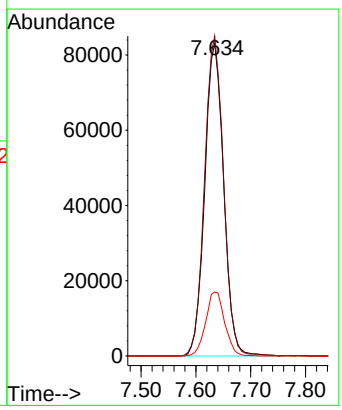


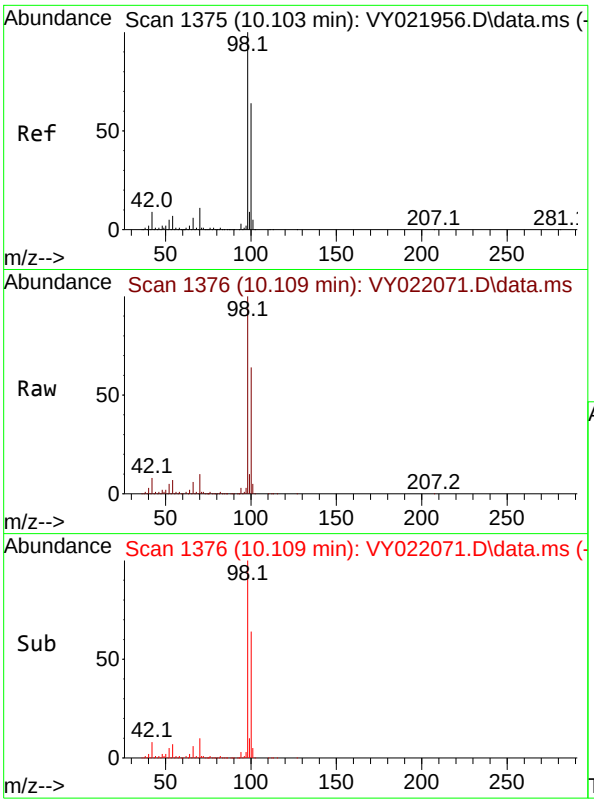


#35
Dibromofluoromethane
Concen: 51.821 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

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



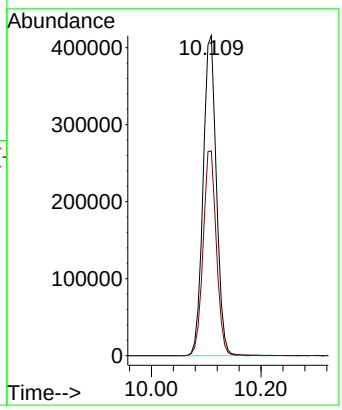


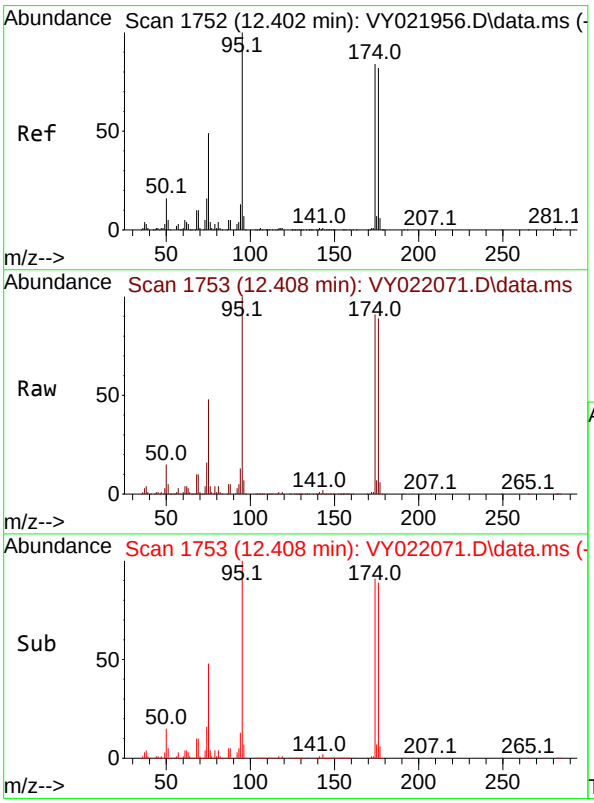
#50
Toluene-d8
Concen: 48.178 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBL01

Tgt Ion: 98 Resp: 697047

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.6	77.4

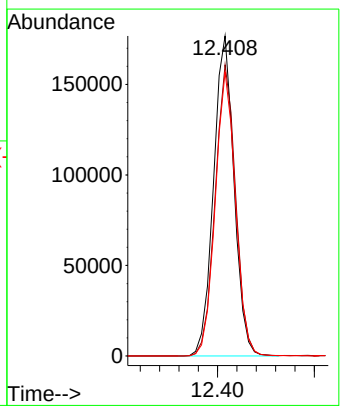


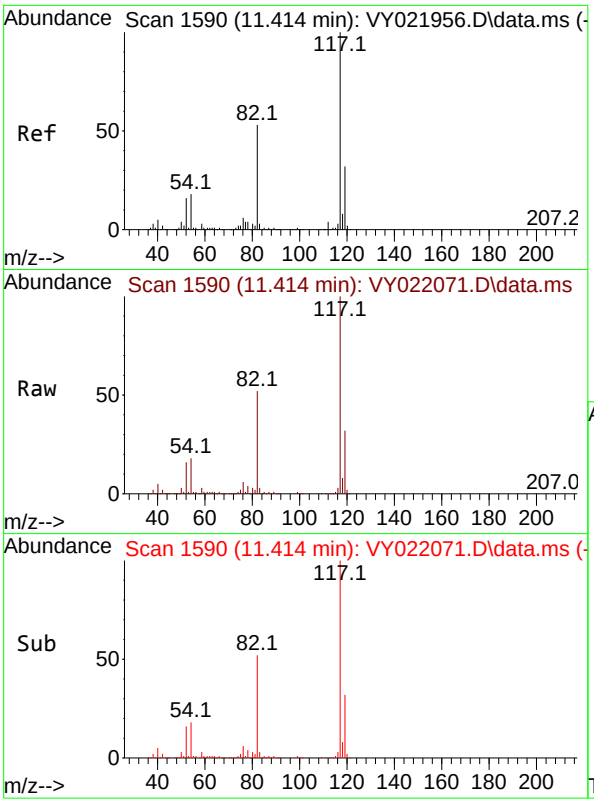


#62
4-Bromofluorobenzene
Concen: 53.317 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

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



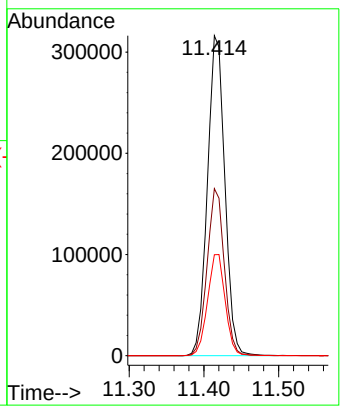


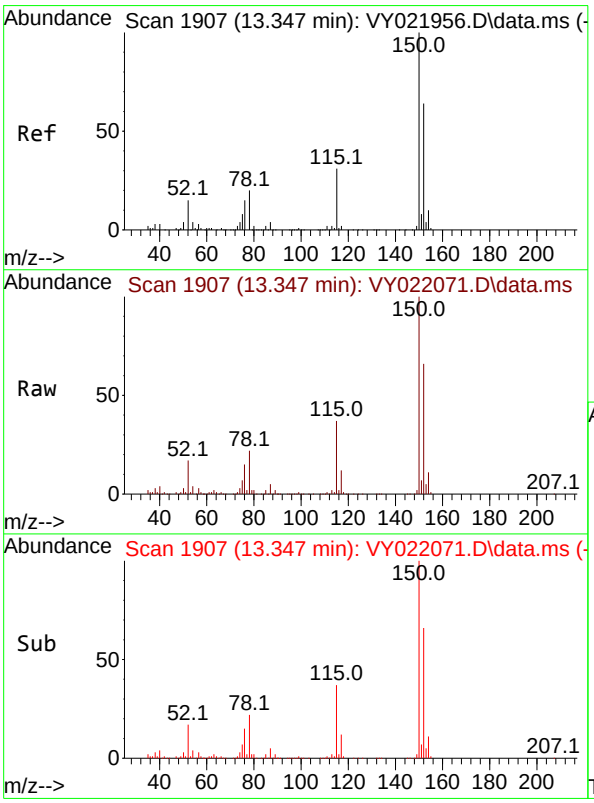
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

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

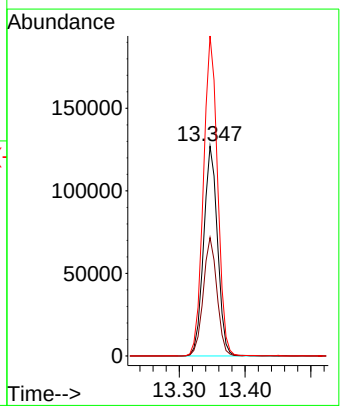




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022071.D
Acq: 30 Apr 2025 09:57

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



Sample Results: **VY022071.D**

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 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: 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

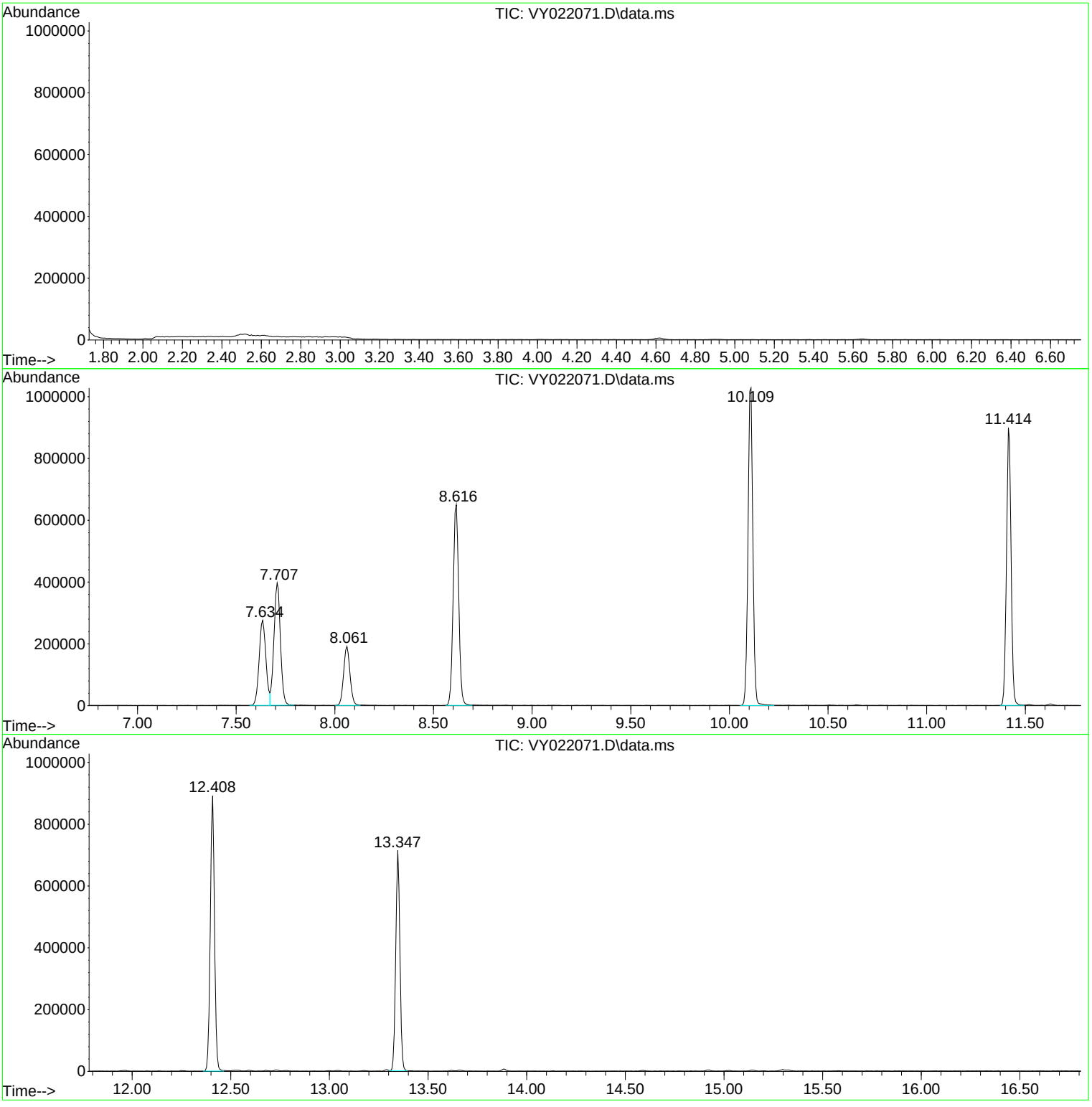
Sample Results: **VY022071.D**

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



Library Search Compound Report

Sample Results: **VY022071.D**

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

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

Raw Data: **VY022096.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	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
VY022096.D	1		05/01/25 10:11	VY050125

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

Raw Data: **VY022096.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	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
VY022096.D	1		05/01/25 10:11	VY050125

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	49.2		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (38) - 130 (136)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	318000	7.707			
540-36-3	1,4-Difluorobenzene	586000	8.615			
3114-55-4	Chlorobenzene-d5	509000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.346			

Raw Data: **VY022096.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBL01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBL01	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
VY022096.D	1		05/01/25 10:11	VY050125

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\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Time: May 01 12:53:23 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	317996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	585580	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	508953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	180066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	144517	49.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.400%			
35) Dibromofluoromethane	7.634	113	195715	50.590	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.180%			
50) Toluene-d8	10.109	98	696910	47.783	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.560%			
62) 4-Bromofluorobenzene	12.407	95	260745	53.107	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.220%			

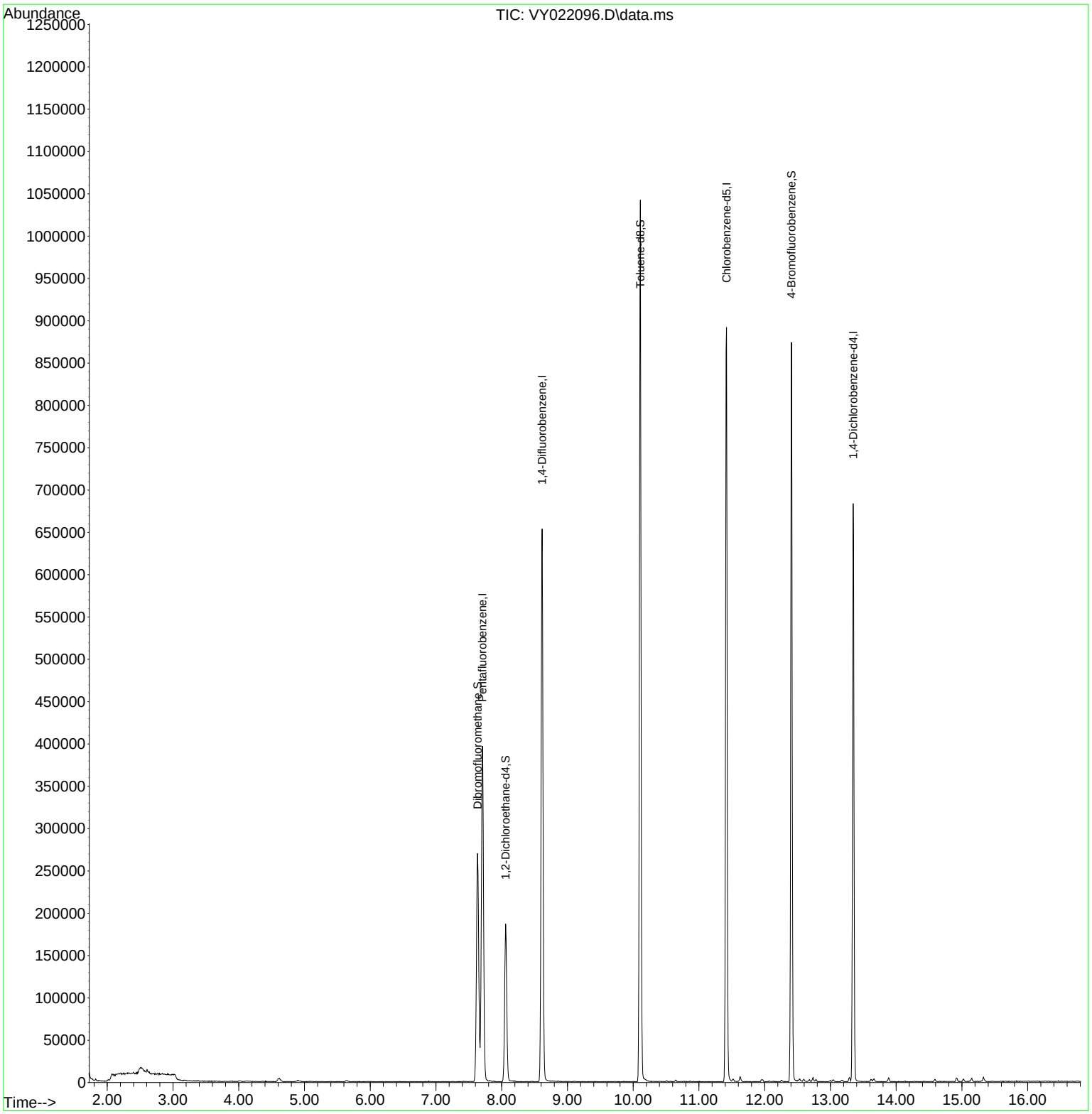
Target Compounds Qvalue

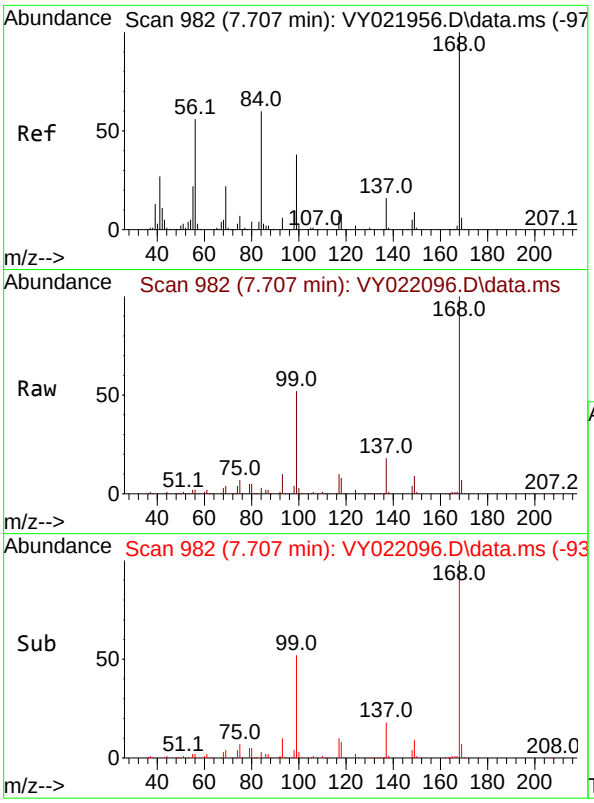
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Quant Time: May 01 12:53:23 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



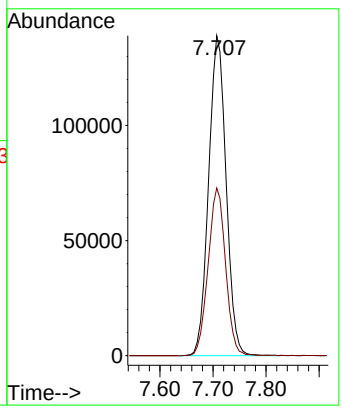


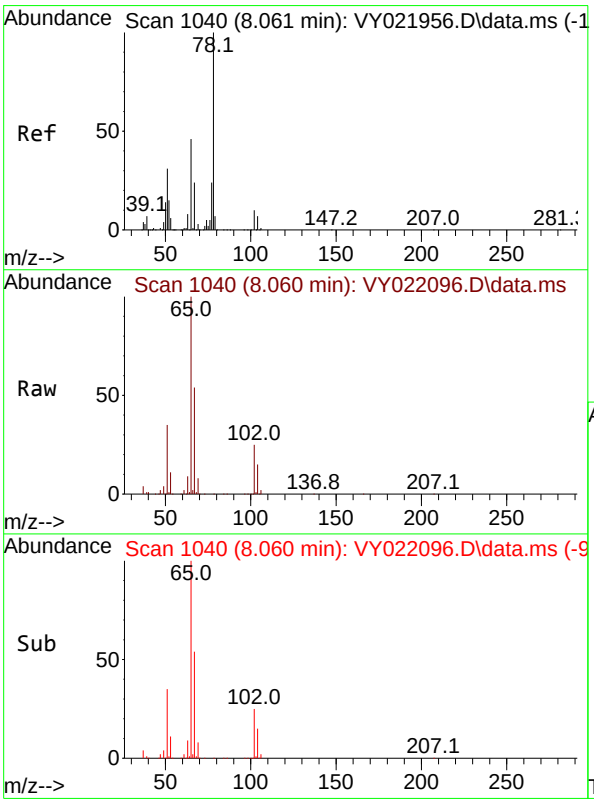
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:168 Resp: 317996

Ion	Ratio	Lower	Upper
168	100		
99	52.4	43.1	64.7

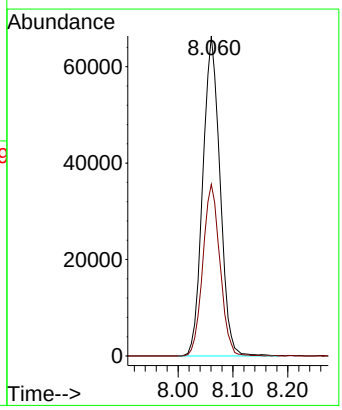


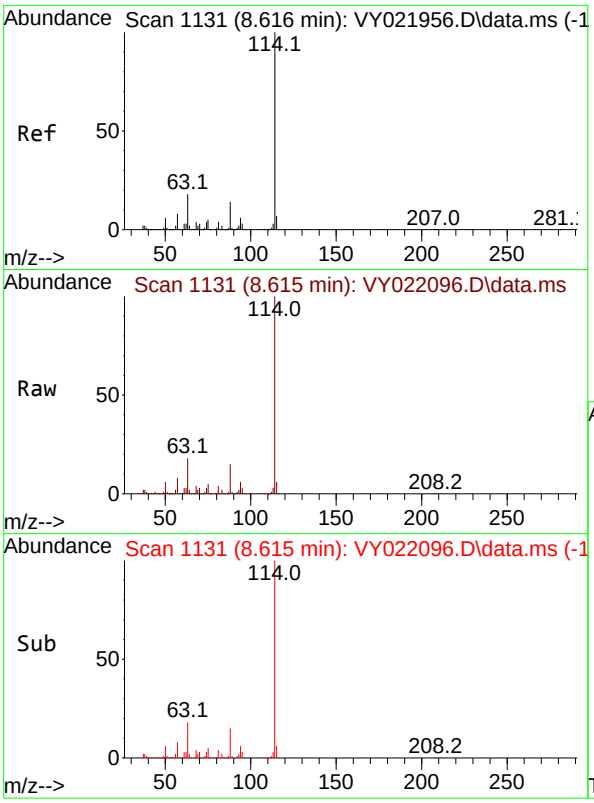


#33
1,2-Dichloroethane-d4
Concen: 49.201 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion: 65 Resp: 144517

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	105.8



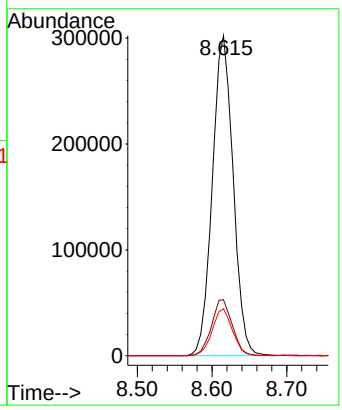


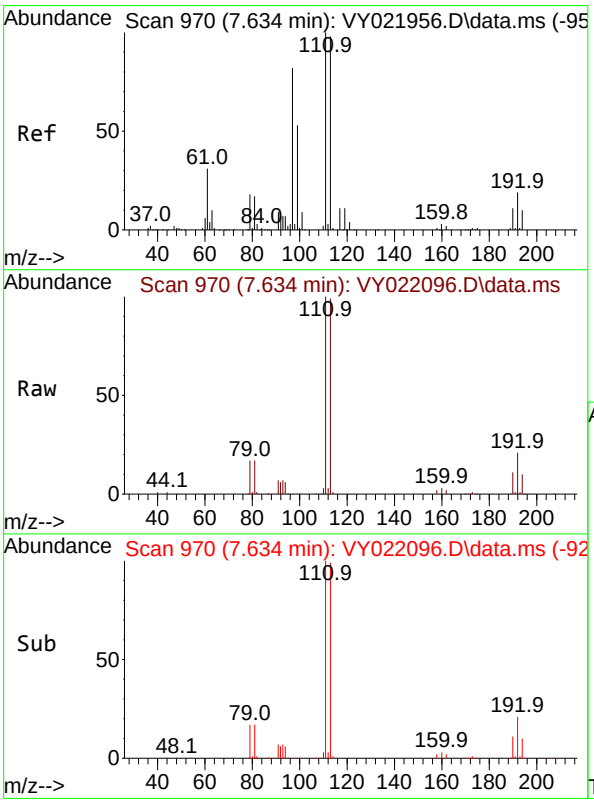
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:114 Resp: 585580

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.4
88	14.7	0.0	28.2

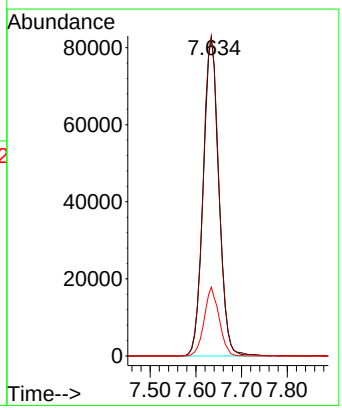


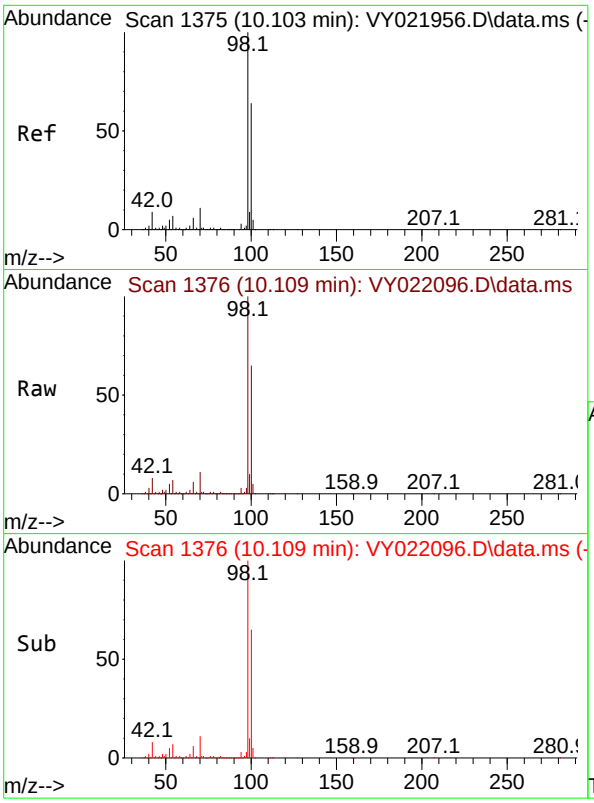


#35
Dibromofluoromethane
Concen: 50.590 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion:113 Resp: 195715

Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.8	122.8
192	20.6	15.6	23.4



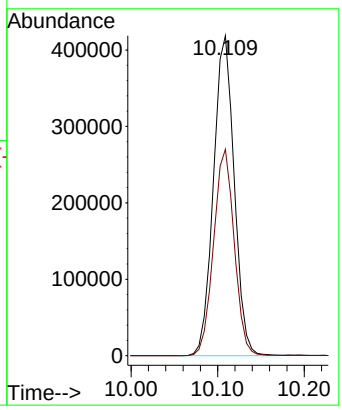


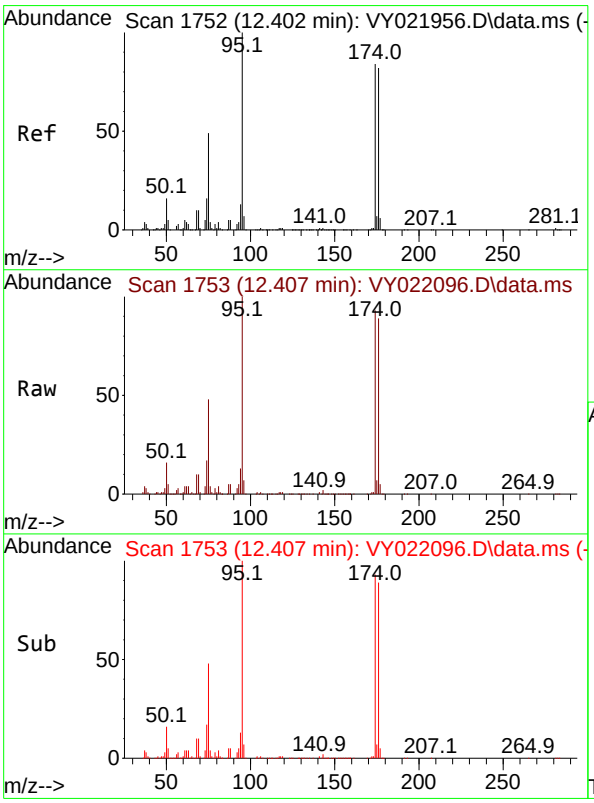
#50
Toluene-d8
Concen: 47.783 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion: 98 Resp: 696910

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.6	77.4

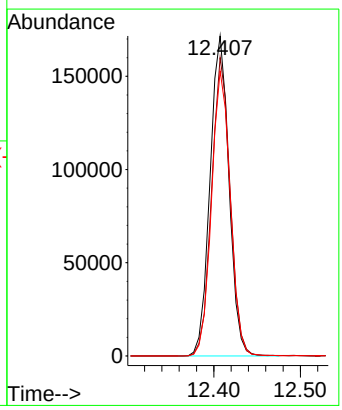


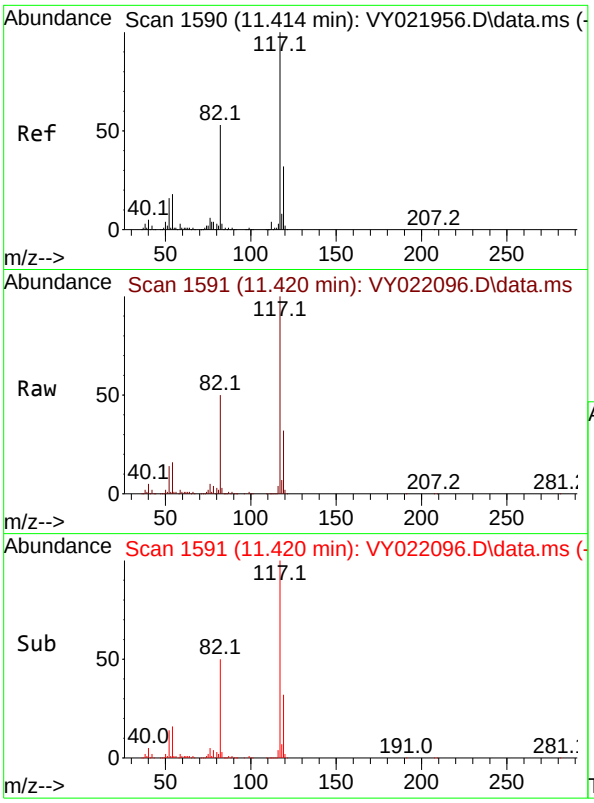


#62
4-Bromofluorobenzene
Concen: 53.107 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion: 95 Resp: 260745

Ion	Ratio	Lower	Upper
95	100		
174	91.9	0.0	179.0
176	88.4	0.0	171.8



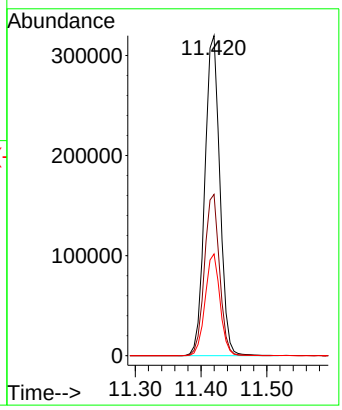


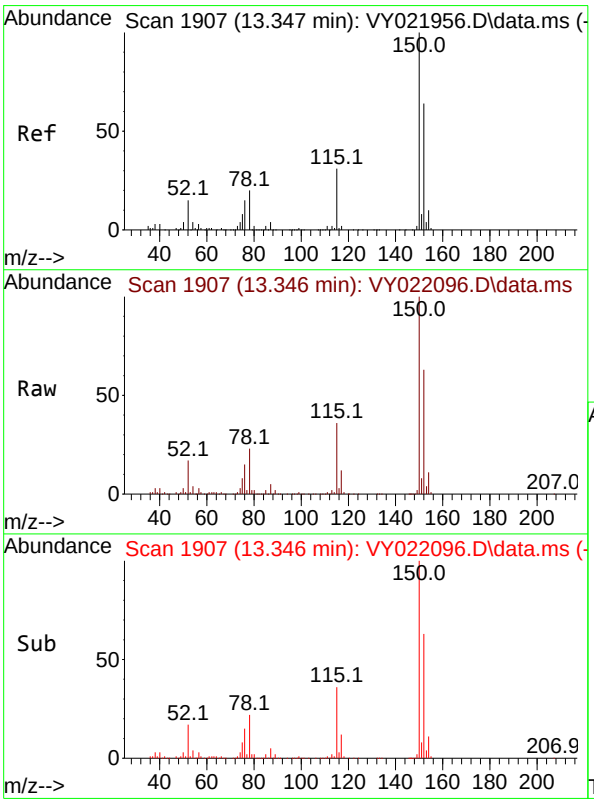
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

Tgt Ion:117 Resp: 508953

Ion	Ratio	Lower	Upper
117	100		
82	50.4	42.1	63.1
119	31.8	25.7	38.5

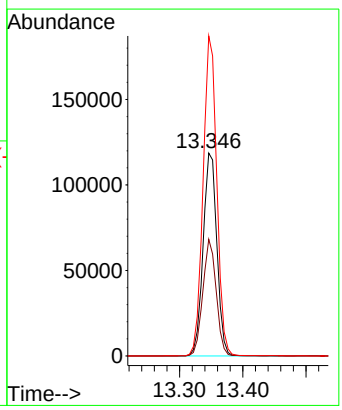




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022096.D
Acq: 01 May 2025 10:11

Tgt Ion:152 Resp: 180066

Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.0	84.0
150	156.0	0.0	345.6



Sample Results: **VY022096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

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: VY022096.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.507	120	129	130	rBV7	7844	17809	1.02%	0.202%
2	7.634	960	970	976	rBV	269609	642245	36.64%	7.286%
3	7.707	976	982	996	rVB	395838	906459	51.71%	10.283%
4	8.060	1031	1040	1053	rBV	186572	414158	23.63%	4.698%
5	8.615	1122	1131	1147	rBV	653108	1282212	73.15%	14.546%
6	10.109	1368	1376	1384	rBV	1041890	1752899	100.00%	19.886%
7	11.420	1582	1591	1603	rBV	891567	1442394	82.29%	16.363%
8	12.407	1746	1753	1768	rBV	873676	1332394	76.01%	15.116%
9	13.346	1901	1907	1922	rVB	682693	1024172	58.43%	11.619%

Sum of corrected areas: 8814742

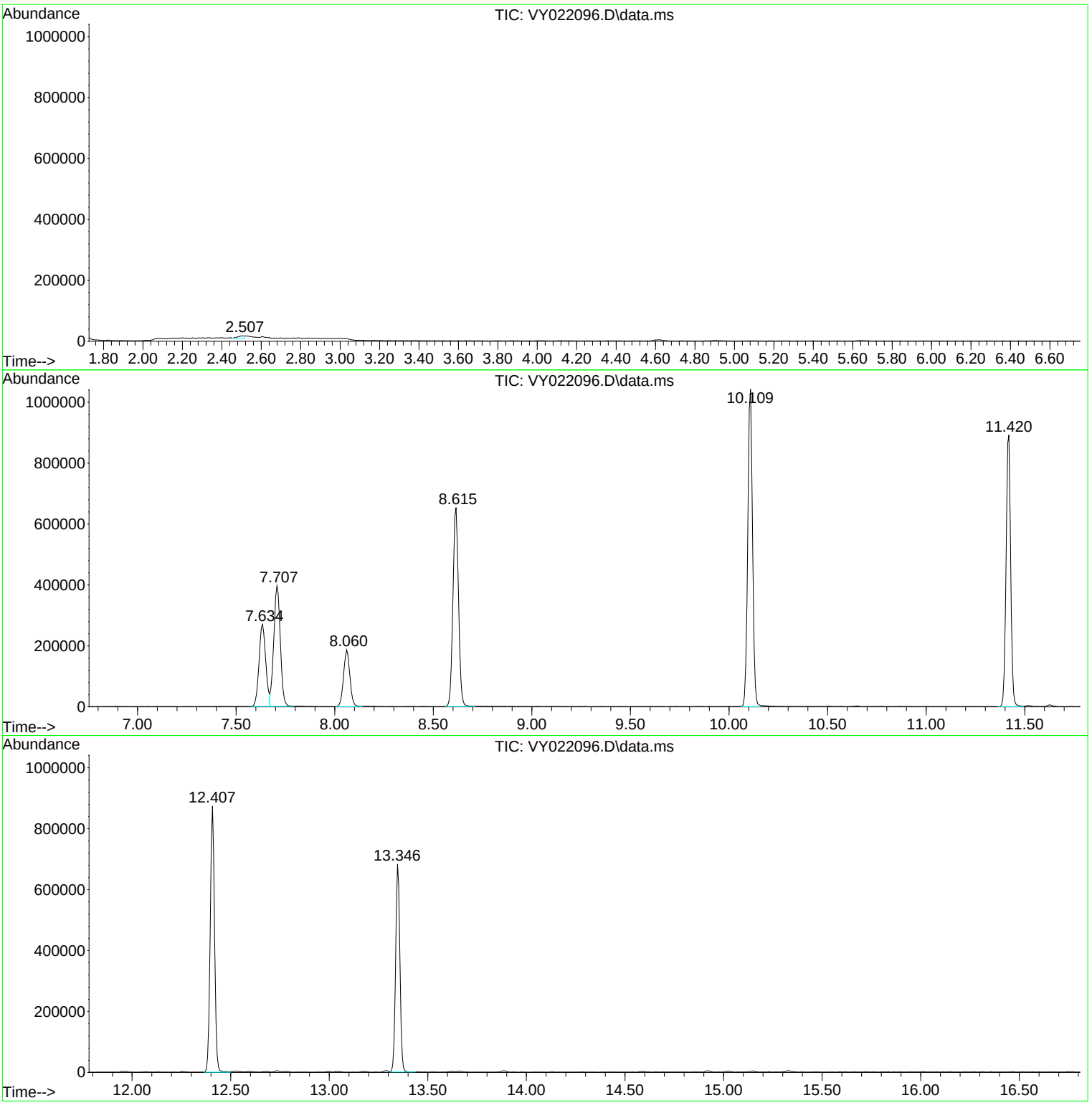
Sample Results: **VY022096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

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



Library Search Compound Report

Sample Results: **VY022096.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

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\VY050125\
Data File : VY022096.D
Acq On : 01 May 2025 10:11
Operator : SY/MD
Sample : VY0501SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBL01

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

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

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

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

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

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			

Raw Data: **VX045975.D**

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

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

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

Sample Results: **VX045975.D**

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

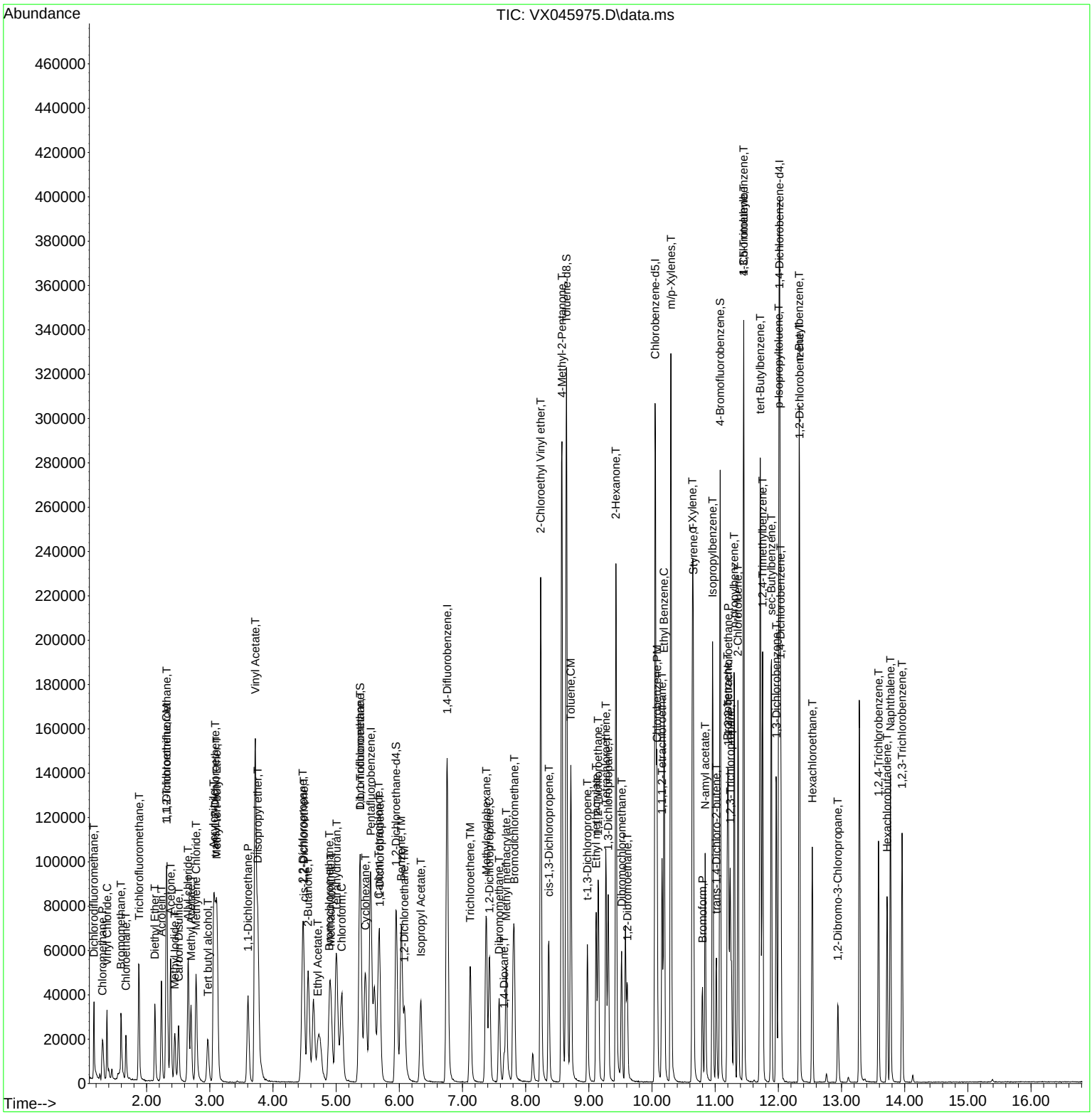
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045975.D
Acq On : 29 Apr 2025 12:21
Operator : JC/MD
Sample : VX0429WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBS01

Manual Integrations APPROVED

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



Raw Data: **VY022072.D**

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

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

Raw Data: **VY022072.D**

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

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)
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			

Raw Data: **VY022072.D**

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

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

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

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

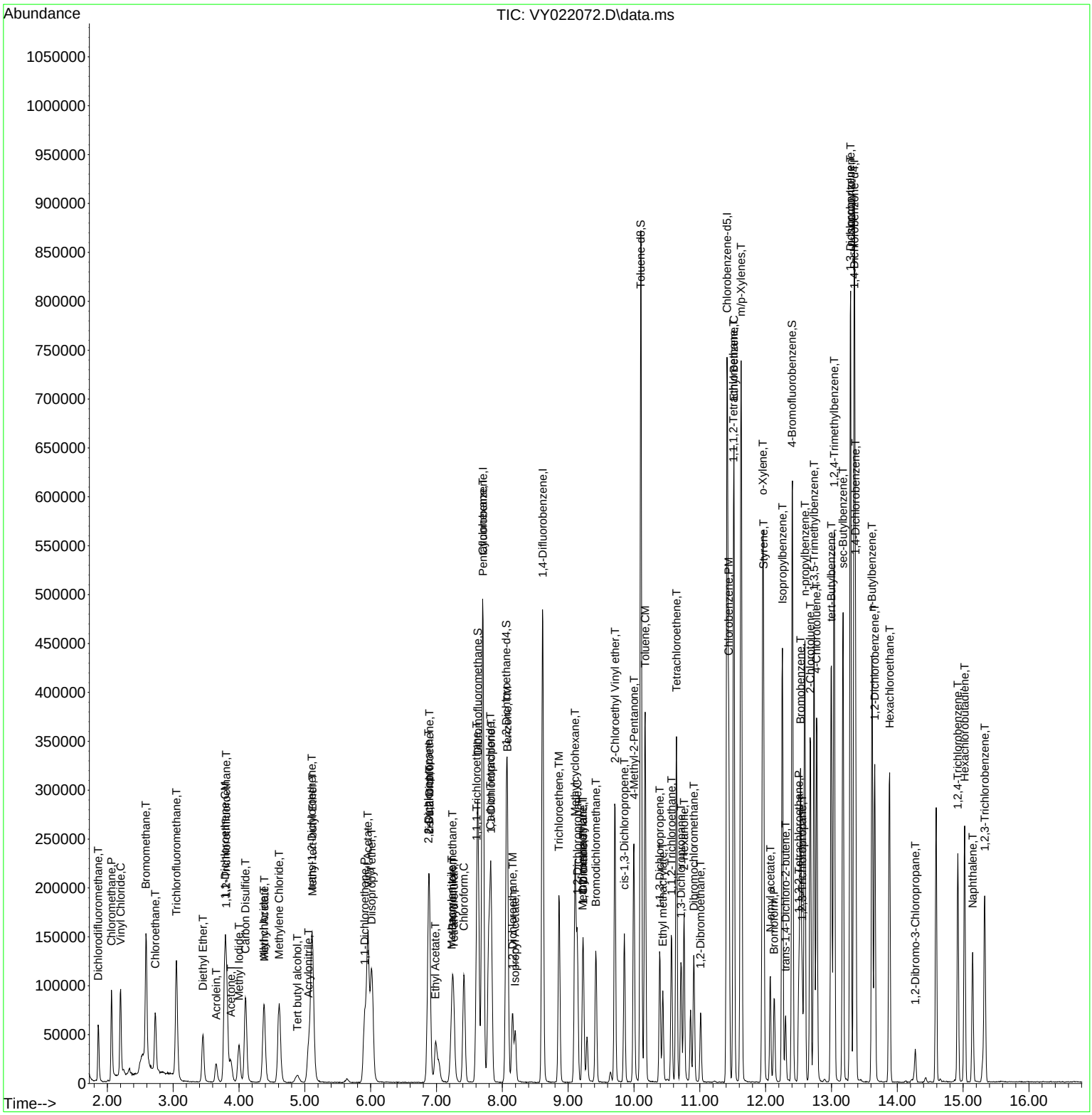
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022072.D
Acq On : 30 Apr 2025 10:30
Operator : SY/MD
Sample : VY0430SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBS01

Manual Integrations APPROVED

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



Raw Data: **VY022097.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	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
VY022097.D	1		05/01/25 10:42	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		1.00	5.00	ug/Kg
67-64-1	Acetone	91.2		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	86.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	18.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.2		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	19.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		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	88.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

Raw Data: **VY022097.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	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
VY022097.D	1		05/01/25 10:42	VY050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.9		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	84.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.5		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.6		0.82	5.00	ug/Kg
100-42-5	Styrene	20.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.4		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	19.6		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		70 (63) - 130 (155)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (70) - 130 (134)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (74) - 130 (123)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (38) - 130 (136)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	294000	7.707			
540-36-3	1,4-Difluorobenzene	453000	8.616			
3114-55-4	Chlorobenzene-d5	414000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	225000	13.346			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0501SBS01	SDG No.:	Q1901
Lab Sample ID:	VY0501SBS01	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
VY022097.D	1		05/01/25 10:42	VY050125

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\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	294485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	452802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414235	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	225406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129149	47.479	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.960%			
35) Dibromofluoromethane	7.634	113	148223	49.549	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.100%			
50) Toluene-d8	10.109	98	564747	50.076	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.160%			
62) 4-Bromofluorobenzene	12.408	95	187006	49.257	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	48273	19.238	ug/l	99
3) Chloromethane	2.068	50	66754	18.683	ug/l	99
4) Vinyl Chloride	2.202	62	82174	18.716	ug/l	94
5) Bromomethane	2.592	94	70373	18.604	ug/l	97
6) Chloroethane	2.732	64	56478	18.887	ug/l	99
7) Trichlorofluoromethane	3.056	101	115218	19.900	ug/l	98
8) Diethyl Ether	3.452	74	28039	18.606	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	62306	19.838	ug/l	97
10) Methyl Iodide	4.001	142	67604	18.591	ug/l	100
11) Tert butyl alcohol	4.866	59	12138	81.282	ug/l	98
12) 1,1-Dichloroethene	3.787	96	58265	19.903	ug/l	98
13) Acrolein	3.653	56	17856	66.621	ug/l	97
14) Allyl chloride	4.379	41	63510	18.632	ug/l	97
15) Acrylonitrile	5.055	53	48849	88.546	ug/l	98
16) Acetone	3.866	43	37306	91.214	ug/l	99
17) Carbon Disulfide	4.104	76	182459	19.547	ug/l	98
18) Methyl Acetate	4.379	43	23736	18.681	ug/l	95
19) Methyl tert-butyl Ether	5.116	73	117798	17.978	ug/l	99
20) Methylene Chloride	4.610	84	66341	19.288	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64503	19.674	ug/l	95
22) Diisopropyl ether	6.012	45	147267	19.413	ug/l	96
23) Vinyl Acetate	5.958	43	372032	91.000	ug/l	99
24) 1,1-Dichloroethane	5.915	63	104275	19.831	ug/l #	96
25) 2-Butanone	6.896	43	53781	86.739	ug/l	98
26) 2,2-Dichloropropane	6.884	77	93707	20.333	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	72723	19.837	ug/l	99
28) Bromochloromethane	7.244	49	38682	18.940	ug/l	97
29) Tetrahydrofuran	7.256	42	34870	86.590	ug/l	99
30) Chloroform	7.421	83	118101	20.249	ug/l	98
31) Cyclohexane	7.701	56	84609	18.817	ug/l #	92
32) 1,1,1-Trichloroethane	7.616	97	106076	20.103	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79939	19.894	ug/l	100
37) Ethyl Acetate	6.982	43	25337	17.556	ug/l	97
38) Carbon Tetrachloride	7.817	117	99102	20.639	ug/l	98
39) Methylcyclohexane	9.109	83	95859	18.956	ug/l	96
40) Benzene	8.079	78	254338	20.248	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	12694	16.090	ug/l	#	84
42) 1,2-Dichloroethane	8.158	62	61949	19.920	ug/l		99
43) Isopropyl Acetate	8.195	43	48886	17.639	ug/l		99
44) Trichloroethene	8.866	130	70695	20.319	ug/l		97
45) 1,2-Dichloropropane	9.140	63	55919	20.131	ug/l		98
46) Dibromomethane	9.231	93	34103	19.612	ug/l		98
47) Bromodichloromethane	9.420	83	89355	20.570	ug/l		97
48) Methyl methacrylate	9.219	41	21714	16.948	ug/l		93
49) 1,4-Dioxane	9.231	88	6896	372.078	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	127974	88.084	ug/l		99
52) Toluene	10.170	92	167187	20.562	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	70469	18.912	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	88193	19.912	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	46804	20.150	ug/l		96
56) Ethyl methacrylate	10.438	69	46419	17.476	ug/l		97
57) 1,3-Dichloropropane	10.719	76	73345	19.697	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	112618	86.715	ug/l		100
59) 2-Hexanone	10.762	43	81146	84.678	ug/l		98
60) Dibromochloromethane	10.908	129	63759	19.827	ug/l		98
61) 1,2-Dibromoethane	11.018	107	43603	19.884	ug/l		96
64) Tetrachloroethene	10.646	164	81769	20.925	ug/l		98
65) Chlorobenzene	11.444	112	183689	19.830	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	65069	19.952	ug/l		97
67) Ethyl Benzene	11.517	91	295862	19.525	ug/l		99
68) m/p-Xylenes	11.627	106	244316	40.518	ug/l		99
69) o-Xylene	11.956	106	109092	19.629	ug/l		99
70) Styrene	11.969	104	187388	20.081	ug/l		99
71) Bromoform	12.133	173	37191	19.615	ug/l	#	98
73) Isopropylbenzene	12.255	105	288742	19.173	ug/l		100
74) N-amyl acetate	12.072	43	41858	16.178	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	46736	18.407	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	35111m	18.186	ug/l		
77) Bromobenzene	12.530	156	73542	19.326	ug/l		98
78) n-propylbenzene	12.597	91	349898	19.510	ug/l		100
79) 2-Chlorotoluene	12.682	91	203324	19.494	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	243534	19.627	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	13702	17.090	ug/l		96
82) 4-Chlorotoluene	12.779	91	211849	19.539	ug/l		98
83) tert-Butylbenzene	12.999	119	211608	19.015	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	242538	19.542	ug/l		98
85) sec-Butylbenzene	13.176	105	316527	19.438	ug/l		99
86) p-Isopropyltoluene	13.292	119	268577	19.423	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	153561	19.869	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	150028	19.600	ug/l		99
89) n-Butylbenzene	13.621	91	230584	18.656	ug/l		99
90) Hexachloroethane	13.877	117	59920	19.723	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	130714	19.391	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7153	17.708	ug/l		89
93) 1,2,4-Trichlorobenzene	14.919	180	72623	19.012	ug/l		99
94) Hexachlorobutadiene	15.023	225	47671	20.283	ug/l		97
95) Naphthalene	15.145	128	104223	16.425	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	61917	18.778	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

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

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

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

Sample Results: **VY022097.D**

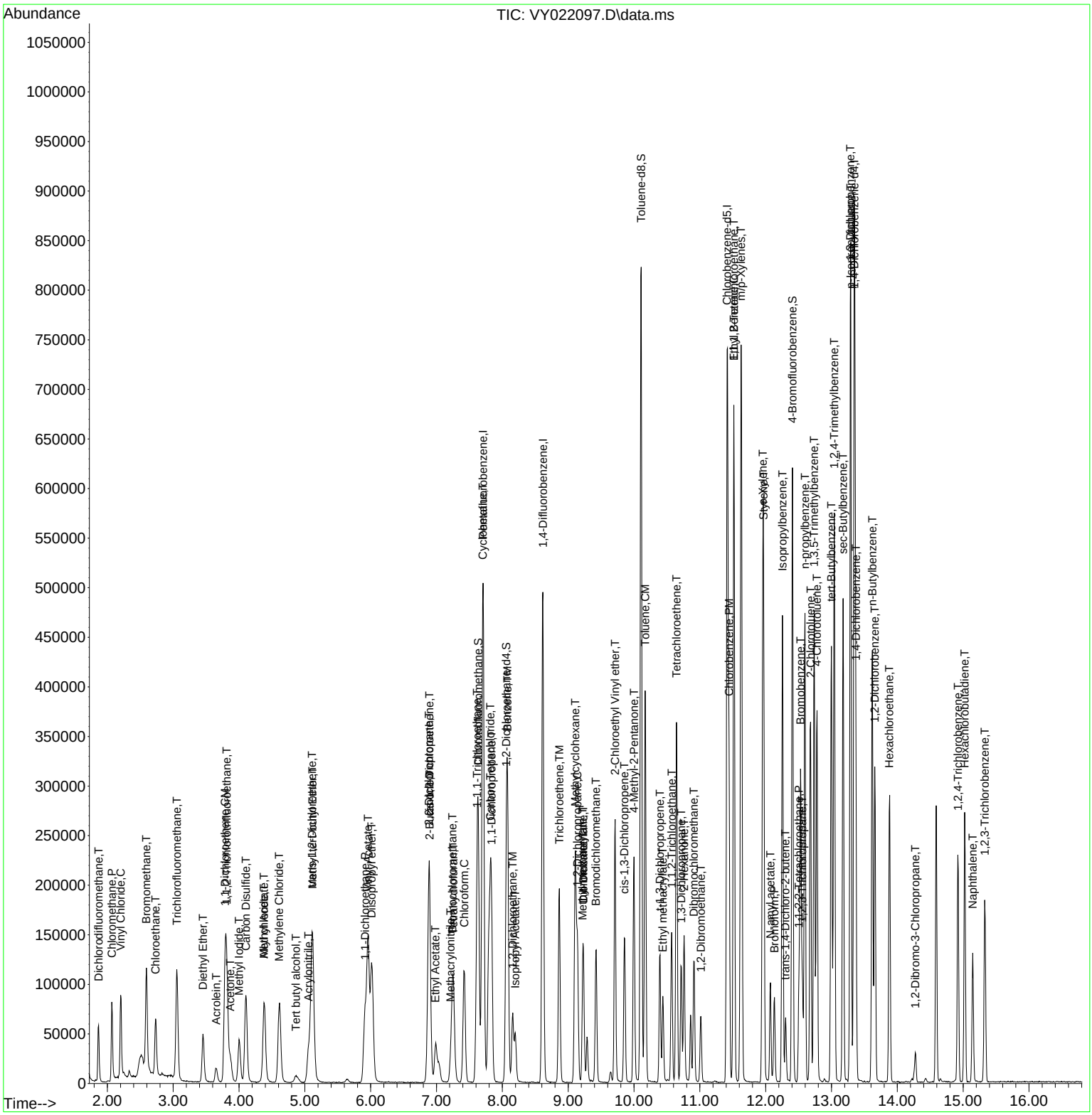
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050125\
Data File : VY022097.D
Acq On : 01 May 2025 10:42
Operator : SY/MD
Sample : VY0501SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:53:46 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0501SBS01

Manual Integrations APPROVED

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



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

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

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

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			

Raw Data: **VX045976.D**

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

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

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

Sample Results: **VX045976.D**

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

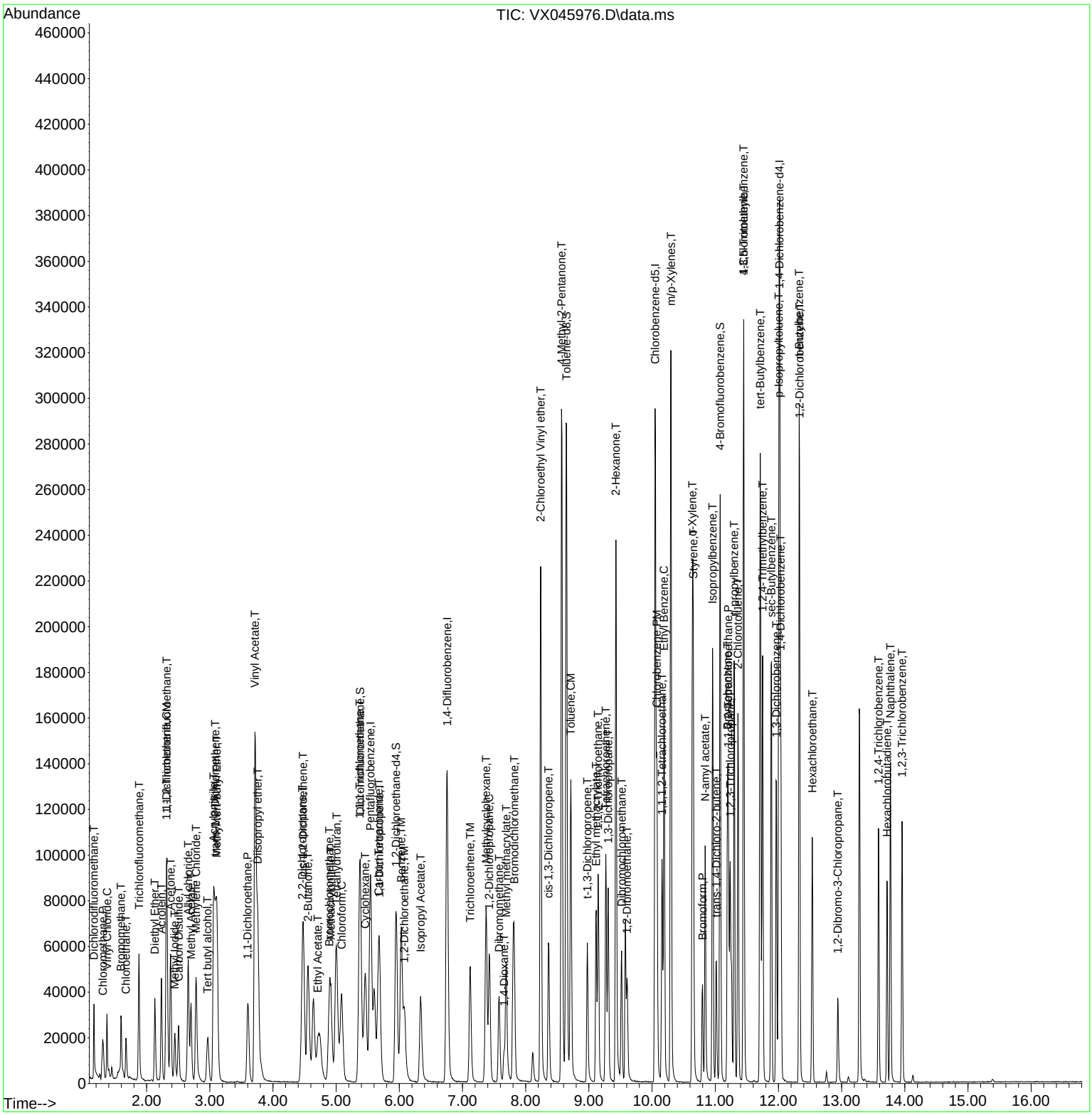
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042925\
Data File : VX045976.D
Acq On : 29 Apr 2025 12:49
Operator : JC/MD
Sample : VX0429WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBSD01

Manual Integrations APPROVED

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



Raw Data: **VY022073.D**

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

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

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

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)
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			

Raw Data: **VY022073.D**

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

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

Sample Results: **VY022073.D**

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)
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 : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

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

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

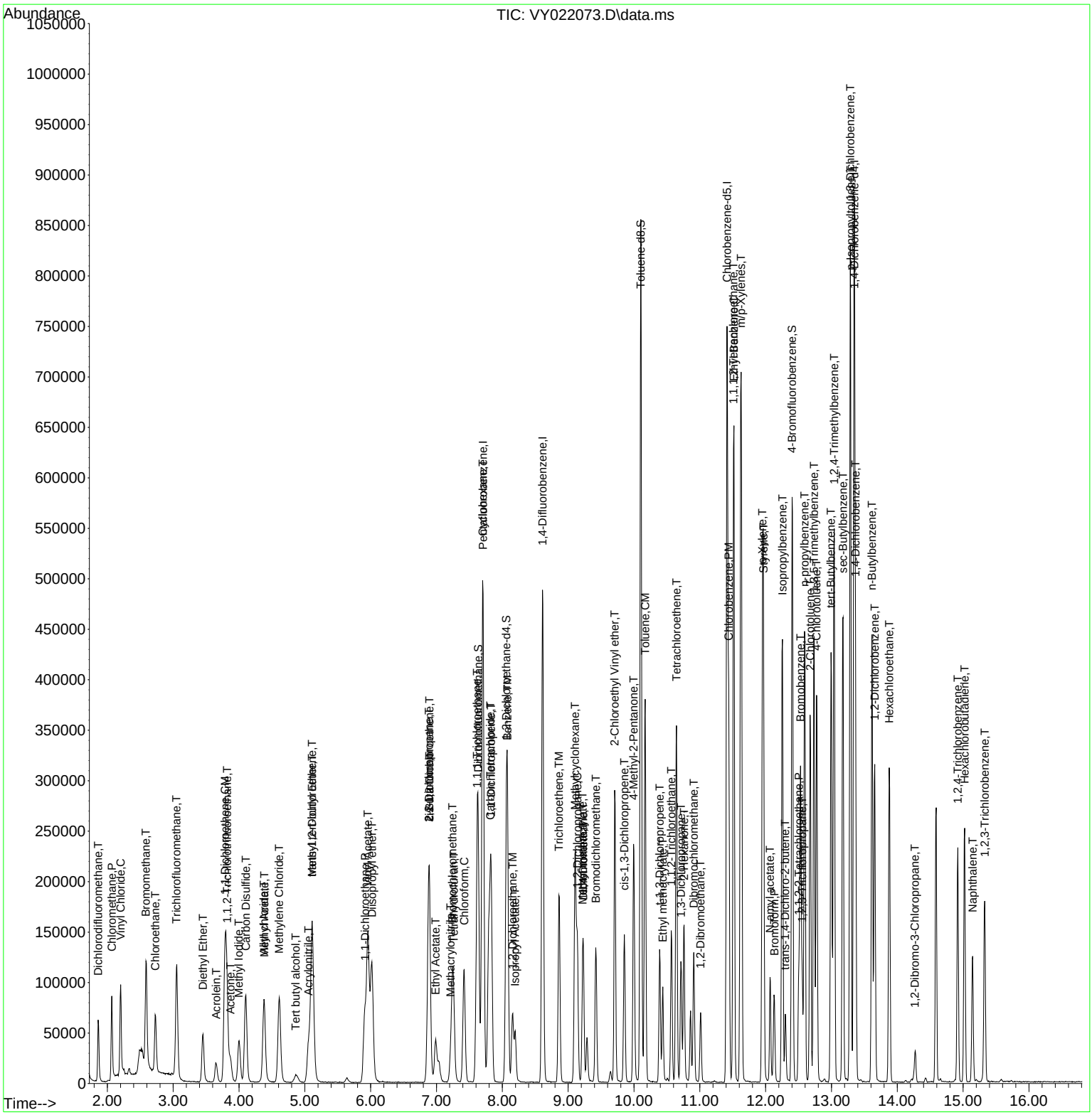
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
Data File : VY022073.D
Acq On : 30 Apr 2025 10:52
Operator : SY/MD
Sample : VY0430SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0430SBSD01

Manual Integrations APPROVED

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



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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	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
VSTDICC001	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
VSTDICC001	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
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	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
VSTDICC020	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
VSTDICCC050	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
VSTDICC100	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
VSTDICC150	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

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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

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

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Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	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
VSTDICC005	VY021953.D	Ethyl Acetate	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Methacrylonitrile	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	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
VSTDICC010	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
VSTDICC010	VY021954.D	Ethyl Acetate	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Methacrylonitrile	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC020	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
VSTDICC020	VY021955.D	Methacrylonitrile	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICCC050	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
VSTDICC100	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
VSTDICC150	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

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Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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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
VY0430SBSD01	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
VY0430SBSD01	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

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Manual Integration Report

Sequence:	vy050125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022095.D	1,2,3-Trichloropropane	Sam	5/5/2025 2:51:05 PM	MMDadoda	5/5/2025 2:57:20 PM	Peak Integrated by Software
VY0501SBS01	VY022097.D	1,2,3-Trichloropropane	sam	5/5/2025 4:29:49 AM	MMDadoda	5/5/2025 2:57:21 PM	Peak Integrated by Software
VSTDCCC050	VY022117.D	1,2,3-Trichloropropane	sam	5/5/2025 4:30:16 AM	MMDadoda	5/5/2025 2:57:56 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	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	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	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	VSTDCCC050	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

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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	VP133784
Initial Calibration Stds	
CCC	VP133785,VP133786
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM				
Supervise By	Mahesh 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#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021952.D	22 Apr 2025 11:33	SY/MD	Ok
2	VSTDICC005	VY021953.D	22 Apr 2025 13:39	SY/MD	Ok,M
3	VSTDICC010	VY021954.D	22 Apr 2025 14:44	SY/MD	Ok,M
4	VSTDICC020	VY021955.D	22 Apr 2025 15:07	SY/MD	Ok,M
5	VSTDICCC050	VY021956.D	22 Apr 2025 15:29	SY/MD	Ok,M
6	VSTDICC100	VY021957.D	22 Apr 2025 15:52	SY/MD	Ok,M
7	VSTDICC150	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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP133787
Initial Calibration Stds	
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	VY0430SBSD01	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	Q1883-11	VY022086.D	30 Apr 2025 16:42	SY/MD	Ok
19	Q1901-02	VY022087.D	30 Apr 2025 17:05	SY/MD	Ok
20	Q1883-13	VY022088.D	30 Apr 2025 17:29	SY/MD	Ok
21	Q1901-04	VY022089.D	30 Apr 2025 17:52	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP133787
Initial Calibration Stds	
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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM				
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
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	VY022094.D	01 May 2025 08:20	SY/MD	Ok
2	VSTDCCC050	VY022095.D	01 May 2025 08:50	SY/MD	Ok,M
3	VY0501SBL01	VY022096.D	01 May 2025 10:11	SY/MD	Ok
4	VY0501SBS01	VY022097.D	01 May 2025 10:42	SY/MD	Ok,M
5	VY0501SBSD01	VY022098.D	01 May 2025 11:04	SY/MD	Ok,M
6	Q1920-01	VY022099.D	01 May 2025 11:54	SY/MD	Ok
7	Q1911-01RE	VY022100.D	01 May 2025 12:17	SY/MD	Confirms
8	Q1916-03	VY022101.D	01 May 2025 12:41	SY/MD	Ok
9	Q1923-01	VY022102.D	01 May 2025 13:04	SY/MD	ReRun
10	Q1922-03	VY022103.D	01 May 2025 13:28	SY/MD	Ok
11	Q1922-07	VY022104.D	01 May 2025 13:51	SY/MD	Ok
12	Q1901-01	VY022105.D	01 May 2025 14:15	SY/MD	Ok
13	Q1901-03	VY022106.D	01 May 2025 14:38	SY/MD	Ok
14	Q1914-01	VY022107.D	01 May 2025 15:02	SY/MD	Ok
15	Q1914-02	VY022108.D	01 May 2025 15:28	SY/MD	Ok
16	Q1914-03	VY022109.D	01 May 2025 16:04	SY/MD	Ok
17	Q1914-04	VY022110.D	01 May 2025 16:27	SY/MD	Ok
18	Q1914-05	VY022111.D	01 May 2025 16:49	SY/MD	Ok
19	Q1914-06	VY022112.D	01 May 2025 17:16	SY/MD	Dilution
20	Q1914-07	VY022113.D	01 May 2025 17:37	SY/MD	Dilution
21	Q1914-09	VY022114.D	01 May 2025 18:00	SY/MD	Dilution

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM				
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1914-10MS	VY022115.D	01 May 2025 18:23	SY/MD	Ok
23	Q1914-11MSD	VY022116.D	01 May 2025 18:46	SY/MD	Ok,M
24	VSTDCCC050	VY022117.D	01 May 2025 19:08	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	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	VSTDCCC050	VSTDCCC050	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

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch 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	VP133784
Initial Calibration Stds	
CCC	VP133785,VP133786
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Mahesh 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#	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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch 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	VP133787
Initial Calibration Stds	
CCC	VP133788,VP133789
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1883-11	OU4-PCS-TC-32-04232	VY022086.D	30 Apr 2025 16:42	vial-B	SY/MD	Ok
19	Q1901-02	B-167-SB01	VY022087.D	30 Apr 2025 17:05	vial-A	SY/MD	Ok
20	Q1883-13	OU4-VSL-18-042325	VY022088.D	30 Apr 2025 17:29	vial-B	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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM			
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM			
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022094.D	01 May 2025 08:20		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022095.D	01 May 2025 08:50		SY/MD	Ok,M
3	VY0501SBL01	VY0501SBL01	VY022096.D	01 May 2025 10:11		SY/MD	Ok
4	VY0501SBS01	VY0501SBS01	VY022097.D	01 May 2025 10:42		SY/MD	Ok,M
5	VY0501SBSD01	VY0501SBSD01	VY022098.D	01 May 2025 11:04		SY/MD	Ok,M
6	Q1920-01	291	VY022099.D	01 May 2025 11:54	vial-A	SY/MD	Ok
7	Q1911-01RE	EO-03-04292025RE	VY022100.D	01 May 2025 12:17	vial-B Internal Standard Fail	SY/MD	Confirms
8	Q1916-03	WC-12-VOC	VY022101.D	01 May 2025 12:41	vial-B	SY/MD	Ok
9	Q1923-01	TR-05-04302025	VY022102.D	01 May 2025 13:04	vial-A Internal Standard Fail	SY/MD	ReRun
10	Q1922-03	MH-R-VOC	VY022103.D	01 May 2025 13:28	vial-A	SY/MD	Ok
11	Q1922-07	MH-2-VOC	VY022104.D	01 May 2025 13:51	vial-A	SY/MD	Ok
12	Q1901-01	B-170-SB00	VY022105.D	01 May 2025 14:15	vial-A	SY/MD	Ok
13	Q1901-03	B-170-SB01	VY022106.D	01 May 2025 14:38	vial-A	SY/MD	Ok
14	Q1914-01	SS-1	VY022107.D	01 May 2025 15:02	vial-A	SY/MD	Ok
15	Q1914-02	SS-91	VY022108.D	01 May 2025 15:28	vial-A	SY/MD	Ok
16	Q1914-03	SS-2	VY022109.D	01 May 2025 16:04	vial-A	SY/MD	Ok
17	Q1914-04	SS-3	VY022110.D	01 May 2025 16:27	vial-A	SY/MD	Ok
18	Q1914-05	SS-4	VY022111.D	01 May 2025 16:49	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY050125

Review By	Semsettin Yesilyurt	Review On	5/5/2025 2:51:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:57:16 PM		
SubDirectory	VY050125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133796
Initial Calibration Stds	
CCC	VP133797,VP133798
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1914-06	SS-5	VY022112.D	01 May 2025 17:16	vial-A Need MeoH	SY/MD	Dilution
20	Q1914-07	SS-6	VY022113.D	01 May 2025 17:37	vial-A Internal Standard Fail;Need MeOH	SY/MD	Dilution
21	Q1914-09	SS-8	VY022114.D	01 May 2025 18:00	vial-A Internal Standard Fail; Surrogate Fail;Need MeOH	SY/MD	Dilution
22	Q1914-10MS	SS-8MS	VY022115.D	01 May 2025 18:23	vial-A Surrogate fail	SY/MD	Ok
23	Q1914-11MSD	SS-8MSD	VY022116.D	01 May 2025 18:46	vial-A Surrogate faill	SY/MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VY022117.D	01 May 2025 19:08		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)

VB B5575

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: TO (4deg C)

Raw Sample Relinquished by:

Date/Time 04/28/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by: TO (4deg C)

WORKLIST(Hardcopy Internal Chain)

WB 135575

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: JD WOC
Raw Sample Relinquished by:

Date/Time 04/28/25 17:30
Raw Sample Received by:
Raw Sample Relinquished by: JD WOC

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

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.

QA Contorl # A3041177

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

25-27
30-32

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

ALLIANCE PROJECT NO.
QUOTE NO. Q1901
COC Number 2046751

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Ave
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupsky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

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

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Beasley PHONE: 908-728-3488

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1: TCL-VOLATILES
2: PLABS
3: CrVI (soil)
4: TCL-SVOCs BNA
5: TAL Metals
6: EPH
7: TCLP (Liq)
8: RCRA (Liq)
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	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.	FB042625	DI W				1215	11	X	X	X	X	X	X	X	X	X	pH 1-3
7.	TB042625	DIW				NA	2	X									
8.																	
9.																	
10.																	

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

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

	DATE/TIME	RECEIVED BY:
1. RELINQUISHED BY SAMPLER:	4/26/25 1315	1. 4-28-25 0700
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY SAMPLER:	DATE/TIME:	3. RECEIVED BY:

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments: Trip Blank # ("Adjust Factor + 1"

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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

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

Laboratory Certification

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 4/28/2025 10:24:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 4/28/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 4/28/2025 10:24:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 4/28/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

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

Relinguished By : CP
Date / Time : 4/28/25 11:45

Received By : JC
Date / Time : 4/28/25 1145

Storage Area : VOA Refridgerator Room