

Cover Page

Order ID : Q1415

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1415-01
Q1415-02
Q1415-03
Q1415-04
Q1415-05
Q1415-06

Client Sample Number

B-163-SB01
B-172-SB01
B-163-SB02
B-172-SB02
FB02222025
B-173-GW01

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: 3/1/2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1415

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 03/01/2025

LAB CHRONICLE

OrderID:	Q1415	OrderDate:	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	B-163-SB01	SOIL	VOC-TCLVOA-10	8260D	02/22/25		02/26/25	02/24/25
Q1415-02	B-172-SB01	SOIL	VOC-TCLVOA-10	8260D	02/22/25		02/26/25	02/24/25
Q1415-03	B-163-SB02	SOIL	VOC-TCLVOA-10	8260D	02/22/25		02/26/25	02/24/25
Q1415-03RE	B-163-SB02RE	SOIL	VOC-TCLVOA-10	8260D	02/22/25		02/27/25	02/24/25
Q1415-04	B-172-SB02	SOIL	VOC-TCLVOA-10	8260D	02/22/25		02/26/25	02/24/25
Q1415-05	FB02222025	Water	VOC-TCLVOA-10	8260-Low	02/22/25		02/25/25	02/24/25
Q1415-06	B-173-GW01	Water	VOC-TCLVOA-10	8260-Low	02/22/25		02/24/25	02/24/25

Hit Summary Sheet
SW-846

SDG No.: Q1415
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	B-163-SB01							
Q1415-01	B-163-SB01	SOIL	Acetone	13.5	J	6.80	27.4	ug/Kg
			Total Voc :	13.5				
Q1415-01	B-163-SB01	SOIL	Ethanol	* 10.9	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	* 450	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Ethyl Acetate	* 1.40	J	1.20	5.50	ug/Kg
			Total Tics :	462				
			Total Concentration:	476				
Client ID:	B-172-SB01							
Q1415-02	B-172-SB01	SOIL	Acetone	70.4		5.90	23.7	ug/Kg
Q1415-02	B-172-SB01	SOIL	Methyl Acetate	2.60	J	1.70	4.70	ug/Kg
			Total Voc :	73.0				
Q1415-02	B-172-SB01	SOIL	Butane, 2-methyl-	* 16.4	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Cyclopentane	* 110	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Tert butyl alcohol	* 61.1	J	14.8	23.7	ug/Kg
			Total Tics :	188				
			Total Concentration:	261				
Client ID:	B-163-SB02							
Q1415-03	B-163-SB02	SOIL	Acetone	64.7		5.90	23.6	ug/Kg
Q1415-03	B-163-SB02	SOIL	2-Butanone	17.9	J	5.40	23.6	ug/Kg
			Total Voc :	82.6				
Q1415-03	B-163-SB02	SOIL	unknown11.938	* 6.20	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	* 34.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Dodecane	* 17.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Decane	* 21.5	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Tridecane	* 9.90	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane	* 22.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Cyclohexane, butyl-	* 6.00	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Naphthalene, decahydro-2-metl	* 5.80	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane, 2,6-dimethyl-	* 6.60	J	0	0	ug/Kg
			Total Tics :	130				
			Total Concentration:	212				
Client ID:	B-163-SB02RE							
Q1415-03RE	B-163-SB02RE	SOIL	Acetone	490		10.5	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	Methylene Chloride	15.6	J	5.70	16.8	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	2-Butanone	130		9.60	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	m/p-Xylenes	2.90	J	2.30	16.8	ug/Kg
			Total Voc :	639				

Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				639				
Client ID:	B-172-SB02							
Q1415-04	B-172-SB02	SOIL	Acetone	72.4		5.70	23.0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Methyl Acetate	2.50	J	1.70	4.60	ug/Kg
Total Voc :				74.9				
Q1415-04	B-172-SB02	SOIL	Butane, 2-methyl-	* 14.9	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Decane	* 7.30	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Cyclopentane	* 120	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Carbonic acid, nonyl vinyl ester	* 5.50	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Tert butyl alcohol	* 91.2	J	14.4	23.0	ug/Kg
Total Tics :				239				
Total Concentration:				314				
Client ID:	FB02222025							
Q1415-05	FB02222025	Water	Acetone	11.6		1.40	5.00	ug/L
Total Voc :				11.6				
Total Concentration:				11.6				
Client ID:	B-173-GW01							
Q1415-06	B-173-GW01	Water	Acetone	9.10		1.40	5.00	ug/L
Q1415-06	B-173-GW01	Water	Toluene	2.50		0.18	1.00	ug/L
Total Voc :				11.6				
Total Concentration:				11.6				



QC SUMMARY

Surrogate Summary

SDG No.: **Q1415**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1415-01	B-163-SB01	1,2-Dichloroethane-d4	50	55.1	110	70 (50)	130 (163)
		Dibromofluoromethane	50	50.3	101	70 (54)	130 (147)
		Toluene-d8	50	49.5	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.2	104	70 (29)	130 (146)
Q1415-02	B-172-SB01	1,2-Dichloroethane-d4	50	53.7	107	70 (50)	130 (163)
		Dibromofluoromethane	50	51.1	102	70 (54)	130 (147)
		Toluene-d8	50	46.1	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.4	71	70 (29)	130 (146)
Q1415-03	B-163-SB02	1,2-Dichloroethane-d4	50	55.4	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.4	101	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.3	113	70 (29)	130 (146)
Q1415-03RE	B-163-SB02RE	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	54.0	108	70 (54)	130 (147)
		Toluene-d8	50	48.1	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.7	101	70 (29)	130 (146)
Q1415-04	B-172-SB02	1,2-Dichloroethane-d4	50	51.0	102	70 (50)	130 (163)
		Dibromofluoromethane	50	50.5	101	70 (54)	130 (147)
		Toluene-d8	50	45.8	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.2	70	70 (29)	130 (146)
VY0226SBL01	VY0226SBL01	1,2-Dichloroethane-d4	50	53.1	106	70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.1	100	70 (29)	130 (146)
VY0226SBS01	VY0226SBS01	1,2-Dichloroethane-d4	50	46.7	93	70 (50)	130 (163)
		Dibromofluoromethane	50	47.4	95	70 (54)	130 (147)
		Toluene-d8	50	47.6	95	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.3	95	70 (29)	130 (146)
VY0226SBSD01	VY0226SBSD01	1,2-Dichloroethane-d4	50	48.5	97	70 (50)	130 (163)
		Dibromofluoromethane	50	49.1	98	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.3	101	70 (29)	130 (146)
VY0227SBL01	VY0227SBL01	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105	70 (54)	130 (147)
		Toluene-d8	50	48.2	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	49.5	99	70 (29)	130 (146)
VY0227SBS01	VY0227SBS01	1,2-Dichloroethane-d4	50	51.1	102	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	52.3	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.4	105	70 (29)	130 (146)

Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1415-05	FB02222025	1,2-Dichloroethane-d4	50	59.4	119	70 (74)	130 (125)
		Dibromofluoromethane	50	55.5	111	70 (75)	130 (124)
		Toluene-d8	50	49.1	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	40.5	81	70 (77)	130 (121)
Q1415-06	B-173-GW01	1,2-Dichloroethane-d4	50	60.4	121	70 (74)	130 (125)
		Dibromofluoromethane	50	55.6	111	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.6	93	70 (77)	130 (121)
VN0224WBL01	VN0224WBL01	1,2-Dichloroethane-d4	50	60.2	120	70 (74)	130 (125)
		Dibromofluoromethane	50	54.9	110	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.3	89	70 (77)	130 (121)
VN0224WBS01	VN0224WBS01	1,2-Dichloroethane-d4	50	48.5	97	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	49.4	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
VN0224WBSD0	VN0224WBSD01	1,2-Dichloroethane-d4	50	49.0	98	70 (74)	130 (125)
		Dibromofluoromethane	50	49.6	99	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.1	104	70 (77)	130 (121)
VN0225WBL01	VN0225WBL01	1,2-Dichloroethane-d4	50	62.2	124	70 (74)	130 (125)
		Dibromofluoromethane	50	55.9	112	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	41.9	84	70 (77)	130 (121)
VN0225WBS01	VN0225WBS01	1,2-Dichloroethane-d4	50	50.1	100	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0224WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	19.6	ug/L	98			40 (65)	160 (116)	
	Vinyl chloride	20	19.6	ug/L	98			70 (65)	130 (117)	
	Bromomethane	20	19.5	ug/L	98			40 (58)	160 (125)	
	Chloroethane	20	19.2	ug/L	96			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.6	ug/L	98			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.3	ug/L	97			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	18.4	ug/L	92			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			70 (78)	130 (114)	
	Methyl Acetate	20	22.4	ug/L	112			70 (67)	130 (125)	
	Methylene Chloride	20	20.4	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.6	ug/L	103			70 (78)	130 (112)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	120	ug/L	120			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.6	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Bromochloromethane	20	24.9	ug/L	125			70 (70)	130 (124)	
	Chloroform	20	20.8	ug/L	104			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			70 (80)	130 (108)	
	Methylcyclohexane	20	17.8	ug/L	89			70 (72)	130 (115)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.7	ug/L	94			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.8	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	20.6	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	21.1	ug/L	106			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.3	ug/L	102			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	120	ug/L	120			40 (73)	160 (117)	
	Dibromochloromethane	20	21.3	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.3	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	19.4	ug/L	97			70 (67)	130 (123)	
	Chlorobenzene	20	20.1	ug/L	101			70 (82)	130 (109)	
	Ethyl Benzene	20	20.1	ug/L	101			70 (83)	130 (109)	
	m/p-Xylenes	40	43.0	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	20.6	ug/L	103			70 (83)	130 (109)	
	Styrene	20	20.5	ug/L	103			70 (80)	130 (111)	
	Bromoform	20	22.1	ug/L	111			70 (79)	130 (109)	
	Isopropylbenzene	20	19.2	ug/L	96			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0224WBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.0	ug/L	85			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.5	ug/L	88			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0224WBSD01	Dichlorodifluoromethane	20	19.5	ug/L	98	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.9	ug/L	100	2		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	19.1	ug/L	96	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	19.0	ug/L	95	3		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.3	ug/L	97	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101	3		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	2		70 (74)	130 (110)	20 (20)
	Acetone	100	120	ug/L	120	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.8	ug/L	89	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	20.9	ug/L	104	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	23.5	ug/L	117	4		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.1	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/L	97	0		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.3	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.1	ug/L	91	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	0		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	25.0	ug/L	125	0		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.2	ug/L	101	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.4	ug/L	97	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.1	ug/L	91	2		70 (72)	130 (115)	20 (20)
	Benzene	20	20.5	ug/L	103	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.4	ug/L	102	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.1	ug/L	96	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.8	ug/L	104	0		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	1		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	120	ug/L	120	0		40 (74)	160 (118)	20 (20)
	Toluene	20	21.1	ug/L	106	0		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	21.8	ug/L	109	7		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.8	ug/L	104	0		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	7		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	130	ug/L	130	8		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.9	ug/L	110	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	22.0	ug/L	110	4		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.3	ug/L	97	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.9	ug/L	100	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.8	ug/L	99	2		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.5	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.3	ug/L	102	1		70 (83)	130 (109)	20 (20)
	Styrene	20	20.5	ug/L	103	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	22.1	ug/L	111	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.5	ug/L	98	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	4		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.4	ug/L	97	3		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.1	ug/L	101	3		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415
Client: Portal Partners Tri-Venture
Analytical Method: SW8260-Low **Datafile :** VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0224WBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/L	107	8		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93	9		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	9		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0225WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			40 (69)	160 (116)	
	Chloromethane	20	19.0	ug/L	95			40 (65)	160 (116)	
	Vinyl chloride	20	18.6	ug/L	93			70 (65)	130 (117)	
	Bromomethane	20	18.1	ug/L	91			40 (58)	160 (125)	
	Chloroethane	20	18.1	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.8	ug/L	94			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	17.1	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			70 (78)	130 (114)	
	Methyl Acetate	20	22.8	ug/L	114			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.9	ug/L	100			70 (78)	130 (112)	
	Cyclohexane	20	17.2	ug/L	86			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.5	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.3	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	22.5	ug/L	113			70 (70)	130 (124)	
	Chloroform	20	19.9	ug/L	100			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	16.9	ug/L	85			70 (72)	130 (115)	
	Benzene	20	19.8	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.2	ug/L	101			70 (83)	130 (111)	
	Bromodichloromethane	20	20.4	ug/L	102			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	20.9	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.8	ug/L	99			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	130	ug/L	130			40 (73)	160 (117)	
	Dibromochloromethane	20	21.2	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.2	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	19.1	ug/L	96			70 (82)	130 (109)	
	Ethyl Benzene	20	19.1	ug/L	96			70 (83)	130 (109)	
	m/p-Xylenes	40	40.9	ug/L	102			70 (82)	130 (110)	
	o-Xylene	20	19.4	ug/L	97			70 (83)	130 (109)	
	Styrene	20	19.6	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	21.8	ug/L	109			70 (79)	130 (109)	
	Isopropylbenzene	20	18.2	ug/L	91			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415
Client: Portal Partners Tri-Venture
Analytical Method: SW8260-Low **Datafile :** VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0225WBS01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.7	ug/L	84			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.5	ug/L	83			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0226SBS01	Dichlorodifluoromethane	20	19.5	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.9	ug/Kg	95			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.2	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.0	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.0	ug/Kg	95			70 (79)	130 (121)	
	Acetone	100	94.9	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	92.9	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.0	ug/Kg	95			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Bromochloromethane	20	17.9	ug/Kg	90			70 (80)	130 (127)	
	Chloroform	20	19.3	ug/Kg	97			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.9	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.2	ug/Kg	96			70 (81)	130 (126)	
	Trichloroethene	20	19.2	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	Bromodichloromethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	93.3	ug/Kg	93			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (125)	
	2-Hexanone	100	93.8	ug/Kg	94			40 (66)	160 (138)	
	Dibromochloromethane	20	19.3	ug/Kg	97			70 (79)	130 (125)	
	1,2-Dibromoethane	20	18.8	ug/Kg	94			70 (80)	130 (125)	
	Tetrachloroethene	20	19.2	ug/Kg	96			70 (83)	130 (125)	
	Chlorobenzene	20	19.0	ug/Kg	95			70 (84)	130 (122)	
	Ethyl Benzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	m/p-Xylenes	40	38.8	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.3	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	19.1	ug/Kg	96			70 (75)	130 (127)	
	Isopropylbenzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.8	ug/Kg	94			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0226SBS01	1,2-Dibromo-3-Chloropropane	20	18.6	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.7	ug/Kg	89			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0226SBSD01	Dichlorodifluoromethane	20	19.2	ug/Kg	96	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.6	ug/Kg	98	3		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.4	ug/Kg	97	0		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.4	ug/Kg	97	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.6	ug/Kg	98	3		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.2	ug/Kg	96	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.2	ug/Kg	96	1		70 (79)	130 (121)	30 (20)
	Acetone	100	91.3	ug/Kg	91	4		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.2	ug/Kg	96	3		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.2	ug/Kg	96	3		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	18.9	ug/Kg	95	2		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	94.4	ug/Kg	94	1		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.6	ug/Kg	98	3		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.9	ug/Kg	100	11		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.5	ug/Kg	98	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	3		70 (77)	130 (123)	30 (20)
	Benzene	20	19.9	ug/Kg	100	3		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	19.7	ug/Kg	99	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	97.8	ug/Kg	98	5		40 (70)	160 (135)	30 (20)
	Toluene	20	19.7	ug/Kg	99	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97	0		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	96.5	ug/Kg	97	3		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	19.8	ug/Kg	99	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.4	ug/Kg	97	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	3		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.2	ug/Kg	96	1		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.6	ug/Kg	97	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.4	ug/Kg	97	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.8	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.1	ug/Kg	96	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.7	ug/Kg	99	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97	3		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98	4		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0226SBSD01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/Kg	90	3		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	7		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95	5		70 (70)	130 (137)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0227SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.5	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.1	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	18.5	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.3	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	97.4	ug/Kg	97			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	19.0	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.0	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	95.9	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.9	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	40.4	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	19.9	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0227SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0224WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085831.D

Lab Sample ID: VN0224WBL01

Date Analyzed: 02/24/2025

Time Analyzed: 12:39

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025
B-173-GW01	Q1415-06	VN085844.D	02/24/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0225WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085849.D

Lab Sample ID: VN0225WBL01

Date Analyzed: 02/25/2025

Time Analyzed: 11:43

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025
FB02222025	Q1415-05	VN085853.D	02/25/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0226SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021321.D

Lab Sample ID: VY0226SBL01

Date Analyzed: 02/26/2025

Time Analyzed: 10:50

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
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025
B-172-SB01	Q1415-02	VY021335.D	02/26/2025
B-163-SB01	Q1415-01	VY021336.D	02/26/2025
B-172-SB02	Q1415-04	VY021337.D	02/26/2025
B-163-SB02	Q1415-03	VY021338.D	02/26/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021347.D

Lab Sample ID: VY0227SBL01

Date Analyzed: 02/27/2025

Time Analyzed: 10:42

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
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VN085771.D BFB Injection Date: 02/18/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:35
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
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	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VN085828.D BFB Injection Date: 02/24/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:50
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	1.5 (2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (7.2) 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	VN085829.D	02/24/2025	11:37
VN0224WBL01	VN0224WBL01	VN085831.D	02/24/2025	12:39
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025	13:03
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025	13:36
B-173-GW01	Q1415-06	VN085844.D	02/24/2025	18:02



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VN085846.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:11
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
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	6.7
173	Less than 2.0% of mass 174	1.3 (1.6) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6.5 (7.9) 1
176	95.0 - 101.0% of mass 174	77.8 (95) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085847.D	02/25/2025	10:45
VN0225WBL01	VN0225WBL01	VN085849.D	02/25/2025	11:43
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025	12:14
FB02222025	Q1415-05	VN085853.D	02/25/2025	13:36



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VY021308.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_Y BFB Injection Time: 12:10
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	20.8
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY021309.D	02/25/2025	12:40
VSTDIC010	VSTDIC010	VY021310.D	02/25/2025	13:03
VSTDIC020	VSTDIC020	VY021311.D	02/25/2025	13:26
VSTDIC050	VSTDIC050	VY021312.D	02/25/2025	14:48
VSTDIC150	VSTDIC150	VY021314.D	02/25/2025	15:57
VSTDIC100	VSTDIC100	VY021316.D	02/25/2025	16:49



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VY021319.D BFB Injection Date: 02/26/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:12
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	21.5
75	30.0 - 60.0% of mass 95	55.4
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	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.5 (8.3) 1
176	95.0 - 101.0% of mass 174	75.9 (96.7) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021320.D	02/26/2025	10:11
VY0226SBL01	VY0226SBL01	VY021321.D	02/26/2025	10:50
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025	11:22
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025	11:44
B-172-SB01	Q1415-02	VY021335.D	02/26/2025	16:37
B-163-SB01	Q1415-01	VY021336.D	02/26/2025	17:01
B-172-SB02	Q1415-04	VY021337.D	02/26/2025	17:24
B-163-SB02	Q1415-03	VY021338.D	02/26/2025	17:48



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VY021345.D BFB Injection Date: 02/27/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:41
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	21.8
75	30.0 - 60.0% of mass 95	54.4
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	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	80.4 (96.4) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021346.D	02/27/2025	10:13
VY0227SBL01	VY0227SBL01	VY021347.D	02/27/2025	10:42
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025	11:18
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025	14:01

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
Lab File ID: VN085829.D Date Analyzed: 02/24/2025
Instrument ID: MSVOA_N Time Analyzed: 11:37
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	270391	8.22	444288	9.10	401749	11.87
UPPER LIMIT	540782	8.718	888576	9.6	803498	12.365
LOWER LIMIT	135196	7.718	222144	8.6	200875	11.365
EPA SAMPLE NO.						
B-173-GW01	217128	8.22	416577	9.10	372406	11.87
VN0224WBL01	219652	8.22	415867	9.10	368217	11.87
VN0224WBS01	257358	8.22	436252	9.10	378131	11.87
VN0224WBSD01	254490	8.22	420351	9.10	372649	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VN085829.D Date Analyzed: 02/24/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:37
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	208250	13.788				
UPPER LIMIT	416500	14.288				
LOWER LIMIT	104125	13.288				
EPA SAMPLE NO.						
B-173-GW01	157372	13.79				
VN0224WBL01	141296	13.79				
VN0224WBS01	189869	13.79				
VN0224WBSD01	182403	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VN085847.D Date Analyzed: 02/25/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:45
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	262718	8.22	419879	9.10	388712	11.86
UPPER LIMIT	525436	8.723	839758	9.6	777424	12.364
LOWER LIMIT	131359	7.723	209940	8.6	194356	11.364
EPA SAMPLE NO.						
FB02222025	210441	8.22	393207	9.10	337792	11.87
VN0225WBL01	216938	8.22	423956	9.10	361345	11.87
VN0225WBS01	265043	8.22	437697	9.10	395653	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VN085847.D Date Analyzed: 02/25/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:45
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	207967	13.788				
UPPER LIMIT	415934	14.288				
LOWER LIMIT	103984	13.288				
EPA SAMPLE NO.						
FB02222025	121445	13.79				
VN0225WBL01	136612	13.79				
VN0225WBS01	197432	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VY021320.D Date Analyzed: 02/26/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:11
 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	193888	7.71	308714	8.62	268805	11.42
UPPER LIMIT	387776	8.213	617428	9.116	537610	11.92
LOWER LIMIT	96944	7.213	154357	8.116	134403	10.92
EPA SAMPLE NO.						
B-163-SB01	198272	7.71	390694	8.62	393465	11.41
B-172-SB01	249275	7.71	482876	8.62	393781	11.41
B-163-SB02	278202	7.71	557389	8.62	583706 *	11.41
B-172-SB02	273603	7.71	518008	8.62	414734	11.41
VY0226SBL01	251129	7.71	483695	8.62	470141	11.42
VY0226SBS01	184417	7.71	291138	8.62	254891	11.41
VY0226SBSD01	186200	7.71	292071	8.62	258744	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VY021320.D Date Analyzed: 02/26/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:11
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	131935	13.347				
UPPER LIMIT	263870	13.847				
LOWER LIMIT	65967.5	12.847				
EPA SAMPLE NO.						
B-163-SB01	168735	13.35				
B-172-SB01	105850	13.35				
B-163-SB02	249107	13.35				
B-172-SB02	117278	13.35				
VY0226SBL01	192201	13.35				
VY0226SBS01	128725	13.35				
VY0226SBSD01	129829	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VY021346.D Date Analyzed: 02/27/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:13
 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	216838	7.71	336652	8.62	298167	11.42
UPPER LIMIT	433676	8.207	673304	9.116	596334	11.92
LOWER LIMIT	108419	7.207	168326	8.116	149084	10.92
EPA SAMPLE NO.						
B-163-SB02RE	98490 *	7.71	174802	8.61	165444	11.41
VY0227SBL01	140233	7.71	264026	8.62	255103	11.41
VY0227SBS01	199987	7.71	311959	8.62	272418	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415
 Lab File ID: VY021346.D Date Analyzed: 02/27/2025
 Instrument ID: MSVOA_Y Time Analyzed: 10:13
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	146841	13.347				
UPPER LIMIT	293682	13.847				
LOWER LIMIT	73420.5	12.847				
EPA SAMPLE NO.						
B-163-SB02RE	72948 *	13.35				
VY0227SBL01	107368	13.35				
VY0227SBS01	138215	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 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
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	5.50	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.50	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.50	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	5.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.85	U	0.85	5.50	ug/Kg
67-64-1	Acetone	13.5	J	6.80	27.4	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	5.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.50	ug/Kg
79-20-9	Methyl Acetate	2.00	U	2.00	5.50	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	5.50	ug/Kg
110-82-7	Cyclohexane	0.76	U	0.76	5.50	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	27.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.95	U	0.95	5.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	5.50	ug/Kg
74-97-5	Bromochloromethane	2.60	U	2.60	5.50	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	5.50	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.50	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.67	U	0.67	5.50	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	5.50	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	5.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.80	U	4.80	27.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	5.50	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	5.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.50	ug/Kg
591-78-6	2-Hexanone	5.20	U	5.20	27.4	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	5.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.86	U	0.86	5.50	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	5.50	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.50	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	10.9	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	5.50	ug/Kg
100-42-5	Styrene	0.66	U	0.66	5.50	ug/Kg
75-25-2	Bromoform	0.89	U	0.89	5.50	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	5.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.81	U	0.81	5.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.88	U	0.88	5.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.65	U	0.65	5.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	5.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.86	U	0.86	5.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.85	U	0.85	5.50	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	55.1	70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3	70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	49.5	70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2	70 (29) - 130 (146)	104%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	198000	7.707
540-36-3	1,4-Difluorobenzene	391000	8.616
3114-55-4	Chlorobenzene-d5	393000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 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
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000064-17-5	Ethanol	10.9	J		3.33	ug/Kg
141-78-6	Ethyl Acetate	1.40	J		6.99	ug/Kg
000105-58-8	Diethyl carbonate	450	J		10.5	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\VY022625\
 Data File : VY021336.D
 Acq On : 26 Feb 2025 17:01
 Operator : SY/MD
 Sample : Q1415-01
 Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-163-SB01

Quant Time: Feb 27 00:40:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

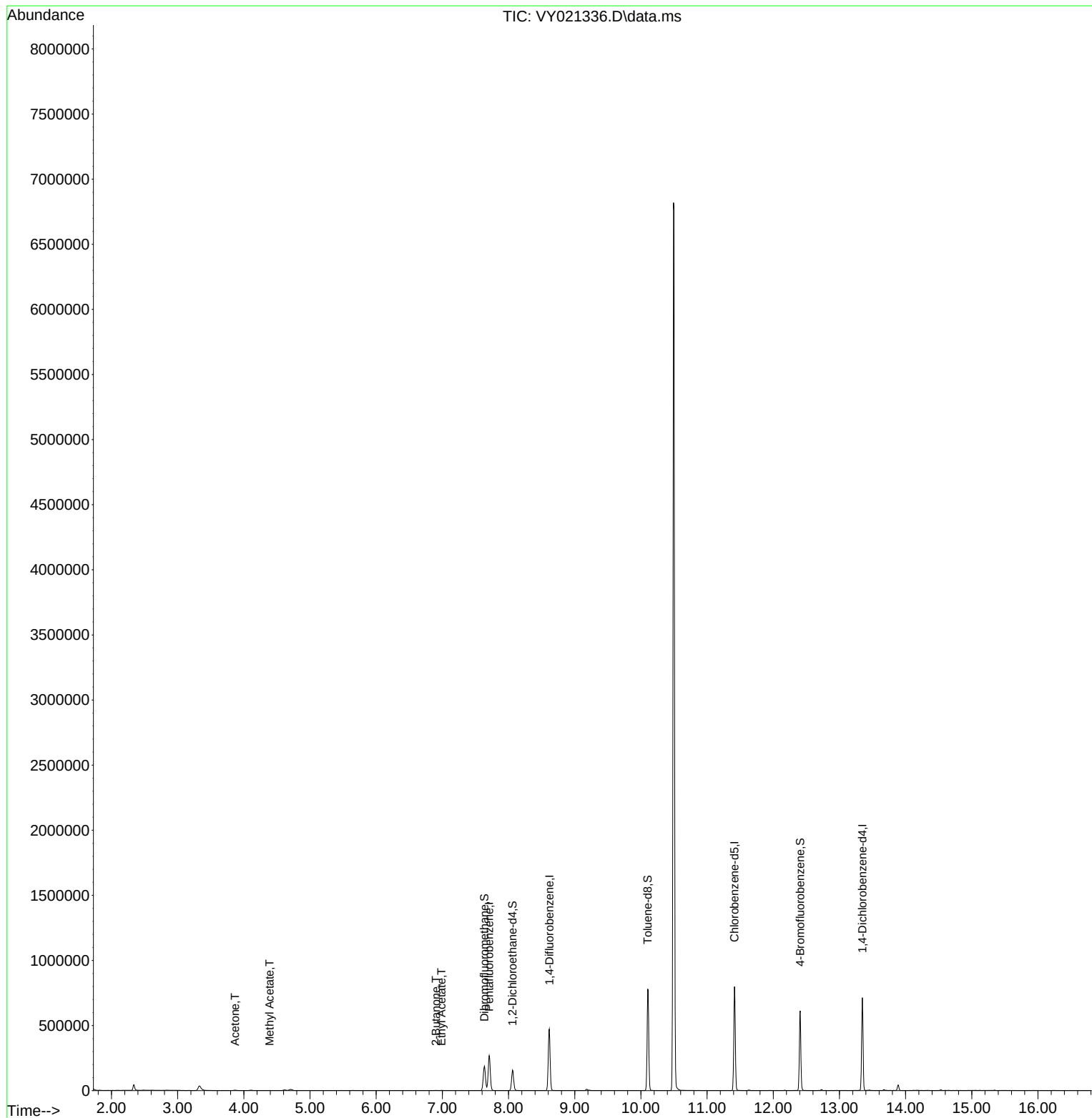
Internal Standards						
1) Pentafluorobenzene	7.707	168	198272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	390694	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	168735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123934	55.101	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.200%
35) Dibromofluoromethane	7.634	113	128943	50.340	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.680%
50) Toluene-d8	10.103	98	489572	49.456	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.920%
62) 4-Bromofluorobenzene	12.408	95	173918	52.204	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	104.400%
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	5326	12.344	ug/l	98
18) Methyl Acetate	4.391	43	1408	1.335	ug/l #	86
25) 2-Butanone	6.902	43	1395	2.142	ug/l	91
37) Ethyl Acetate	6.988	43	2363	1.235	ug/l #	86

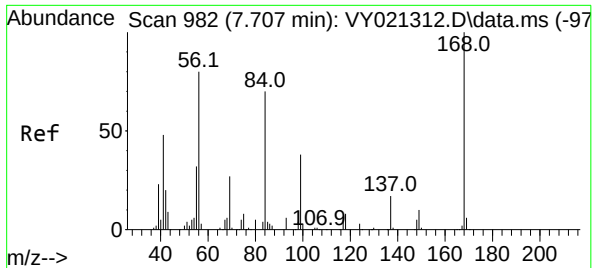
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Time: Feb 27 00:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

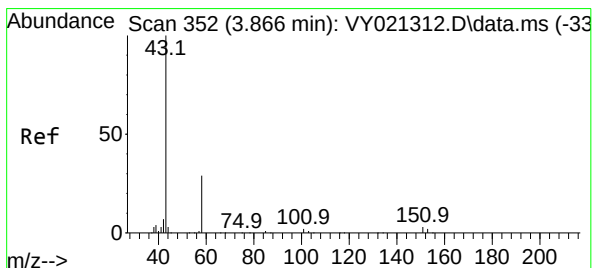
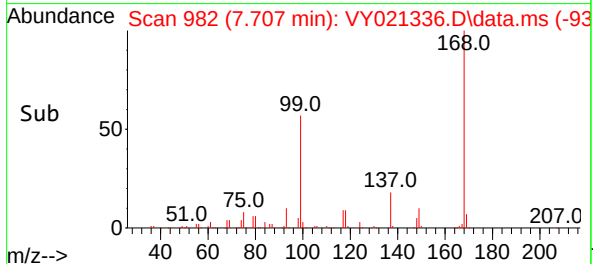
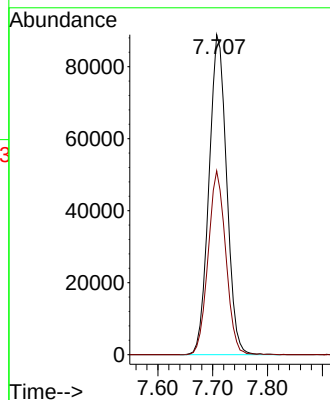
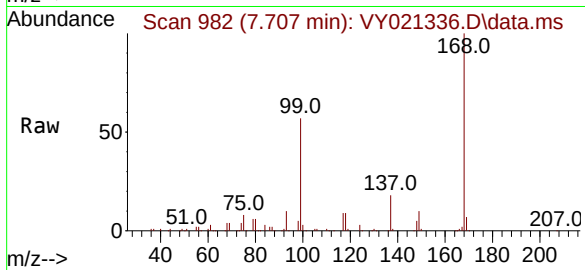




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

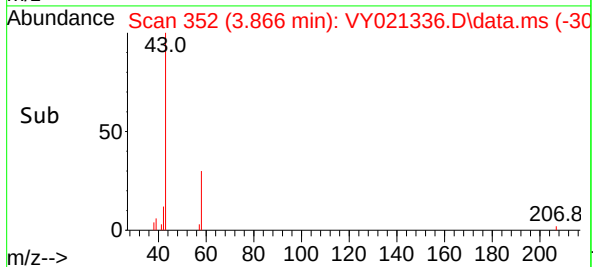
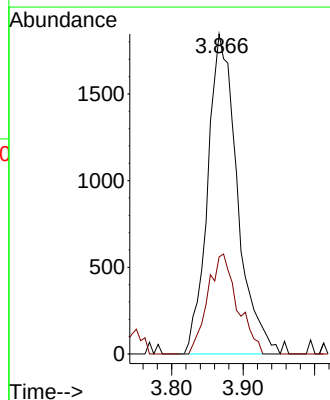
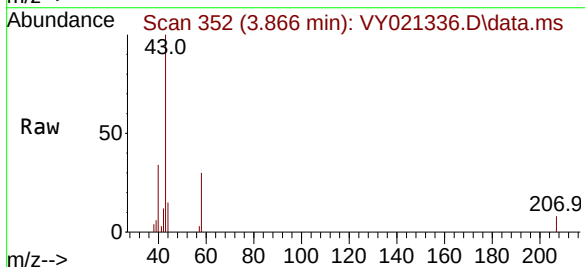
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

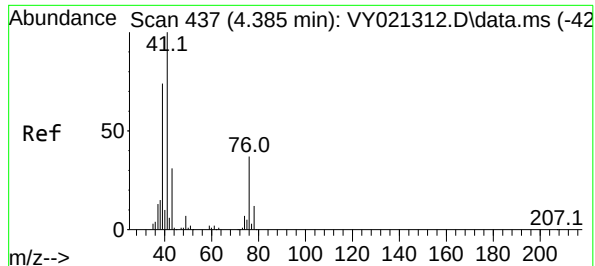
Tgt Ion:168 Resp: 198272
Ion Ratio Lower Upper
168 100
99 57.4 47.1 70.7



#16
Acetone
Concen: 12.344 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 5326
Ion Ratio Lower Upper
43 100
58 30.3 23.5 35.3





#18

Methyl Acetate

Concen: 1.335 ug/l

RT: 4.391 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

Instrument :

MSVOA_Y

ClientSampleId :

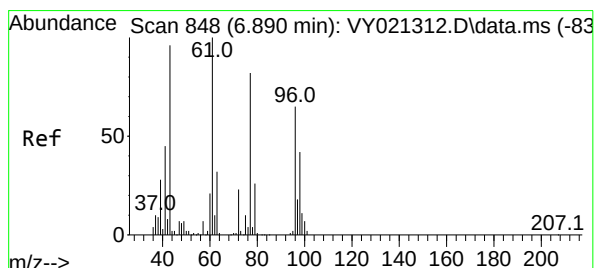
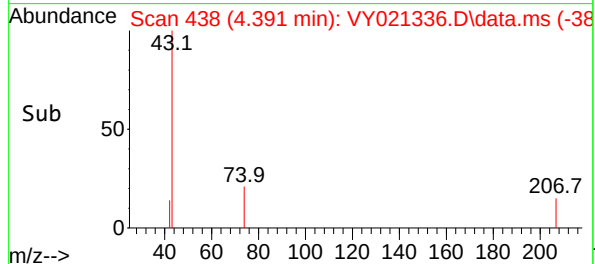
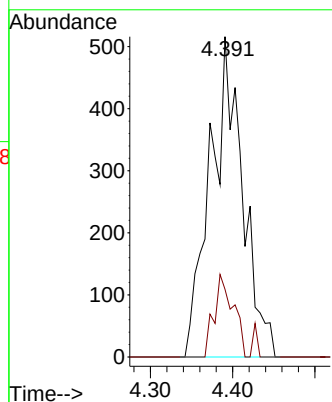
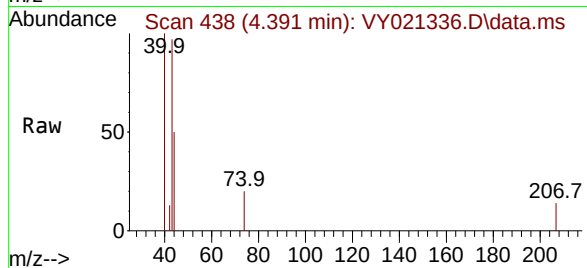
B-163-SB01

Tgt Ion: 43 Resp: 1408

Ion Ratio Lower Upper

43 100

74 15.3 17.7 26.5#



#25

2-Butanone

Concen: 2.142 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.012 min

Lab File: VY021336.D

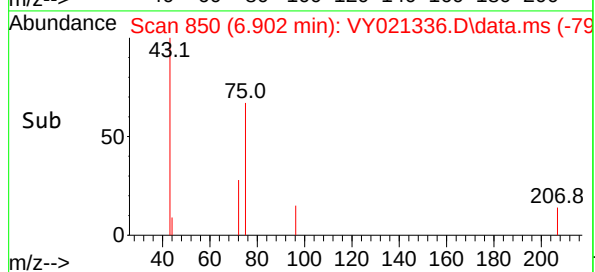
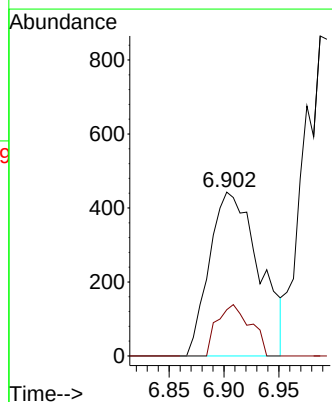
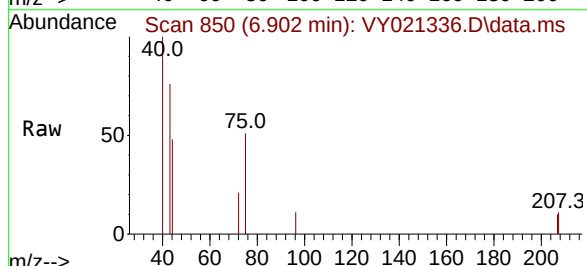
Acq: 26 Feb 2025 17:01

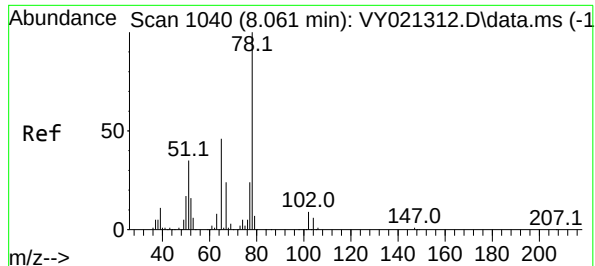
Tgt Ion: 43 Resp: 1395

Ion Ratio Lower Upper

43 100

72 28.2 19.0 28.6





#33

1,2-Dichloroethane-d4

Concen: 55.101 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

Instrument :

MSVOA_Y

ClientSampleId :

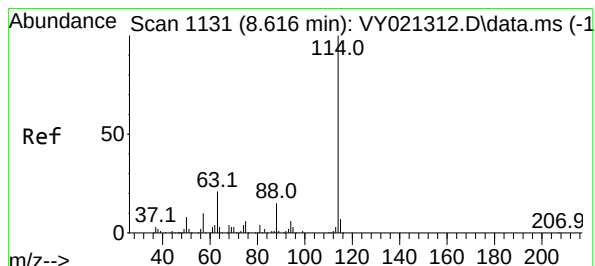
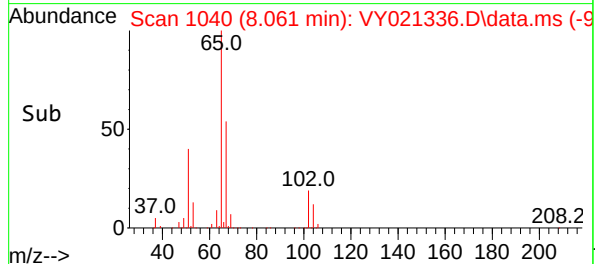
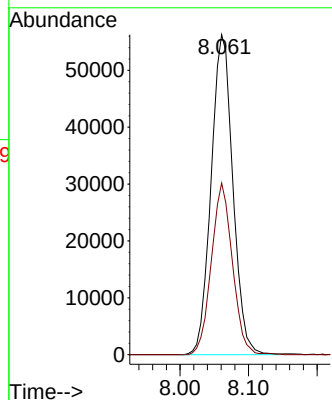
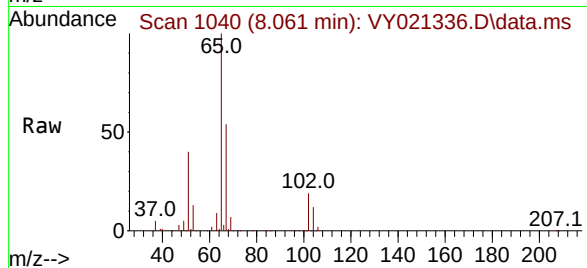
B-163-SB01

Tgt Ion: 65 Resp: 123934

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

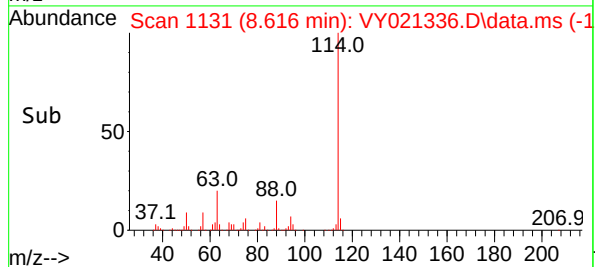
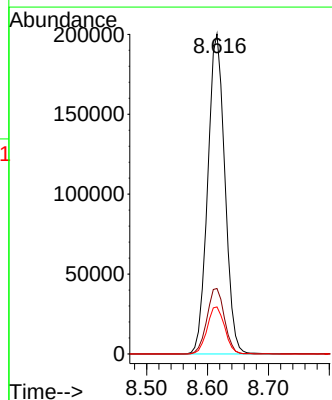
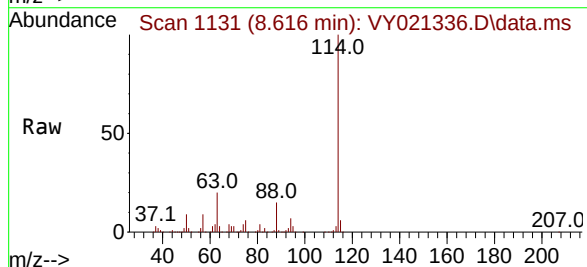
Tgt Ion: 114 Resp: 390694

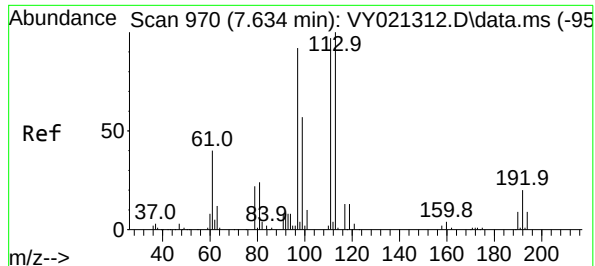
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.2

88 14.7 0.0 29.8





#35

Dibromofluoromethane

Concen: 50.340 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021336.D

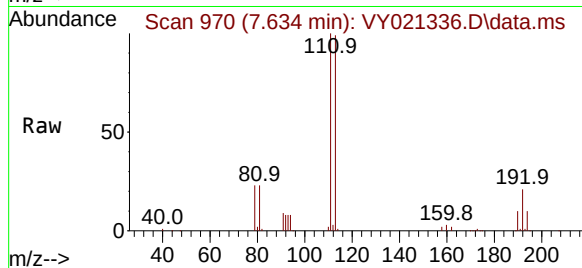
Acq: 26 Feb 2025 17:01

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB01



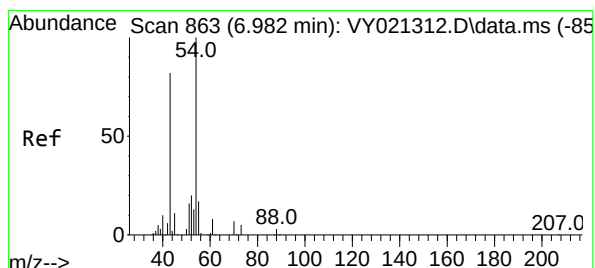
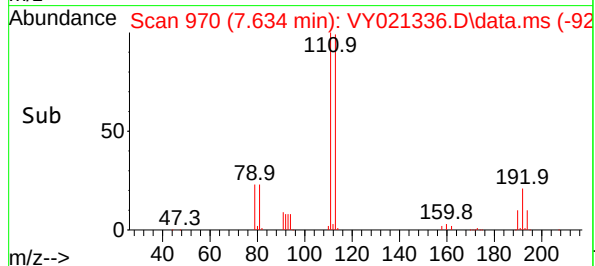
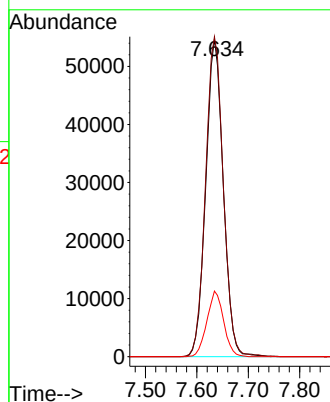
Tgt Ion:113 Resp: 128943

Ion Ratio Lower Upper

113 100

111 102.5 81.0 121.6

192 19.8 15.8 23.8



#37

Ethyl Acetate

Concen: 1.235 ug/l

RT: 6.988 min Scan# 864

Delta R.T. 0.006 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

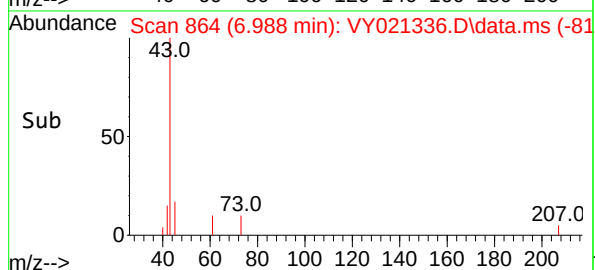
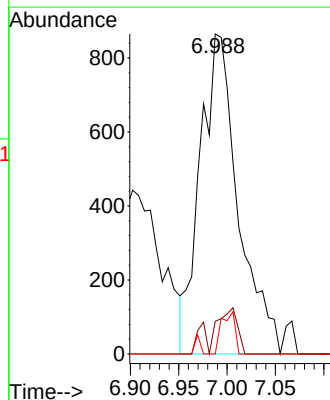
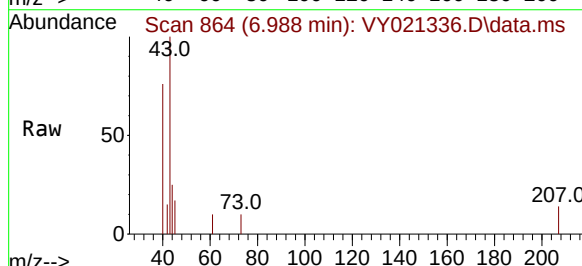
Tgt Ion: 43 Resp: 2363

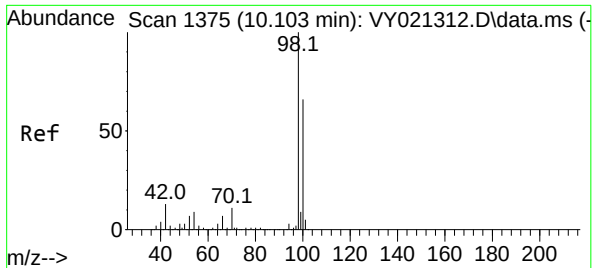
Ion Ratio Lower Upper

43 100

61 7.4 10.4 15.6#

70 4.7 7.5 11.3#

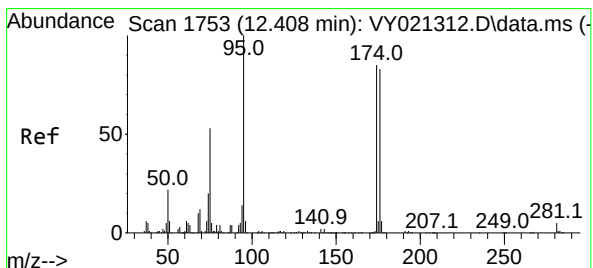
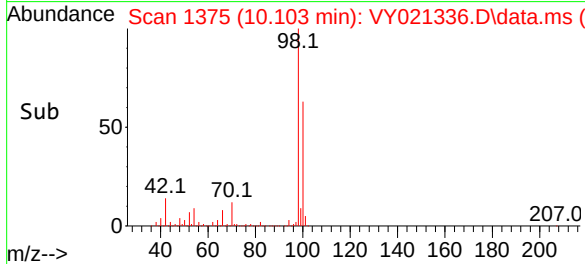
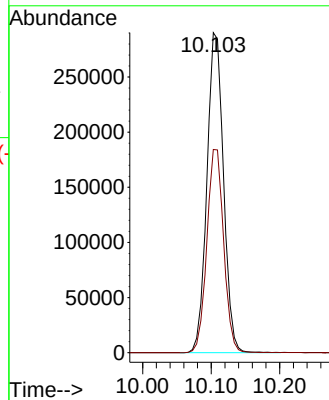
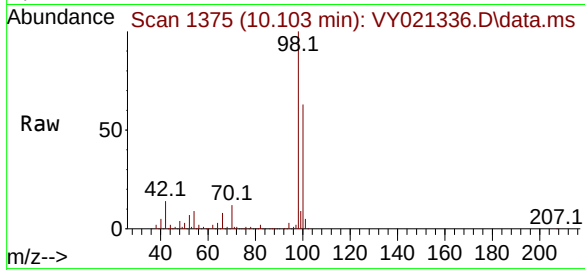




#50
Toluene-d8
Concen: 49.456 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

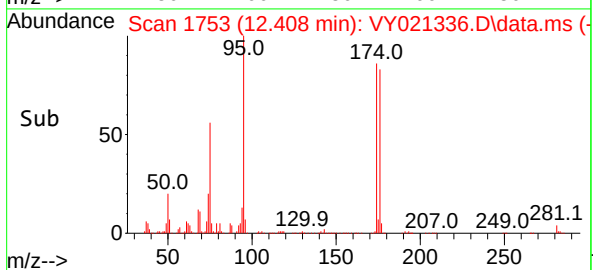
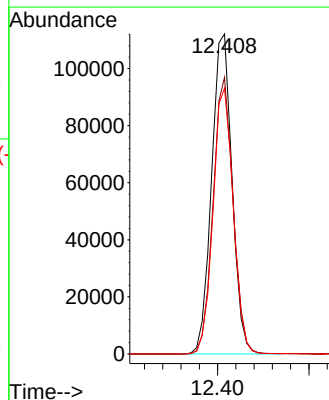
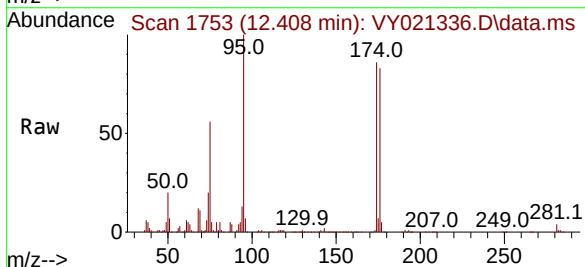
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

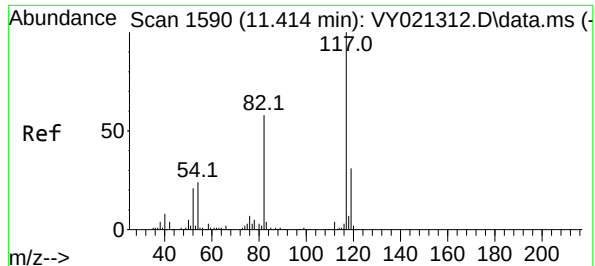
Tgt Ion: 98 Resp: 489572
Ion Ratio Lower Upper
98 100
100 64.2 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 52.204 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 95 Resp: 173918
Ion Ratio Lower Upper
95 100
174 84.4 0.0 168.0
176 82.3 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB01

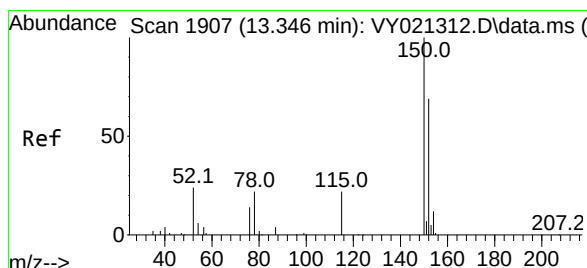
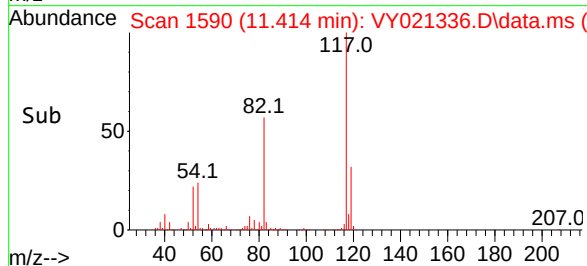
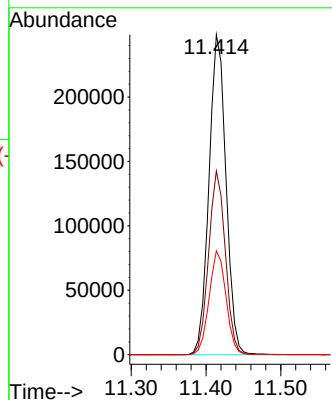
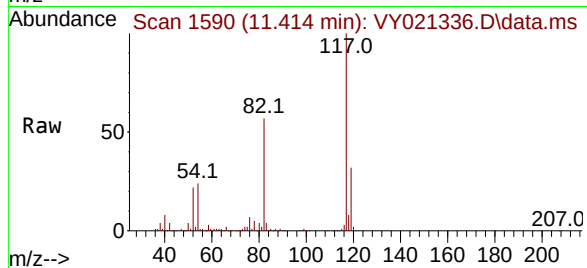
Tgt Ion:117 Resp: 393465

Ion Ratio Lower Upper

117 100

82 57.4 46.2 69.4

119 32.5 24.9 37.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021336.D

Acq: 26 Feb 2025 17:01

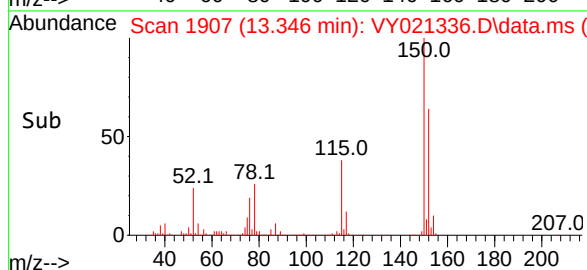
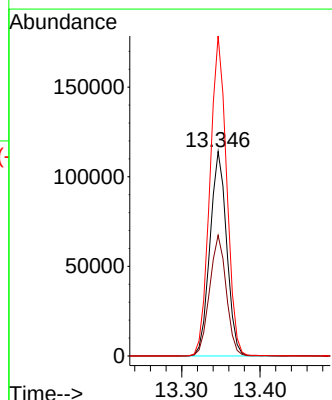
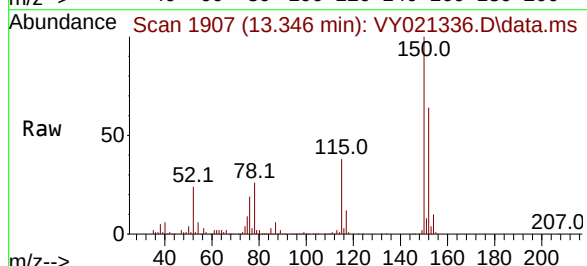
Tgt Ion:152 Resp: 168735

Ion Ratio Lower Upper

152 100

115 58.8 29.3 88.0

150 156.7 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M

Title : SW846 8260

Signal : TIC: VY021336.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.330	252	264	281	rBV	35198	119874	1.14%	0.683%
2	7.634	960	970	976	rBV	186272	439695	4.20%	2.505%
3	7.707	976	982	996	rVB	267458	599616	5.72%	3.416%
4	8.061	1030	1040	1053	rBV	157246	346867	3.31%	1.976%
5	8.616	1118	1131	1142	rBV	470699	936679	8.94%	5.336%
6	10.103	1367	1375	1391	rBV	780448	1333630	12.73%	7.597%
7	10.493	1432	1439	1459	rBV	6818516	10478159	100.00%	59.688%
8	11.414	1582	1590	1604	rBV	797816	1263307	12.06%	7.196%
9	12.408	1744	1753	1764	rVB	611973	975196	9.31%	5.555%
10	13.346	1900	1907	1916	rVB	712432	1061955	10.13%	6.049%

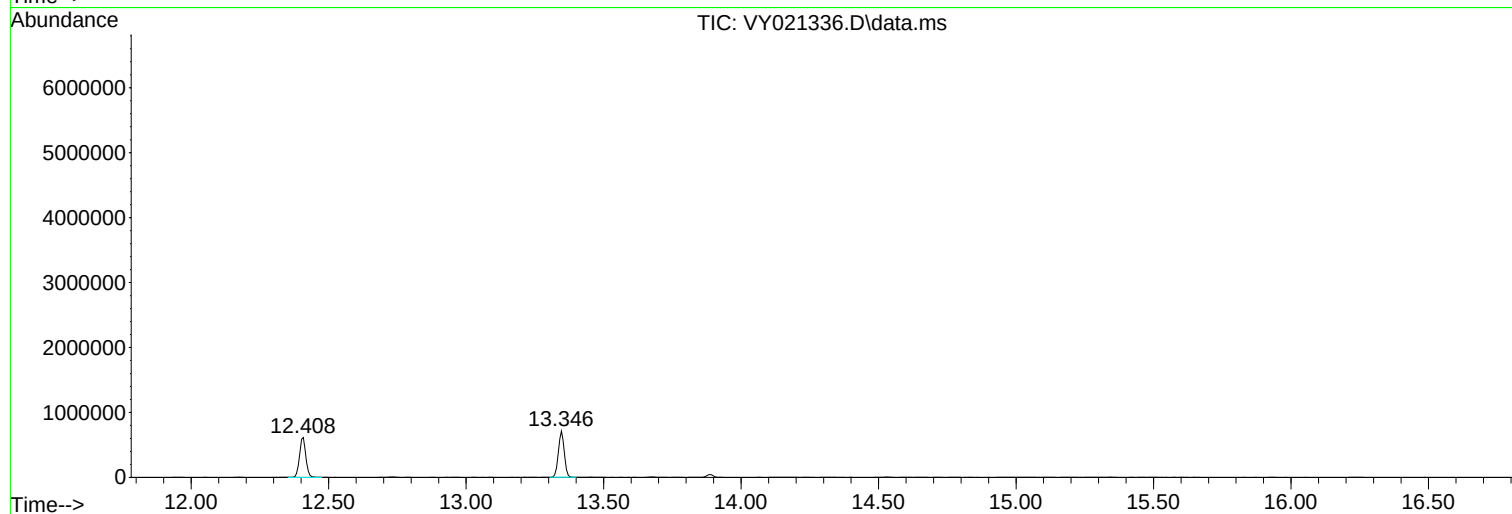
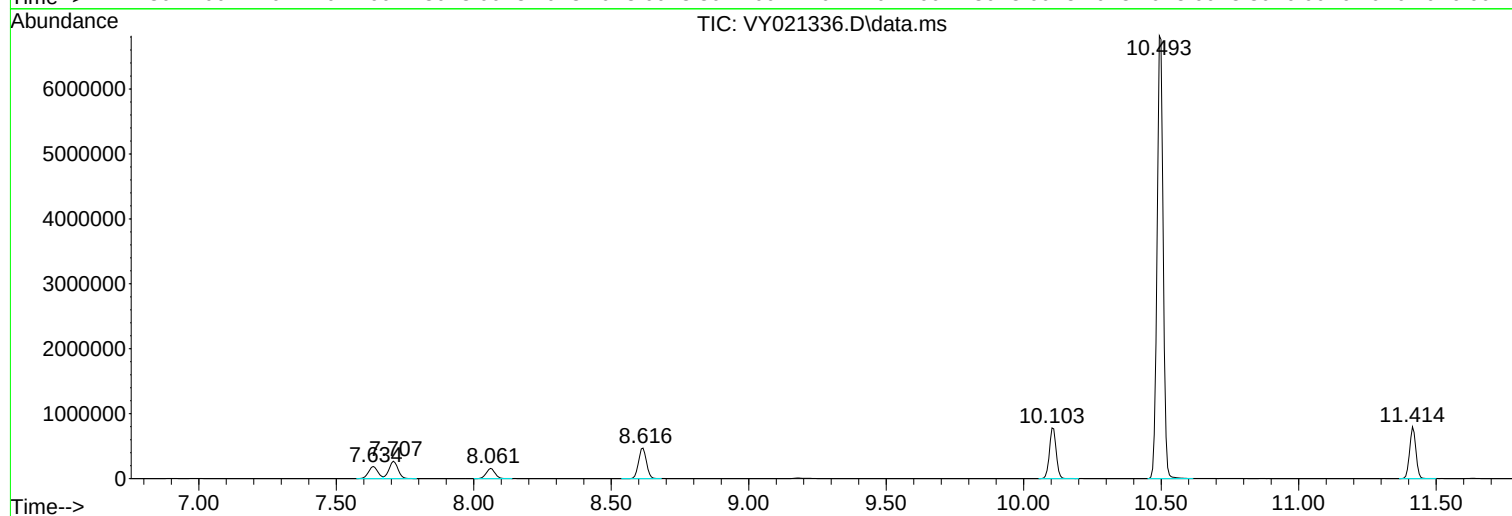
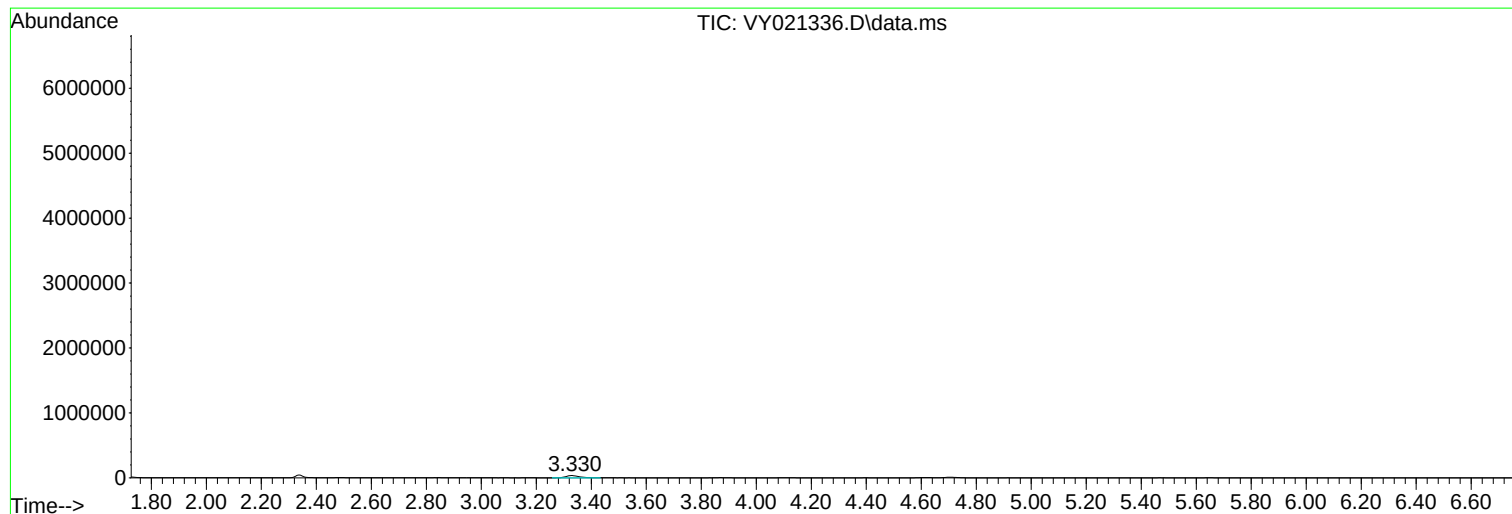
Sum of corrected areas: 17554978

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

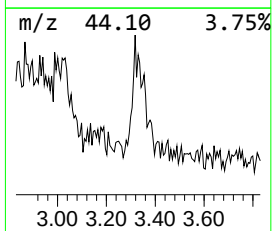
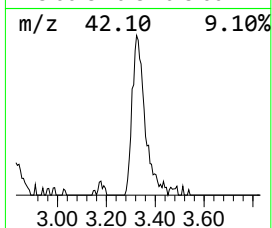
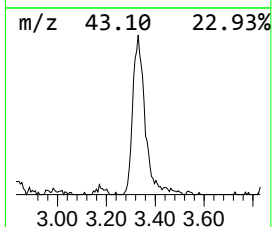
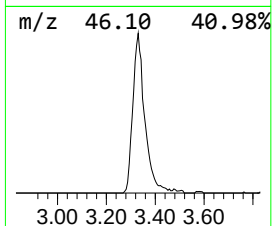
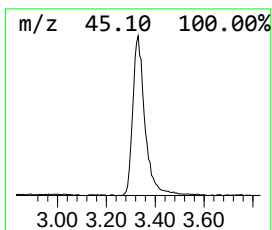
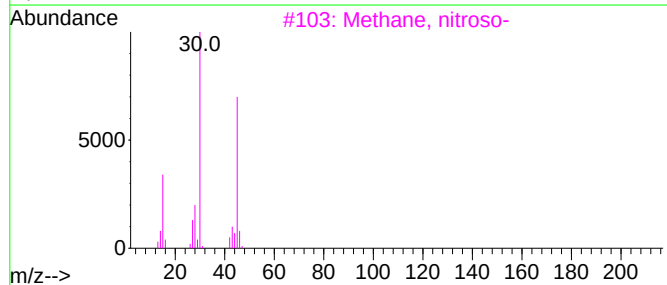
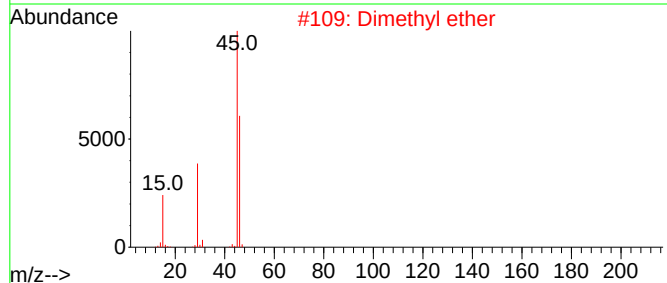
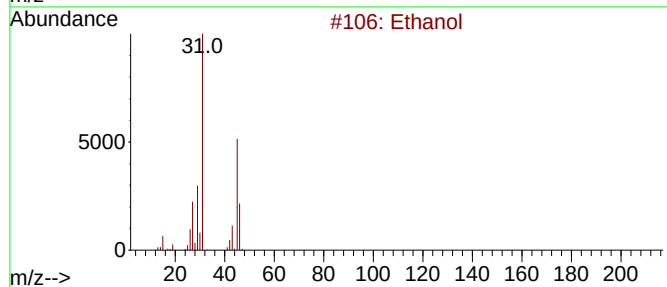
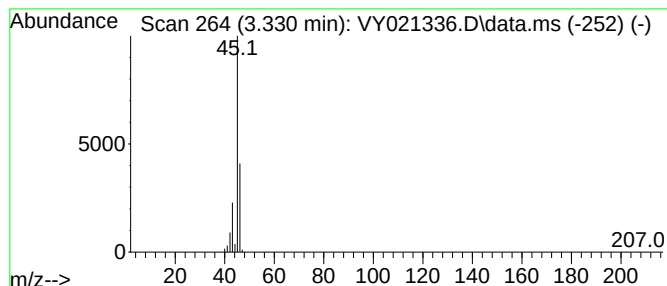
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 1 Ethanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.330	10.00 ug/l	119874	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol			46	C2H6O	000064-17-5	74
2	Dimethyl ether			46	C2H6O	000115-10-6	9
3	Methane, nitroso-			45	CH3NO	000865-40-7	4
4	Formic acid			46	CH2O2	000064-18-6	4
5	Oxalic acid			90	C2H2O4	000144-62-7	4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

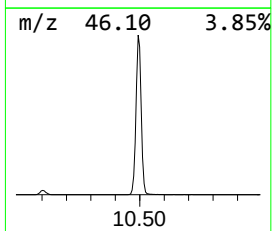
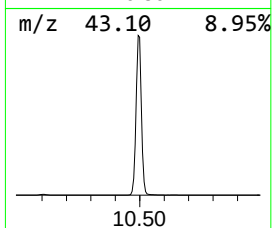
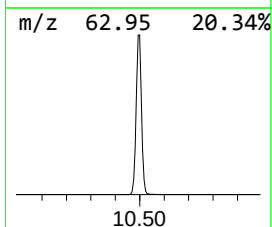
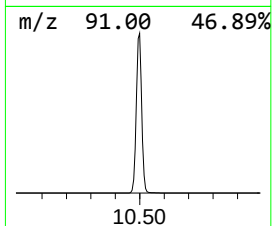
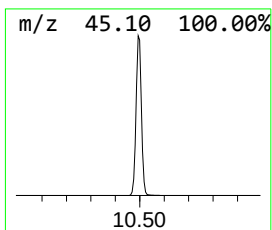
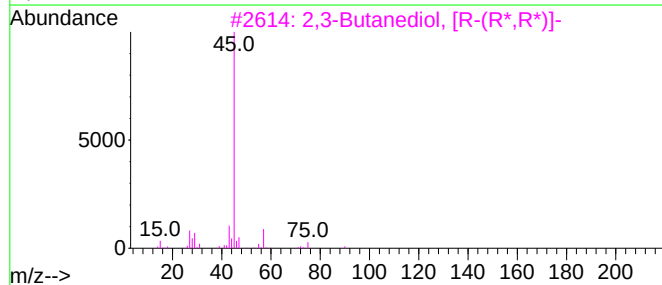
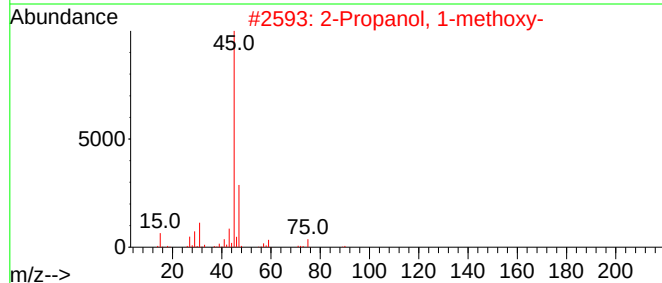
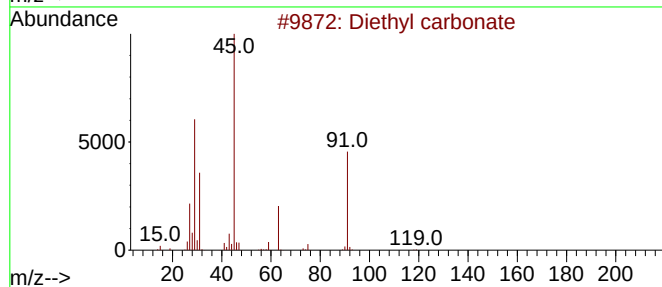
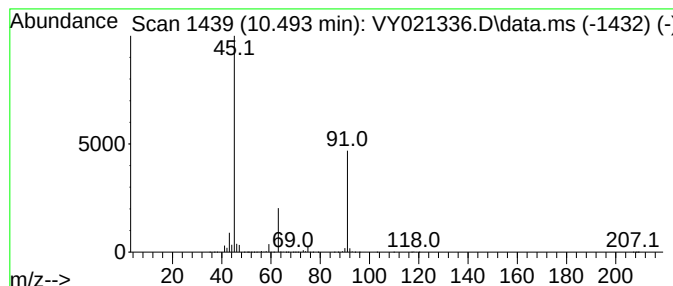
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 2 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	414.71 ug/l	10478200	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Diethyl carbonate	118	C5H10O3	000105-58-8	83
2			2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	36
3			2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4			2,3-Butanediol	90	C4H10O2	000513-85-9	9
5			Butane, 1-methoxy-	88	C5H12O	000628-28-4	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Ethanol	3.330	10.0	ug/l	119874	1	7.707	599616	50.0
Diethyl carbonate	10.493	414.7	ug/l	10478200	3	11.414	1263310	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 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
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.96	U	0.96	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.74	U	0.74	4.70	ug/Kg
67-64-1	Acetone	70.4		5.90	23.7	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	2.60	J	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	23.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.58	U	0.58	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.7	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.7	ug/Kg
124-48-1	Dibromochloromethane	0.62	U	0.62	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.75	U	0.75	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.50	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.76	U	0.76	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.75	U	0.75	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	53.7	70 (50) - 130 (163)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2	70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	46.1	70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.4	70 (29) - 130 (146)	71%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	249000	7.707
540-36-3	1,4-Difluorobenzene	483000	8.616
3114-55-4	Chlorobenzene-d5	394000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 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
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	16.4	J		2.84	ug/Kg
000287-92-3	Cyclopentane	110	J		4.70	ug/Kg
75-65-0	Tert butyl alcohol	61.1	J		4.85	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\VY022625\
 Data File : VY021335.D
 Acq On : 26 Feb 2025 16:37
 Operator : SY/MD
 Sample : Q1415-02
 Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-172-SB01

Quant Time: Feb 27 00:39:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

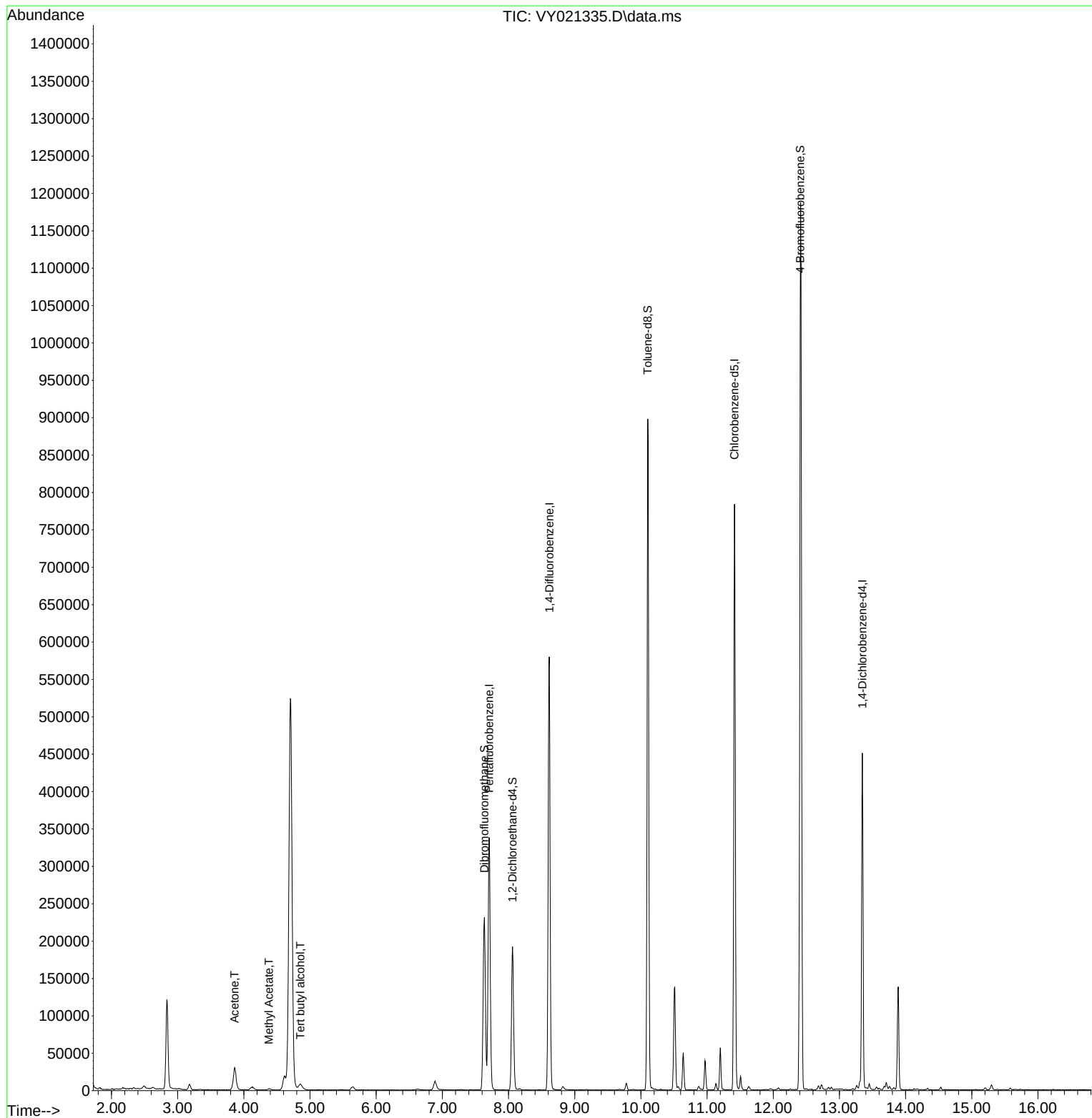
Internal Standards						
1) Pentafluorobenzene	7.707	168	249275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	482876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151894	53.714	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.420%	
35) Dibromofluoromethane	7.634	113	161939	51.153	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.300%	
50) Toluene-d8	10.103	98	564176	46.112	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 92.220%	
62) 4-Bromofluorobenzene	12.408	95	145923	35.439	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 70.880%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	14036	64.530	ug/l	100
16) Acetone	3.860	43	40345	74.377	ug/l	94
18) Methyl Acetate	4.379	43	3594	2.711	ug/l	94

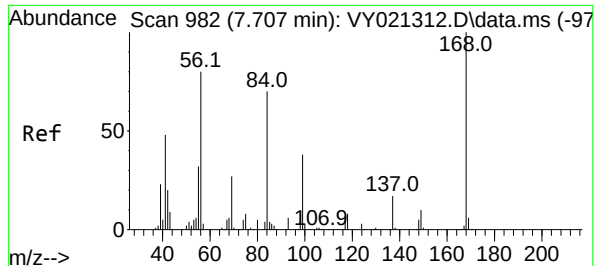
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY0222625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Time: Feb 27 00:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

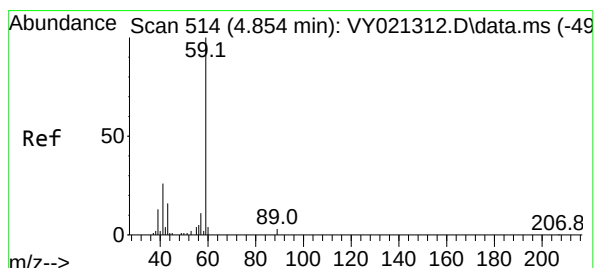
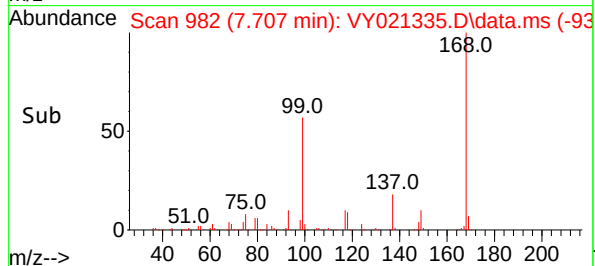
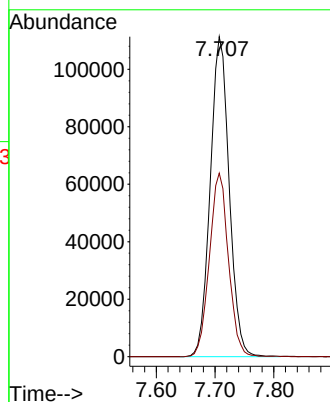
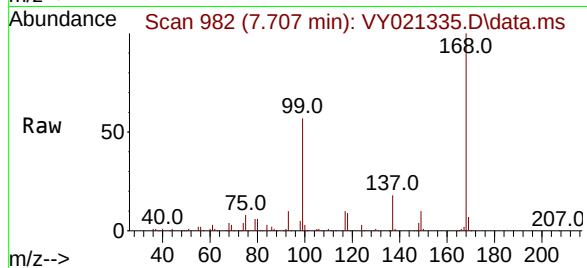




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

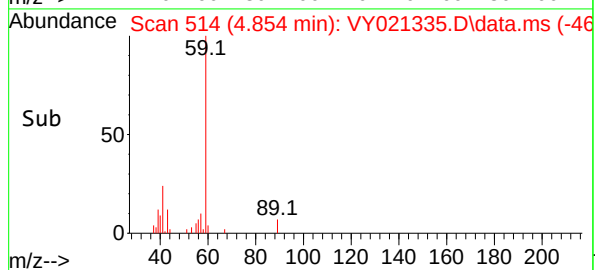
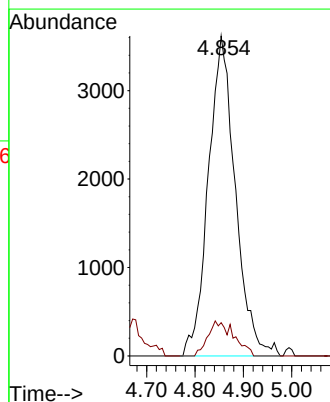
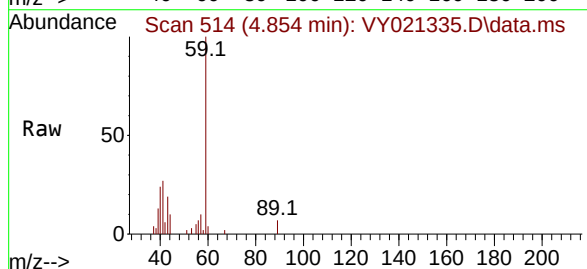
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

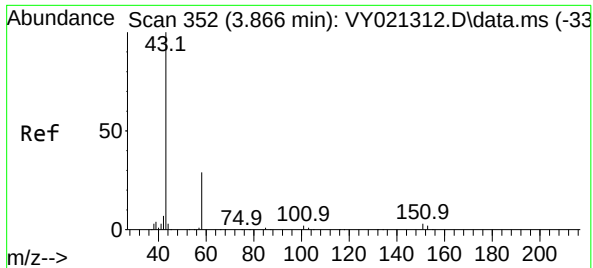
Tgt Ion:168 Resp: 249275
Ion Ratio Lower Upper
168 100
99 57.4 47.1 70.7



#11
Tert butyl alcohol
Concen: 64.530 ug/l
RT: 4.854 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 59 Resp: 14036
Ion Ratio Lower Upper
59 100
57 10.5 8.3 12.5

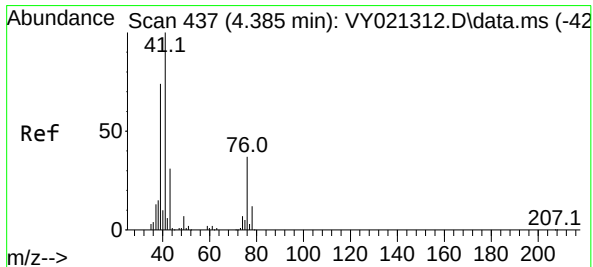
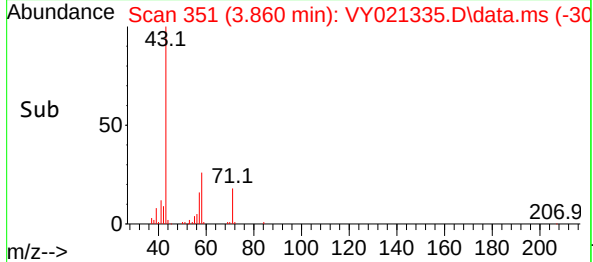
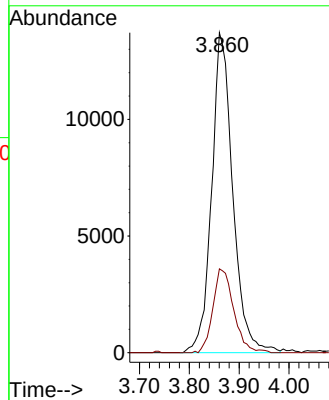
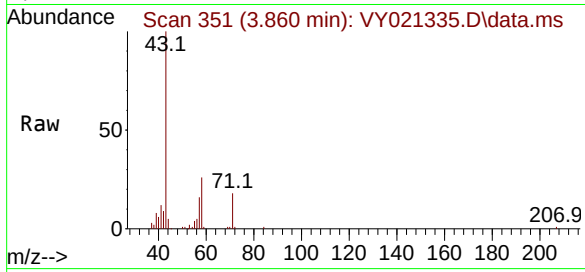




#16
Acetone
Concen: 74.377 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

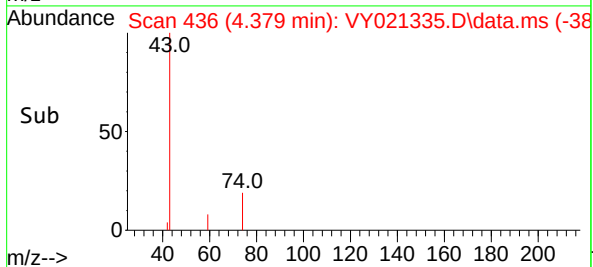
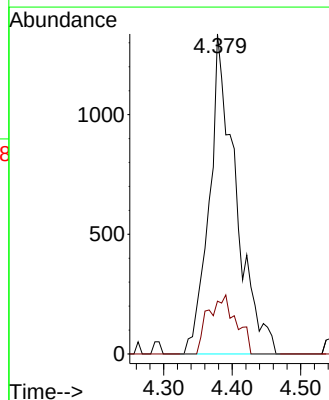
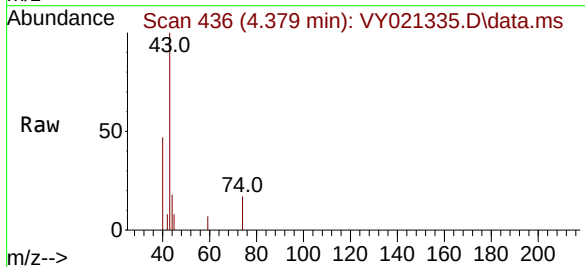
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

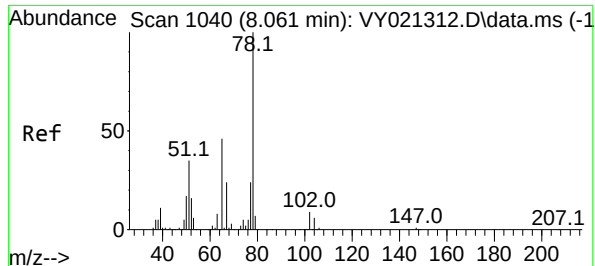
Tgt Ion: 43 Resp: 40345
Ion Ratio Lower Upper
43 100
58 26.2 23.5 35.3



#18
Methyl Acetate
Concen: 2.711 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 43 Resp: 3594
Ion Ratio Lower Upper
43 100
74 19.4 17.7 26.5





#33

1,2-Dichloroethane-d4

Concen: 53.714 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY021335.D

Acq: 26 Feb 2025 16:37

Instrument :

MSVOA_Y

ClientSampleId :

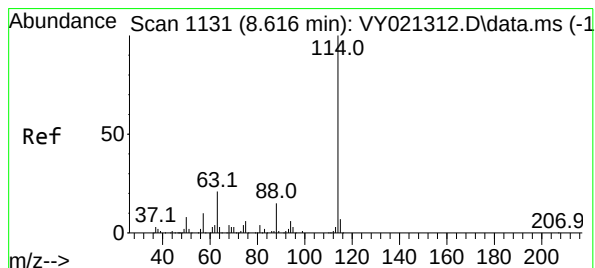
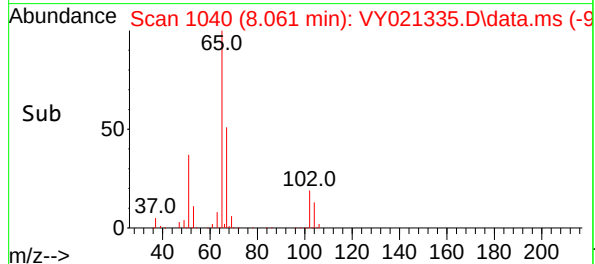
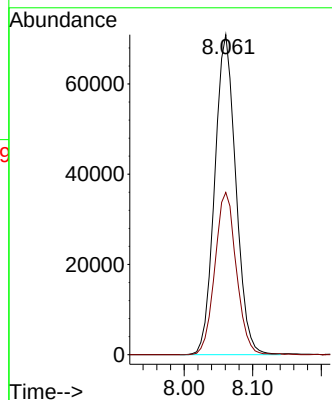
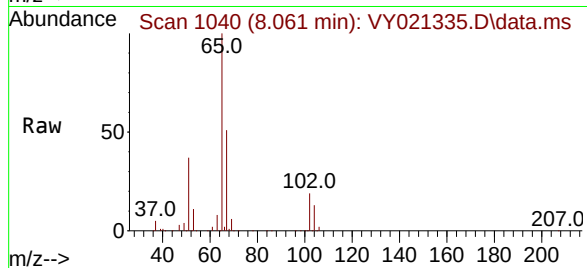
B-172-SB01

Tgt Ion: 65 Resp: 151894

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021335.D

Acq: 26 Feb 2025 16:37

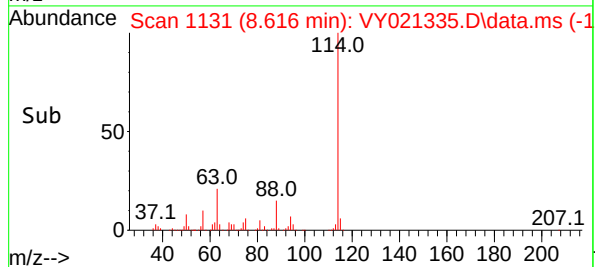
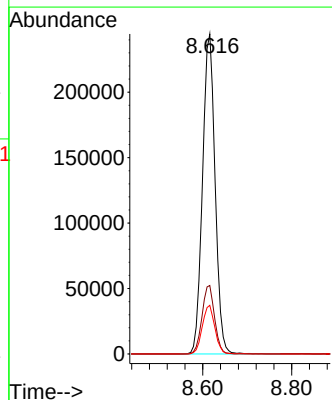
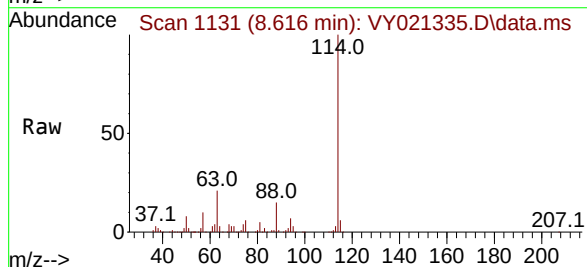
Tgt Ion: 114 Resp: 482876

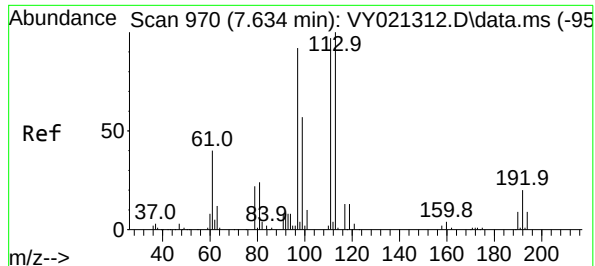
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.2

88 15.2 0.0 29.8





#35

Dibromofluoromethane

Concen: 51.153 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021335.D

Acq: 26 Feb 2025 16:37

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB01

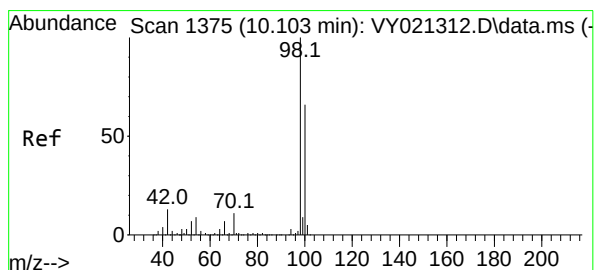
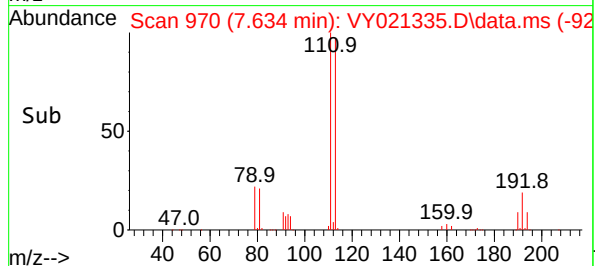
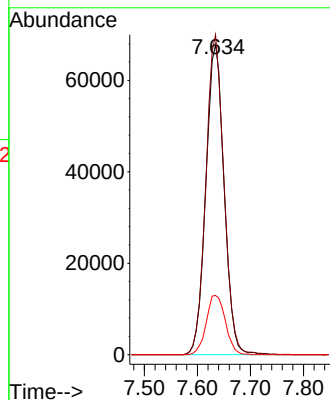
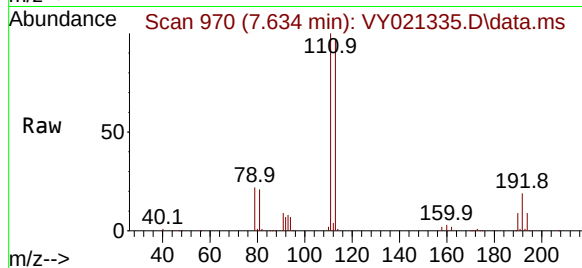
Tgt Ion:113 Resp: 161939

Ion Ratio Lower Upper

113 100

111 102.2 81.0 121.6

192 20.1 15.8 23.8



#50

Toluene-d8

Concen: 46.112 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY021335.D

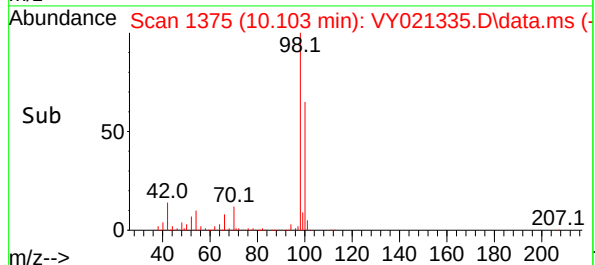
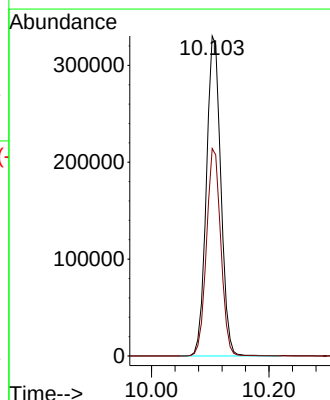
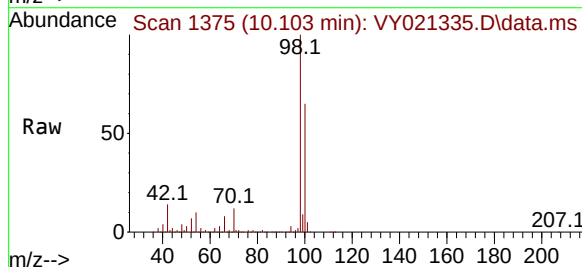
Acq: 26 Feb 2025 16:37

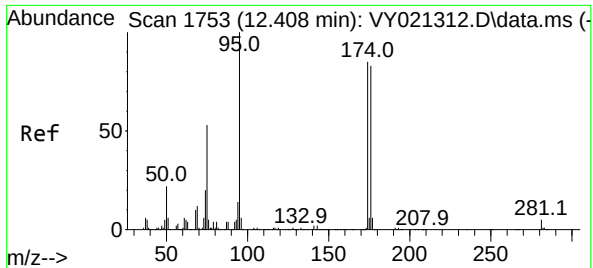
Tgt Ion: 98 Resp: 564176

Ion Ratio Lower Upper

98 100

100 64.2 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 35.439 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY021335.D

Acq: 26 Feb 2025 16:37

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB01

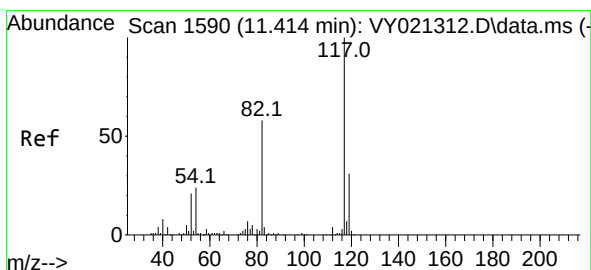
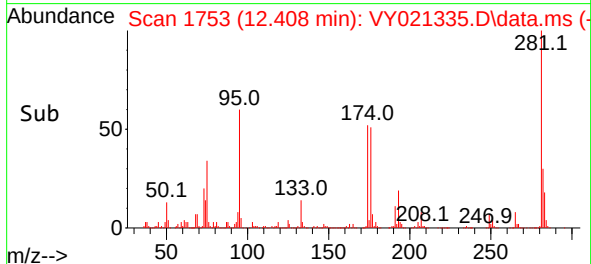
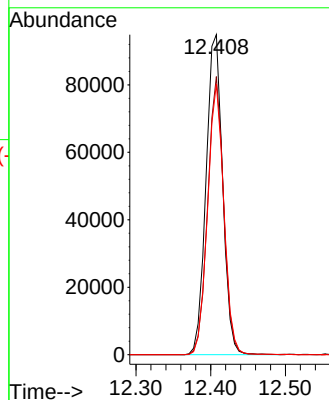
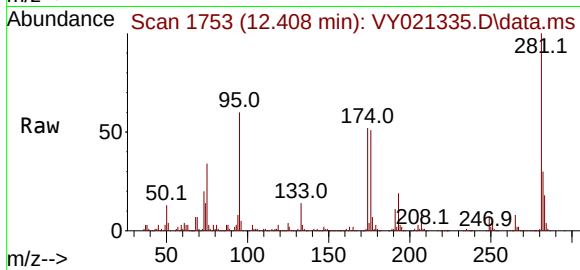
Tgt Ion: 95 Resp: 145923

Ion Ratio Lower Upper

95 100

174 83.9 0.0 168.0

176 83.0 0.0 162.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY021335.D

Acq: 26 Feb 2025 16:37

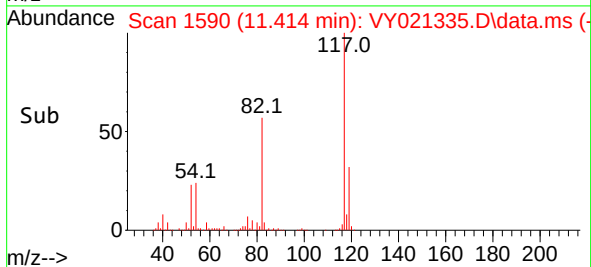
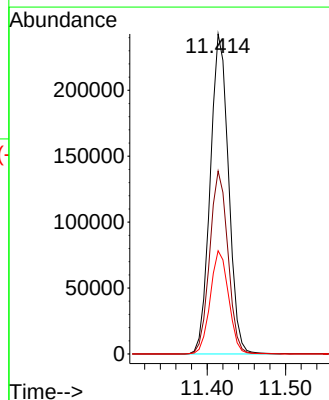
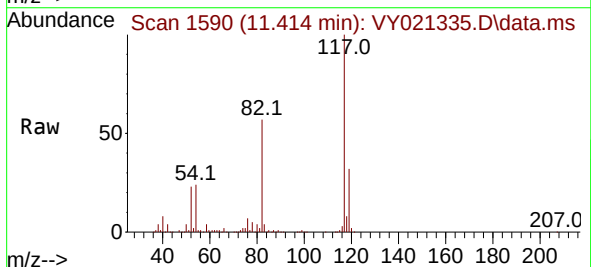
Tgt Ion: 117 Resp: 393781

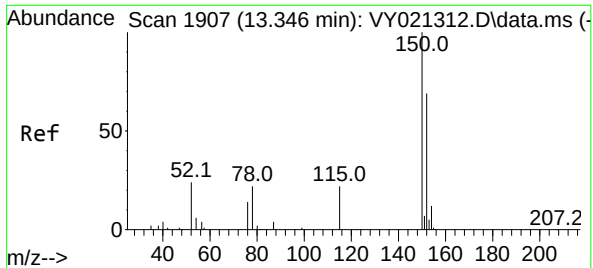
Ion Ratio Lower Upper

117 100

82 57.1 46.2 69.4

119 32.3 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021335.D

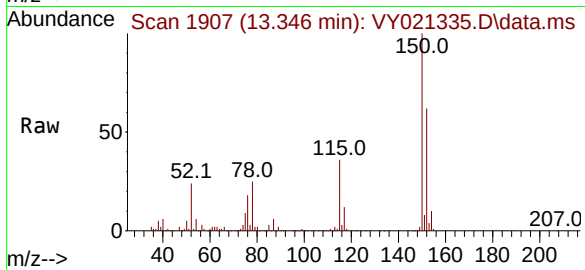
Acq: 26 Feb 2025 16:37

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB01



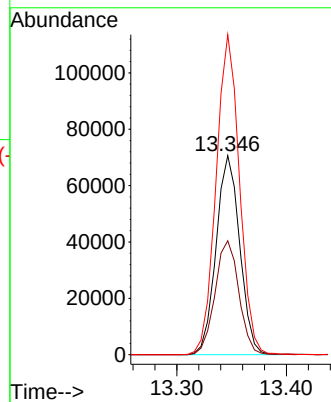
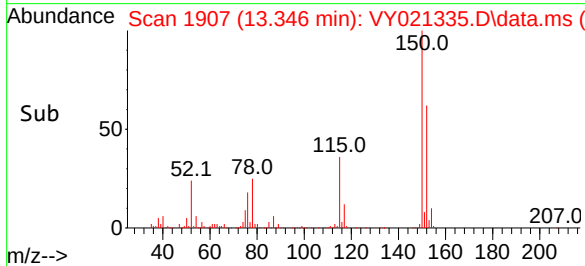
Tgt Ion:152 Resp: 105850

Ion Ratio Lower Upper

152 100

115 57.9 29.3 88.0

150 159.3 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021335.D
 Acq On : 26 Feb 2025 16:37
 Operator : SY/MD
 Sample : Q1415-02
 Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-172-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\82Y022525S.M

Title : SW846 8260

Signal : TIC: VY021335.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.836	174	183	194	rBV	119277	261692	11.74%	2.263%
2	3.860	339	351	367	rBV3	29716	90674	4.07%	0.784%
3	4.610	463	474	477	rBV4	18421	48701	2.18%	0.421%
4	4.702	478	489	507	rVV	522947	1773885	79.58%	15.338%
5	4.854	507	514	530	rVB3	7818	31167	1.40%	0.269%
6	6.890	838	848	859	rBV2	12071	35528	1.59%	0.307%
7	7.634	958	970	976	rBV	230749	555702	24.93%	4.805%
8	7.707	976	982	995	rVB	337484	754826	33.86%	6.527%
9	8.061	1030	1040	1052	rBV	191538	421580	18.91%	3.645%
10	8.616	1122	1131	1141	rBV	579095	1155210	51.83%	9.989%
11	10.103	1367	1375	1384	rBV	897141	1526131	68.47%	13.196%
12	10.512	1433	1442	1448	rBV	137113	260251	11.68%	2.250%
13	10.640	1456	1463	1470	rVB	49716	78860	3.54%	0.682%
14	10.969	1511	1517	1526	rVB	38983	62842	2.82%	0.543%
15	11.200	1549	1555	1561	rBV	56263	83241	3.73%	0.720%
16	11.414	1582	1590	1601	rBV	783401	1272890	57.11%	11.006%
17	11.505	1601	1605	1615	rVB	18108	28522	1.28%	0.247%
18	12.414	1744	1754	1764	rBV2	1186429	2229010	100.00%	19.273%
19	13.346	1901	1907	1915	rVB	447825	673192	30.20%	5.821%
20	13.889	1989	1996	2003	rVB2	137410	221476	9.94%	1.915%

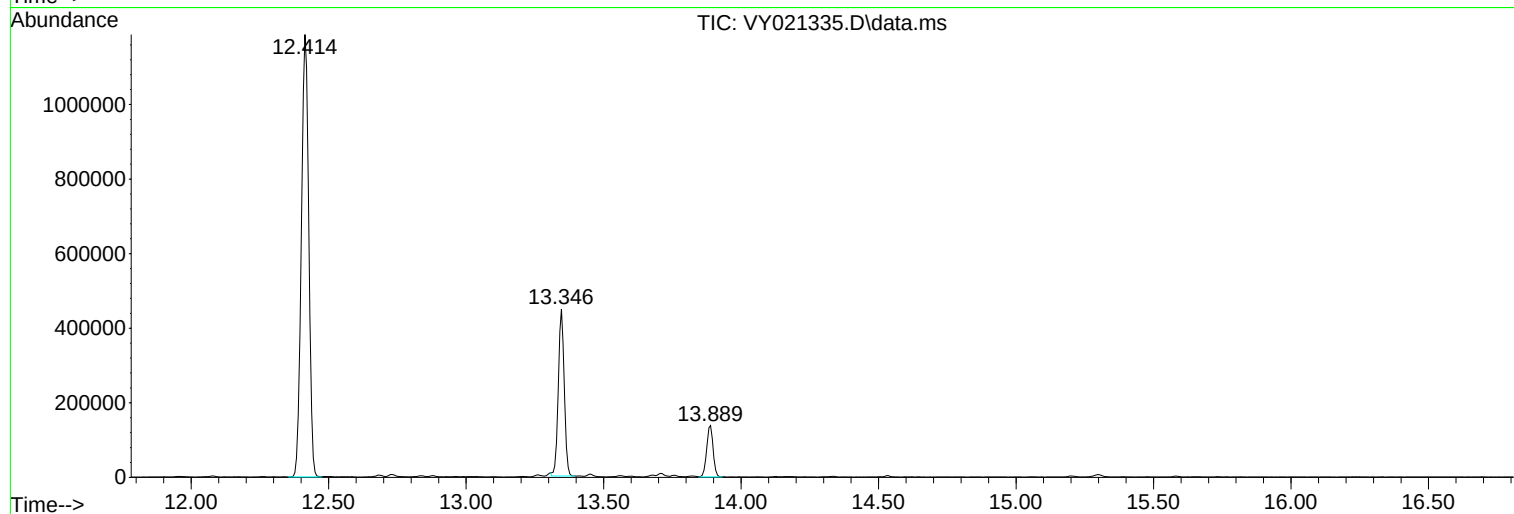
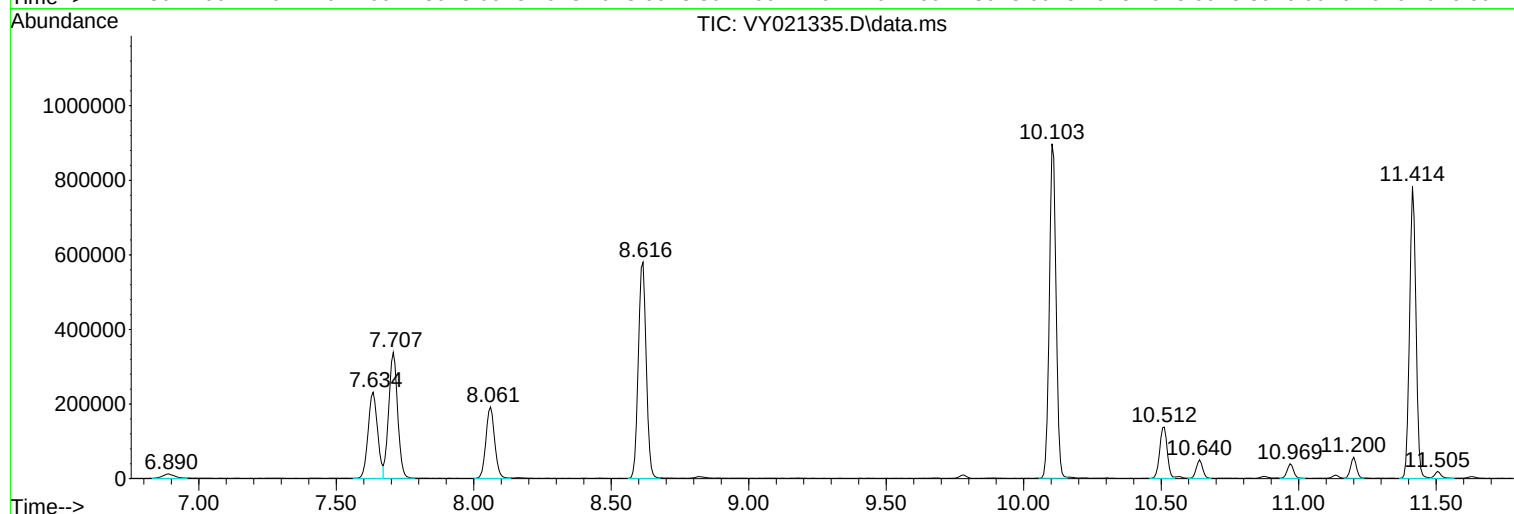
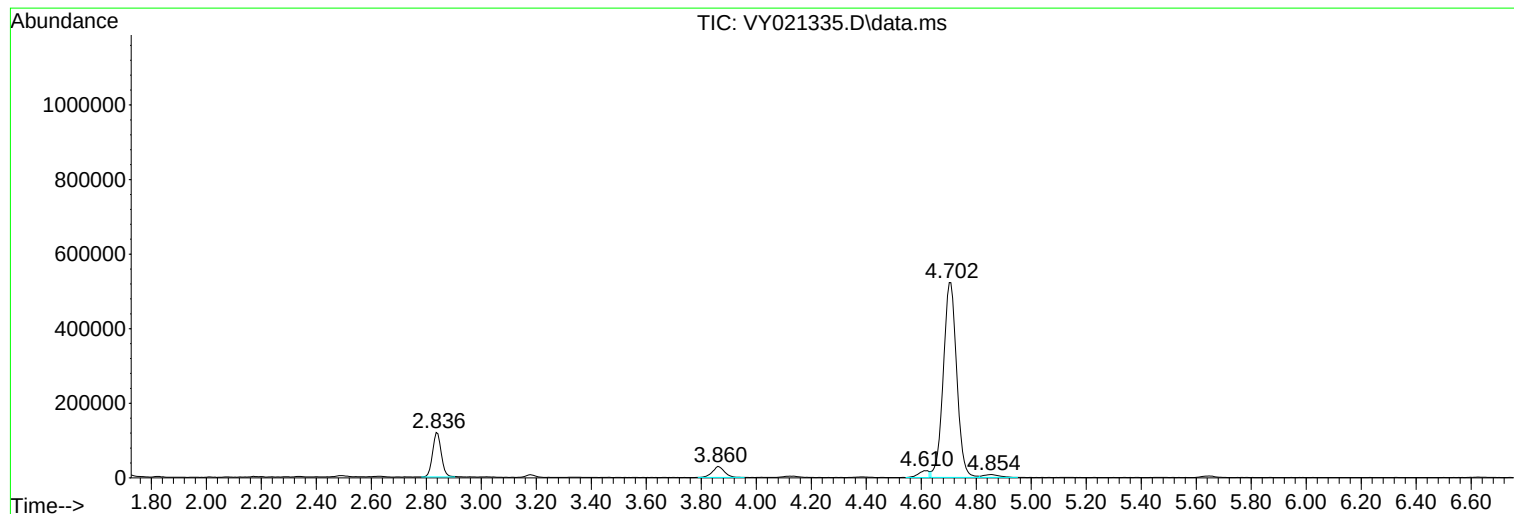
Sum of corrected areas: 11565380

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

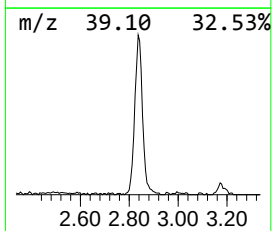
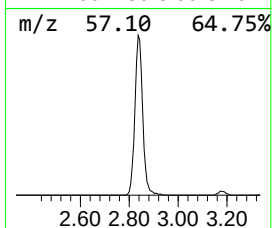
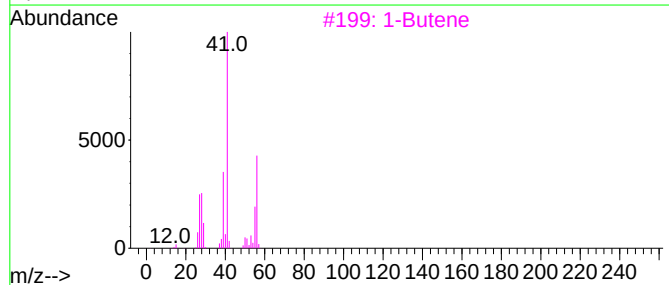
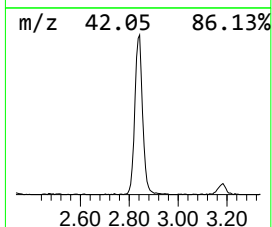
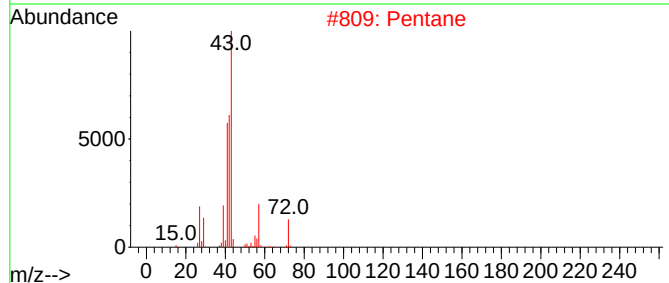
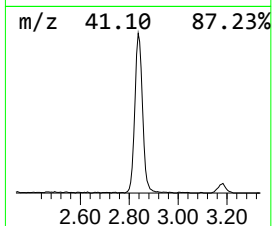
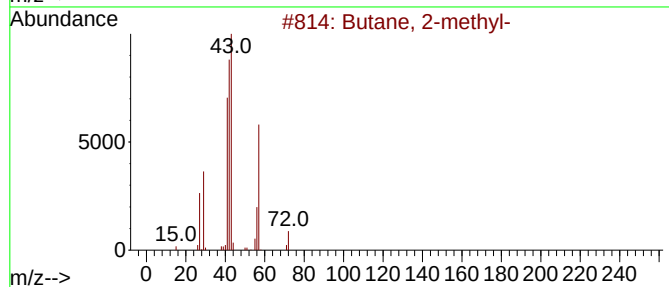
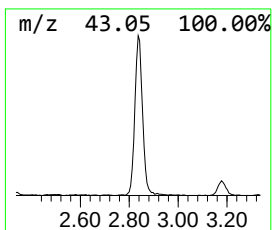
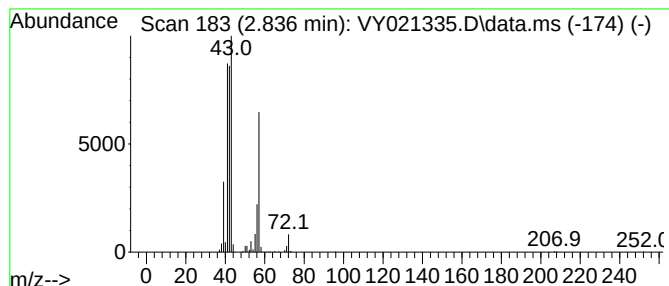
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	17.33 ug/l	261692	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methyl-	72	C5H12	000078-78-4	90
2			Pentane	72	C5H12	000109-66-0	42
3			1-Butene	56	C4H8	000106-98-9	14
4			Butane, 1-isocyano-	83	C5H9N	002769-64-4	12
5			1-Pentene, 4-methyl-	84	C6H12	000691-37-2	12



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

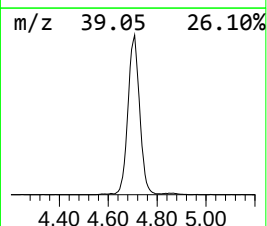
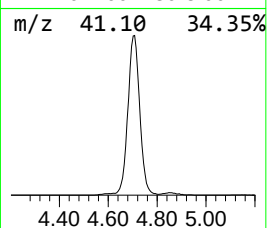
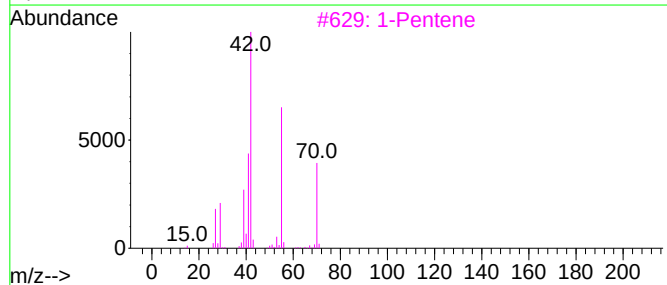
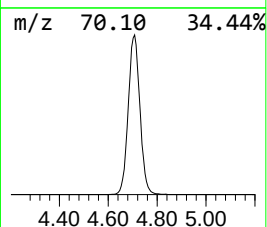
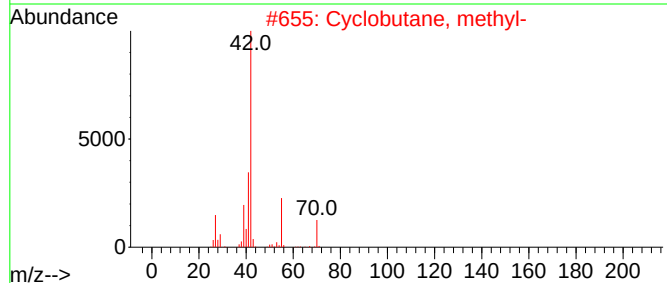
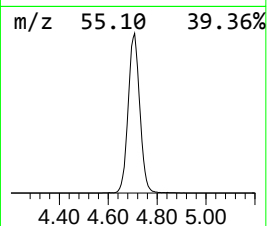
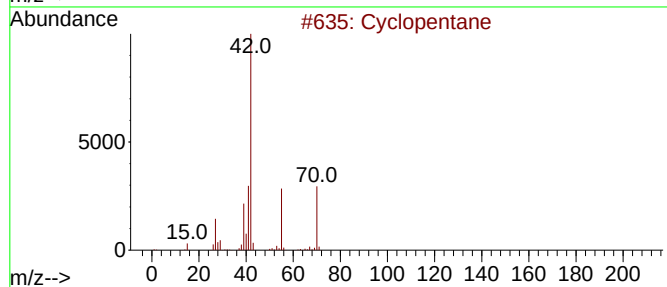
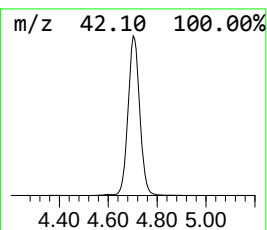
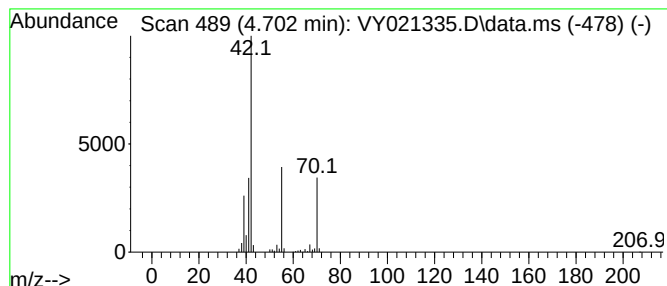
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.702	117.50 ug/l	1773890	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane	70	C5H10	000287-92-3	90
2			Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3			1-Pentene	70	C5H10	000109-67-1	49
4			Cyclopropane, ethyl-	70	C5H10	001191-96-4	9
5			Cyclobutanone	70	C4H6O	001191-95-3	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-methyl-	2.836	17.3	ug/l	261692	1	7.707	754826	50.0
Cyclopentane	4.702	117.5	ug/l	1773890	1	7.707	754826	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.95	U	0.95	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	4.70	ug/Kg
67-64-1	Acetone	64.7		5.90	23.6	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	17.9	J	5.40	23.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.6	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.6	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.40	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.75	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.73	U	0.73	4.70	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	55.4	70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4	70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	50.2	70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3	70 (29) - 130 (146)	113%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	278000	7.707
540-36-3	1,4-Difluorobenzene	557000	8.616
3114-55-4	Chlorobenzene-d5	584000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000105-58-8	Diethyl carbonate	34.2	J		10.5	ug/Kg
	unknown11.938	6.20	J		11.9	ug/Kg
000124-18-5	Decane	21.5	J		12.7	ug/Kg
001678-93-9	Cyclohexane, butyl-	6.00	J		13.2	ug/Kg
001120-21-4	Undecane	22.2	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	5.80	J		14.2	ug/Kg
000112-40-3	Dodecane	17.2	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	6.60	J		14.7	ug/Kg
000629-50-5	Tridecane	9.90	J		15.3	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\VY022625\
 Data File : VY021338.D
 Acq On : 26 Feb 2025 17:48
 Operator : SY/MD
 Sample : Q1415-03
 Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-163-SB02

Quant Time: Feb 27 00:40:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

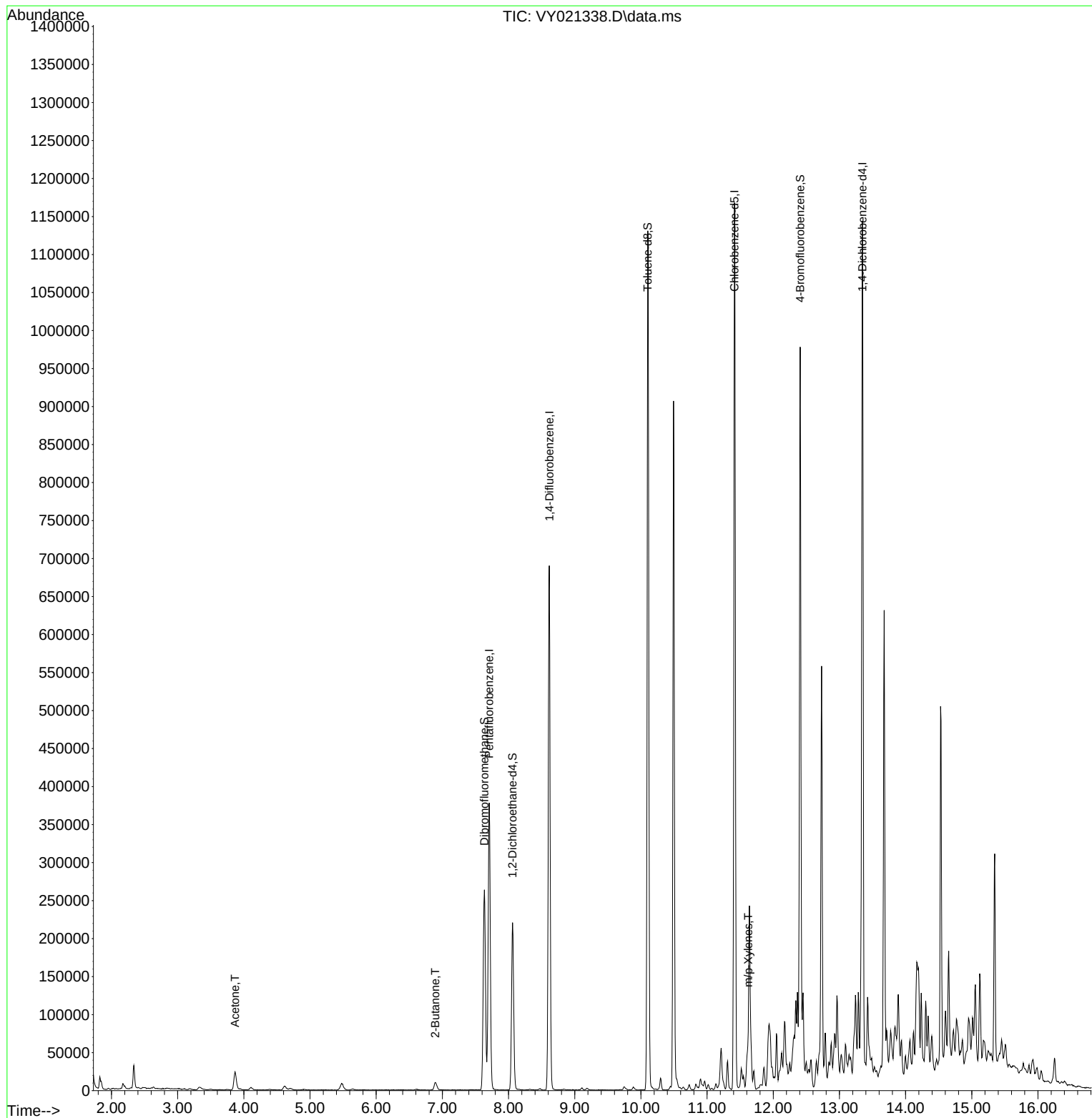
Internal Standards						
1) Pentafluorobenzene	7.707	168	278202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	557389	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	583706	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	249107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174903	55.420	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.840%
35) Dibromofluoromethane	7.634	113	184126	50.386	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.780%
50) Toluene-d8	10.103	98	709070	50.207	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.420%
62) 4-Bromofluorobenzene	12.408	95	267792	56.342	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	112.680%
Target Compounds						Qvalue
16) Acetone	3.866	43	41560	68.650	ug/l	98
25) 2-Butanone	6.890	43	17344	18.983	ug/l	97
68) m/p-Xylenes	11.621	106	10321	1.182	ug/l	98

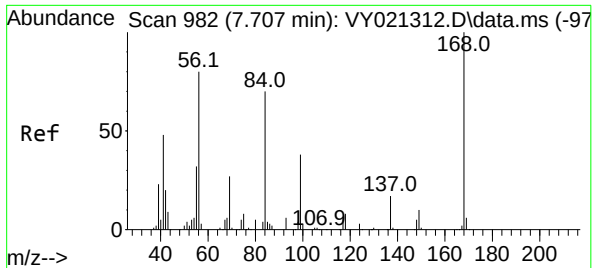
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Time: Feb 27 00:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

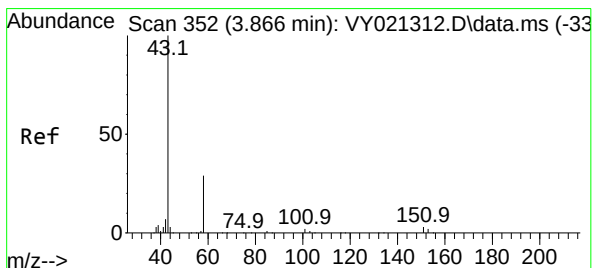
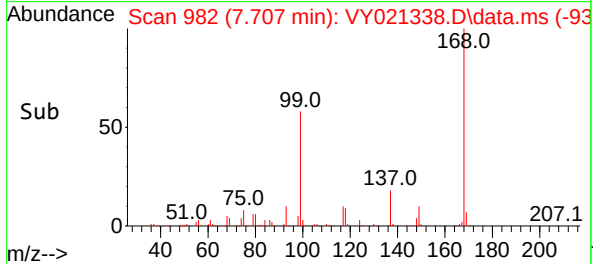
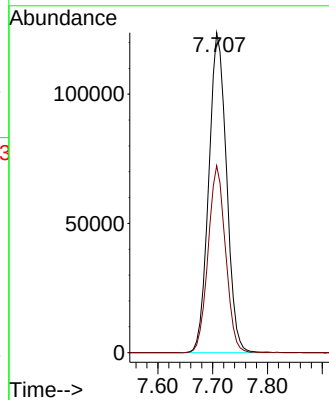
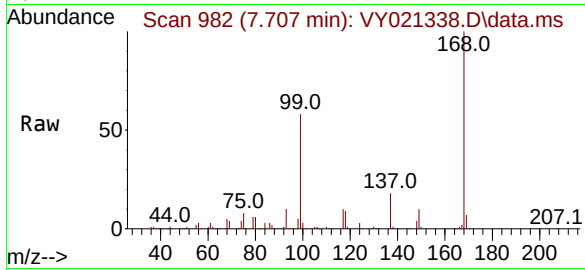




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

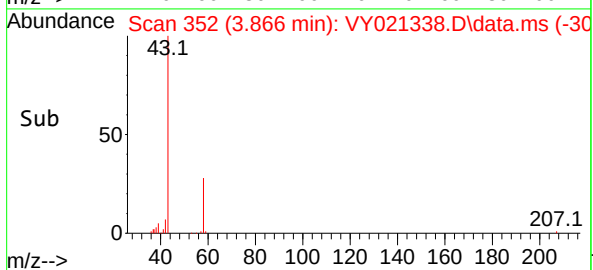
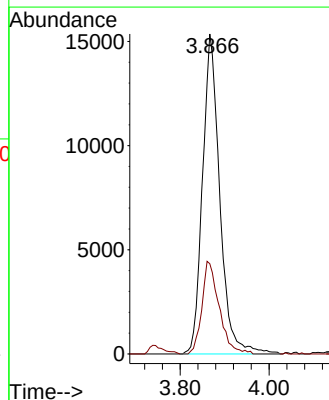
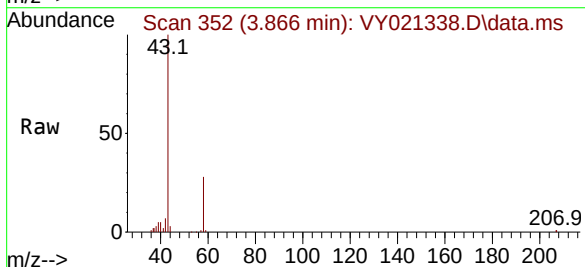
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

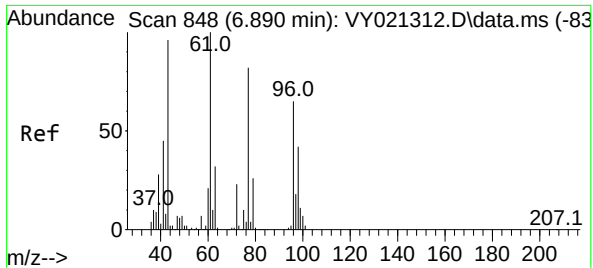
Tgt Ion:168 Resp: 278202
Ion Ratio Lower Upper
168 100
99 58.4 47.1 70.7



#16
Acetone
Concen: 68.650 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 43 Resp: 41560
Ion Ratio Lower Upper
43 100
58 28.2 23.5 35.3

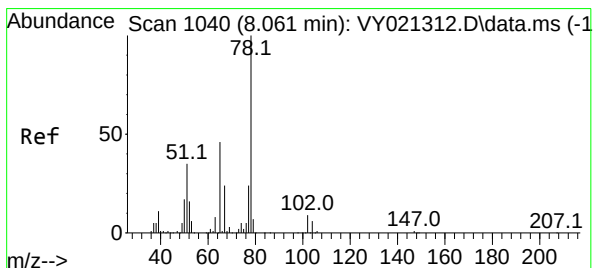
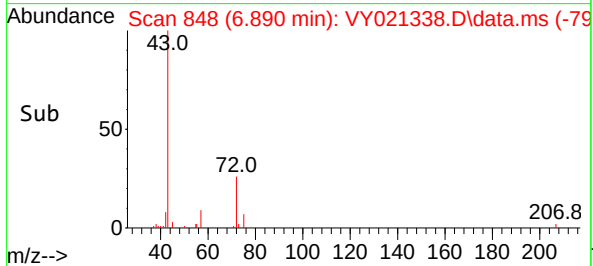
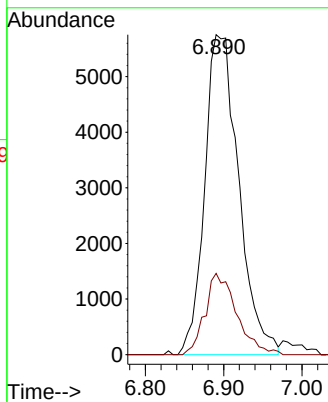
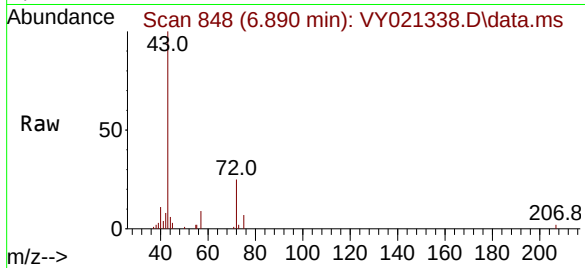




#25
2-Butanone
Concen: 18.983 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

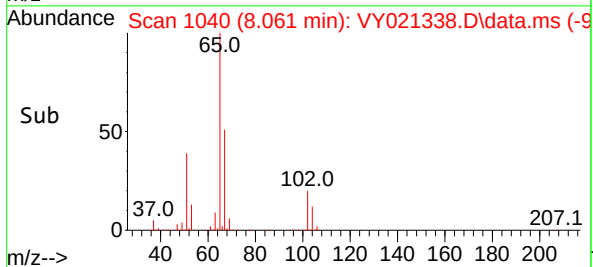
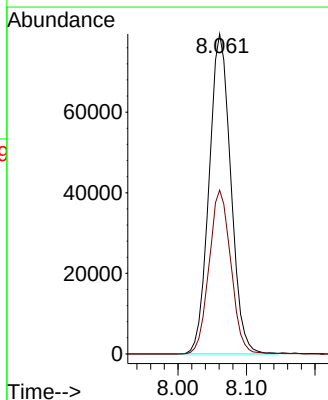
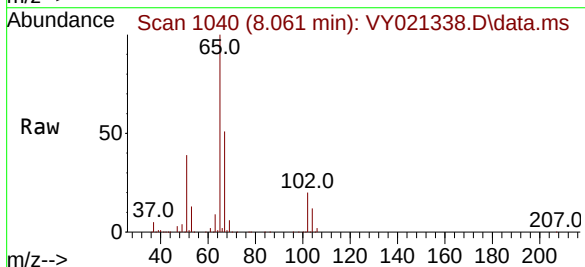
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

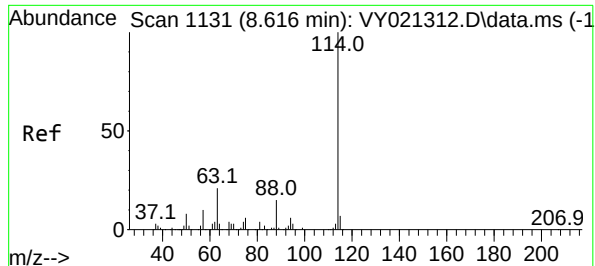
Tgt Ion: 43 Resp: 17344
Ion Ratio Lower Upper
43 100
72 25.4 19.0 28.6



#33
1,2-Dichloroethane-d4
Concen: 55.420 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 65 Resp: 174903
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021338.D

Acq: 26 Feb 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB02

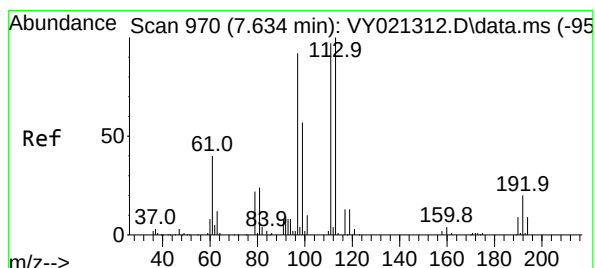
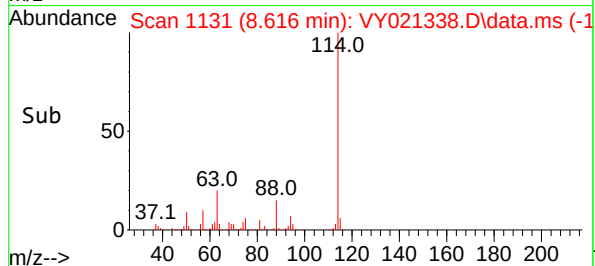
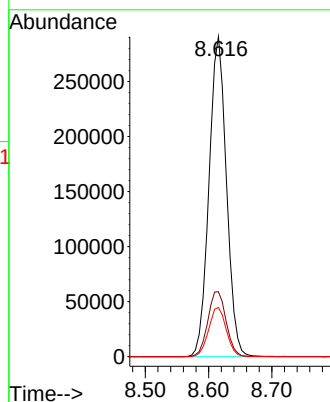
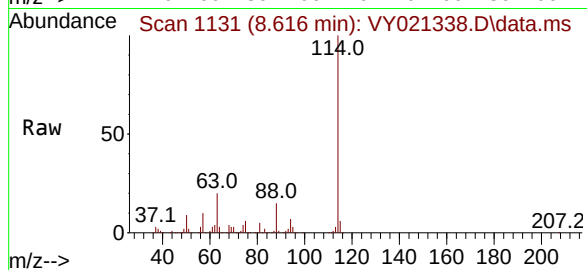
Tgt Ion:114 Resp: 557389

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.2

88 15.3 0.0 29.8



#35

Dibromofluoromethane

Concen: 50.386 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY021338.D

Acq: 26 Feb 2025 17:48

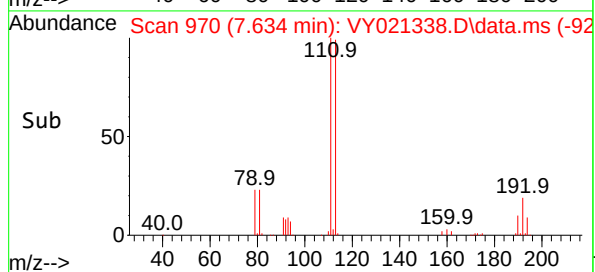
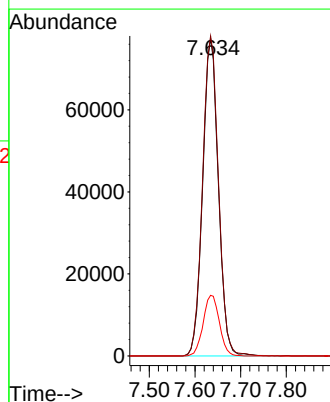
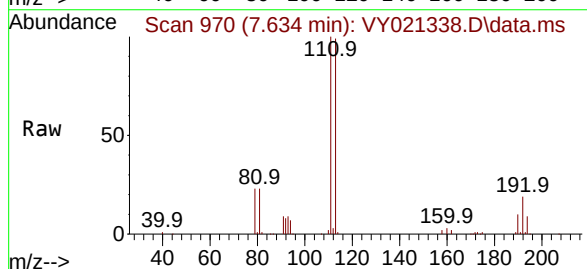
Tgt Ion:113 Resp: 184126

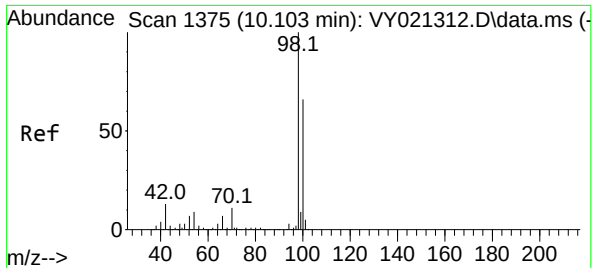
Ion Ratio Lower Upper

113 100

111 102.3 81.0 121.6

192 19.8 15.8 23.8

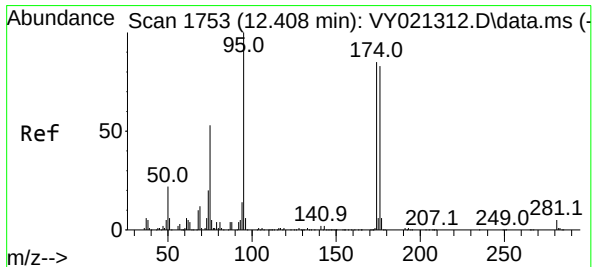
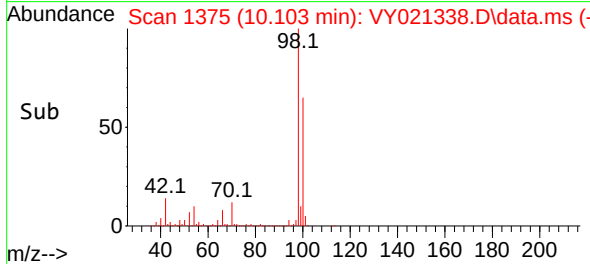
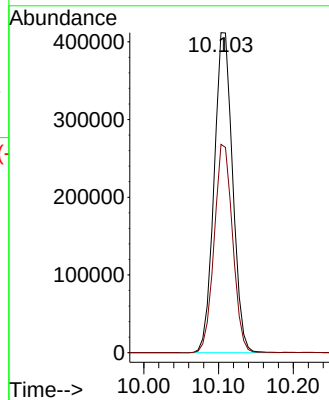
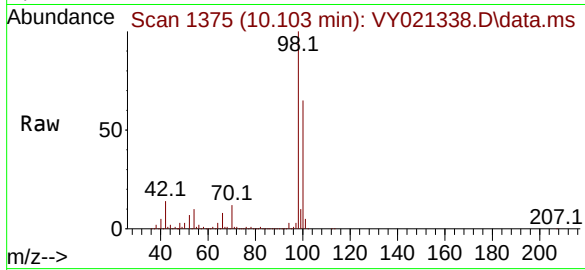




#50
Toluene-d8
Concen: 50.207 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

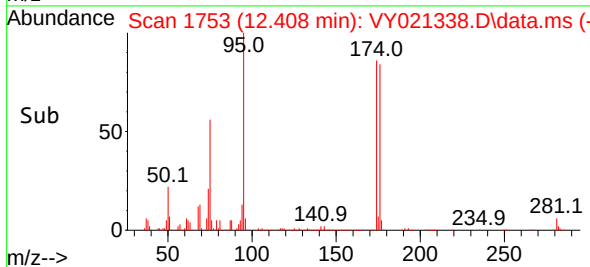
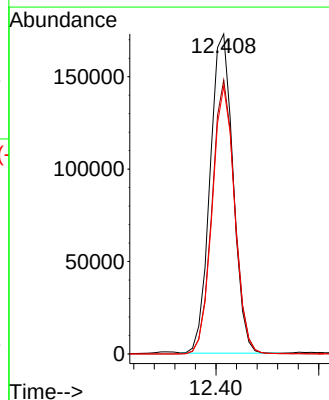
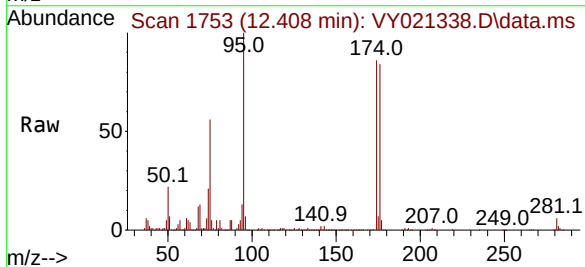
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

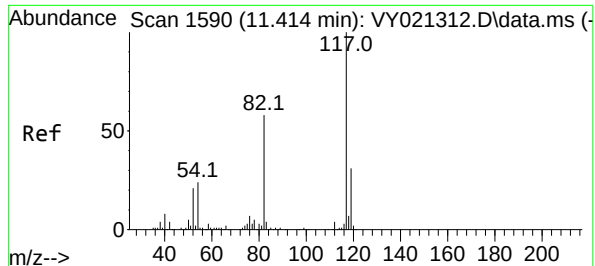
Tgt Ion: 98 Resp: 709070
Ion Ratio Lower Upper
98 100
100 64.7 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 56.342 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 95 Resp: 267792
Ion Ratio Lower Upper
95 100
174 84.3 0.0 168.0
176 82.1 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021338.D

Acq: 26 Feb 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB02

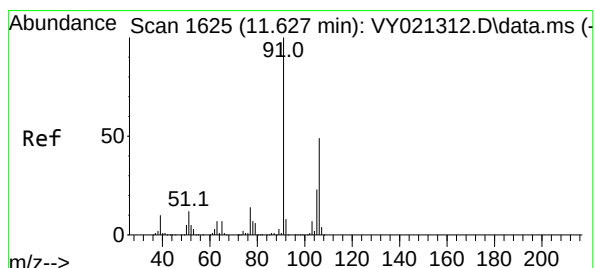
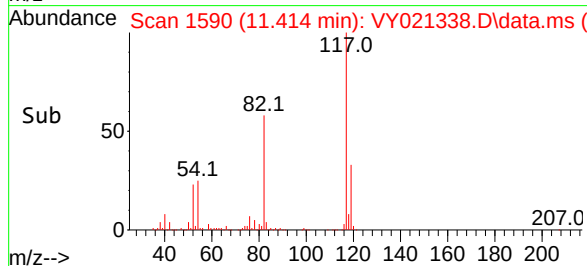
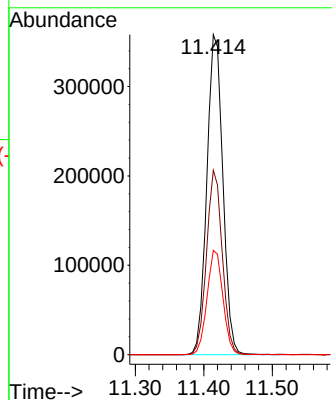
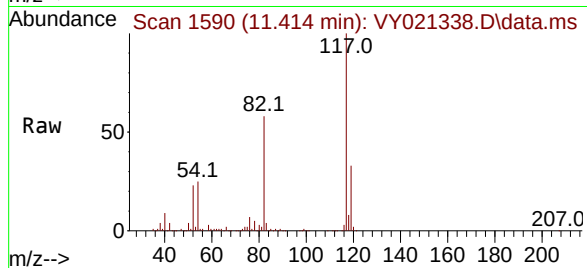
Tgt Ion:117 Resp: 583706

Ion Ratio Lower Upper

117 100

82 57.6 46.2 69.4

119 32.6 24.9 37.3



#68

m/p-Xylenes

Concen: 1.182 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.006 min

Lab File: VY021338.D

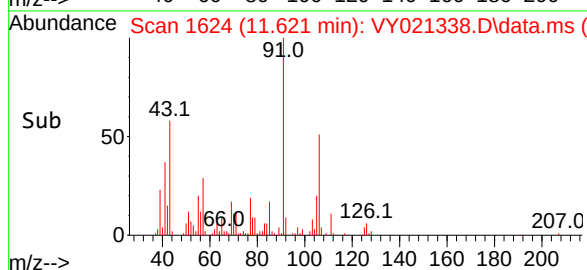
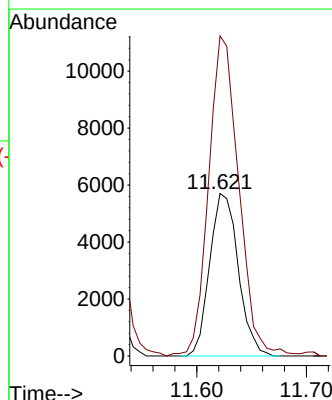
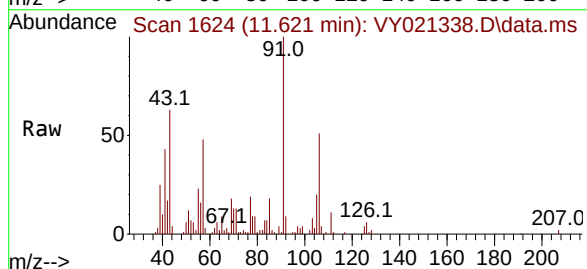
Acq: 26 Feb 2025 17:48

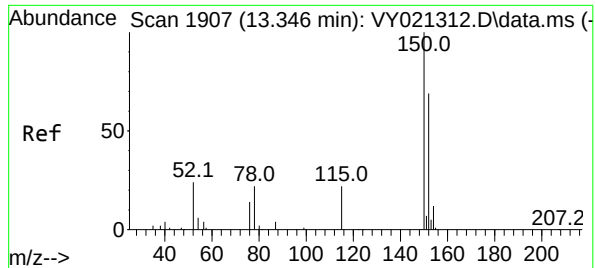
Tgt Ion:106 Resp: 10321

Ion Ratio Lower Upper

106 100

91 207.8 163.9 245.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021338.D

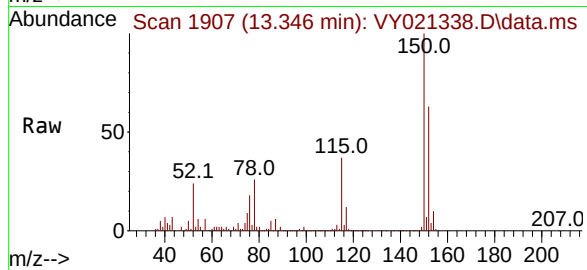
Acq: 26 Feb 2025 17:48

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB02



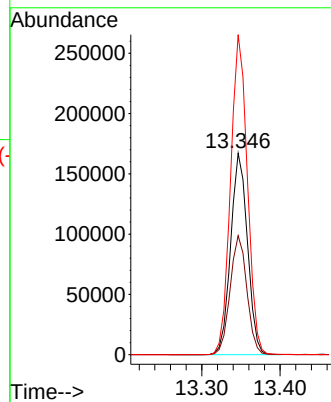
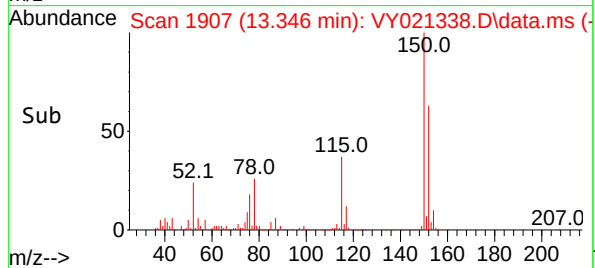
Tgt Ion:152 Resp: 249107

Ion Ratio Lower Upper

152 100

115 59.0 29.3 88.0

150 158.7 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021338.D
 Acq On : 26 Feb 2025 17:48
 Operator : SY/MD
 Sample : Q1415-03
 Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-163-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\82Y022525S.M
 Title : SW846 8260

Signal : TIC: VY021338.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	19	rBV2	14988	19707	1.01%	0.095%
2	2.336	96	101	110	rBV	29599	50253	2.56%	0.242%
3	3.866	341	352	362	rBV2	23771	64005	3.27%	0.309%
4	5.476	603	616	632	rVB4	8849	30339	1.55%	0.146%
5	6.890	840	848	861	rBV	9902	29653	1.51%	0.143%
6	7.634	960	970	976	rBV	263299	629190	32.10%	3.036%
7	7.707	976	982	996	rVB	377383	842464	42.98%	4.065%
8	8.061	1031	1040	1053	rBV	220027	489646	24.98%	2.363%
9	8.616	1121	1131	1146	rBV	689882	1346593	68.70%	6.498%
10	10.103	1368	1375	1391	rBV	1130249	1960180	100.00%	9.459%
11	10.298	1400	1407	1413	rVB	15468	26445	1.35%	0.128%
12	10.493	1433	1439	1454	rVB	903569	1370031	69.89%	6.611%
13	10.902	1501	1506	1513	rVV3	13251	31871	1.63%	0.154%
14	11.213	1548	1557	1567	rVV4	54329	127600	6.51%	0.616%
15	11.310	1567	1573	1582	rVB	37655	61350	3.13%	0.296%
16	11.414	1582	1590	1600	rBV	1166850	1885636	96.20%	9.099%
17	11.517	1600	1607	1610	rVV	27822	51469	2.63%	0.248%
18	11.548	1610	1612	1616	rVV3	17876	24899	1.27%	0.120%
19	11.639	1616	1627	1635	rVV4	241464	531579	27.12%	2.565%
20	11.706	1635	1638	1643	rVB2	24193	36664	1.87%	0.177%
21	11.859	1658	1663	1668	rVB3	23861	37529	1.91%	0.181%
22	11.938	1668	1676	1682	rBV5	81199	249397	12.72%	1.203%
23	12.048	1690	1694	1698	rVB	61389	81818	4.17%	0.395%
24	12.127	1698	1707	1710	rBV3	35746	82233	4.20%	0.397%
25	12.170	1710	1714	1723	rVV5	74351	163498	8.34%	0.789%
26	12.249	1723	1727	1730	rVV	18652	29082	1.48%	0.140%
27	12.316	1730	1738	1739	rVV4	53131	119944	6.12%	0.579%
28	12.341	1739	1742	1744	rVV	98633	144002	7.35%	0.695%
29	12.365	1744	1746	1748	rVV	109111	129438	6.60%	0.625%
30	12.408	1748	1753	1758	rVV	956907	1544693	78.80%	7.454%
31	12.450	1758	1760	1765	rVV2	106338	128594	6.56%	0.621%
32	12.572	1776	1780	1786	rVB3	35628	67783	3.46%	0.327%
33	12.651	1786	1793	1796	rBV3	34416	64643	3.30%	0.312%
34	12.731	1796	1806	1811	rBV2	535699	820916	41.88%	3.961%
35	12.786	1811	1815	1820	rVB	59015	88455	4.51%	0.427%
36	12.840	1820	1824	1826	rBV3	20505	31455	1.60%	0.152%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

37	12.877	1826	1830	1833	rVB2	32397	40758	2.08%	0.197%
38	12.926	1833	1838	1841	rBV3	44493	79415	4.05%	0.383%
39	12.962	1841	1844	1851	rVB2	100486	160072	8.17%	0.772%
40	13.029	1851	1855	1861	rVB5	23800	43991	2.24%	0.212%
41	13.090	1861	1865	1871	rBV3	37367	68844	3.51%	0.332%
42	13.243	1882	1890	1894	rBV2	102752	229253	11.70%	1.106%
43	13.285	1894	1897	1900	rVV2	101048	140610	7.17%	0.679%
44	13.346	1900	1907	1914	rVV	1111104	1795851	91.62%	8.666%
45	13.426	1916	1920	1927	rBV2	89215	148824	7.59%	0.718%
46	13.627	1946	1953	1954	rBV3	14126	25940	1.32%	0.125%
47	13.676	1955	1961	1965	rVV	600688	847836	43.25%	4.091%
48	13.712	1965	1967	1972	rVB	41933	54607	2.79%	0.264%
49	13.773	1972	1977	1983	rBV5	41336	82400	4.20%	0.398%
50	13.840	1983	1988	1992	rBV4	42499	97223	4.96%	0.469%
51	13.889	1992	1996	2001	rVB3	81209	128140	6.54%	0.618%
52	13.938	2001	2004	2009	rVB2	44474	65704	3.35%	0.317%
53	13.999	2009	2014	2018	rBV4	24341	40530	2.07%	0.196%
54	14.066	2018	2025	2029	rBV4	38437	76141	3.88%	0.367%
55	14.121	2029	2034	2037	rBV3	42680	63666	3.25%	0.307%
56	14.169	2037	2042	2044	rBV3	121401	219488	11.20%	1.059%
57	14.237	2050	2053	2060	rVB	89738	116252	5.93%	0.561%
58	14.304	2060	2064	2067	rVV2	79906	106327	5.42%	0.513%
59	14.340	2067	2070	2074	rVB3	60435	78329	4.00%	0.378%
60	14.395	2074	2079	2086	rVB6	44831	89371	4.56%	0.431%
61	14.468	2086	2091	2094	rBV5	14456	26373	1.35%	0.127%
62	14.529	2096	2101	2108	rVV	468446	654060	33.37%	3.156%
63	14.602	2108	2113	2117	rVV2	68140	123592	6.31%	0.596%
64	14.651	2117	2121	2128	rVV	147054	249935	12.75%	1.206%
65	14.724	2128	2133	2137	rVV6	43780	92898	4.74%	0.448%
66	14.767	2137	2140	2148	rVV7	58553	153142	7.81%	0.739%
67	14.858	2152	2155	2159	rVB3	31299	46239	2.36%	0.223%
68	14.950	2166	2170	2176	rBV4	43981	89399	4.56%	0.431%
69	15.011	2176	2180	2183	rVV2	45439	72755	3.71%	0.351%
70	15.053	2183	2187	2193	rVB4	99682	171950	8.77%	0.830%
71	15.121	2193	2198	2203	rBV	114243	178295	9.10%	0.860%
72	15.175	2204	2207	2215	rVB6	26634	63777	3.25%	0.308%
73	15.249	2215	2219	2224	rBV7	12964	28786	1.47%	0.139%
74	15.346	2230	2235	2241	rVB	272562	379261	19.35%	1.830%
75	15.450	2250	2252	2256	rVB3	24606	30581	1.56%	0.148%
76	15.925	2324	2330	2334	rVV5	21463	51332	2.62%	0.248%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-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\82Y022525S.M

Title : SW846 8260

77	15.986	2336	2340	2346	rVB6	15181	29929	1.53%	0.144%
78	16.047	2346	2350	2356	rVB5	13108	24149	1.23%	0.117%
79	16.248	2375	2383	2390	rBV	32025	64285	3.28%	0.310%

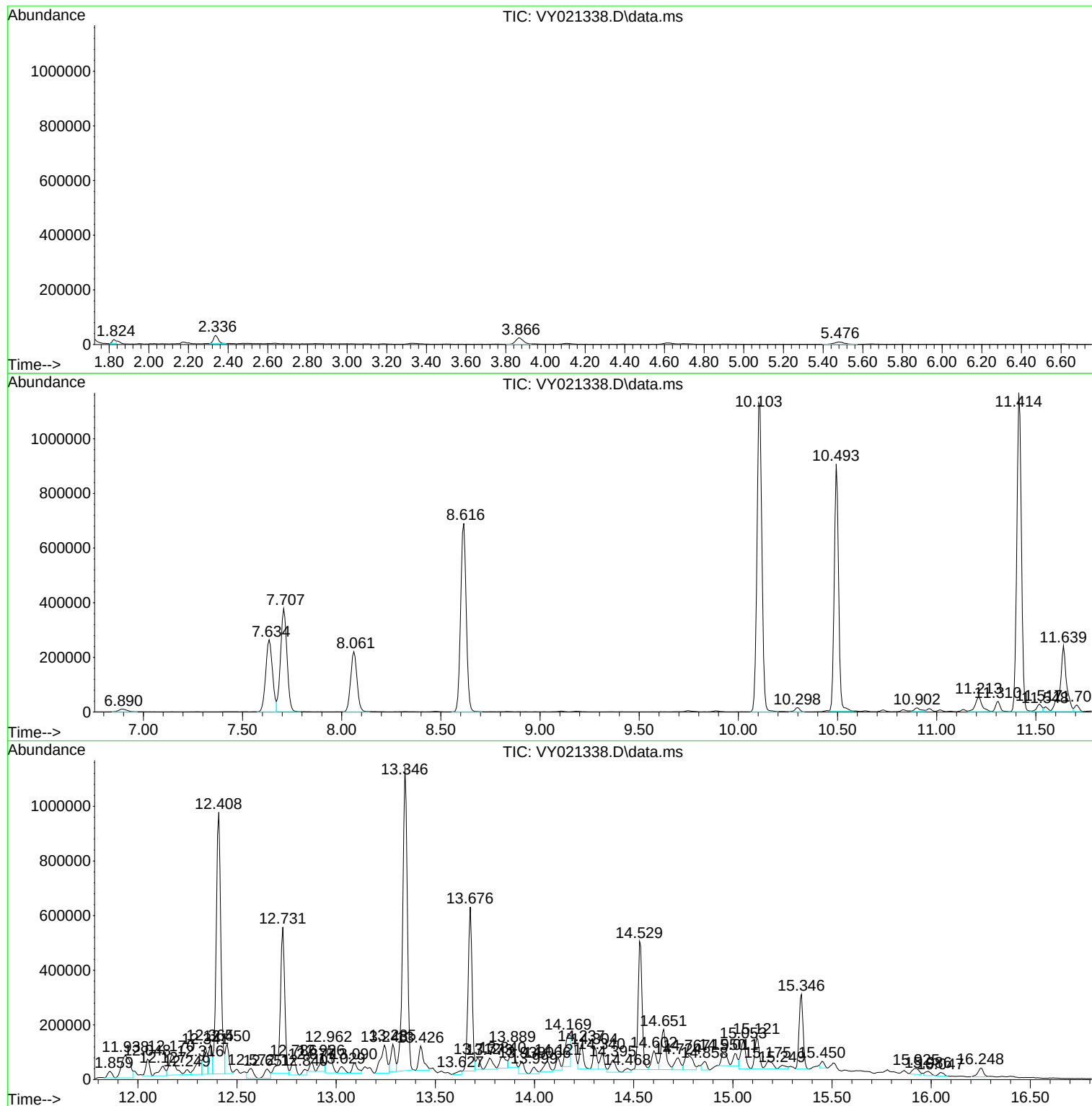
Sum of corrected areas: 20723364

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

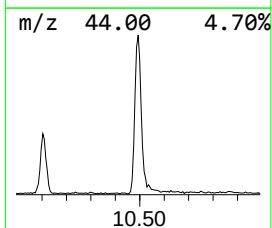
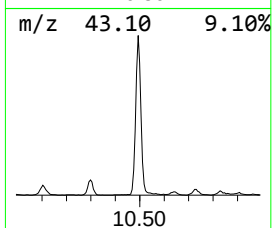
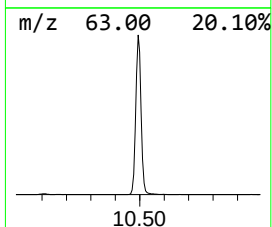
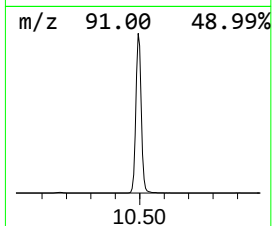
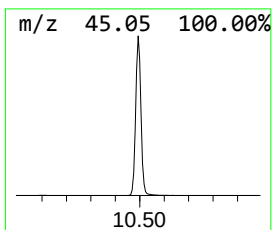
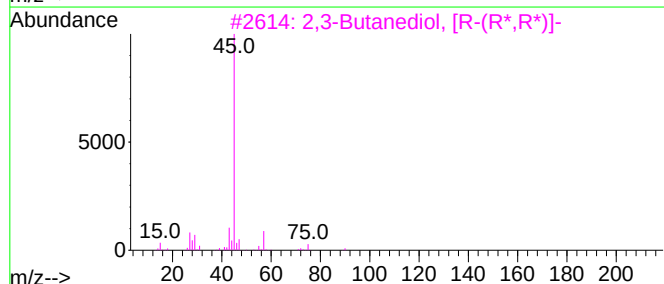
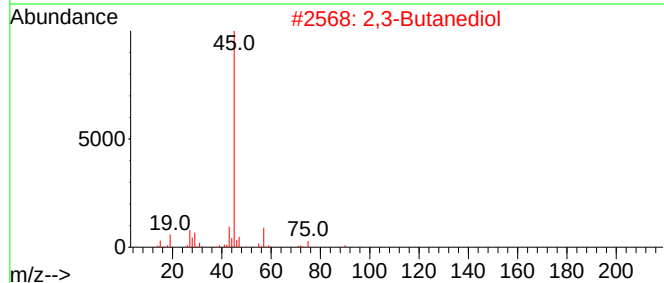
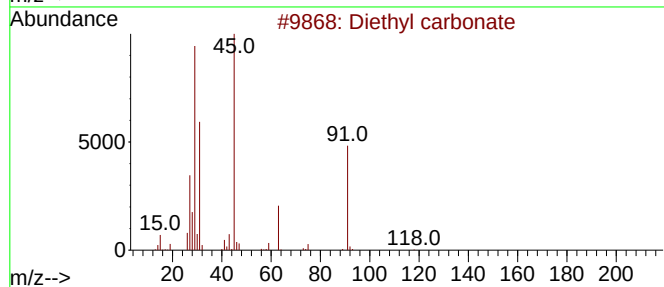
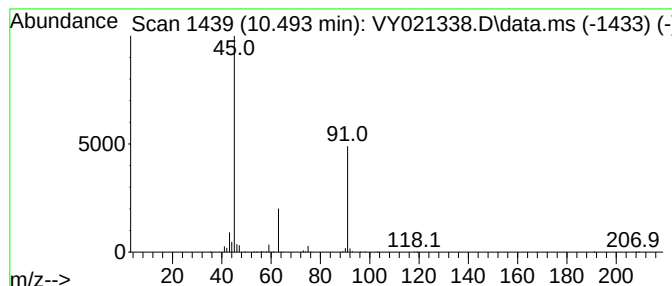
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	36.33 ug/l	1370030	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Diethyl carbonate	118	C5H10O3	000105-58-8	86
2			2,3-Butanediol	90	C4H10O2	000513-85-9	50
3			2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	50
4			Dimethyl-cyano-phosphine	87	C3H6NP	031641-57-3	9
5			Isopropyl Alcohol	60	C3H8O	000067-63-0	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

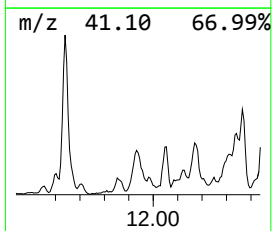
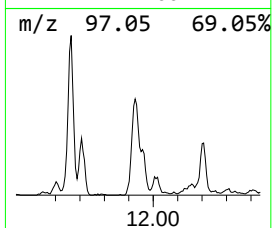
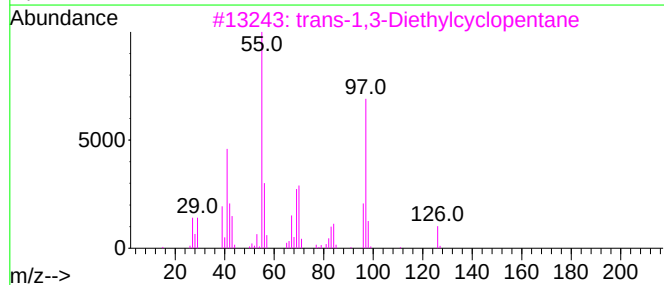
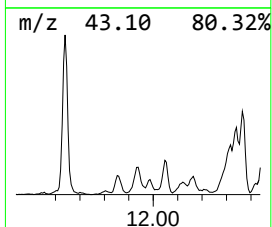
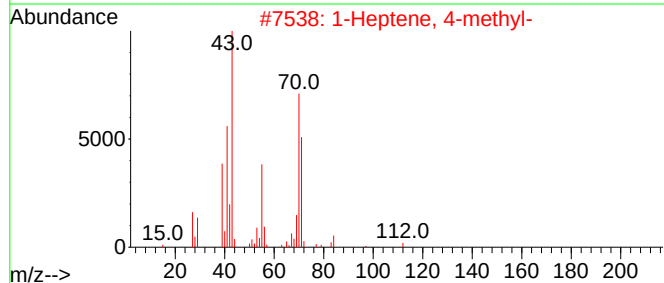
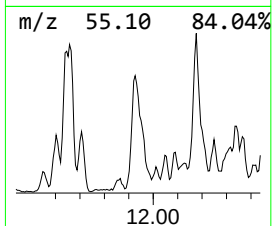
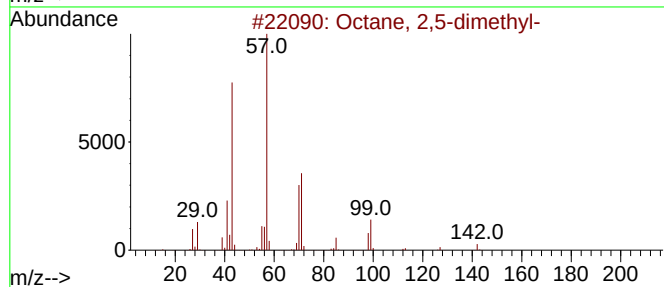
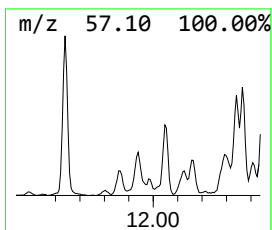
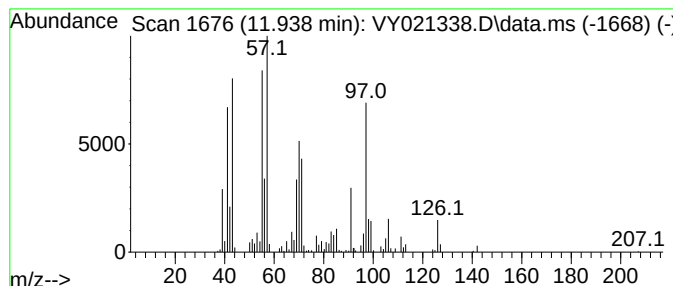
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 2 unknown11.938 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.938	6.61 ug/l	249397	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	46
2			1-Heptene, 4-methyl-	112	C8H16	013151-05-8	42
3			trans-1,3-Diethylcyclopentane	126	C9H18	1000113-87-1	38
4			3-Nonene	126	C9H18	020063-77-8	35
5			1-Hexene, 4-ethyl-	112	C8H16	016746-85-3	25



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

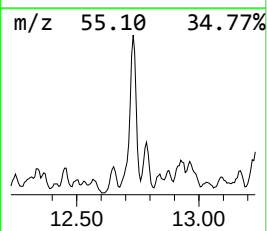
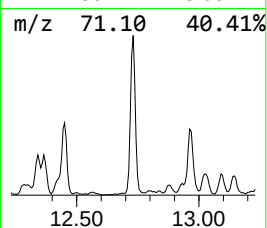
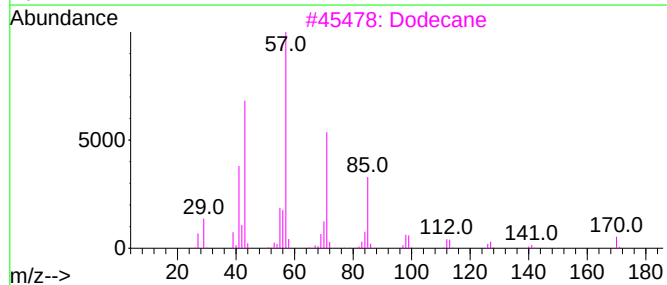
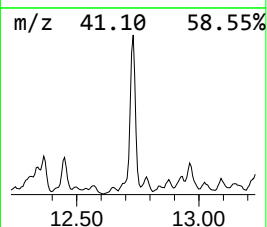
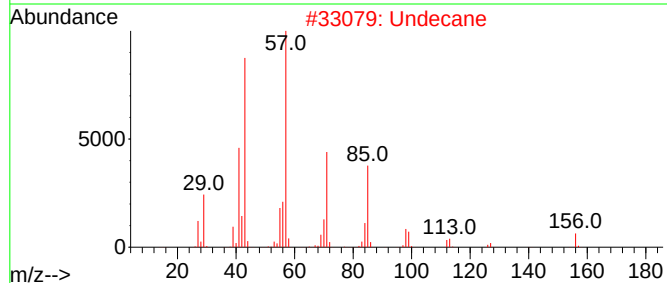
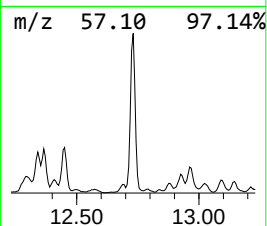
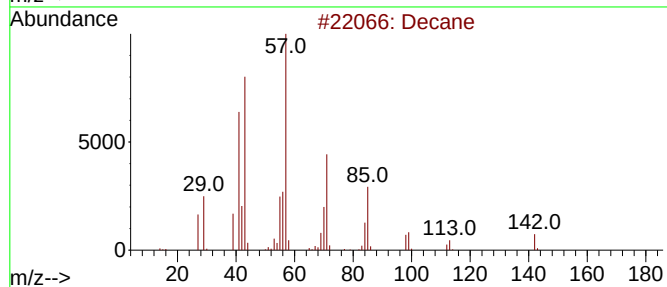
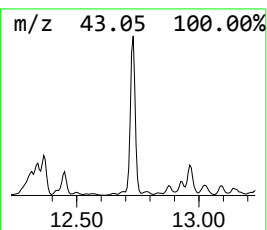
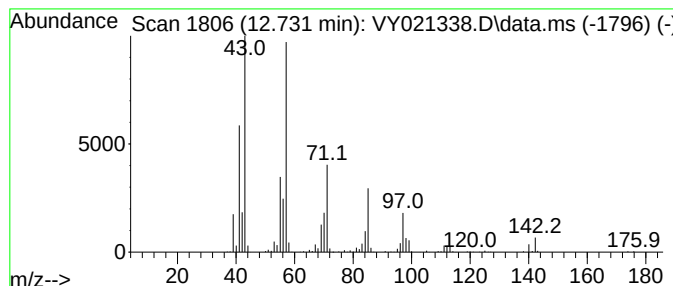
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 3 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	22.86 ug/l	820916	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane	142	C10H22	000124-18-5	93
2			Undecane	156	C11H24	001120-21-4	72
3			Dodecane	170	C12H26	000112-40-3	59
4			Decane, 2,9-dimethyl-	170	C12H26	001002-17-1	59
5			Octane	114	C8H18	000111-65-9	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

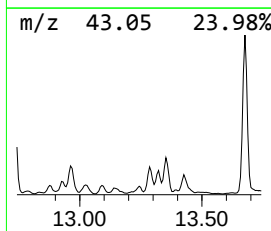
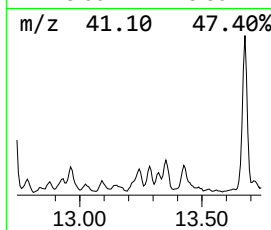
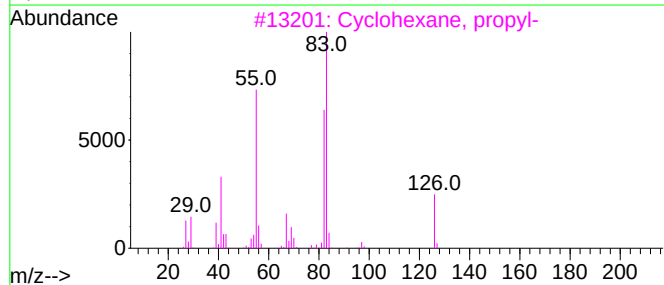
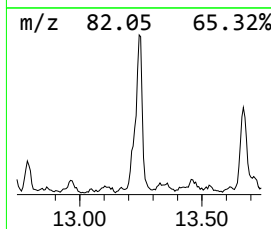
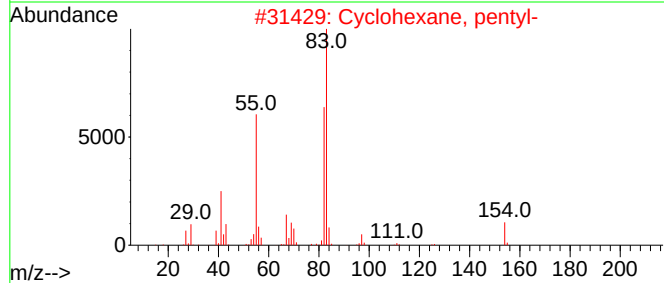
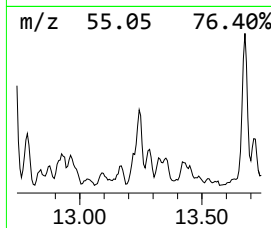
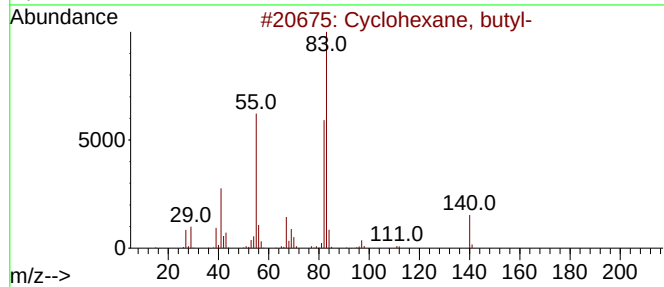
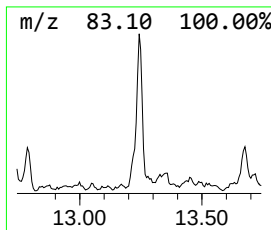
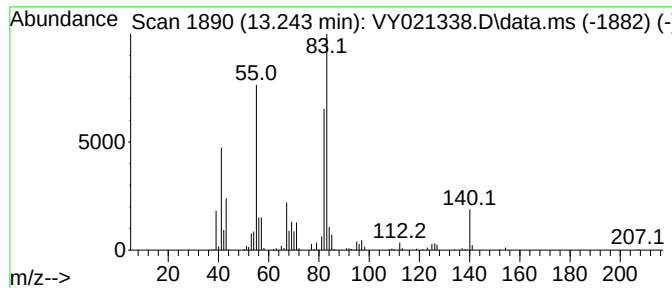
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 4 Cyclohexane, butyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.243	6.38 ug/l	229253	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, butyl-	140	C10H20	001678-93-9	93
2			Cyclohexane, pentyl-	154	C11H22	004292-92-6	87
3			Cyclohexane, propyl-	126	C9H18	001678-92-8	87
4			Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
5			Cyclohexane, octyl-	196	C14H28	001795-15-9	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

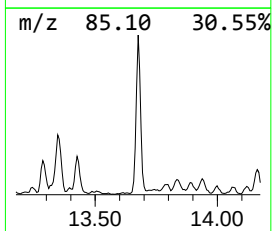
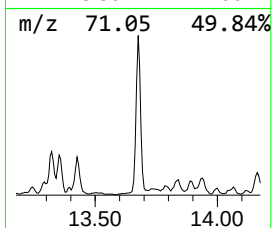
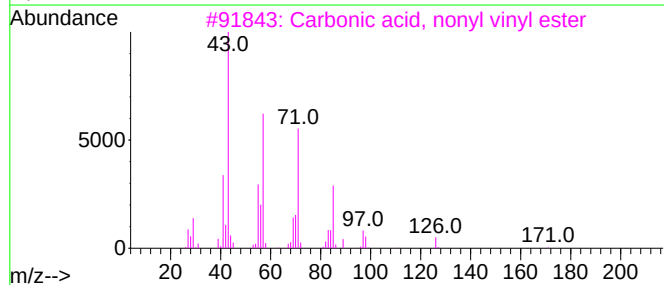
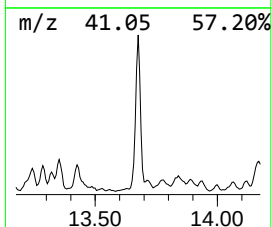
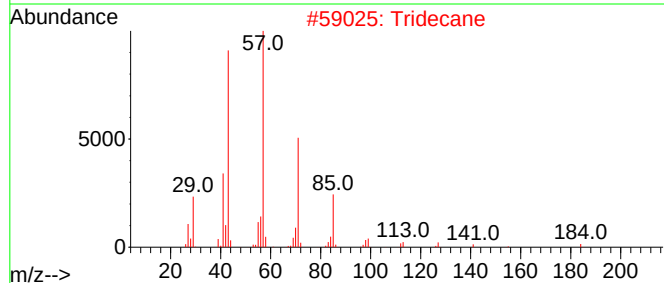
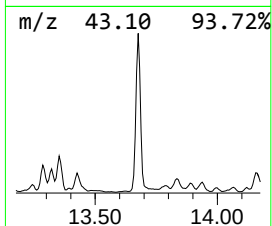
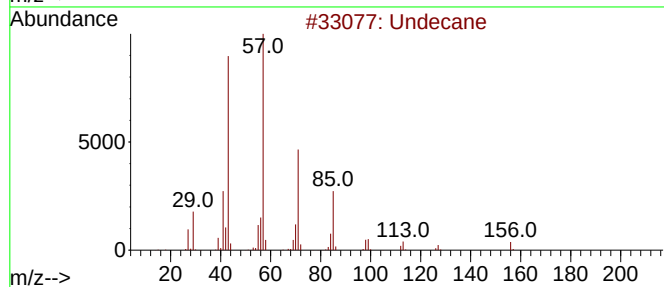
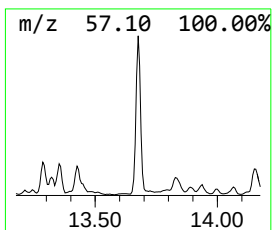
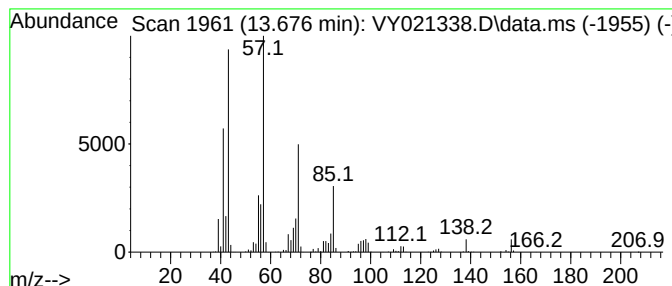
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 5 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	23.61 ug/l	847836	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane	156	C11H24	001120-21-4	80
2			Tridecane	184	C13H28	000629-50-5	59
3			Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	53
4			Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	53
5			Nonane	128	C9H20	000111-84-2	52



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

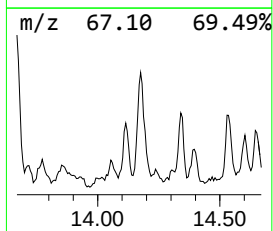
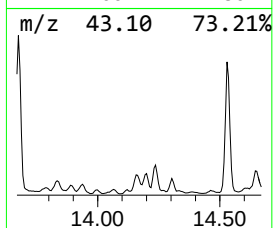
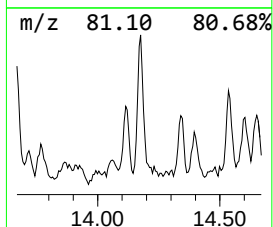
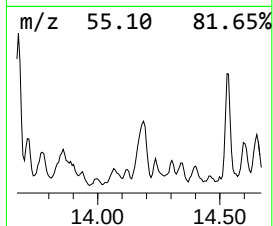
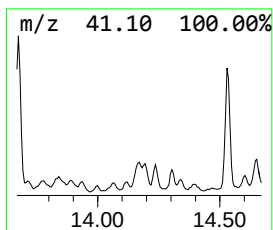
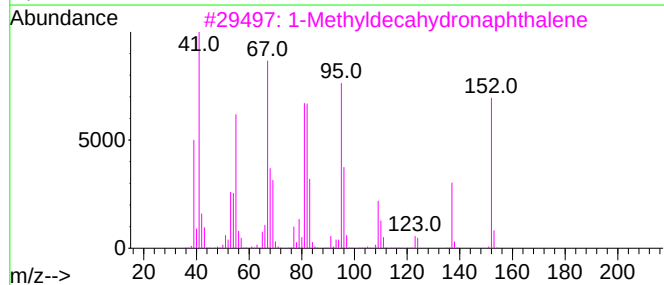
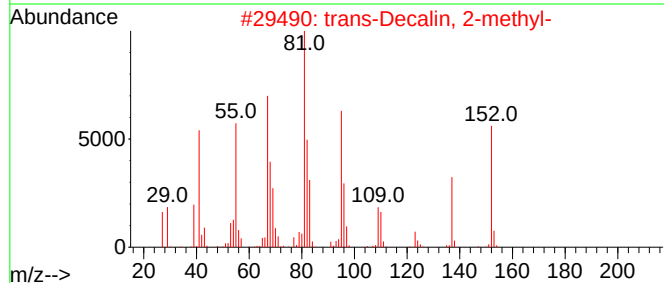
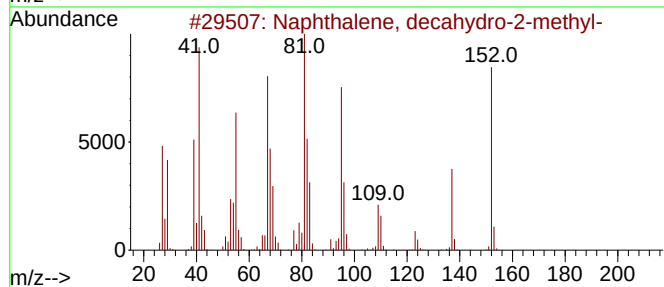
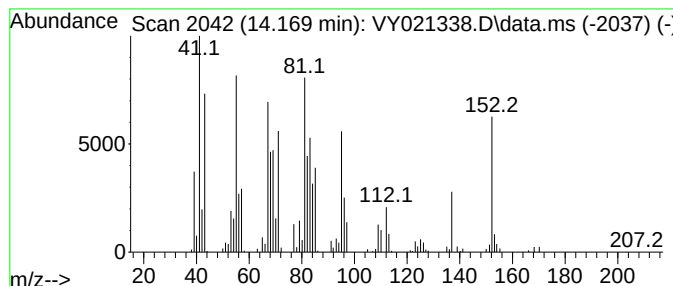
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 6 Naphthalene, decahydro-2-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	6.11 ug/l	219488	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2			trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
3			1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	60
4			Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	55
5			Spiro[5.5]undecane	152	C11H20	000180-43-8	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

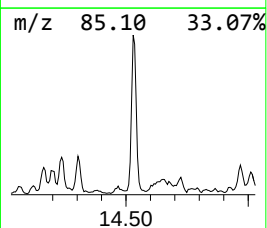
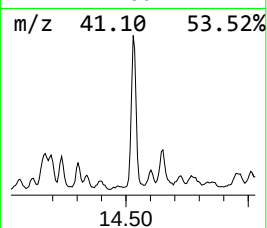
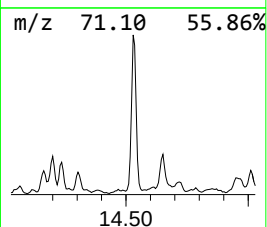
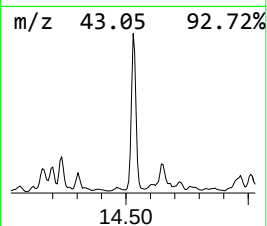
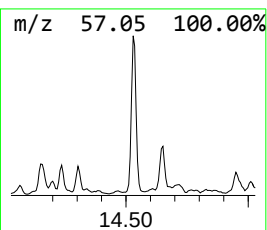
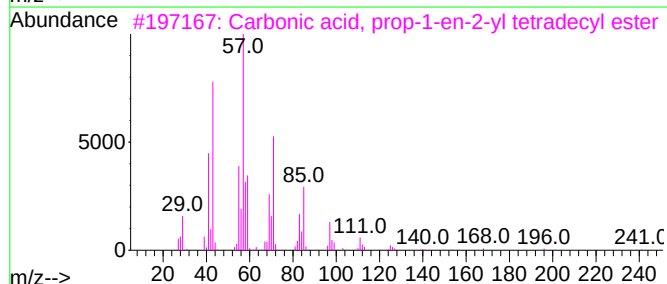
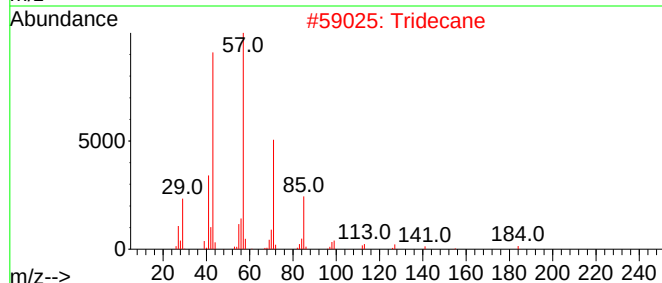
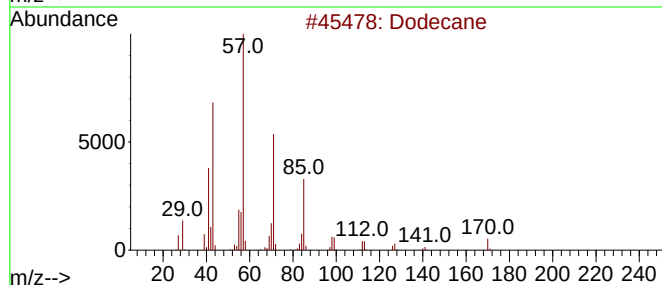
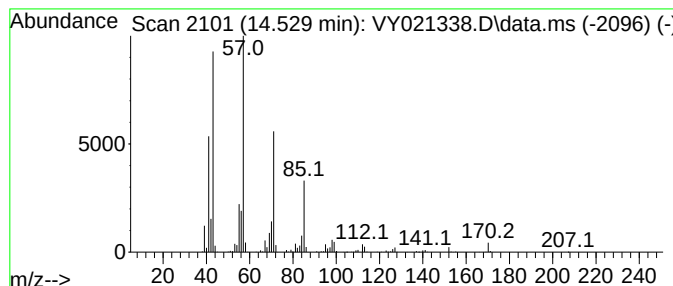
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 7 Dodecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	18.21 ug/l	654060	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane	170	C12H26	000112-40-3	91
2			Tridecane	184	C13H28	000629-50-5	86
3			Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	86
4			Tetradecane	198	C14H30	000629-59-4	78
5			Hexadecane	226	C16H34	000544-76-3	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

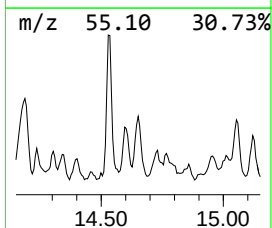
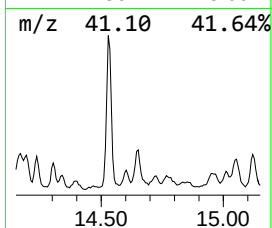
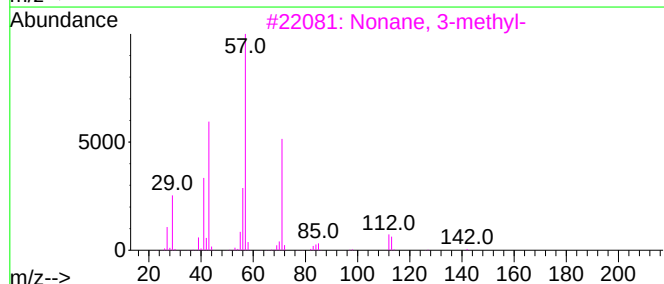
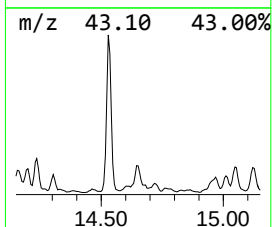
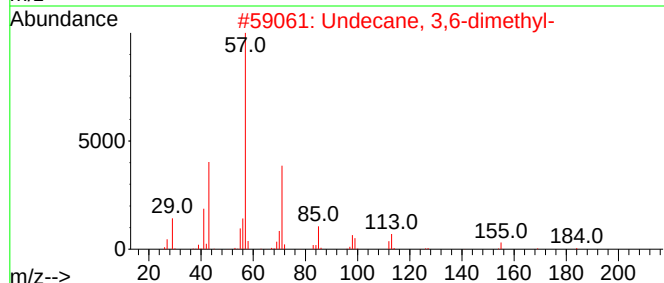
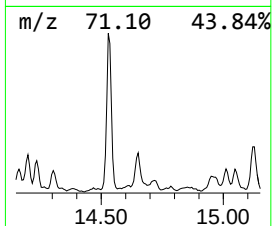
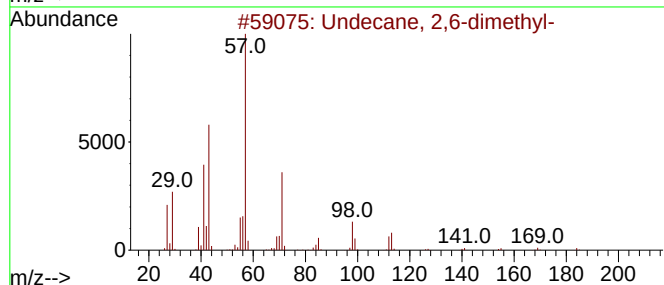
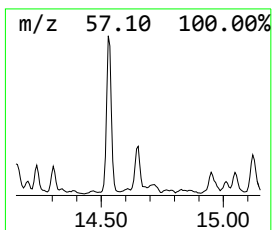
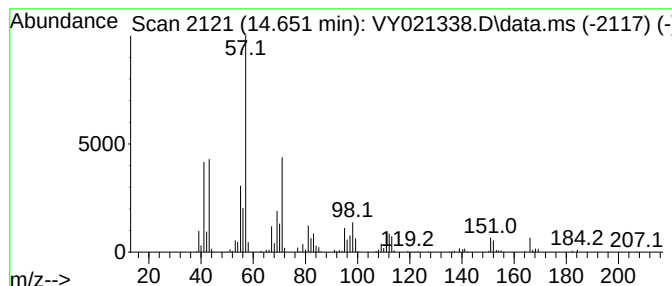
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 8 Undecane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	6.96 ug/l	249935	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	70
2			Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53
3			Nonane, 3-methyl-	142	C10H22	005911-04-6	53
4			Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	53
5			Tridecane, 6-methyl-	198	C14H30	013287-21-3	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

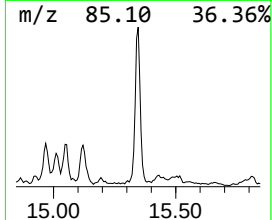
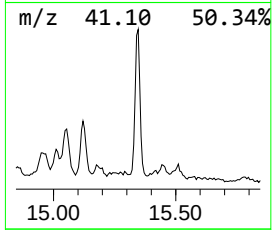
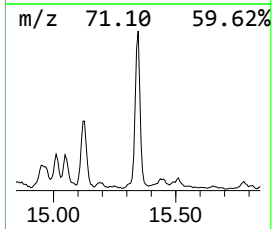
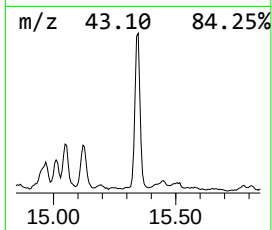
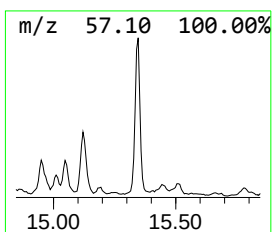
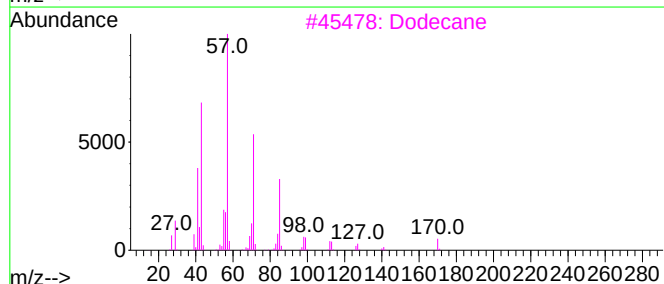
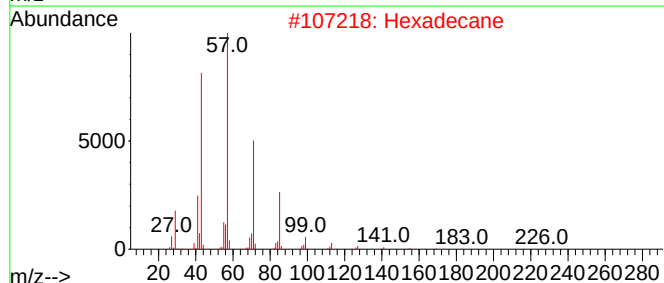
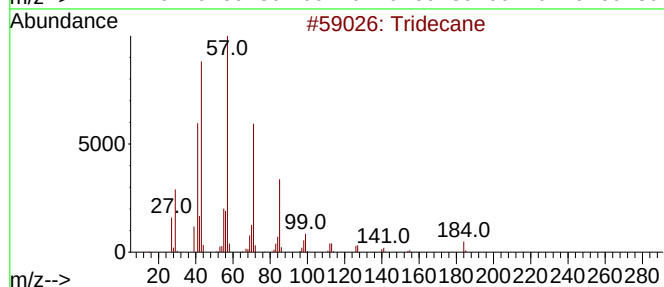
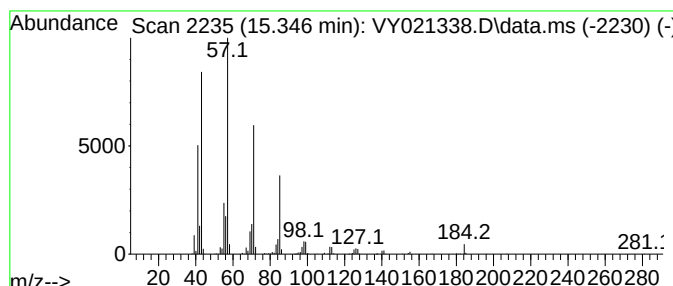
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 9 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	10.56 ug/l	379261	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane	184	C13H28	000629-50-5	94
2			Hexadecane	226	C16H34	000544-76-3	86
3			Dodecane	170	C12H26	000112-40-3	80
4			Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	78
5			Undecane	156	C11H24	001120-21-4	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Diethyl carbonate	10.493	36.3	ug/l	1370030	3	11.414	1885640	50.0
unknown11.938	11.938	6.6	ug/l	249397	3	11.414	1885640	50.0
Decane	12.731	22.9	ug/l	820916	4	13.346	1795850	50.0
Cyclohexane, bu...	13.243	6.4	ug/l	229253	4	13.346	1795850	50.0
Undecane	13.676	23.6	ug/l	847836	4	13.346	1795850	50.0
Naphthalene, de...	14.169	6.1	ug/l	219488	4	13.346	1795850	50.0
Dodecane	14.529	18.2	ug/l	654060	4	13.346	1795850	50.0
Undecane, 2,6-d...	14.651	7.0	ug/l	249935	4	13.346	1795850	50.0
Tridecane	15.346	10.6	ug/l	379261	4	13.346	1795850	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	02/24/25	
Client Sample ID:	B-163-SB02RE		SDG No.:	Q1415	
Lab Sample ID:	Q1415-03RE		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	72.4	
Sample Wt/Vol:	4.1	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
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.80	U	2.80	8.40	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.40	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.40	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	8.40	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	8.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	8.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.30	U	1.30	8.40	ug/Kg
67-64-1	Acetone	490		10.5	42.1	ug/Kg
75-15-0	Carbon Disulfide	2.20	U	2.20	8.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.10	U	1.10	8.40	ug/Kg
79-20-9	Methyl Acetate	3.00	U	3.00	8.40	ug/Kg
75-09-2	Methylene Chloride	15.6	J	5.70	16.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	8.40	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	8.40	ug/Kg
78-93-3	2-Butanone	130		9.60	42.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	8.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	8.40	ug/Kg
74-97-5	Bromochloromethane	4.10	U	4.10	8.40	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	8.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	8.40	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.40	ug/Kg
71-43-2	Benzene	1.20	U	1.20	8.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.00	U	1.00	8.40	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	8.40	ug/Kg
75-27-4	Bromodichloromethane	0.94	U	0.94	8.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.30	U	7.30	42.1	ug/Kg
108-88-3	Toluene	1.10	U	1.10	8.40	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 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
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	8.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.96	U	0.96	8.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.40	U	1.40	8.40	ug/Kg
591-78-6	2-Hexanone	8.10	U	8.10	42.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	8.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.30	U	1.30	8.40	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	8.40	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	8.40	ug/Kg
100-41-4	Ethyl Benzene	1.00	U	1.00	8.40	ug/Kg
179601-23-1	m/p-Xylenes	2.90	J	2.30	16.8	ug/Kg
95-47-6	o-Xylene	1.20	U	1.20	8.40	ug/Kg
100-42-5	Styrene	1.00	U	1.00	8.40	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.40	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	8.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	8.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	8.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	8.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.99	U	0.99	8.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	2.60	8.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98500	7.707			
540-36-3	1,4-Difluorobenzene	175000	8.61			
3114-55-4	Chlorobenzene-d5	165000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	72900	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 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
VY021355.D	1		02/27/25 14:01	VY022725

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\VY022725\
 Data File : VY021355.D
 Acq On : 27 Feb 2025 14:01
 Operator : SY/MD
 Sample : Q1415-03RE
 Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

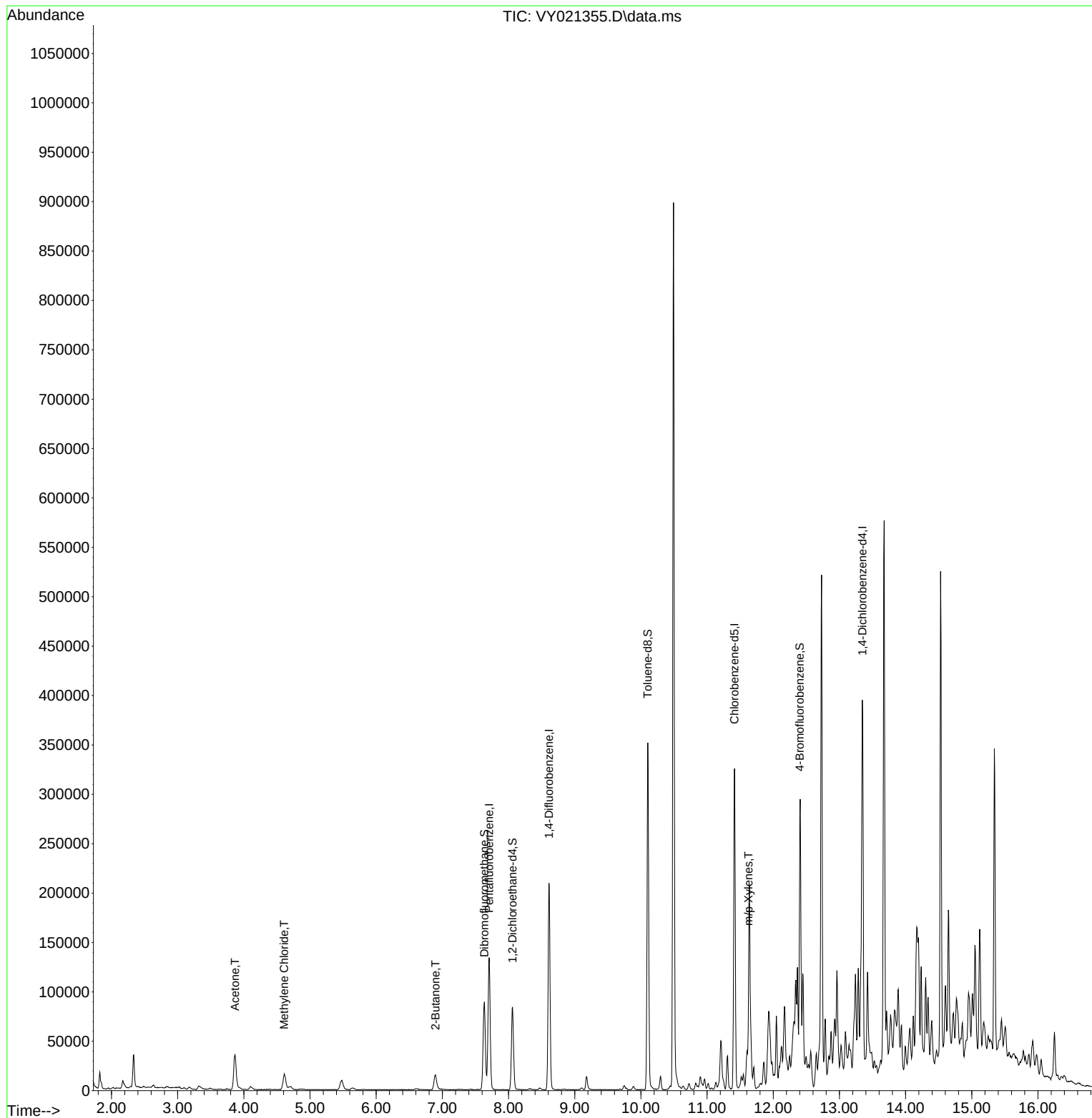
Internal Standards						
1) Pentafluorobenzene	7.707	168	98490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	174802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	165444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	72948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	66104	59.165	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.340%
35) Dibromofluoromethane	7.634	113	61849	53.969	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	107.940%
50) Toluene-d8	10.103	98	212983	48.088	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.180%
62) 4-Bromofluorobenzene	12.402	95	75524	50.668	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	101.340%
Target Compounds						
					Qvalue	
16) Acetone	3.867	43	62962	293.774	ug/l	98
20) Methylene Chloride	4.610	84	10764	9.288	ug/l	98
25) 2-Butanone	6.896	43	24297	75.116	ug/l	99
68) m/p-Xylenes	11.627	106	4332	1.751	ug/l	83

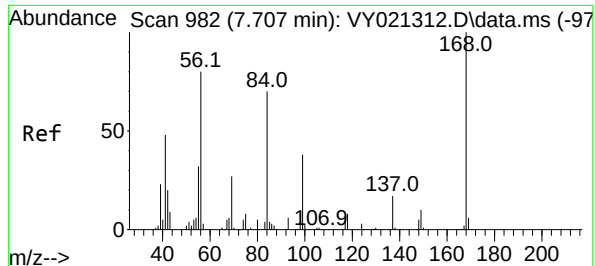
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021355.D
Acq On : 27 Feb 2025 14:01
Operator : SY/MD
Sample : Q1415-03RE
Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

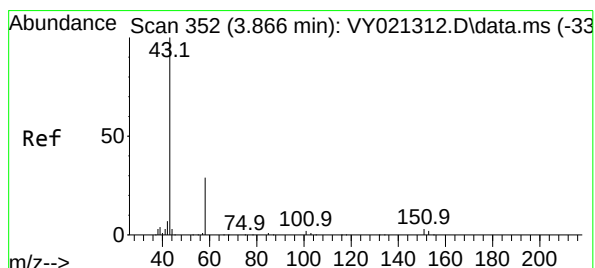
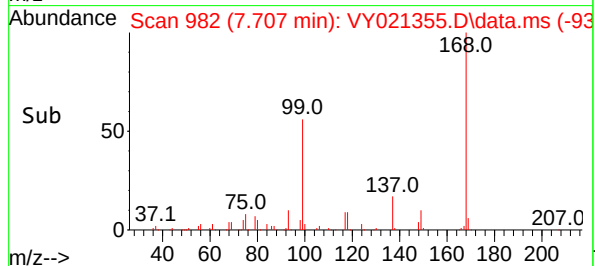
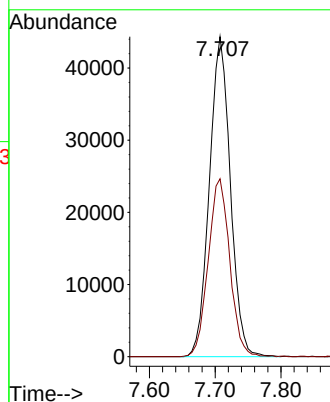
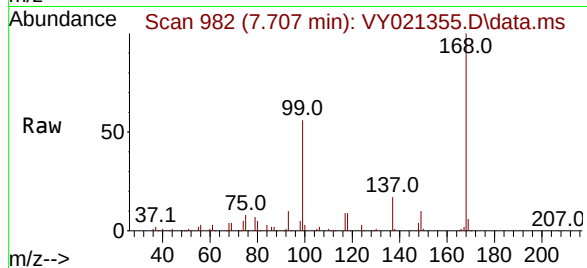




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

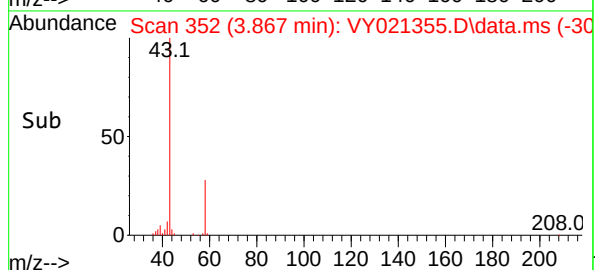
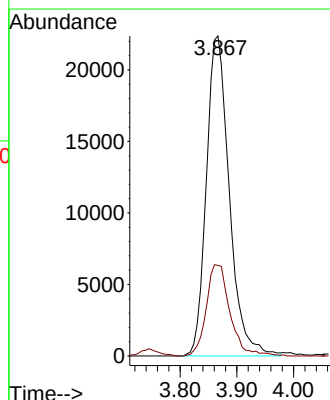
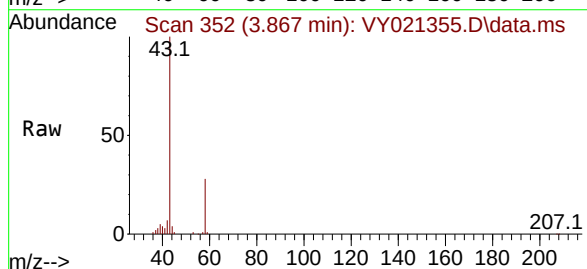
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

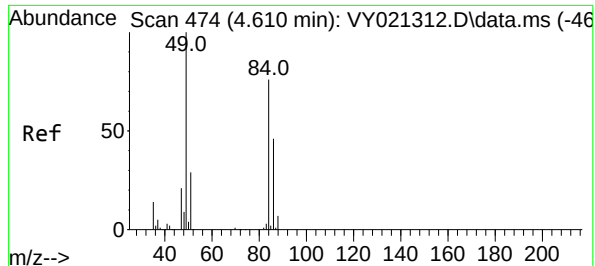
Tgt Ion:168 Resp: 98490
Ion Ratio Lower Upper
168 100
99 55.6 47.1 70.7



#16
Acetone
Concen: 293.774 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 43 Resp: 62962
Ion Ratio Lower Upper
43 100
58 28.3 23.5 35.3





#20

Methylene Chloride

Concen: 9.288 ug/l

RT: 4.610 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

B-163-SB02RE

Tgt Ion: 84 Resp: 10764

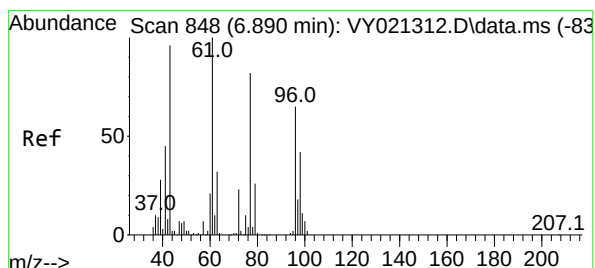
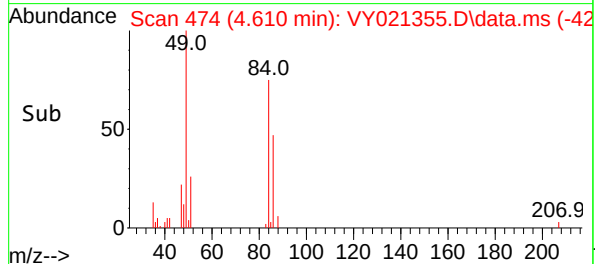
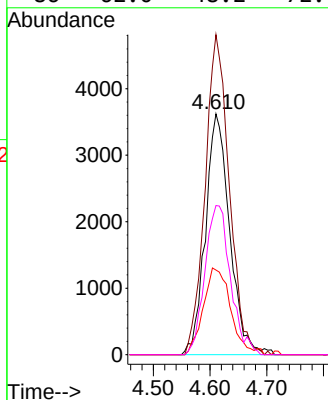
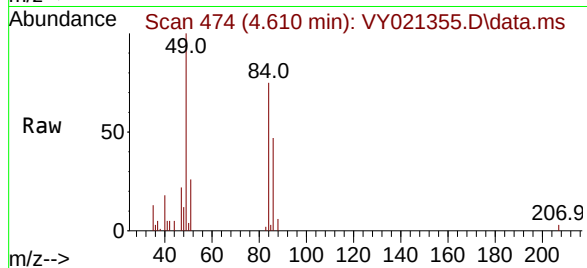
Ion Ratio Lower Upper

84 100

49 132.9 105.1 157.7

51 35.2 31.0 46.4

86 62.0 48.2 72.4



#25

2-Butanone

Concen: 75.116 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021355.D

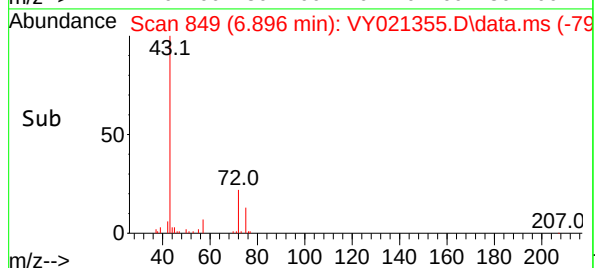
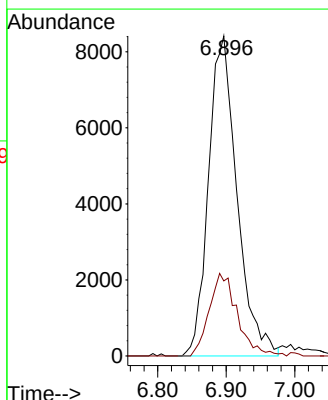
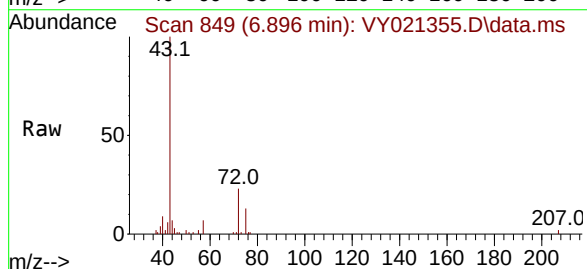
Acq: 27 Feb 2025 14:01

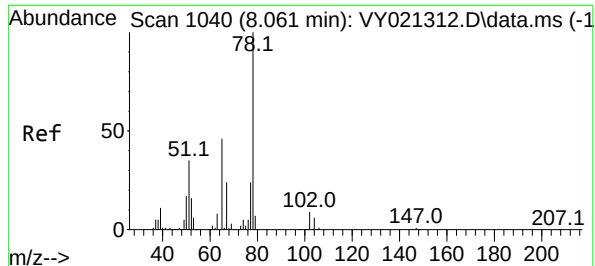
Tgt Ion: 43 Resp: 24297

Ion Ratio Lower Upper

43 100

72 23.5 19.0 28.6





#33

1,2-Dichloroethane-d4

Concen: 59.165 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

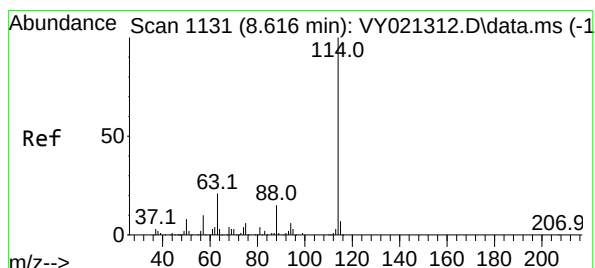
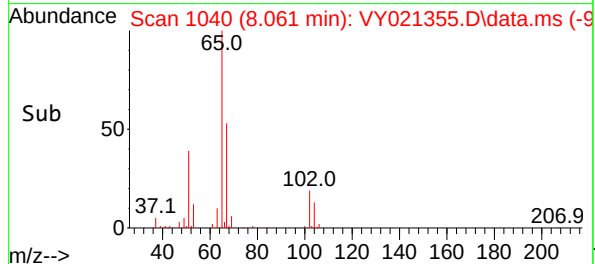
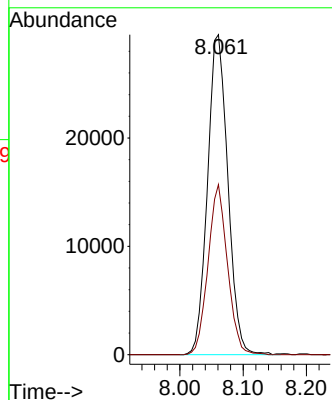
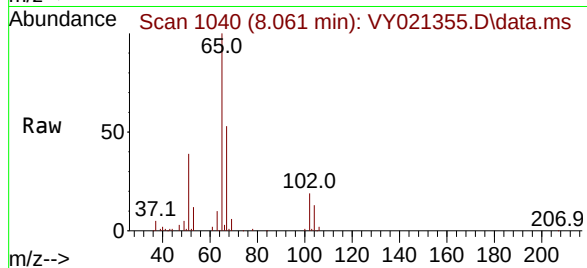
B-163-SB02RE

Tgt Ion: 65 Resp: 66104

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

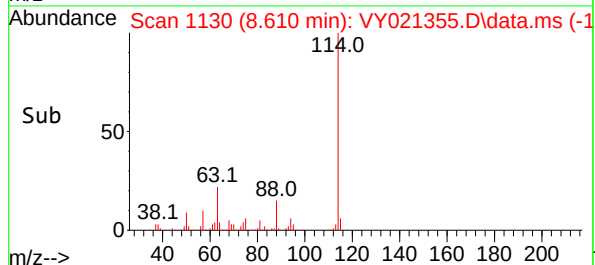
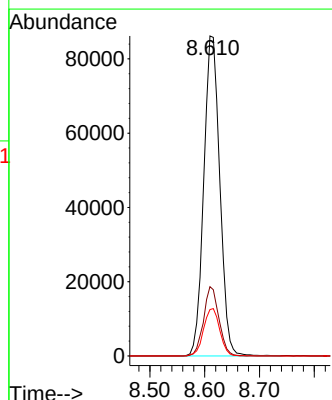
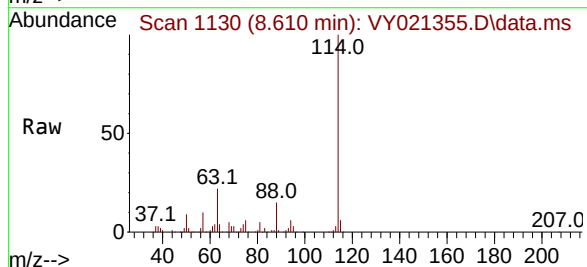
Tgt Ion: 114 Resp: 174802

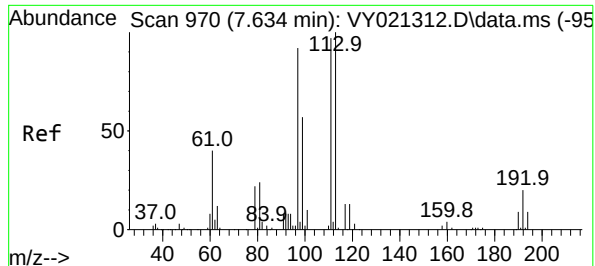
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.2

88 14.5 0.0 29.8





#35

Dibromofluoromethane

Concen: 53.969 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

Instrument :

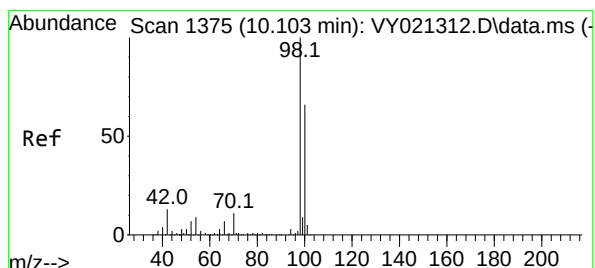
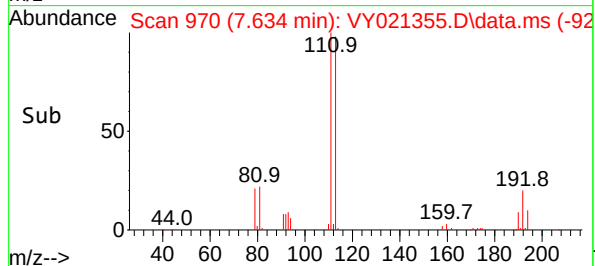
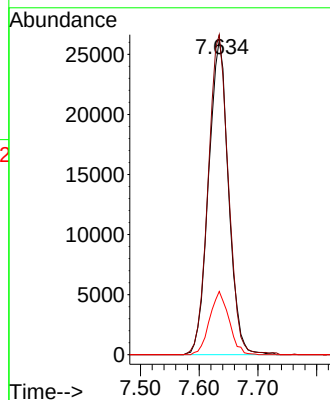
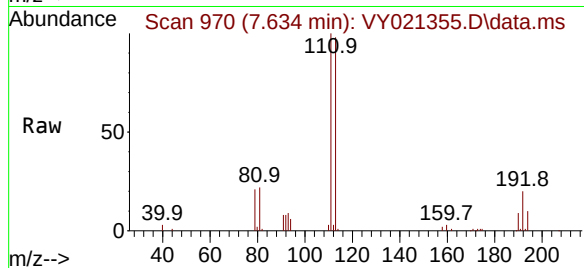
MSVOA_Y

ClientSampleId :

B-163-SB02RE

Tgt Ion:113 Resp: 61849

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.0	121.6
192	19.5	15.8	23.8



#50

Toluene-d8

Concen: 48.088 ug/l

RT: 10.103 min Scan# 1375

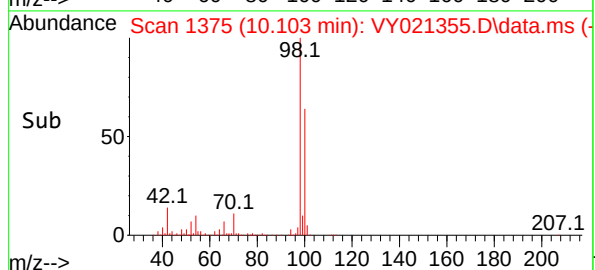
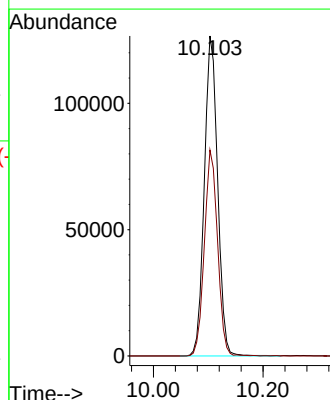
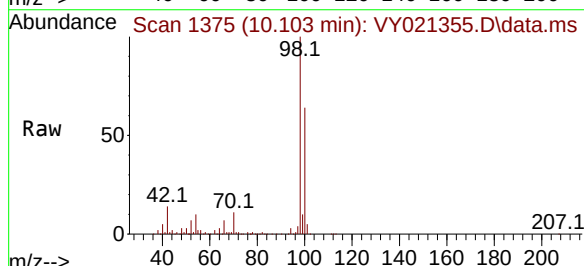
Delta R.T. 0.000 min

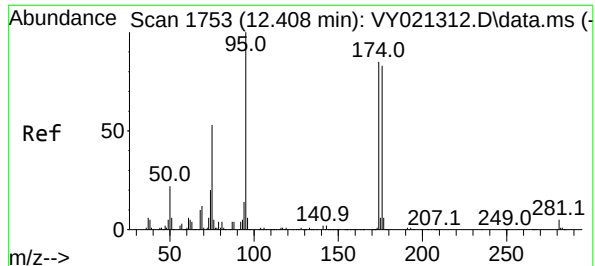
Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

Tgt Ion: 98 Resp: 212983

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.4	78.6

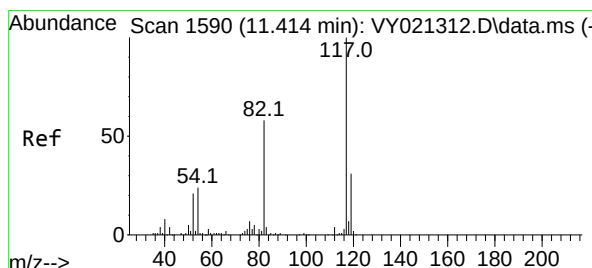
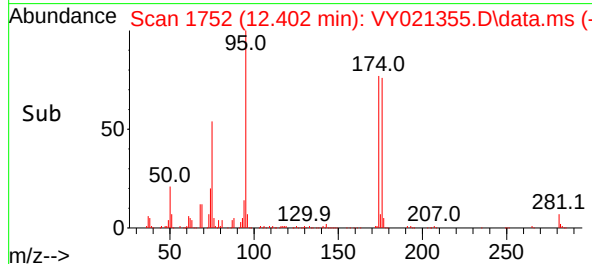
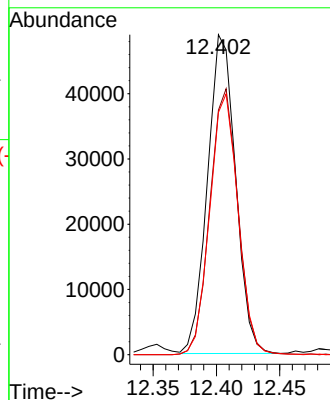
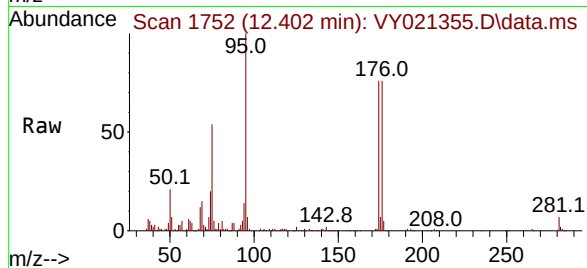




#62
4-Bromofluorobenzene
Concen: 50.668 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

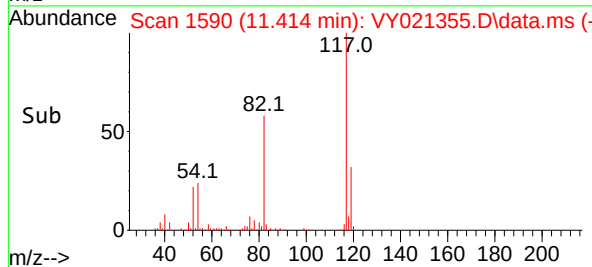
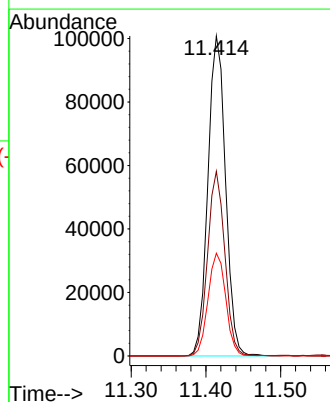
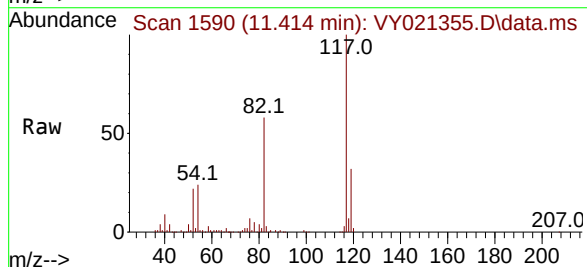
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

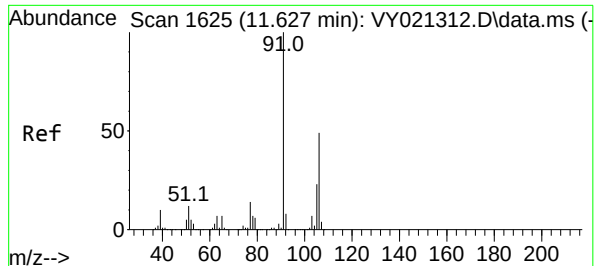
Tgt Ion: 95 Resp: 75524
Ion Ratio Lower Upper
95 100
174 83.8 0.0 168.0
176 82.3 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 117 Resp: 165444
Ion Ratio Lower Upper
117 100
82 57.7 46.2 69.4
119 32.1 24.9 37.3





#68

m/p-Xylenes

Concen: 1.751 ug/l

RT: 11.627 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

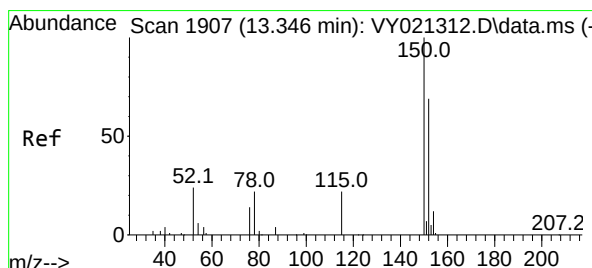
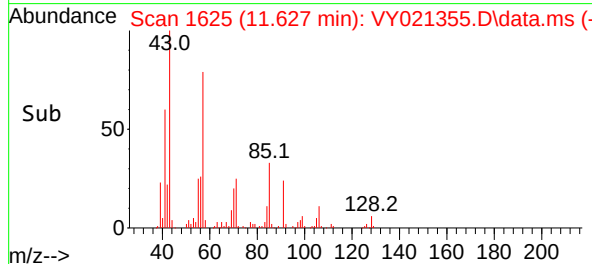
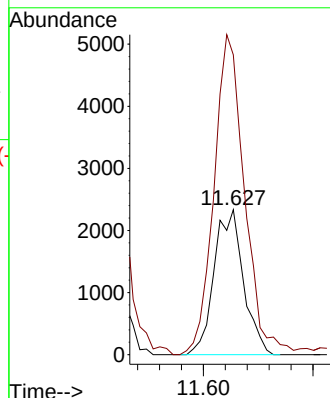
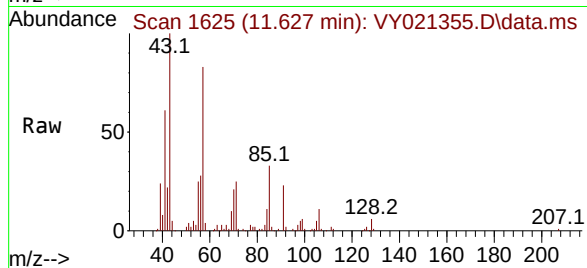
B-163-SB02RE

Tgt Ion:106 Resp: 4332

Ion Ratio Lower Upper

106 100

91 230.7 163.9 245.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021355.D

Acq: 27 Feb 2025 14:01

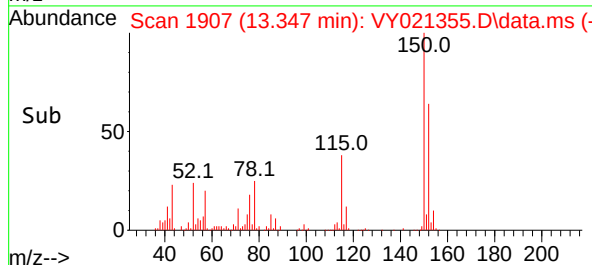
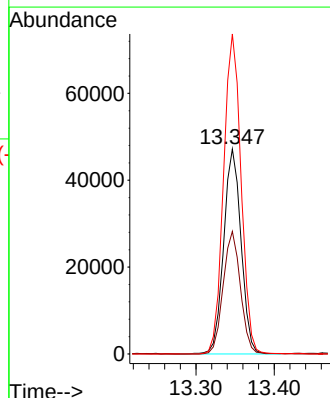
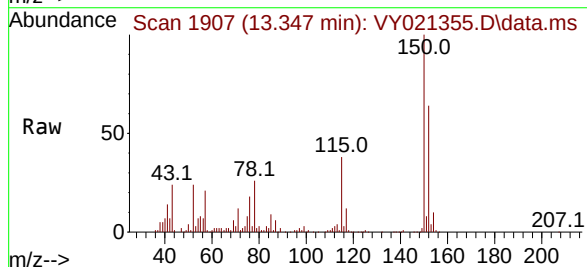
Tgt Ion:152 Resp: 72948

Ion Ratio Lower Upper

152 100

115 59.3 29.3 88.0

150 156.9 0.0 347.4



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 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
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.84	U	0.84	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	72.4		5.70	23.0	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.60	ug/Kg
79-20-9	Methyl Acetate	2.50	J	1.70	4.60	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.60	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	23.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.61	U	0.61	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	23.0	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.60	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	23.0	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.74	U	0.74	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.73	U	0.73	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.0	70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5	70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	45.8	70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.2	70 (29) - 130 (146)	70%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	274000	7.707
540-36-3	1,4-Difluorobenzene	518000	8.615
3114-55-4	Chlorobenzene-d5	415000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 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
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	14.9	J		2.84	ug/Kg
000287-92-3	Cyclopentane	120	J		4.71	ug/Kg
75-65-0	Tert butyl alcohol	91.2	J		4.84	ug/Kg
000124-18-5	Decane	7.30	J		12.7	ug/Kg
1000383-25-6	Carbonic acid, nonyl vinyl ester	5.50	J		13.7	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\VY022625\
 Data File : VY021337.D
 Acq On : 26 Feb 2025 17:24
 Operator : SY/MD
 Sample : Q1415-04
 Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-172-SB02

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:40:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	273603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	518008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414734	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	117278	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158234	50.981	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.960%			
35) Dibromofluoromethane	7.634	113	171658	50.546	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.100%			
50) Toluene-d8	10.103	98	600650	45.764	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 91.520%			
62) 4-Bromofluorobenzene	12.407	95	155529	35.210	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.420%			
Target Compounds						
11) Tert butyl alcohol	4.842	59	23623m	98.950	ug/l	
16) Acetone	3.866	43	46757	78.533	ug/l	92
18) Methyl Acetate	4.385	43	4019	2.762	ug/l	97

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

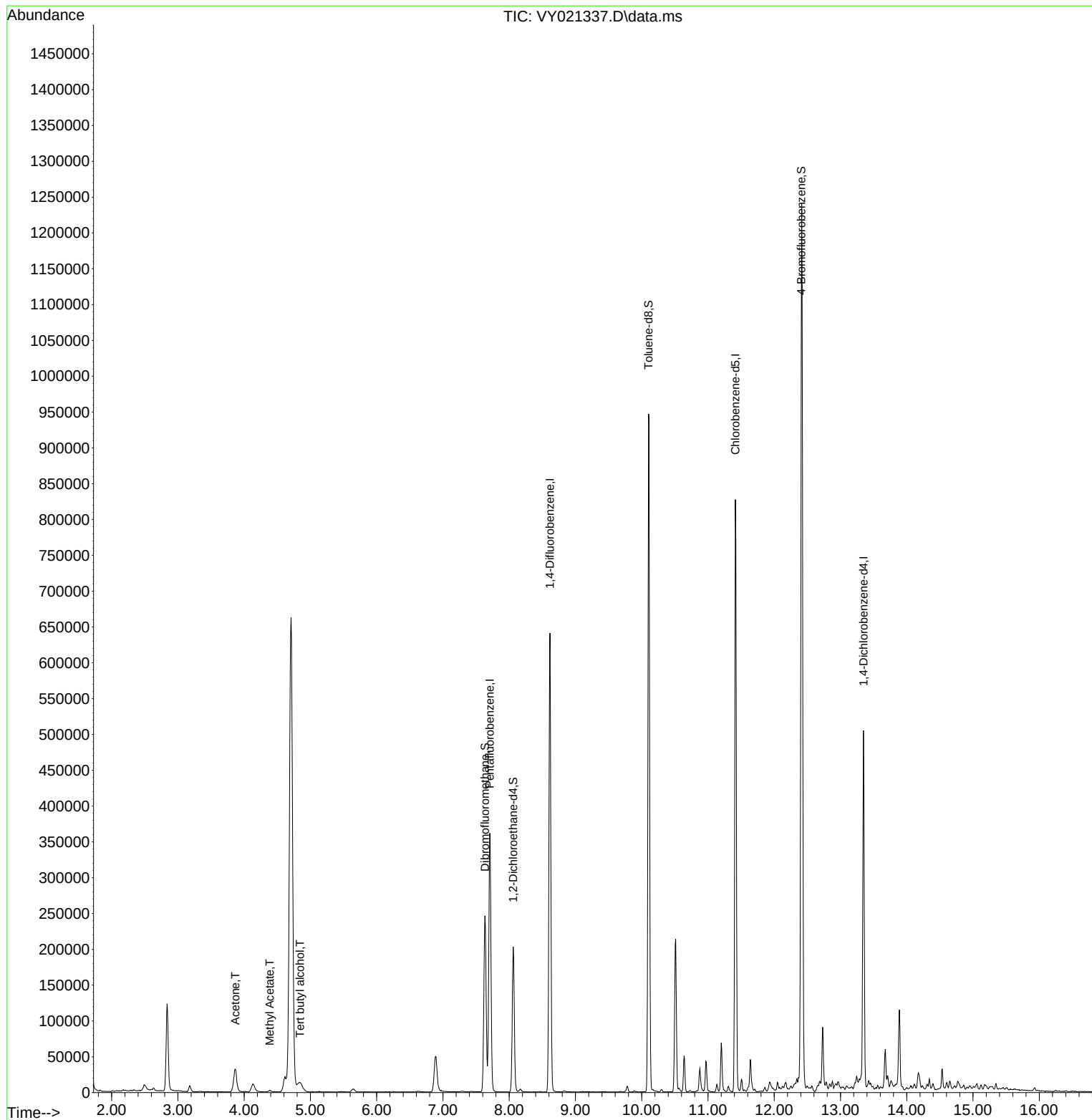
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

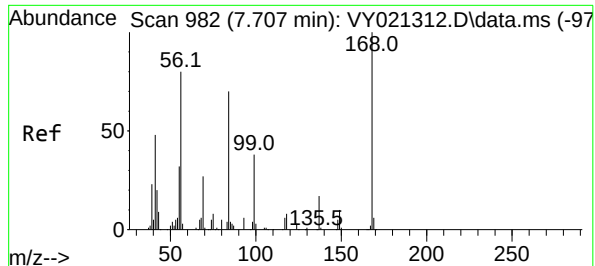
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Time: Feb 27 00:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

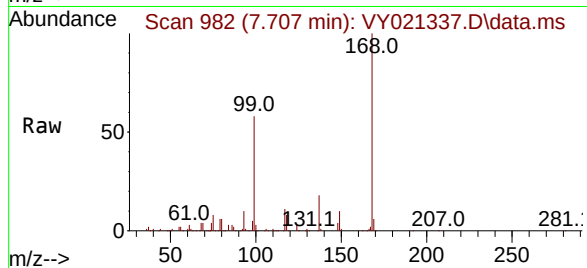
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

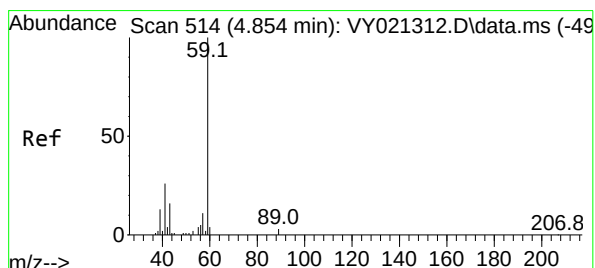
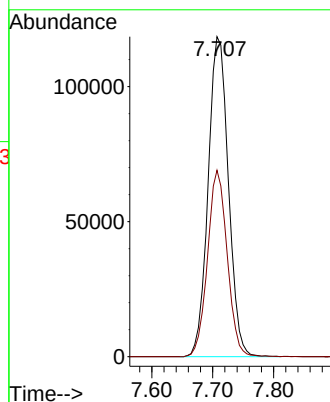
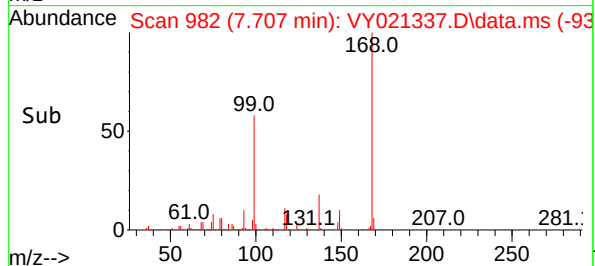
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02



Tgt Ion:168 Resp: 27360
Ion Ratio Lower Upper
168 100
99 58.3 47.1 70.7

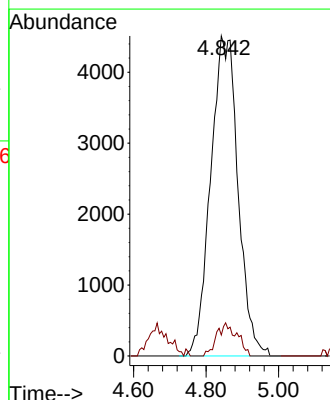
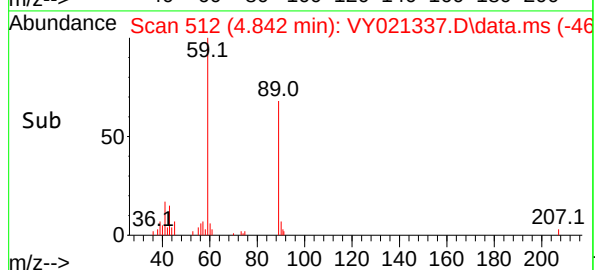
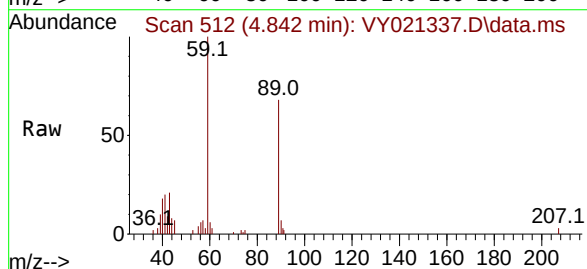
Manual Integrations
APPROVED

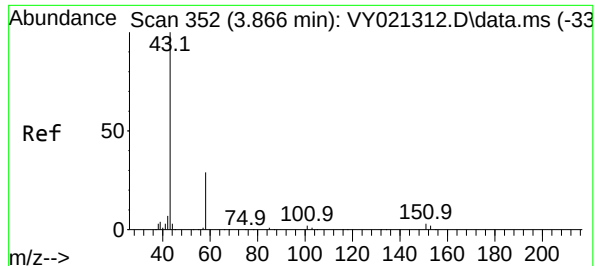
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#11
Tert butyl alcohol
Concen: 98.950 ug/l m
RT: 4.842 min Scan# 512
Delta R.T. -0.012 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 59 Resp: 23623
Ion Ratio Lower Upper
59 100
57 5.9 8.3 12.5#





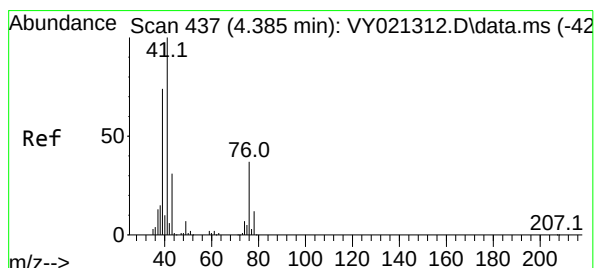
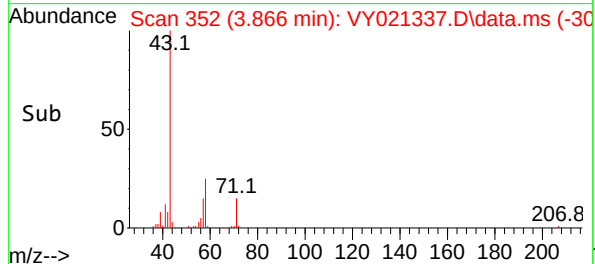
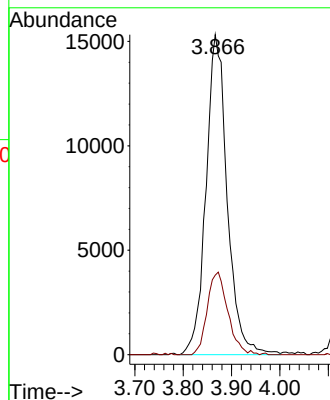
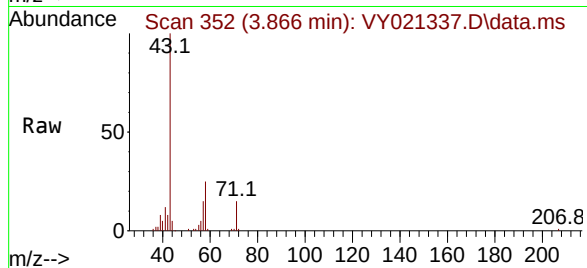
#16
Acetone
Concen: 78.533 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Tgt Ion: 43 Resp: 4675
Ion Ratio Lower Upper
43 100
58 24.8 23.5 35.3

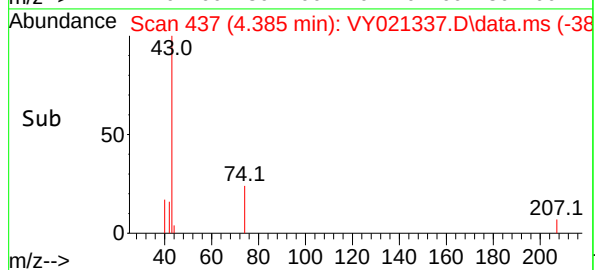
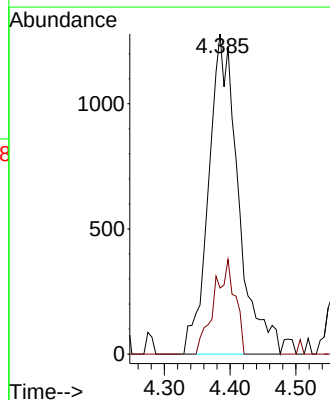
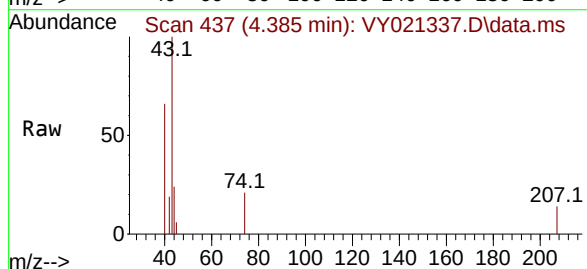
Manual Integrations
APPROVED

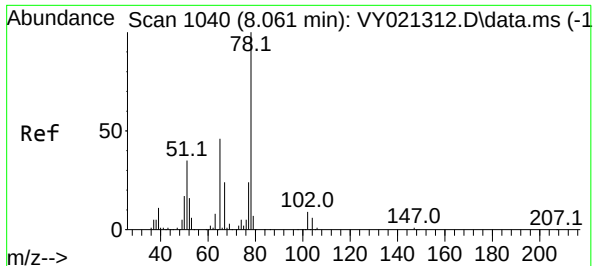
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#18
Methyl Acetate
Concen: 2.762 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 43 Resp: 4019
Ion Ratio Lower Upper
43 100
74 20.9 17.7 26.5





#33

1,2-Dichloroethane-d4

Concen: 50.981 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY021337.D

Acq: 26 Feb 2025 17:24

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB02

Tgt Ion: 65 Resp: 158234

Ion Ratio Lower Upper

65 100

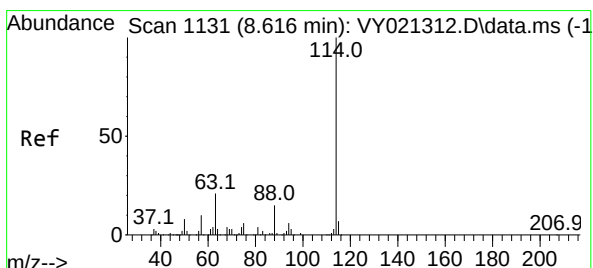
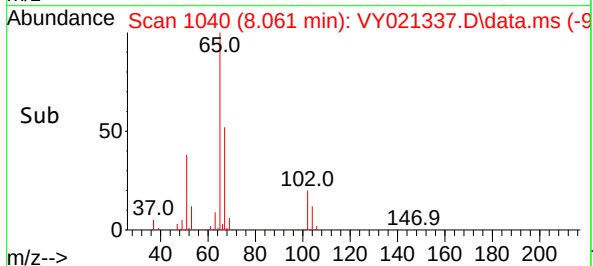
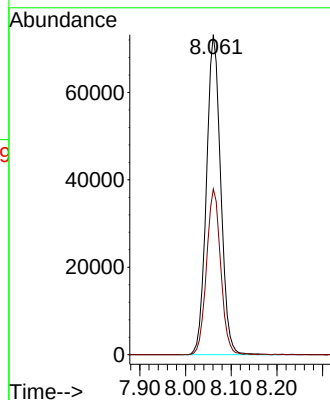
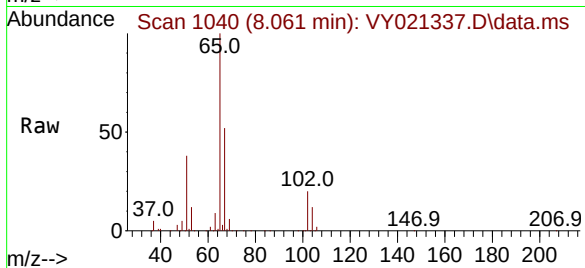
67 51.3 0.0 103.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY021337.D

Acq: 26 Feb 2025 17:24

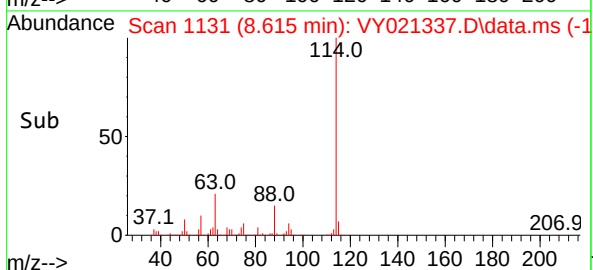
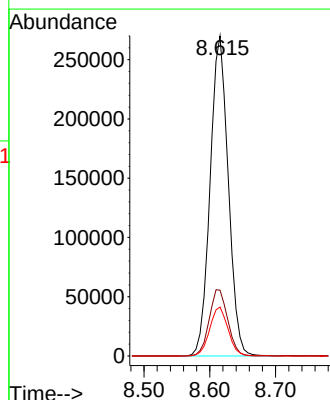
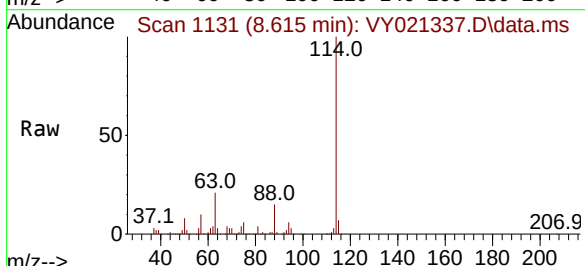
Tgt Ion:114 Resp: 518008

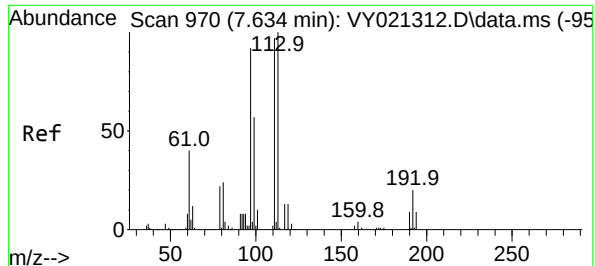
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.2

88 15.3 0.0 29.8





#35

Dibromofluoromethane

Concen: 50.546 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY021337.D

Acq: 26 Feb 2025 17:24

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB02

Tgt Ion:113 Resp: 171658

Ion Ratio Lower Upper

113 100

111 103.5 81.0 121.6

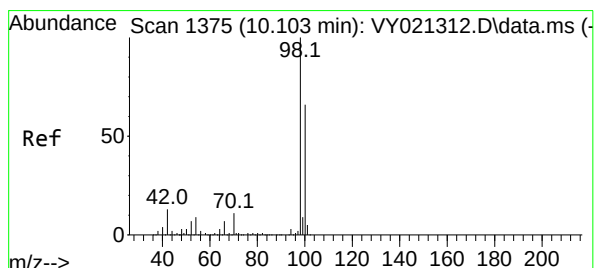
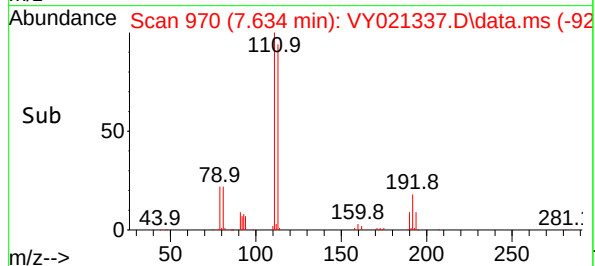
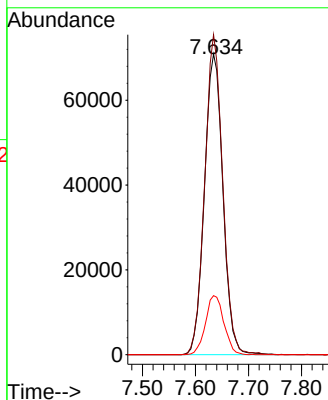
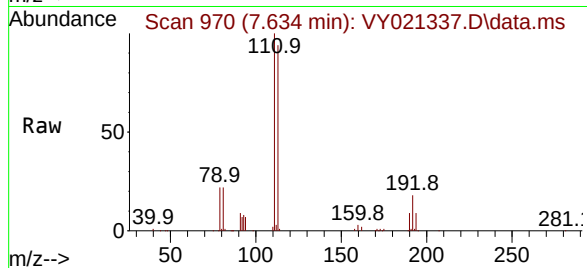
192 19.5 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

Toluene-d8

Concen: 45.764 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY021337.D

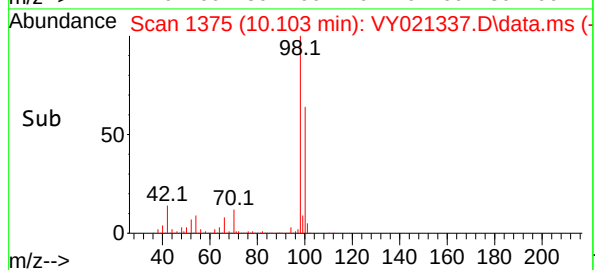
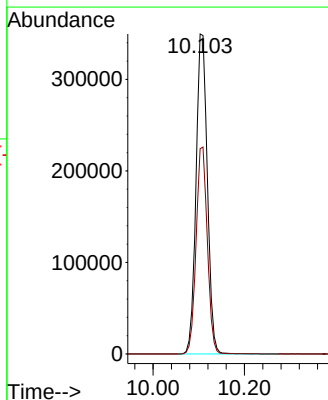
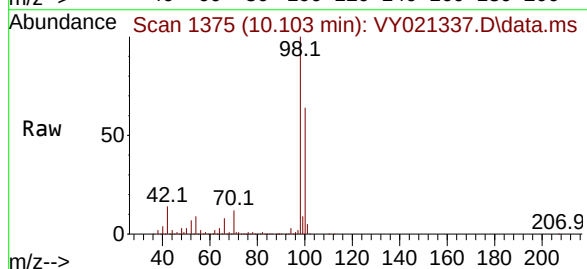
Acq: 26 Feb 2025 17:24

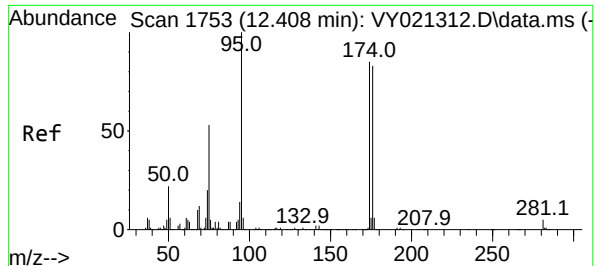
Tgt Ion: 98 Resp: 600650

Ion Ratio Lower Upper

98 100

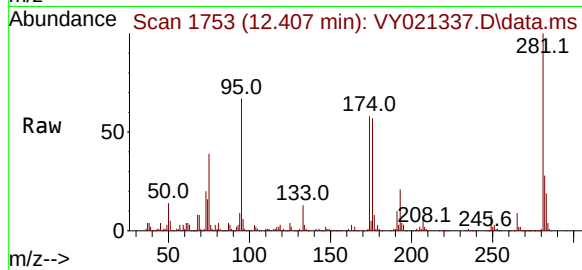
100 64.1 52.4 78.6





#62
4-Bromofluorobenzene
Concen: 35.210 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

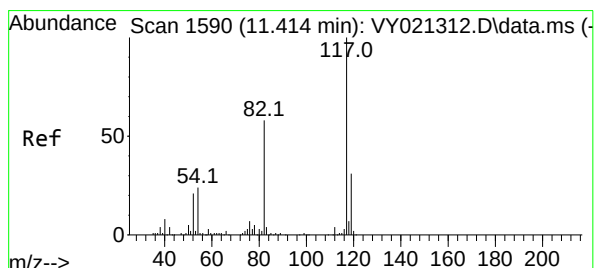
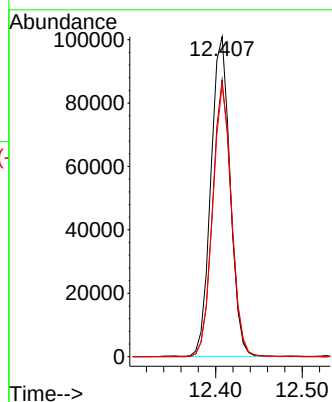
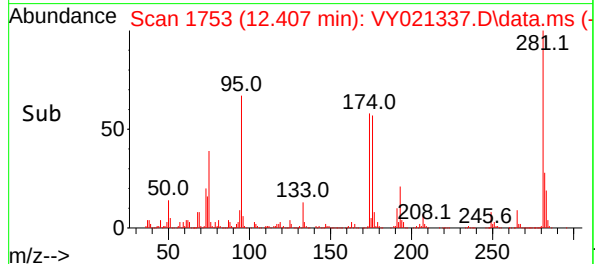
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02



Tgt Ion: 95 Resp: 155529
Ion Ratio Lower Upper
95 100
174 83.7 0.0 168.0
176 83.3 0.0 162.6

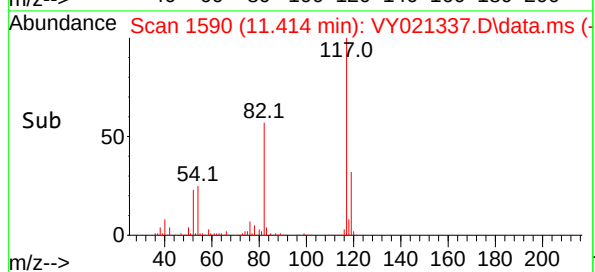
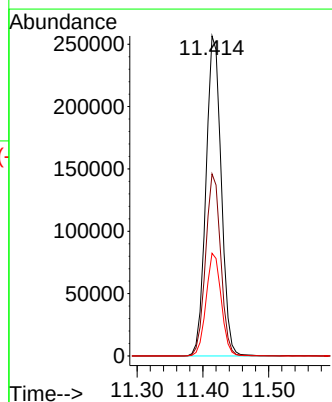
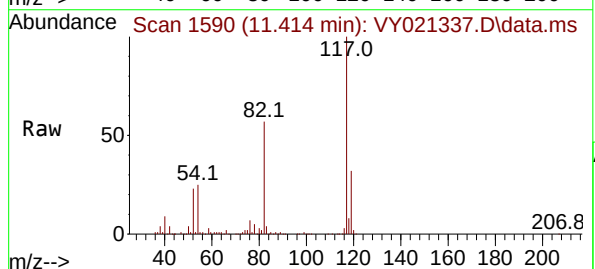
Manual Integrations
APPROVED

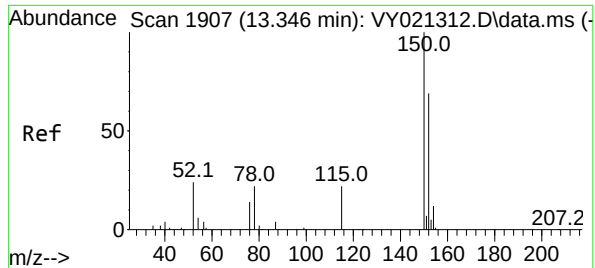
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:117 Resp: 414734
Ion Ratio Lower Upper
117 100
82 56.9 46.2 69.4
119 32.1 24.9 37.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY021337.D

Acq: 26 Feb 2025 17:24

Instrument :

MSVOA_Y

ClientSampleId :

B-172-SB02

Tgt Ion:152 Resp: 117278

Ion Ratio Lower Upper

152 100

115 58.8 29.3 88.0

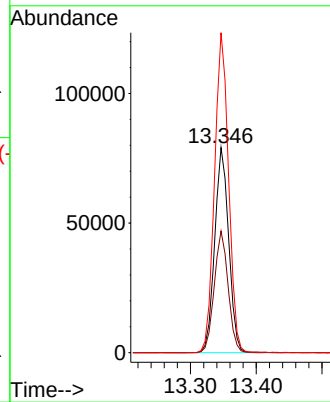
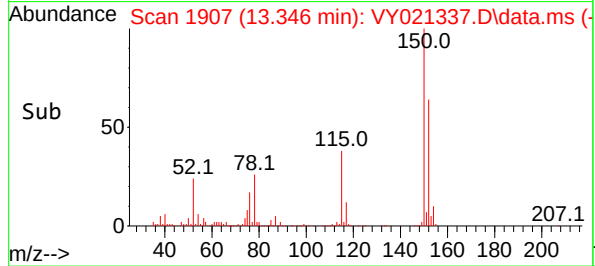
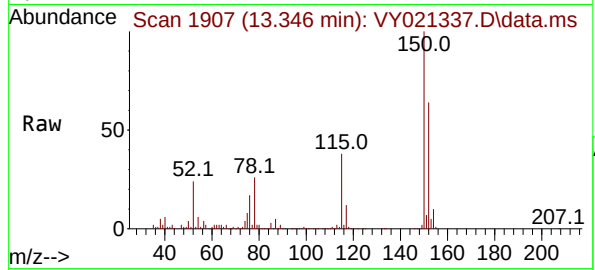
150 156.3 0.0 347.4

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021337.D
 Acq On : 26 Feb 2025 17:24
 Operator : SY/MD
 Sample : Q1415-04
 Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-172-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\82Y022525S.M
 Title : SW846 8260

Signal : TIC: VY021337.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	118	126	141	rBV10	8192	29291	1.24%	0.218%
2	2.836	174	183	196	rBV	121288	266964	11.33%	1.991%
3	3.866	338	352	369	rBV3	31706	107599	4.57%	0.802%
4	4.128	384	395	412	rBV3	11011	42374	1.80%	0.316%
5	4.616	459	475	477	rBV3	21350	54710	2.32%	0.408%
6	4.708	478	490	504	rVB	654190	2168493	92.03%	16.171%
7	6.890	835	848	859	rBV	49725	158440	6.72%	1.182%
8	7.634	960	970	976	rBV	245494	586943	24.91%	4.377%
9	7.707	976	982	998	rVB	360940	823553	34.95%	6.142%
10	8.061	1030	1040	1050	rBV	202770	442527	18.78%	3.300%
11	8.615	1122	1131	1147	rBV	640715	1247420	52.94%	9.303%
12	10.103	1367	1375	1384	rBV	946407	1628176	69.10%	12.142%
13	10.511	1434	1442	1449	rBV	213707	399582	16.96%	2.980%
14	10.640	1457	1463	1469	rVB	50255	81726	3.47%	0.609%
15	10.877	1496	1502	1511	rBV	31355	55756	2.37%	0.416%
16	10.969	1511	1517	1524	rVB	41059	65803	2.79%	0.491%
17	11.200	1549	1555	1567	rVB	68250	113634	4.82%	0.847%
18	11.414	1583	1590	1600	rBV	827016	1331779	56.52%	9.932%
19	11.505	1600	1605	1610	rVB	15901	23771	1.01%	0.177%
20	11.639	1617	1627	1636	rBV4	44418	88612	3.76%	0.661%
21	11.932	1668	1675	1682	rBV9	12576	34550	1.47%	0.258%
22	12.414	1747	1754	1764	rVB2	1235229	2356299	100.00%	17.572%
23	12.731	1801	1806	1812	rVV2	81523	122601	5.20%	0.914%
24	13.243	1881	1890	1894	rBV6	17482	44390	1.88%	0.331%
25	13.346	1898	1907	1914	rVB	497467	775885	32.93%	5.786%
26	13.676	1954	1961	1965	rBV4	54172	91958	3.90%	0.686%
27	13.889	1989	1996	2003	rVB2	107572	178791	7.59%	1.333%
28	14.175	2037	2043	2050	rBV5	21735	50260	2.13%	0.375%
29	14.535	2097	2102	2108	rVB2	26690	37535	1.59%	0.280%

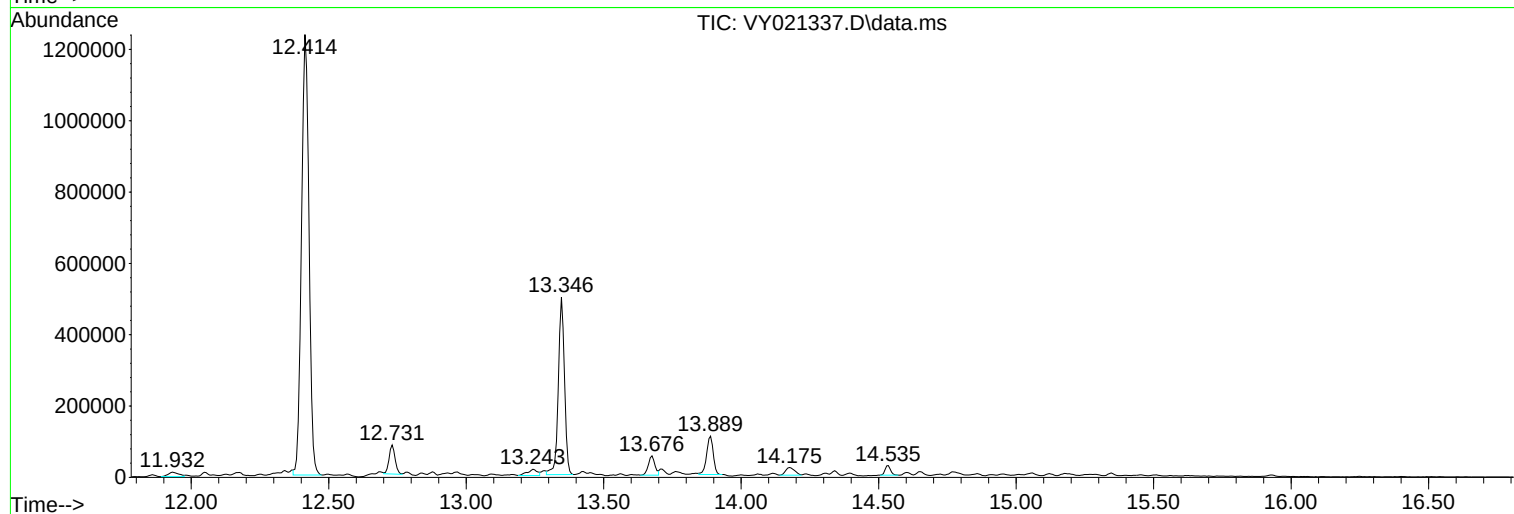
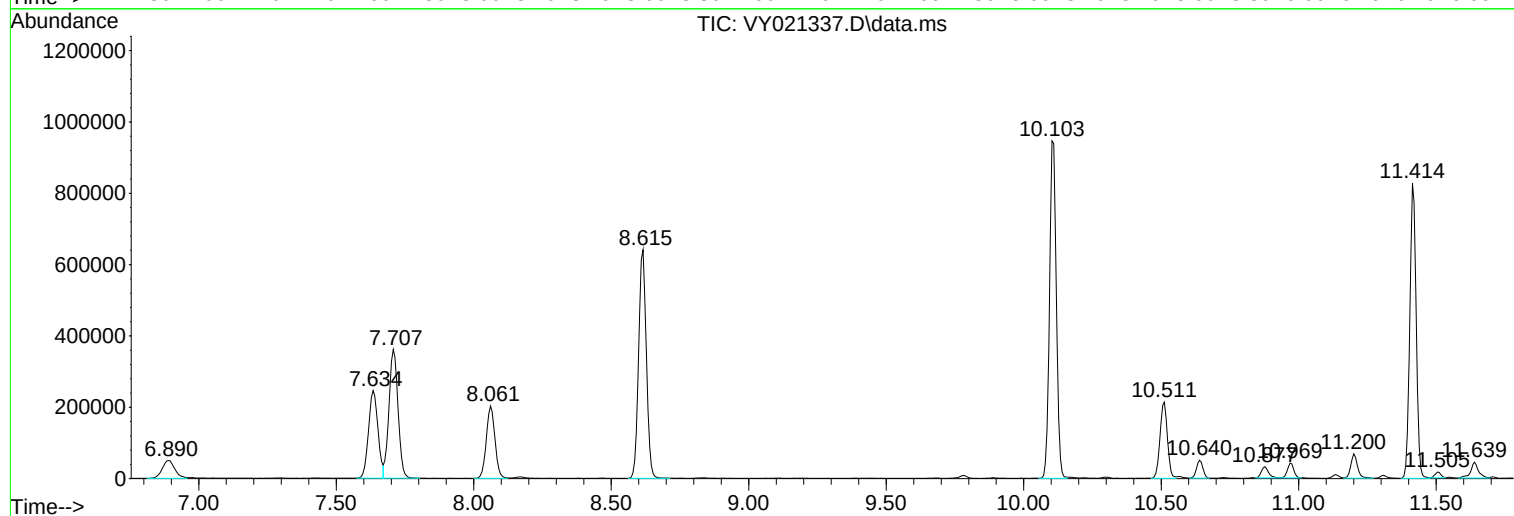
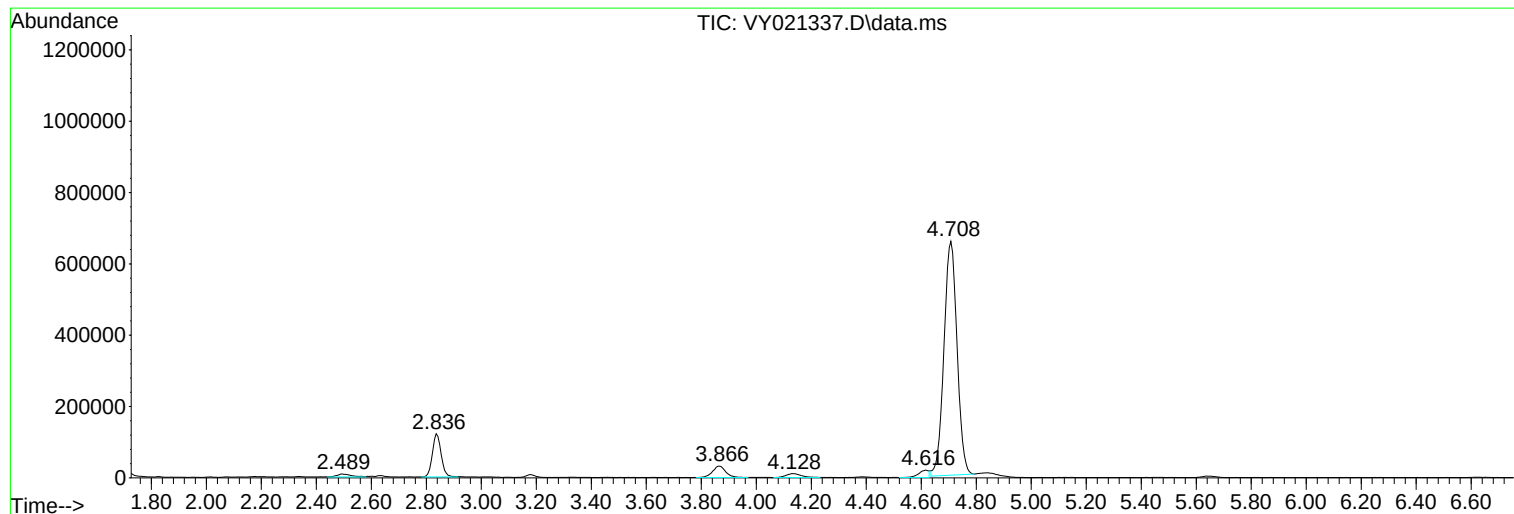
Sum of corrected areas: 13409422

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

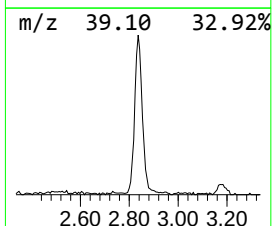
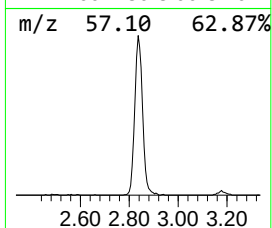
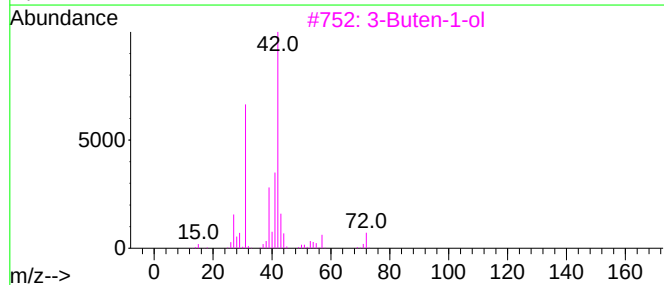
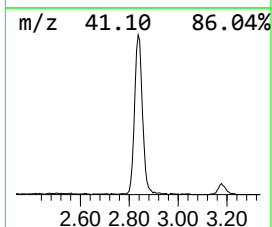
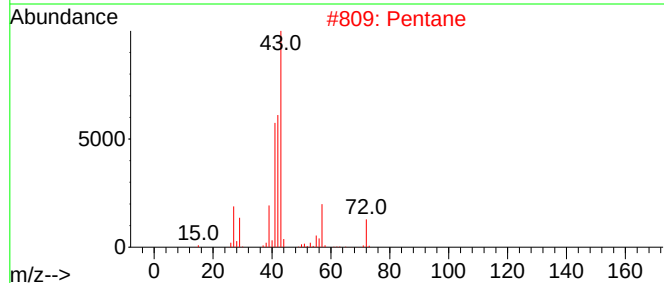
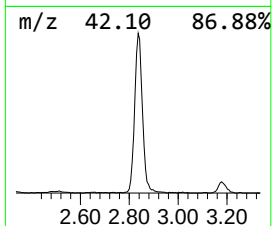
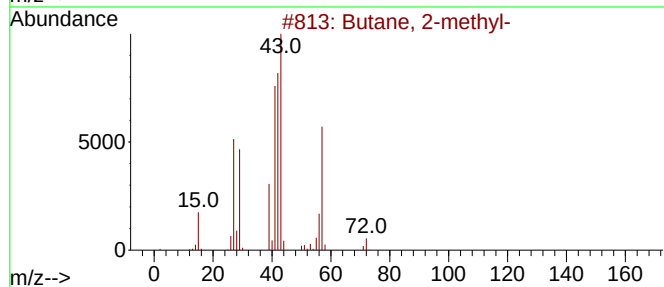
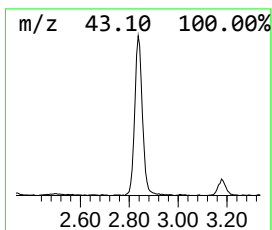
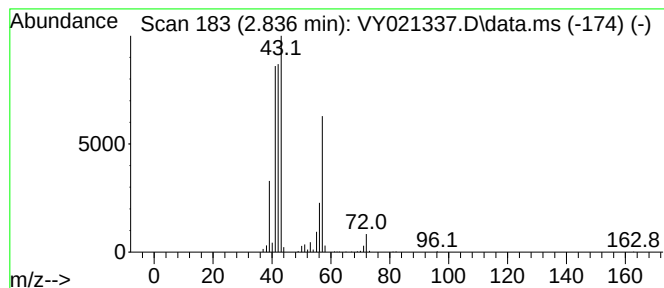
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	16.21 ug/l	266964	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methyl-	72	C5H12	000078-78-4	86
2			Pentane	72	C5H12	000109-66-0	59
3			3-Buten-1-ol	72	C4H8O	000627-27-0	47
4			1-Butene	56	C4H8	000106-98-9	14
5			Propane, 2-methyl-1-nitro-	103	C4H9NO2	000625-74-1	10



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

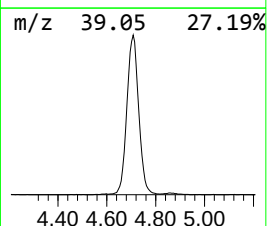
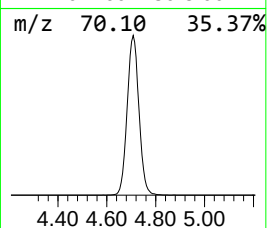
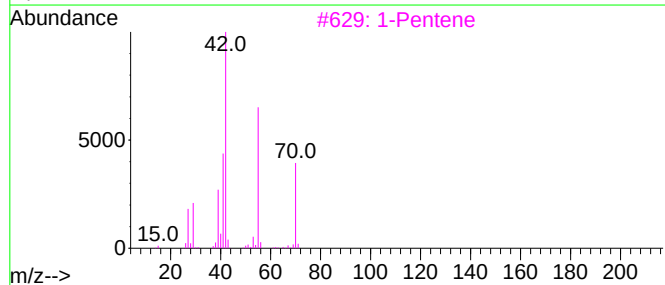
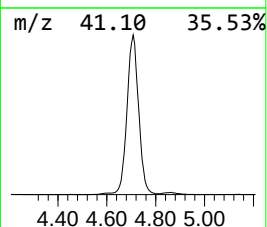
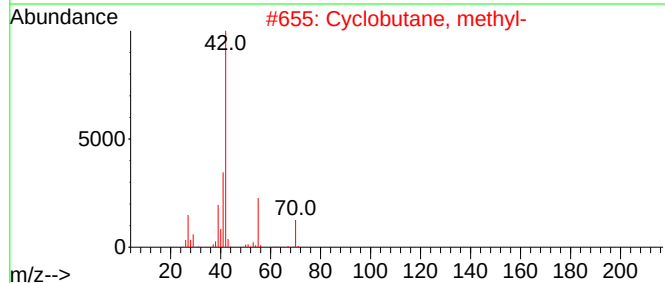
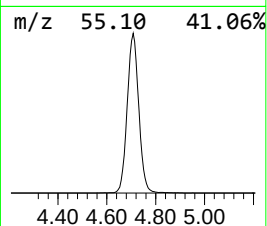
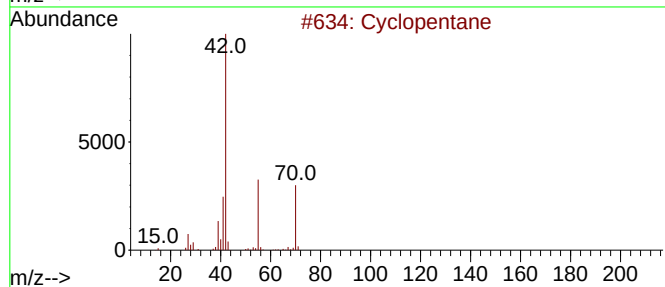
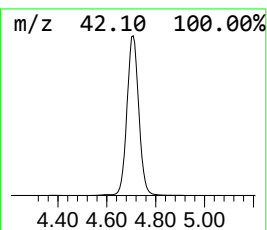
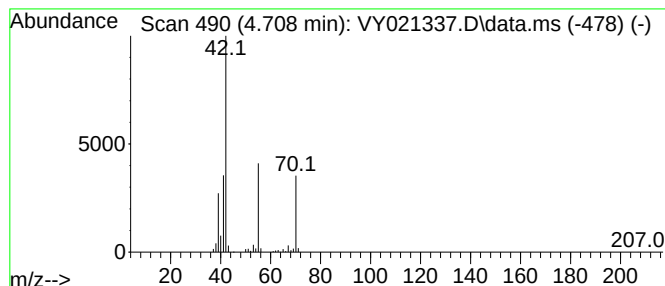
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	131.66 ug/l	2168490	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane	70	C5H10	000287-92-3	90
2			Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3			1-Pentene	70	C5H10	000109-67-1	49
4			Cyclopropane, ethyl-	70	C5H10	001191-96-4	39
5			Methyl propargyl ether	70	C4H6O	000627-41-8	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

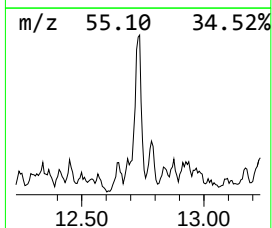
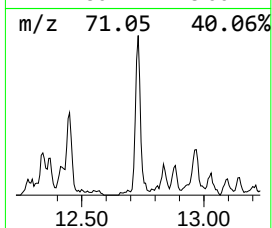
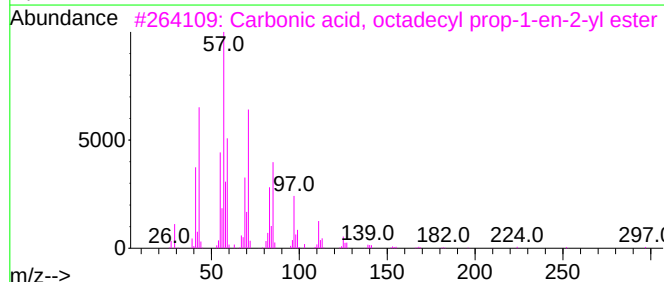
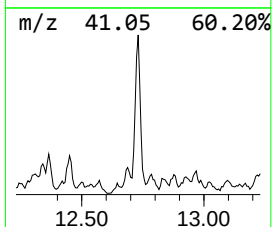
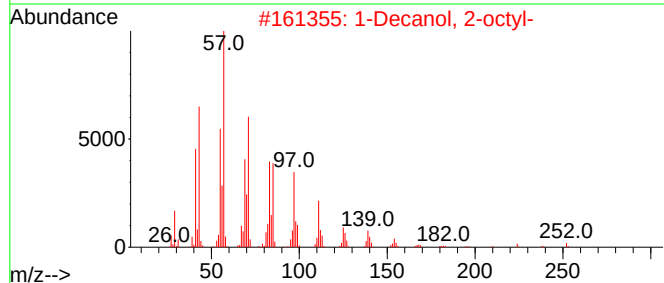
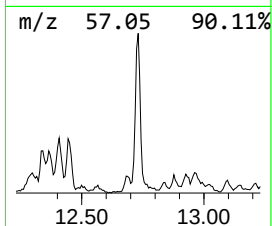
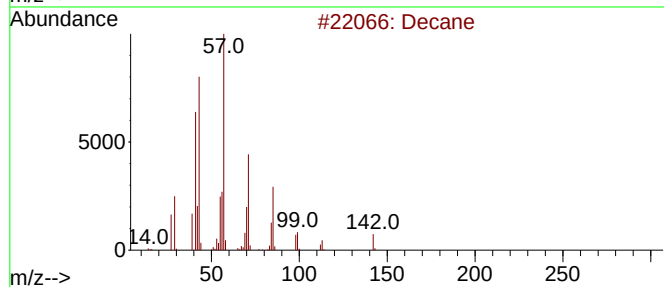
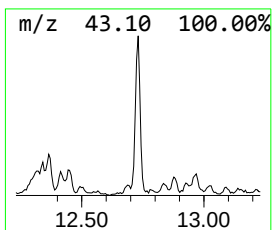
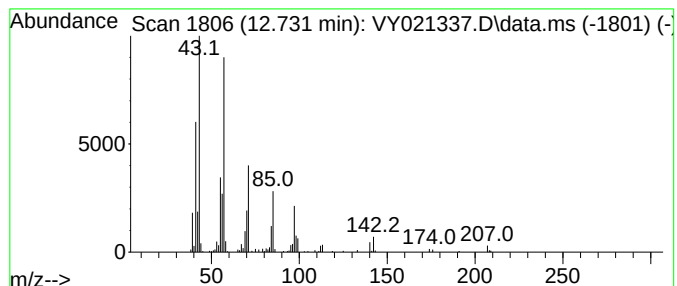
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 5 Decane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	7.90 ug/l	122601	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane	142	C10H22	000124-18-5	95
2			1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	78
3			Carbonic acid, octadecyl prop-1-en-2-yl ester	354	C22H42O3	1000383-11-5	72
4			Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	59
5			Undecane	156	C11H24	001120-21-4	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/soil/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

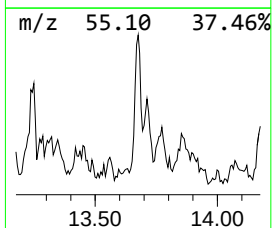
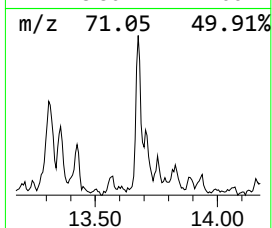
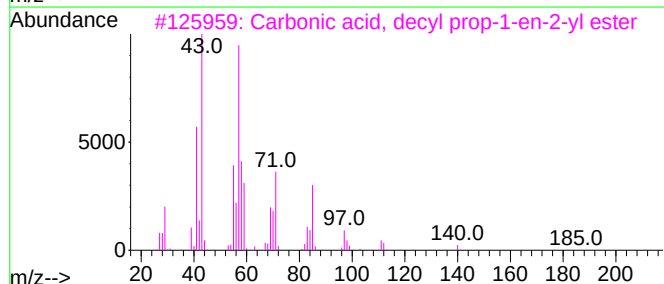
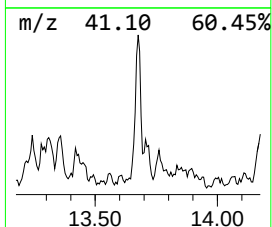
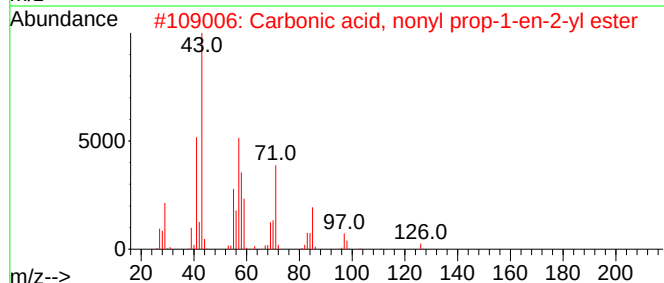
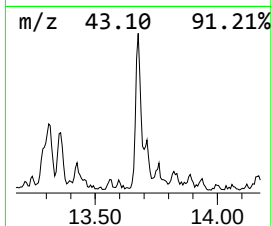
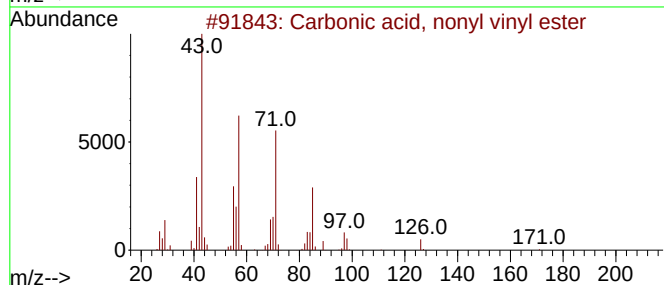
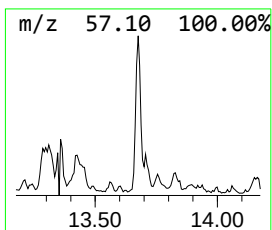
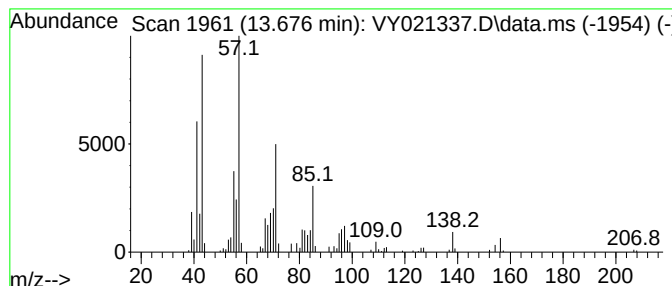
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

Peak Number 6 Carbonic acid, nonyl vinyl ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	5.93 ug/l	91958	1,4-Dichlorobenzene-d4	13.346

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	64
2			Carbonic acid, nonyl prop-1-en-2...	228	C13H24O3	1000382-53-9	64
3			Carbonic acid, decyl prop-1-en-2...	242	C14H26O3	1000382-90-5	59
4			Undecane	156	C11H24	001120-21-4	58
5			Carbonic acid, octyl vinyl ester	200	C11H20O3	1000383-25-5	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-methyl-	2.836	16.2	ug/l	266964	1	7.707	823553	50.0
Cyclopentane	4.708	131.7	ug/l	2168490	1	7.707	823553	50.0
Decane	12.731	7.9	ug/l	122601	4	13.346	775885	50.0
Carbonic acid, ...	13.676	5.9	ug/l	91958	4	13.346	775885	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	02/24/25	
Client Sample ID:	FB02222025		SDG No.:	Q1415	
Lab Sample ID:	Q1415-05		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:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	11.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	02/24/25	
Client Sample ID:	FB02222025			SDG No.:	Q1415	
Lab Sample ID:	Q1415-05			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:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (74) - 130 (125)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		70 (77) - 130 (121)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	8.224			
540-36-3	1,4-Difluorobenzene	393000	9.1			
3114-55-4	Chlorobenzene-d5	338000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	02/24/25	
Client Sample ID:	FB02222025		SDG No.:	Q1415	
Lab Sample ID:	Q1415-05		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:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085853.D
 Acq On : 25 Feb 2025 13:36
 Operator : JC\MD
 Sample : Q1415-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB02222025

Quant Time: Feb 25 23:33:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

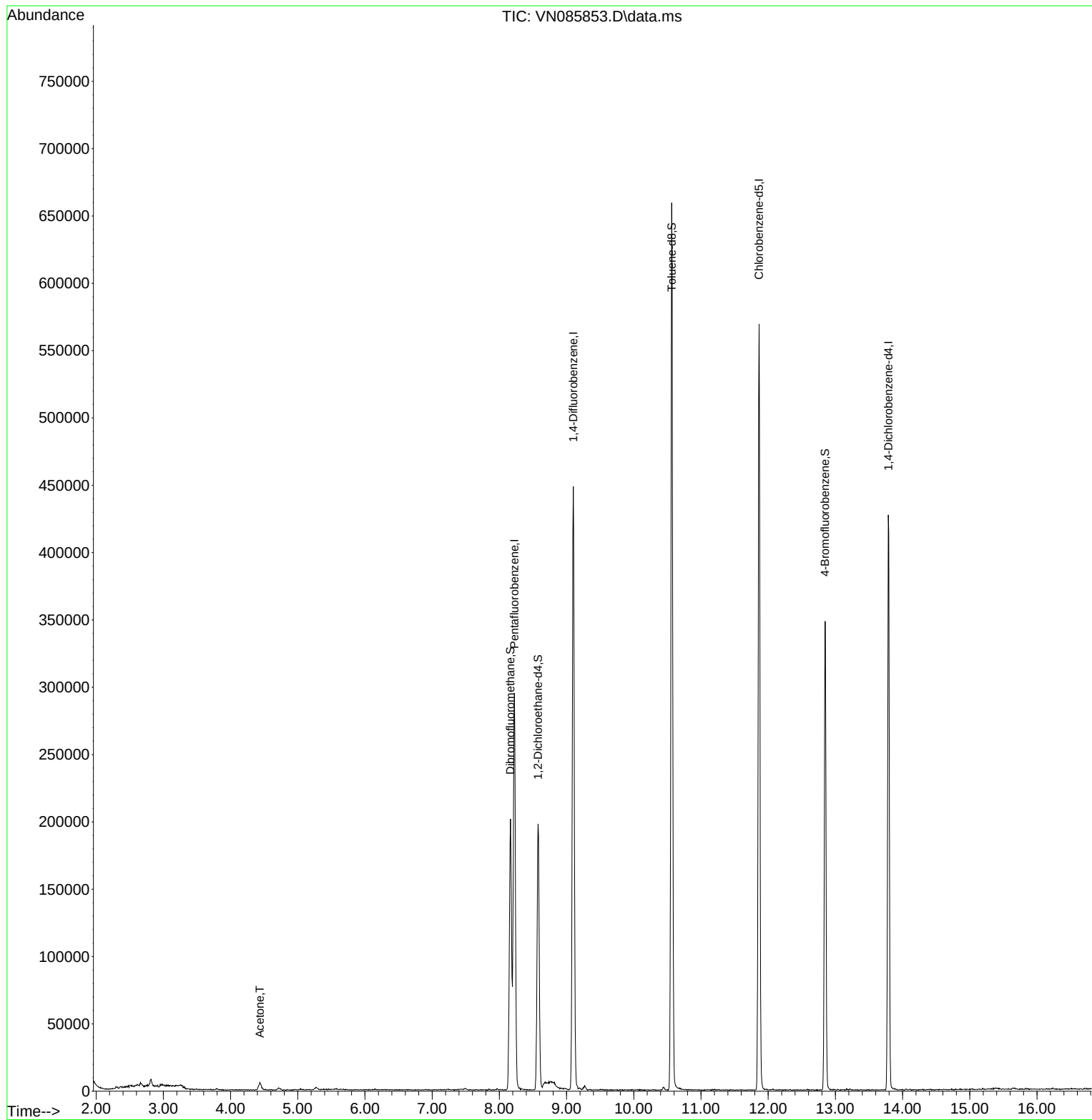
Internal Standards						
1) Pentafluorobenzene	8.224	168	210441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393207	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162083	59.408	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.820%			
35) Dibromofluoromethane	8.165	113	142826	55.510	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.020%			
50) Toluene-d8	10.565	98	459744	49.112	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.220%			
62) 4-Bromofluorobenzene	12.847	95	124996	40.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.060%			
Target Compounds						
16) Acetone	4.436	43	10019	11.606	ug/l	Qvalue 91

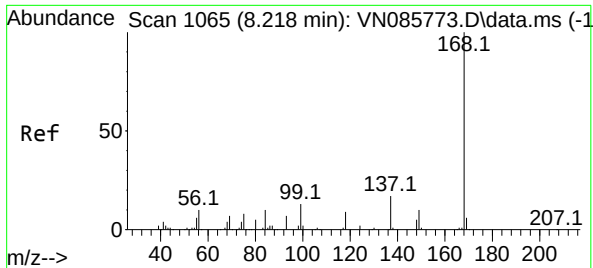
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Time: Feb 25 23:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

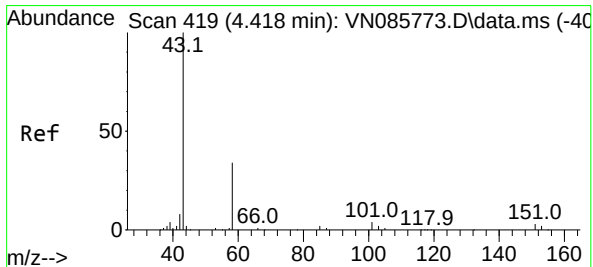
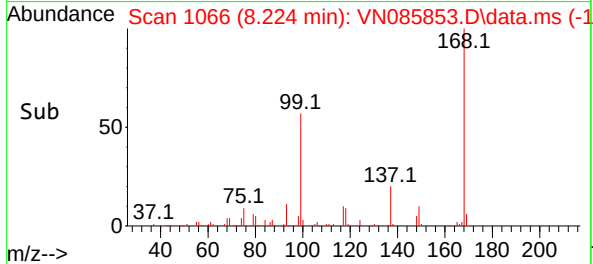
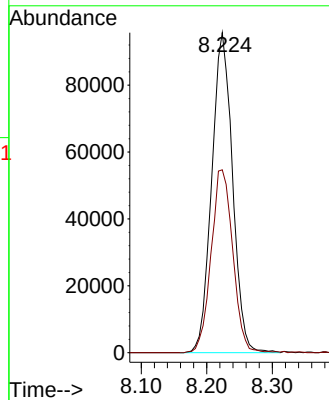
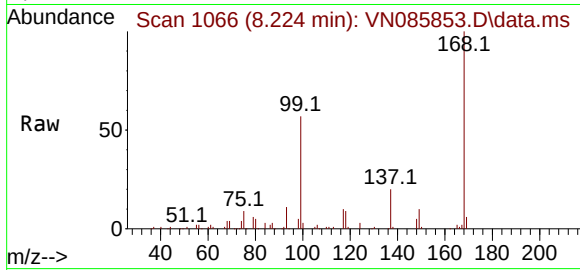




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

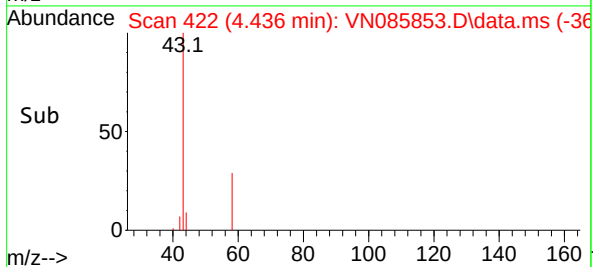
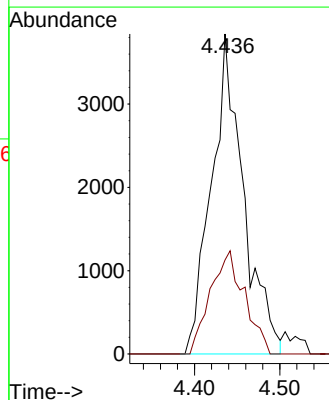
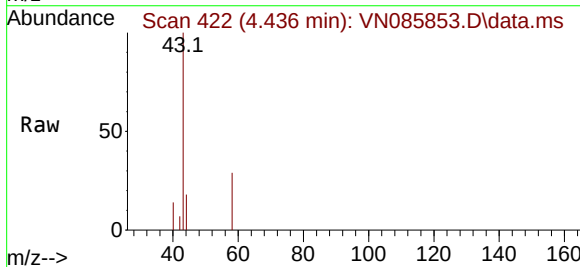
Instrument :
MSVOA_N
ClientSampleId :
FB02222025

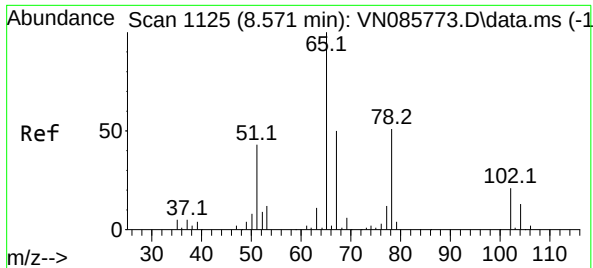
Tgt Ion:168 Resp: 210441
Ion Ratio Lower Upper
168 100
99 57.1 47.9 71.9



#16
Acetone
Concen: 11.606 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 43 Resp: 10019
Ion Ratio Lower Upper
43 100
58 29.4 27.5 41.3

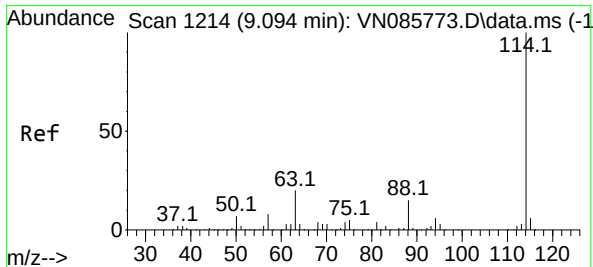
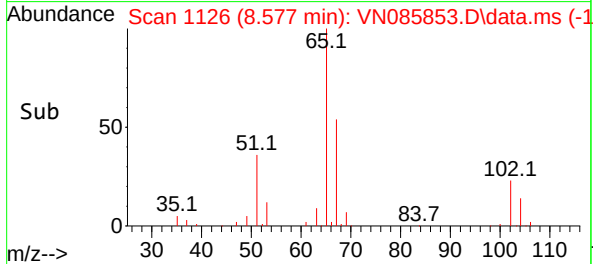
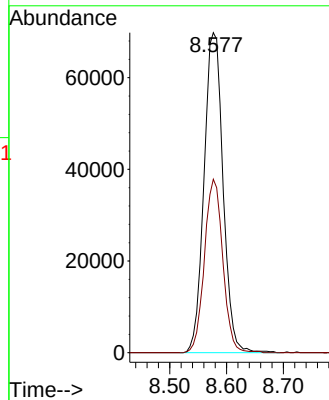
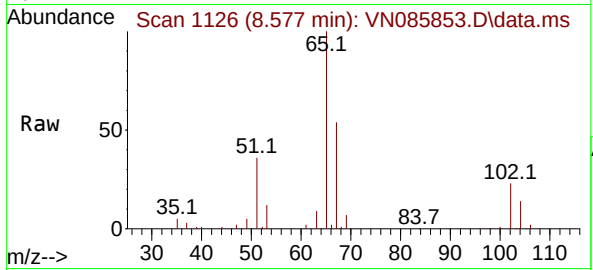




#33
1,2-Dichloroethane-d4
Concen: 59.408 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

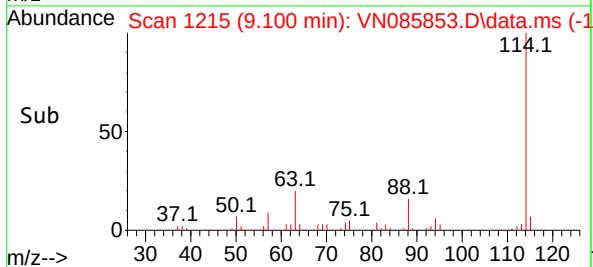
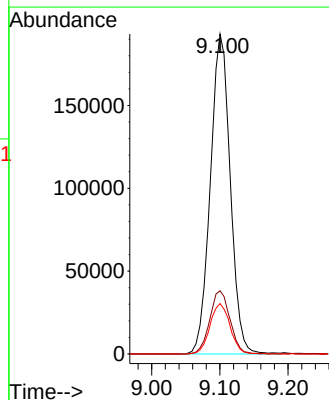
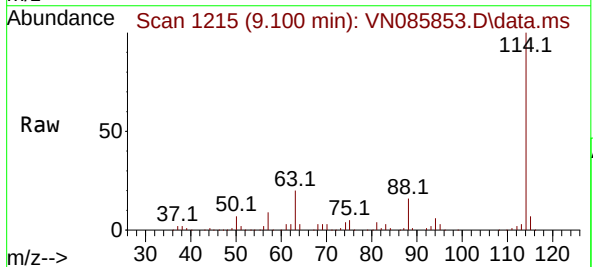
Instrument :
MSVOA_N
ClientSampleId :
FB02222025

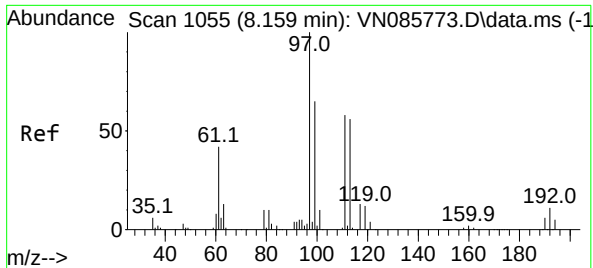
Tgt Ion: 65 Resp: 162083
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 114 Resp: 393207
Ion Ratio Lower Upper
114 100
63 19.8 0.0 39.2
88 15.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 55.510 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085853.D

Acq: 25 Feb 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

FB02222025

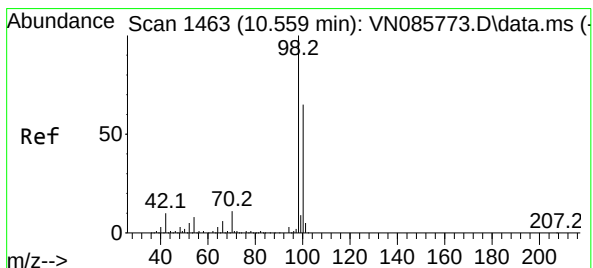
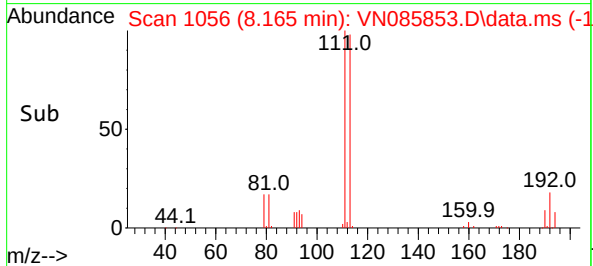
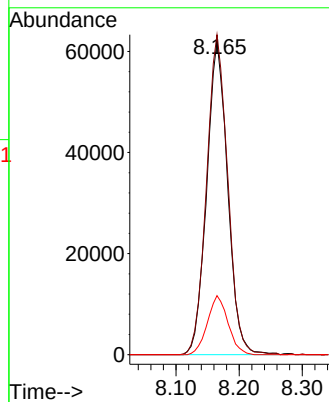
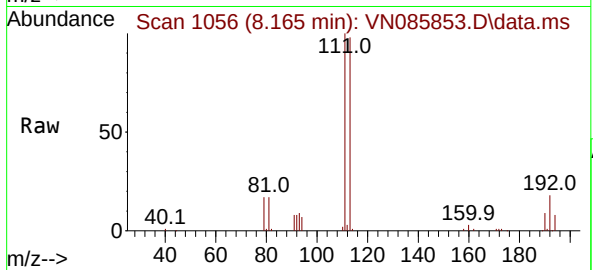
Tgt Ion:113 Resp: 142826

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

192 18.6 14.7 22.1



#50

Toluene-d8

Concen: 49.112 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085853.D

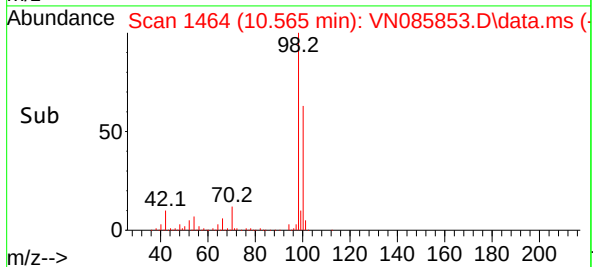
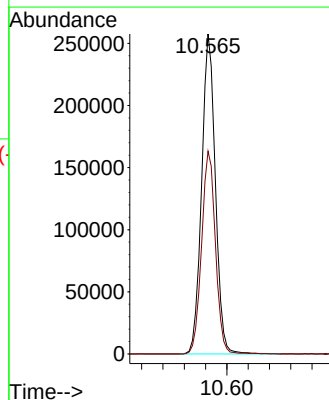
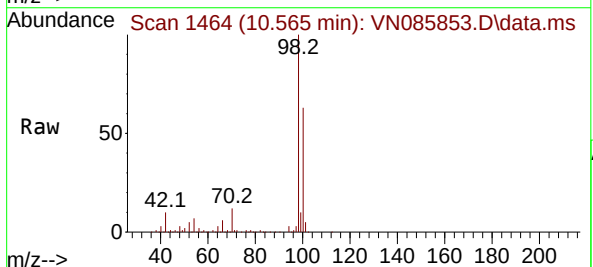
Acq: 25 Feb 2025 13:36

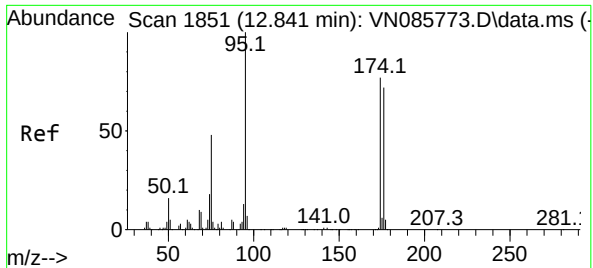
Tgt Ion: 98 Resp: 459744

Ion Ratio Lower Upper

98 100

100 64.0 52.1 78.1

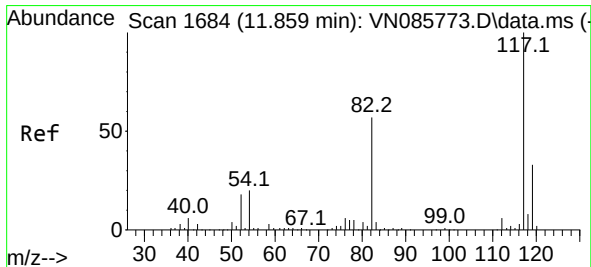
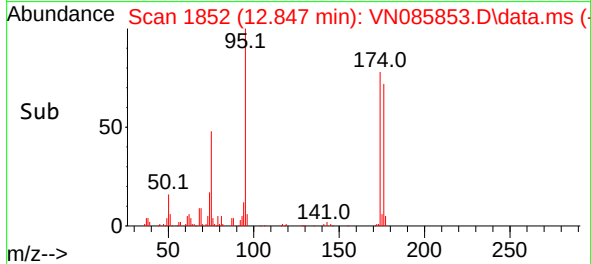
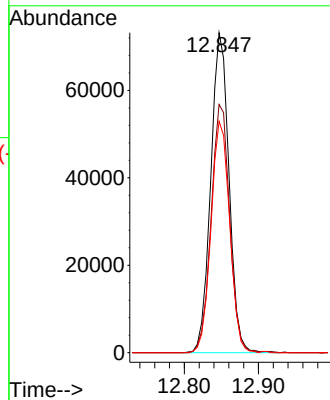
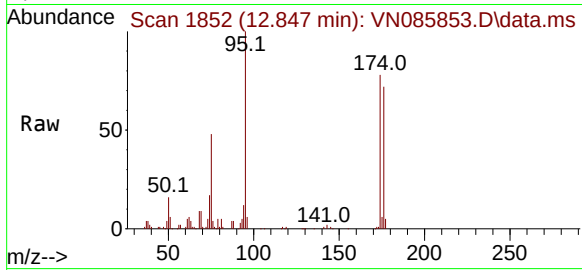




#62
4-Bromofluorobenzene
Concen: 40.526 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

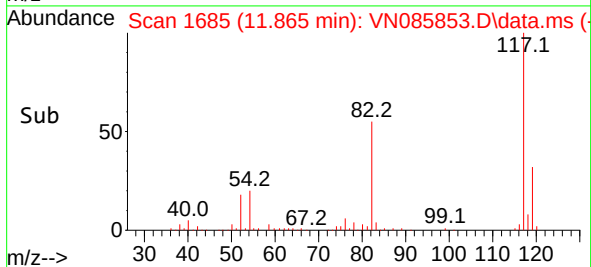
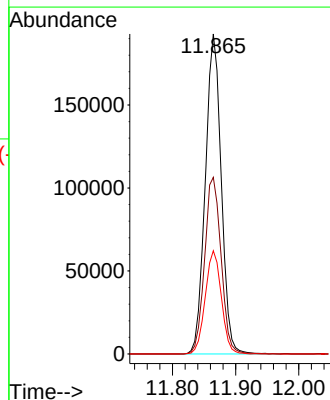
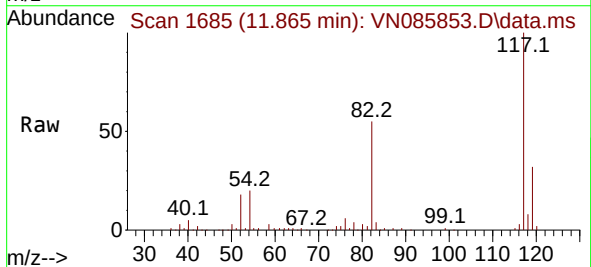
Instrument :
MSVOA_N
ClientSampleId :
FB02222025

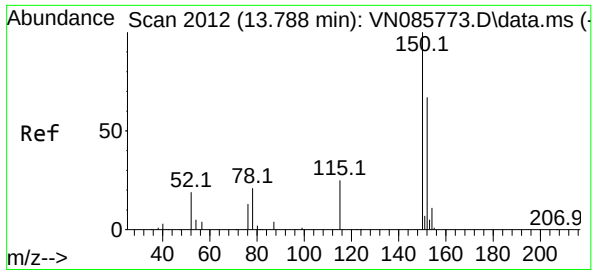
Tgt Ion: 95 Resp: 124996
Ion Ratio Lower Upper
95 100
174 79.2 0.0 152.4
176 73.9 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 117 Resp: 337792
Ion Ratio Lower Upper
117 100
82 55.2 45.7 68.5
119 32.2 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN085853.D

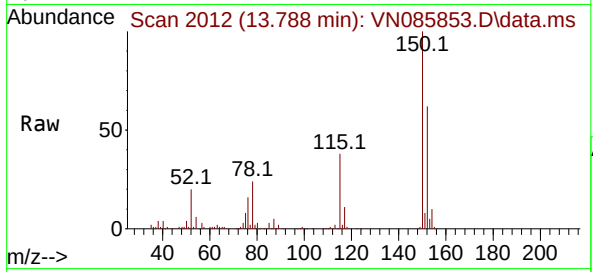
Acq: 25 Feb 2025 13:36

Instrument :

MSVOA_N

ClientSampleId :

FB02222025



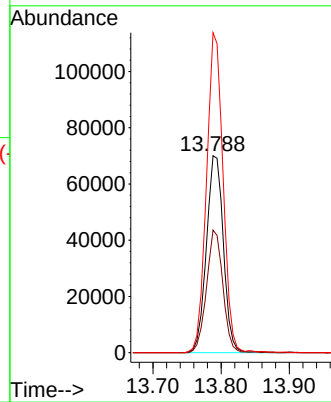
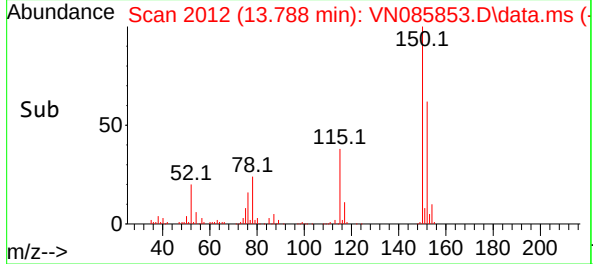
Tgt Ion:152 Resp: 121445

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.3

150 158.3 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.436	414	422	433	rBV2	5606	15522	1.31%	0.259%
2	8.165	1045	1056	1061	rBV	201248	473137	39.98%	7.883%
3	8.224	1061	1066	1077	rVB	293782	636495	53.78%	10.605%
4	8.577	1117	1126	1137	rBV	197513	443481	37.47%	7.389%
5	9.100	1205	1215	1227	rBV	448001	918122	77.58%	15.297%
6	10.565	1455	1464	1480	rBV	659016	1183494	100.00%	19.719%
7	11.865	1676	1685	1698	rBV	568781	1009063	85.26%	16.812%
8	12.847	1842	1852	1865	rBV	348267	601799	50.85%	10.027%
9	13.788	2005	2012	2021	rBV	426992	720821	60.91%	12.010%

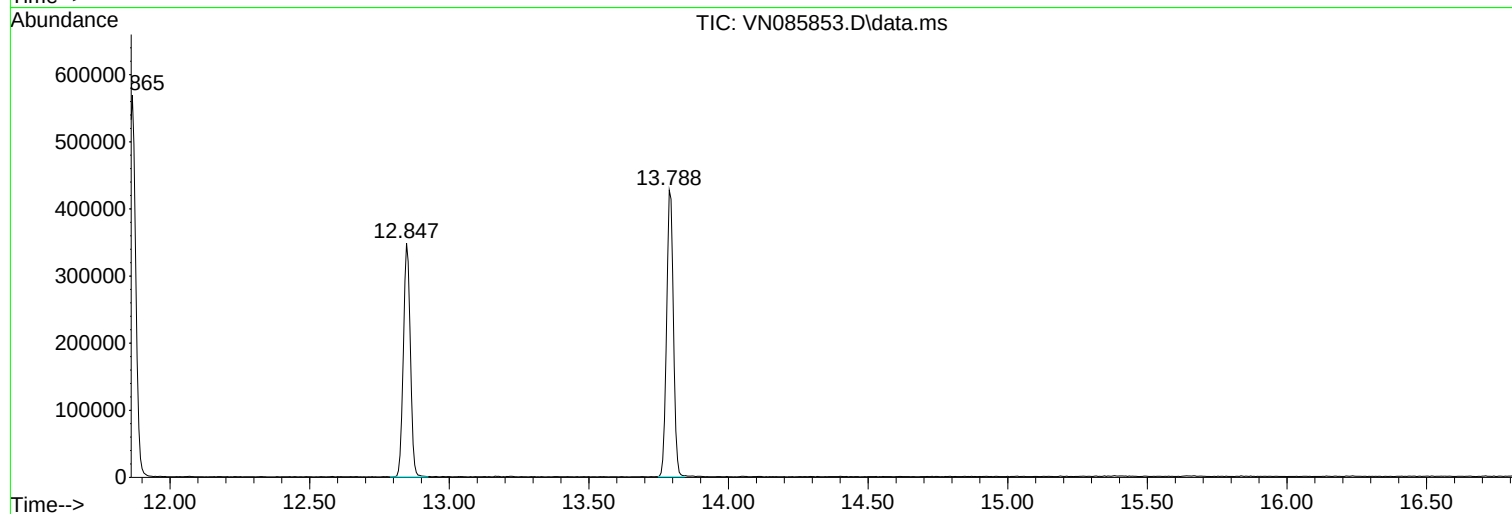
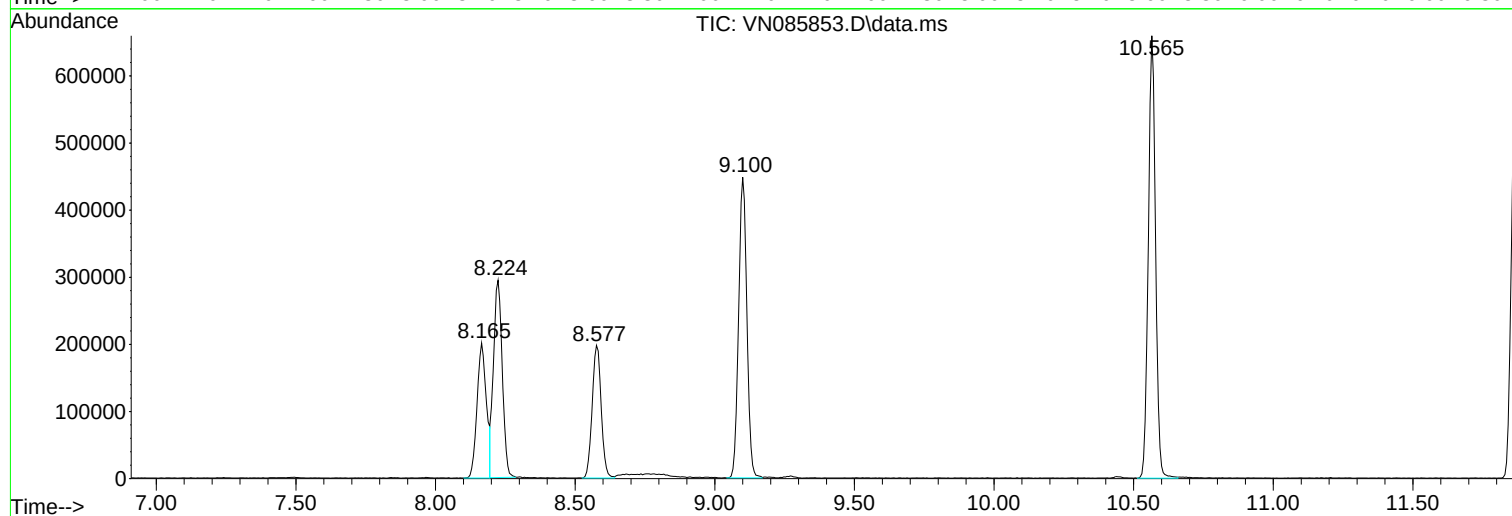
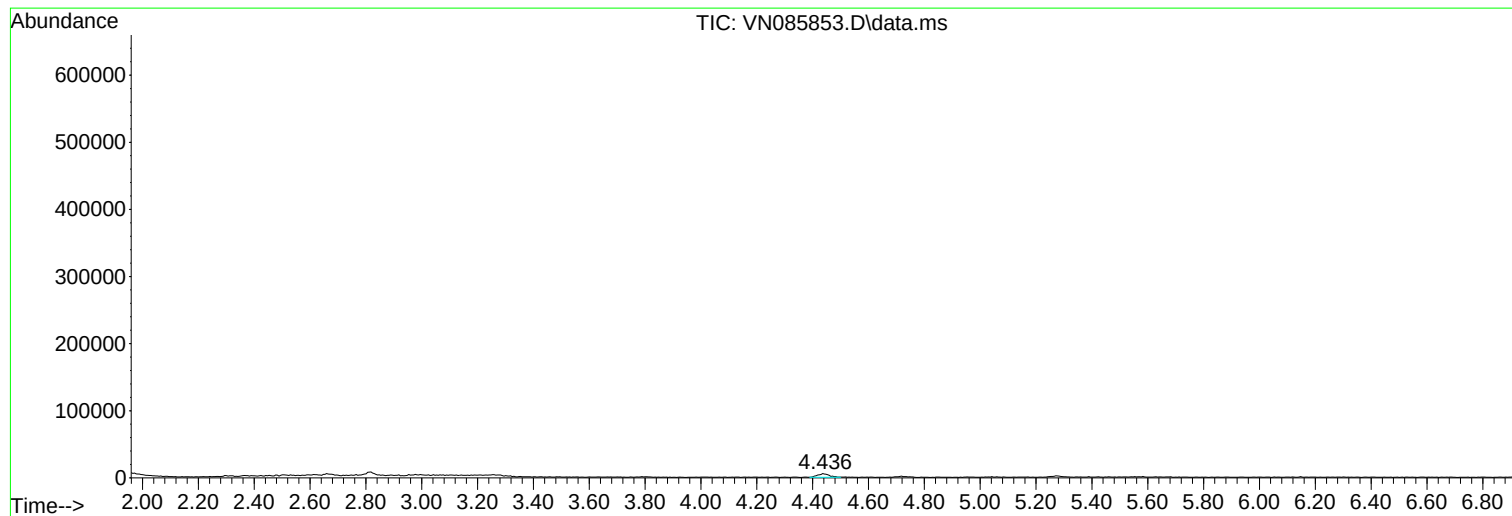
Sum of corrected areas: 6001934

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	9.10		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	2.50		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	02/24/25	
Client Sample ID:	B-173-GW01			SDG No.:	Q1415	
Lab Sample ID:	Q1415-06			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:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.4		70 (74) - 130 (125)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	417000	9.1			
3114-55-4	Chlorobenzene-d5	372000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085844.D
 Acq On : 24 Feb 2025 18:02
 Operator : JC\MD
 Sample : Q1415-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-173-GW01

Quant Time: Feb 25 01:58:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

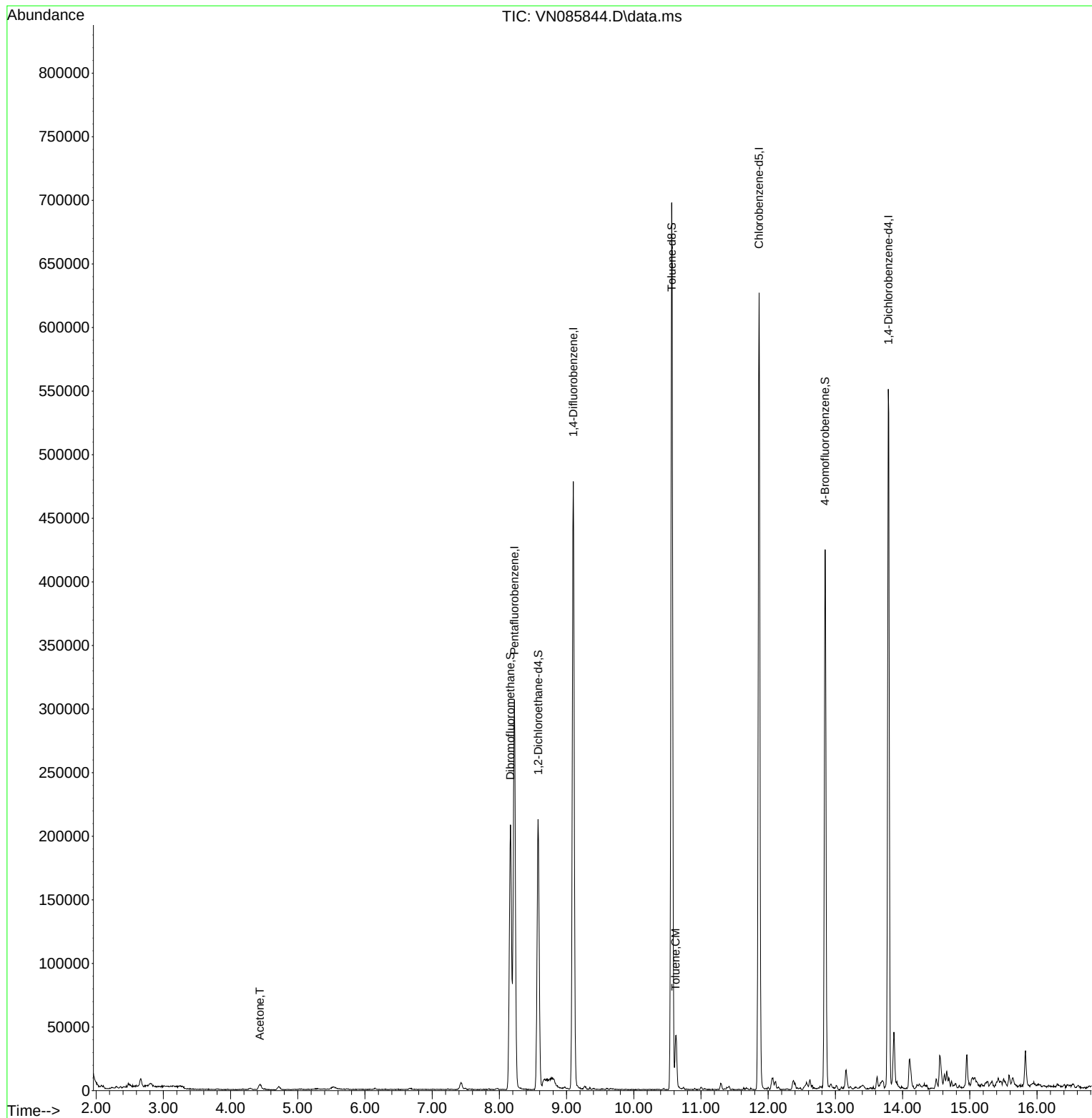
Internal Standards						
1) Pentafluorobenzene	8.224	168	217128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	416577	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372406	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	170001	60.391	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	120.780%
35) Dibromofluoromethane	8.165	113	151695	55.650	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	111.300%
50) Toluene-d8	10.565	98	493499	49.760	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.520%
62) 4-Bromofluorobenzene	12.847	95	152352	46.625	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.240%
Target Compounds						
16) Acetone	4.436	43	8069	9.059	ug/l	93
52) Toluene	10.623	92	18152	2.504	ug/l	97

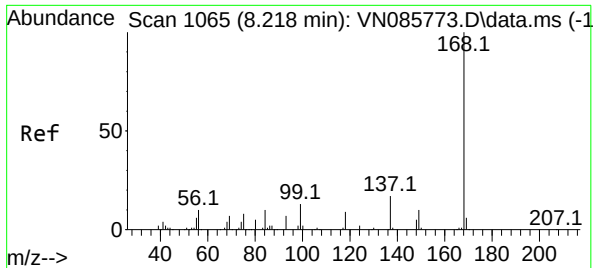
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Time: Feb 25 01:58:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

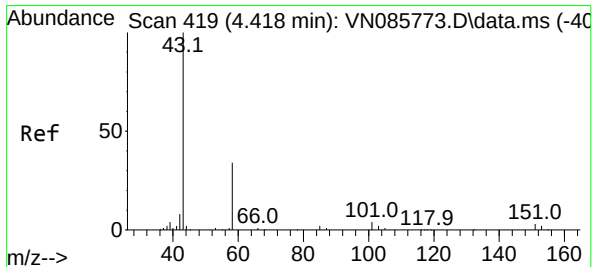
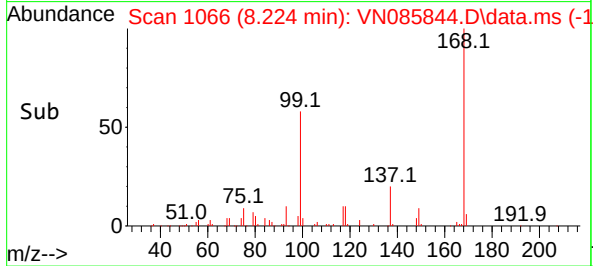
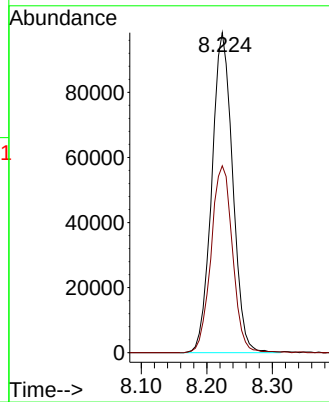
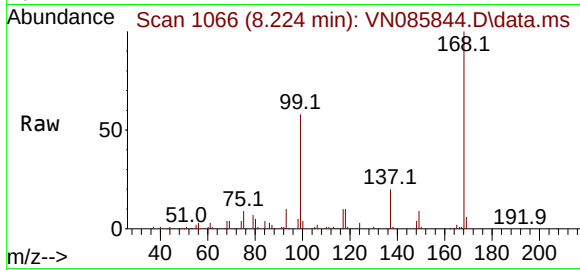




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

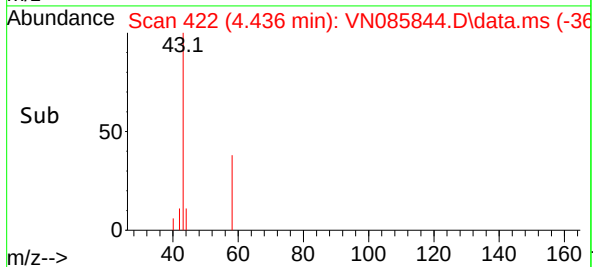
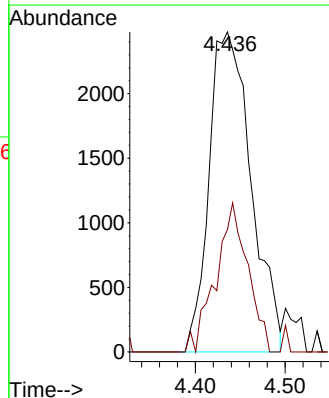
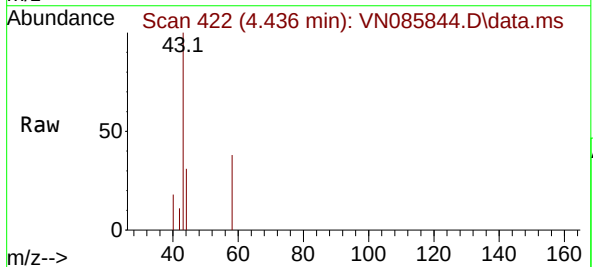
Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

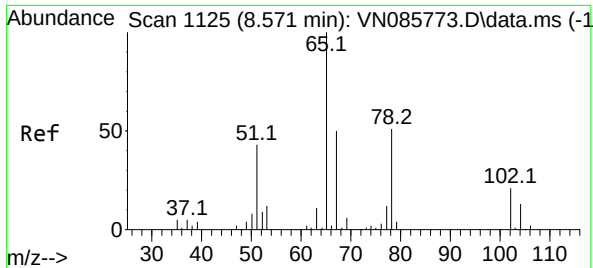
Tgt Ion:168 Resp: 217128
Ion Ratio Lower Upper
168 100
99 58.4 47.9 71.9



#16
Acetone
Concen: 9.059 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 43 Resp: 8069
Ion Ratio Lower Upper
43 100
58 38.2 27.5 41.3





#33

1,2-Dichloroethane-d4

Concen: 60.391 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085844.D

Acq: 24 Feb 2025 18:02

Instrument :

MSVOA_N

ClientSampleId :

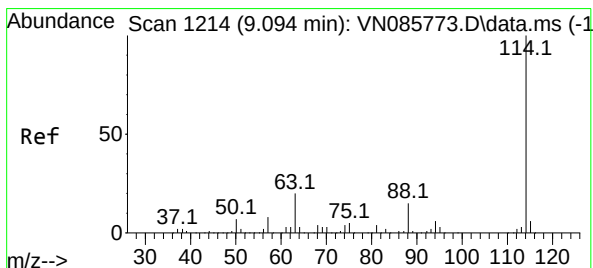
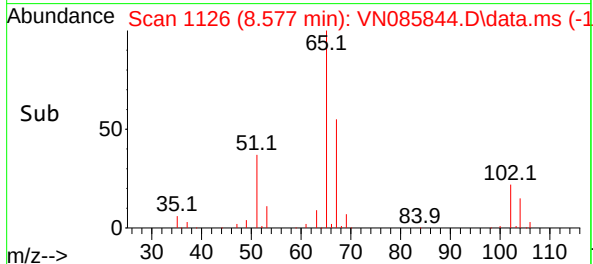
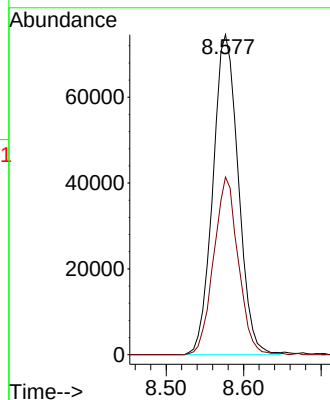
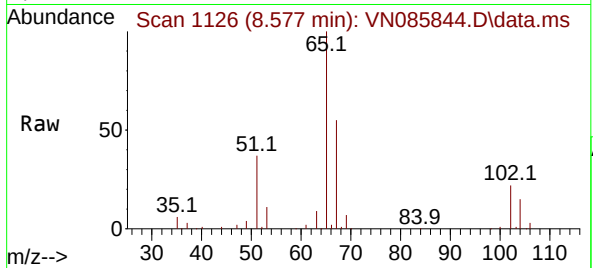
B-173-GW01

Tgt Ion: 65 Resp: 170001

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085844.D

Acq: 24 Feb 2025 18:02

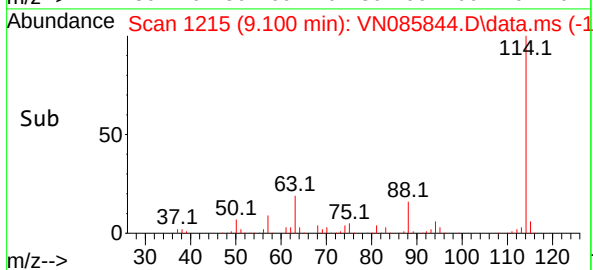
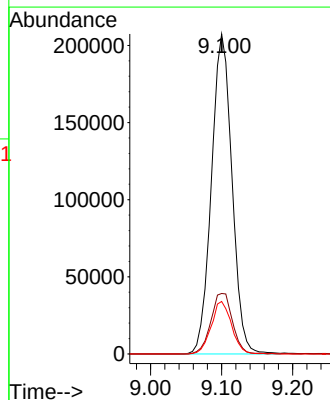
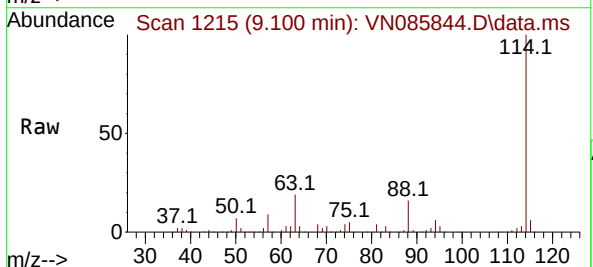
Tgt Ion: 114 Resp: 416577

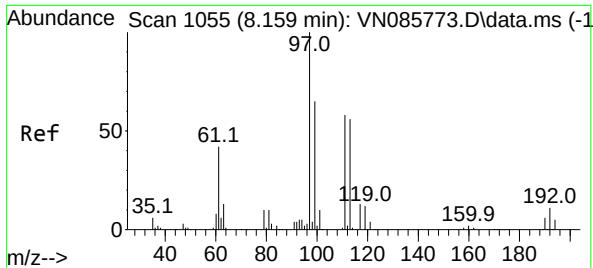
Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

88 16.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 55.650 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085844.D

Acq: 24 Feb 2025 18:02

Instrument :

MSVOA_N

ClientSampleId :

B-173-GW01

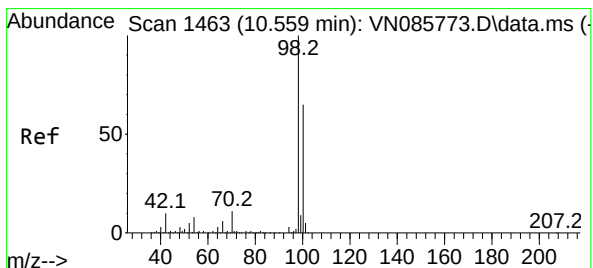
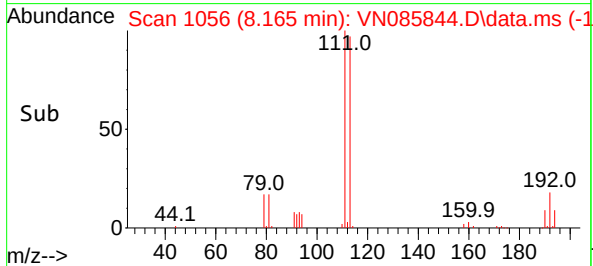
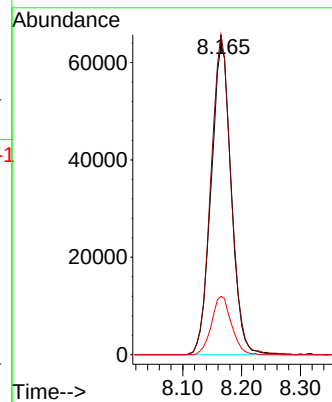
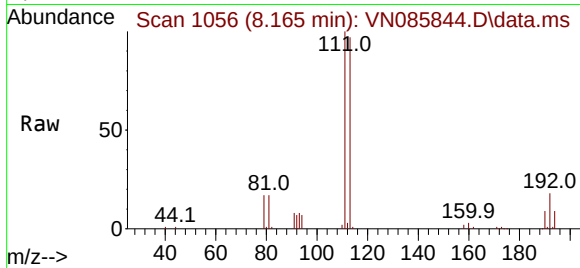
Tgt Ion:113 Resp: 151695

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

192 18.5 14.7 22.1



#50

Toluene-d8

Concen: 49.760 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085844.D

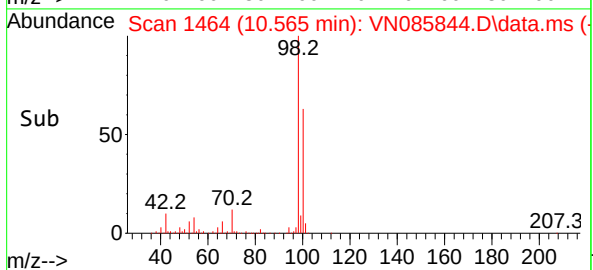
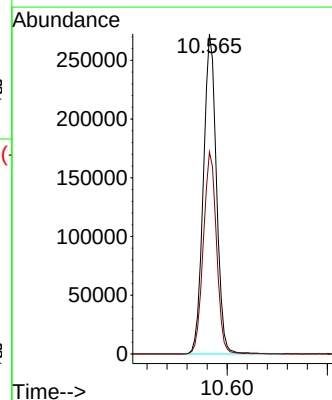
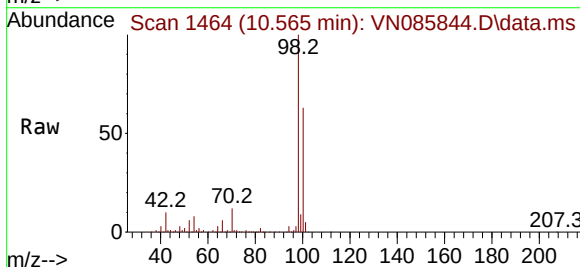
Acq: 24 Feb 2025 18:02

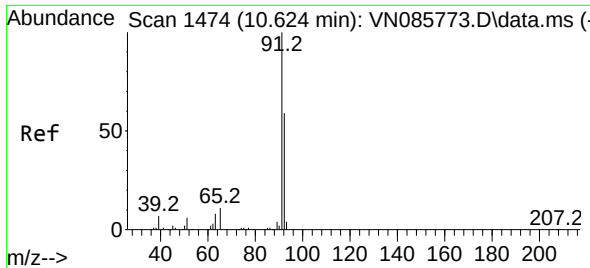
Tgt Ion: 98 Resp: 493499

Ion Ratio Lower Upper

98 100

100 63.6 52.1 78.1

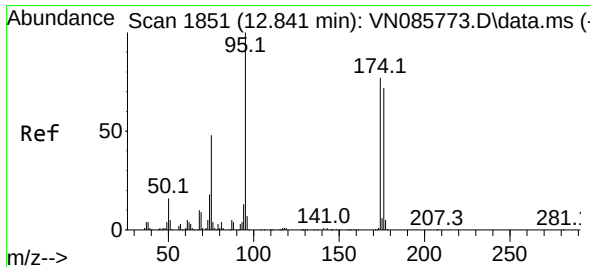
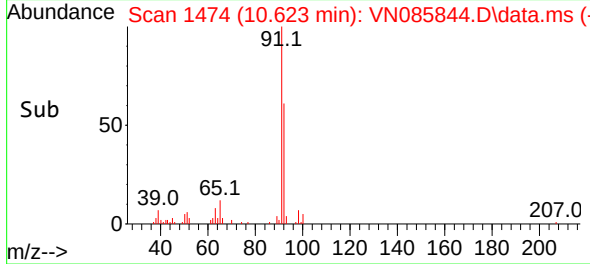
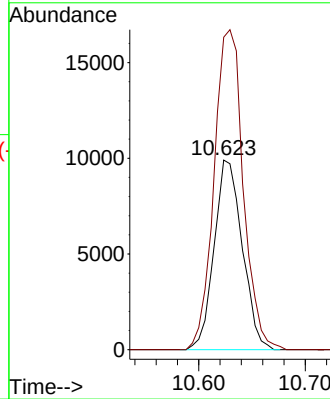
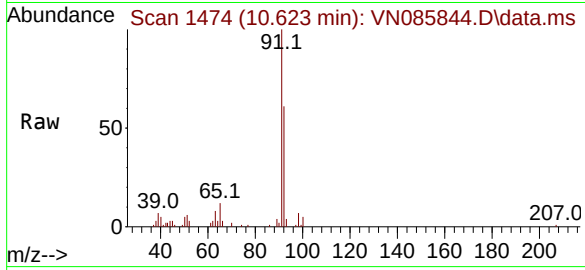




#52
Toluene
Concen: 2.504 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

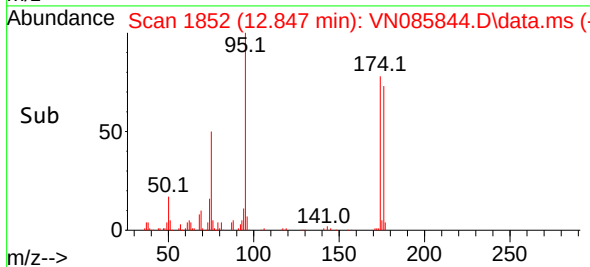
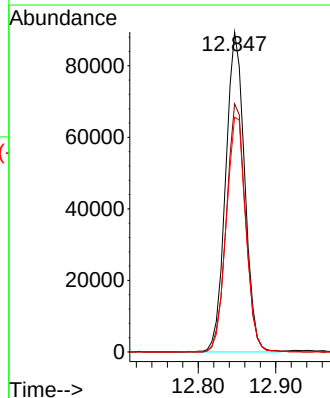
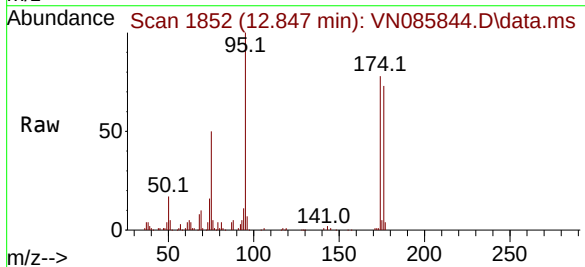
Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

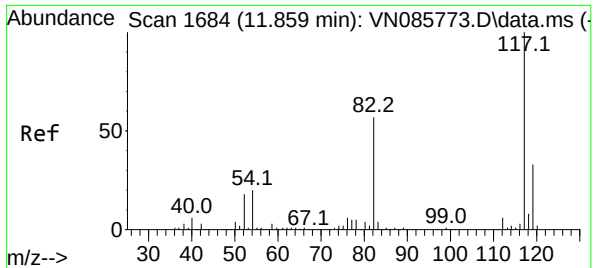
Tgt Ion: 92 Resp: 18152
Ion Ratio Lower Upper
92 100
91 175.6 136.9 205.3



#62
4-Bromofluorobenzene
Concen: 46.625 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 95 Resp: 152352
Ion Ratio Lower Upper
95 100
174 78.3 0.0 152.4
176 75.6 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085844.D

Acq: 24 Feb 2025 18:02

Instrument :

MSVOA_N

ClientSampleId :

B-173-GW01

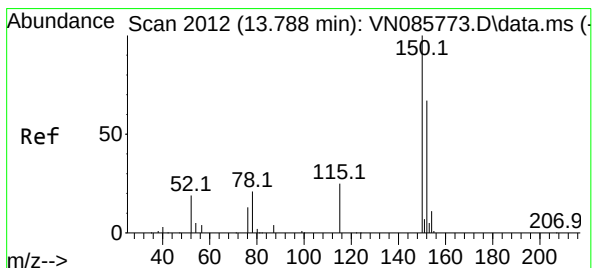
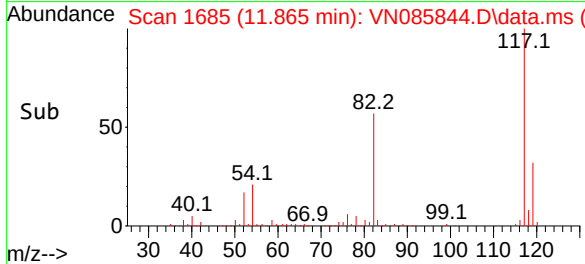
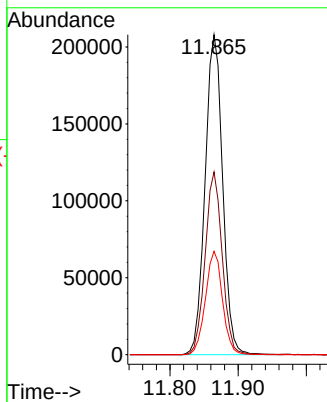
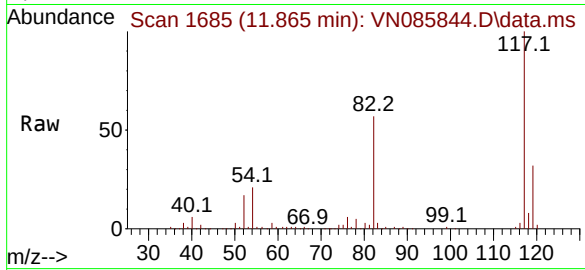
Tgt Ion:117 Resp: 372406

Ion Ratio Lower Upper

117 100

82 57.1 45.7 68.5

119 32.3 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085844.D

Acq: 24 Feb 2025 18:02

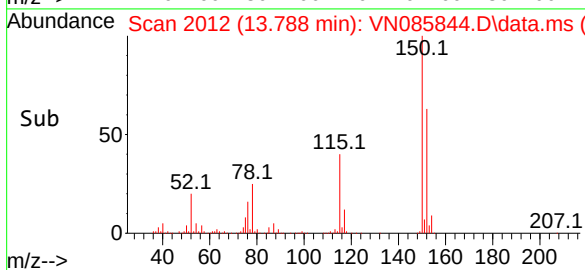
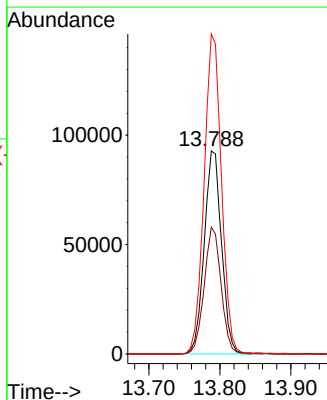
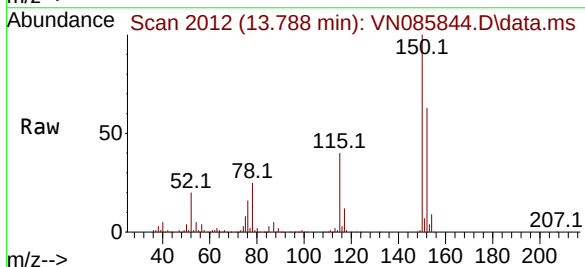
Tgt Ion:152 Resp: 157372

Ion Ratio Lower Upper

152 100

115 60.9 30.4 91.3

150 157.9 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085844.D
 Acq On : 24 Feb 2025 18:02
 Operator : JC\MD
 Sample : Q1415-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-173-GW01

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_N\methods\82N021825W.M
 Title : SW846 8260

Signal : TIC: VN085844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.665	114	121	129	rVB2	6545	14416	1.14%	0.199%
2	8.165	1046	1056	1061	rBV	208270	500911	39.47%	6.911%
3	8.224	1061	1066	1081	rVB	305900	661805	52.15%	9.131%
4	8.577	1117	1126	1136	rBV	212487	474513	37.39%	6.547%
5	8.671	1136	1142	1145	rBV6	5323	12793	1.01%	0.177%
6	9.100	1205	1215	1231	rBV	477739	972197	76.61%	13.414%
7	10.565	1455	1464	1471	rBV	697460	1269041	100.00%	17.510%
8	10.629	1471	1475	1482	rVB	41046	75828	5.98%	1.046%
9	11.865	1676	1685	1699	rBV	626446	1103234	86.93%	15.222%
10	12.070	1712	1720	1723	rBV5	9160	21391	1.69%	0.295%
11	12.376	1764	1772	1775	rBV6	7192	14778	1.16%	0.204%
12	12.570	1794	1805	1810	rBV8	5858	16576	1.31%	0.229%
13	12.847	1845	1852	1860	rBV	423284	732561	57.73%	10.107%
14	13.159	1899	1905	1912	rBV4	14441	27647	2.18%	0.381%
15	13.623	1978	1984	1988	rBV4	9909	16723	1.32%	0.231%
16	13.700	1993	1997	2002	rVB7	5881	13021	1.03%	0.180%
17	13.788	2002	2012	2020	rBV	549484	937387	73.87%	12.934%
18	13.870	2020	2026	2033	rVV2	40847	69618	5.49%	0.961%
19	14.106	2059	2066	2074	rBV6	23326	53675	4.23%	0.741%
20	14.500	2128	2133	2138	rBV5	7642	14287	1.13%	0.197%
21	14.553	2138	2142	2150	rVV6	25395	56191	4.43%	0.775%
22	14.623	2150	2154	2157	rVV5	10047	16850	1.33%	0.232%
23	14.658	2157	2160	2163	rVV3	12021	17408	1.37%	0.240%
24	14.958	2202	2211	2216	rBV4	25862	46066	3.63%	0.636%
25	15.047	2219	2226	2227	rBV4	6510	12728	1.00%	0.176%
26	15.423	2280	2290	2294	rBV7	7264	19298	1.52%	0.266%
27	15.506	2300	2304	2313	rVB6	5797	13031	1.03%	0.180%
28	15.582	2313	2317	2322	rBV5	8719	14658	1.16%	0.202%
29	15.829	2352	2359	2366	rBV2	28061	49090	3.87%	0.677%

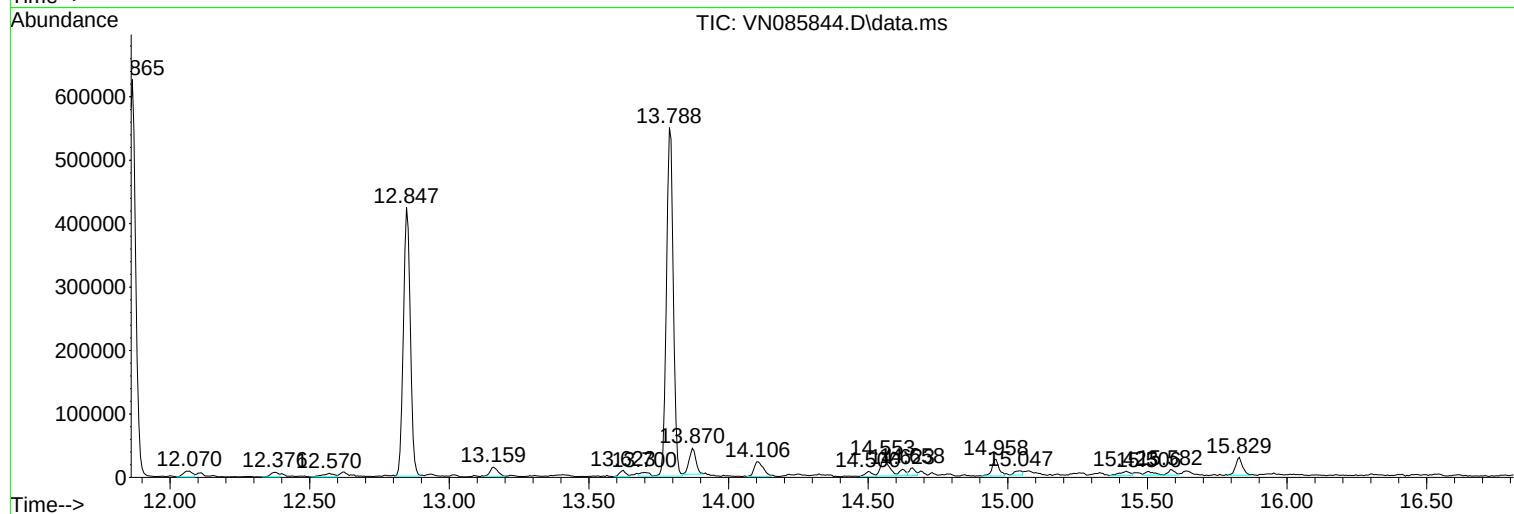
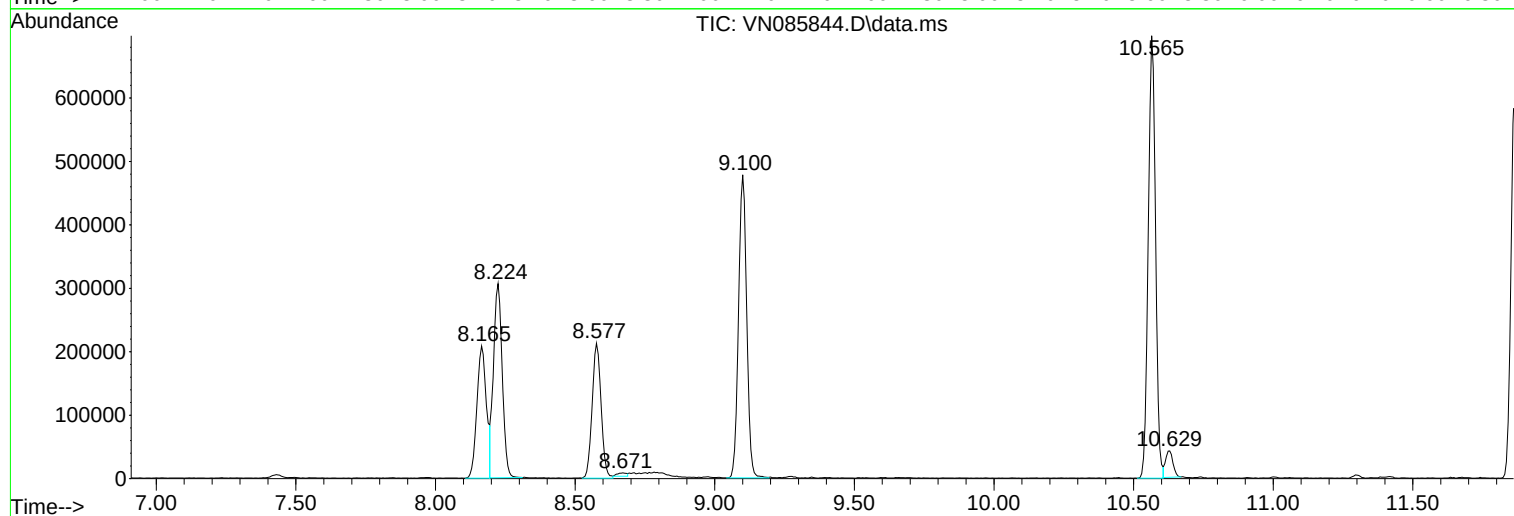
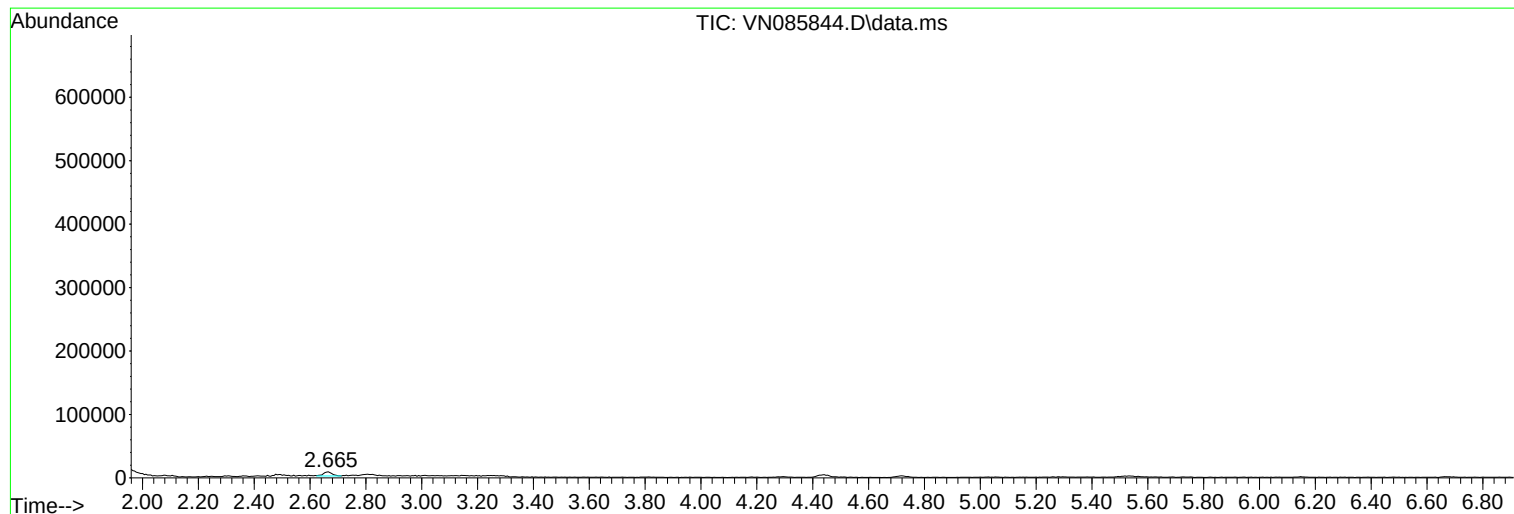
Sum of corrected areas: 7247722

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D	
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD				
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8				
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9				
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7				
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1				
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9				
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3				
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4				
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3				
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7				
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2				
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7				
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7				
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3				
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1				
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6				
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5				
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6				
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1				
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9				
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17				
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7				
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1				
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5				
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9				
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4				
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1				
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2				
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6				
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1				
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12				

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D			
		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D			
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD	
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3	
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6	
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5	
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16	
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7	
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7	
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2	
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8	
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8	
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2	
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5	
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2	
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2	
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3	
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8	
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9	
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1	
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5	
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4	
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3	
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6	
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6	
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5	
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8	
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M
 Title : SW846 8260
 Last Update : Wed Feb 19 03:43:32 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN085777.D 5 =VN085776.D 10 =VN085775.D 20 =VN085779.D 50 =VN085773.D 100 =VN085772.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.660	0.650	0.779	0.628	0.669	0.694	0.680	7.78
3) P	Chloromethane	0.817	0.662	0.742	0.604	0.622	0.647	0.682	11.93
4) C	Vinyl Chloride	0.761	0.729	0.796	0.674	0.678	0.698	0.723	6.72#
5) T	Bromomethane		0.496	0.543	0.413	0.424	0.434	0.462	12.05
6) T	Chloroethane	0.584	0.470	0.516	0.438	0.417	0.447	0.479	12.88
7) T	Trichlorofluor...	1.103	1.065	1.134	1.006	0.959	1.010	1.046	6.33
8) T	Diethyl Ether	0.313	0.353	0.366	0.325	0.331	0.343	0.339	5.72
9) T	1,1,2-Trichlor...	0.554	0.635	0.674	0.599	0.564	0.602	0.605	7.39
10) T	Methyl Iodide		0.724	0.806	0.712	0.722	0.764	0.745	5.24
11) T	Tert butyl alc...		0.083	0.092	0.073	0.078	0.072	0.080	9.91
12) CM	1,1-Dichloroet...	0.514	0.571	0.591	0.531	0.527	0.555	0.548	5.35#
13) T	Acrolein		0.126	0.117	0.105	0.126	0.116	0.118	7.35
14) T	Allyl chloride	0.694	0.724	0.778	0.686	0.691	0.747	0.720	5.13
15) T	Acrylonitrile	0.255	0.260	0.278	0.256	0.245	0.262	0.259	4.23
16) T	Acetone	0.227	0.208	0.217	0.198	0.184	0.195	0.205	7.68
17) T	Carbon Disulfide	1.848	1.604	1.804	1.455	1.473	1.565	1.625	10.22
18) T	Methyl Acetate	0.853	0.690	0.794	0.625	0.619	0.653	0.705	13.70
19) T	Methyl tert-bu...	1.438	1.560	1.714	1.659	1.658	1.747	1.629	6.95
20) T	Methylene Chlo...	0.736	0.666	0.710	0.625	0.593	0.628	0.660	8.34
21) T	trans-1,2-Dich...	0.623	0.599	0.621	0.566	0.549	0.585	0.590	5.05
22) T	Diisopropyl ether	1.326	1.567	1.764	1.716	1.643	1.744	1.627	10.09
23) T	Vinyl Acetate	0.999	1.034	1.189	1.126	1.118	1.218	1.114	7.63
24) P	1,1-Dichloroet...	1.073	1.125	1.216	1.089	1.035	1.097	1.106	5.59
25) T	2-Butanone	0.279	0.299	0.331	0.299	0.294	0.308	0.302	5.61
26) T	2,2-Dichloropr...	0.943	0.987	1.069	0.971	0.946	0.984	0.983	4.68
27) T	cis-1,2-Dichlo...	0.646	0.685	0.740	0.671	0.661	0.705	0.685	4.91
28) T	Bromochloromet...	0.483	0.570	0.346	0.402	0.444	0.481	0.454	16.96
29) T	Tetrahydrofuran	0.167	0.183	0.214	0.204	0.196	0.206	0.195	8.97
30) C	Chloroform	1.171	1.164	1.269	1.141	1.070	1.120	1.156	5.74#
31) T	Cyclohexane		1.056	0.977	0.858	0.860	0.878	0.926	9.50
32) T	1,1,1-Trichlor...	1.030	1.058	1.089	1.012	0.967	1.012	1.028	4.09
33) S	1,2-Dichloroet...		0.767	0.588	0.575	0.613	0.698	0.648	12.64
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.357	0.294	0.293	0.317	0.375	0.327	11.46
36) T	1,1-Dichloropr...	0.426	0.436	0.490	0.458	0.460	0.509	0.463	6.84
37) T	Ethyl Acetate	0.353	0.376	0.385	0.396	0.375	0.400	0.381	4.47
38) T	Carbon Tetrach...	0.533	0.545	0.583	0.538	0.528	0.573	0.550	4.11
39) T	Methylcyclohexane	0.373	0.405	0.446	0.453	0.492	0.560	0.455	14.50
40) TM	Benzene	1.420	1.421	1.568	1.474	1.441	1.581	1.484	4.89
41) T	Methacrylonitrile	0.165	0.197	0.211	0.211	0.216	0.222	0.204	10.14
42) TM	1,2-Dichloroet...	0.472	0.464	0.527	0.483	0.456	0.499	0.483	5.42
43) T	Isopropyl Acetate	1.354	0.742	0.764	0.670	0.637	0.673	0.807	33.76
44) TM	Trichloroethene	0.395	0.350	0.384	0.348	0.339	0.370	0.364	6.15
45) C	1,2-Dichloropr...	0.339	0.344	0.385	0.357	0.347	0.377	0.358	5.25#
46) T	Dibromomethane	0.242	0.245	0.265	0.256	0.243	0.266	0.253	4.42
47) T	Bromodichlorom...	0.512	0.533	0.571	0.541	0.518	0.569	0.541	4.62
48) T	Methyl methacr...	0.236	0.258	0.277	0.294	0.301	0.332	0.283	11.90
49) T	1,4-Dioxane	0.005	0.005	0.006	0.005	0.006	0.005	0.005	5.54
50) S	Toluene-d8		1.212	1.017	1.080	1.199	1.444	1.190	13.77
51) T	4-Methyl-2-Pen...	0.290	0.342	0.392	0.388	0.379	0.414	0.367	12.11
52) CM	Toluene	0.689	0.820	0.924	0.891	0.902	0.993	0.870	12.03#
53) T	t-1,3-Dichloro...	0.408	0.471	0.518	0.505	0.521	0.576	0.500	11.31
54) T	cis-1,3-Dichlo...	0.442	0.513	0.582	0.559	0.566	0.626	0.548	11.58
55) T	1,1,2-Trichlor...	0.324	0.346	0.370	0.344	0.331	0.361	0.346	5.04
56) T	Ethyl methacry...	0.264	0.382	0.448	0.457	0.497	0.557	0.434	23.32

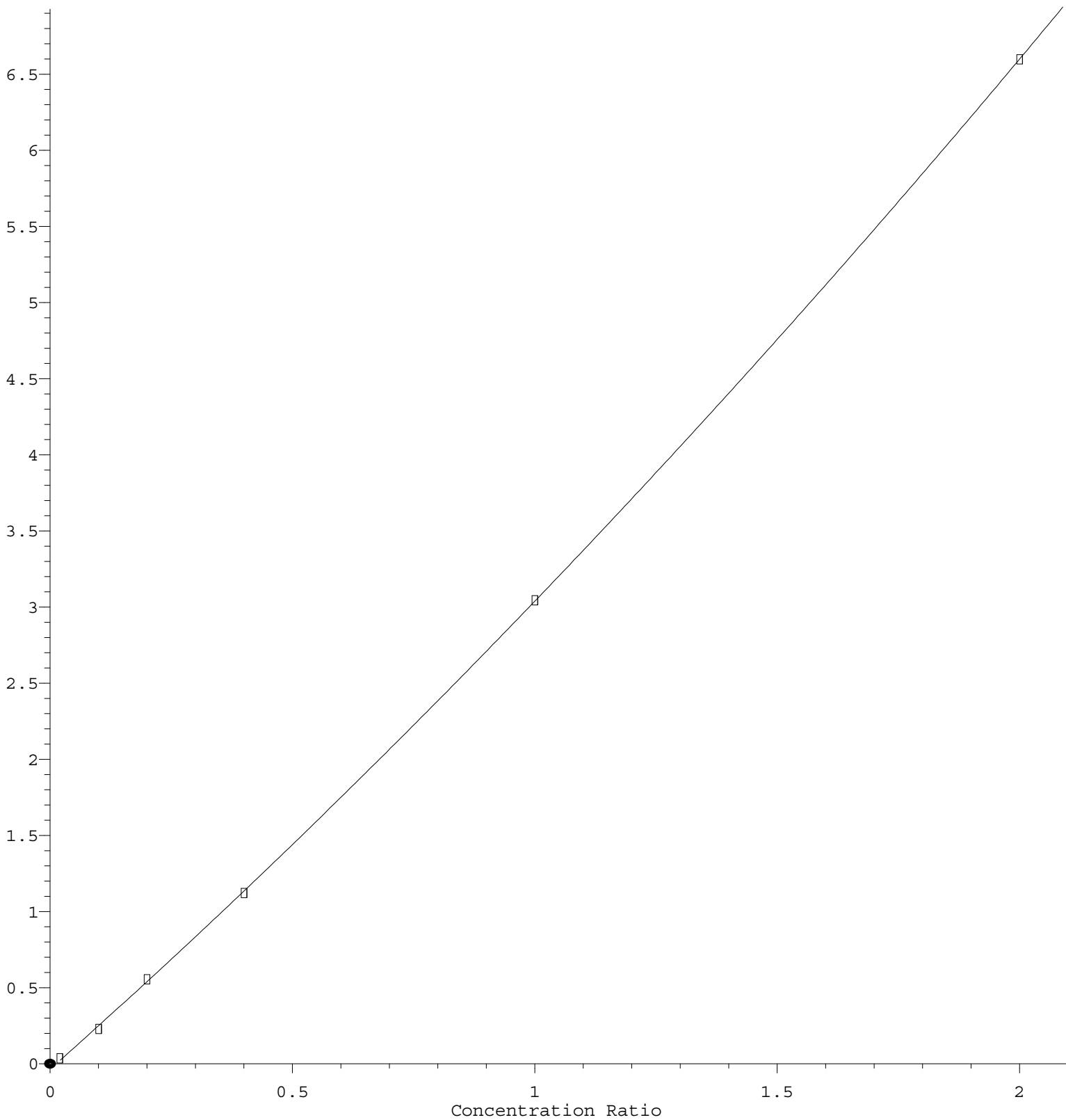
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M

57)	T	1,3-Dichloropr...	0.533	0.553	0.615	0.580	0.565	0.619	0.577	5.91
58)	T	2-Chloroethyl ...	0.133	0.176	0.170	0.249	0.174	0.266	0.195	26.24
59)	T	2-Hexanone	0.184	0.227	0.266	0.270	0.273	0.296	0.253	15.99
60)	T	Dibromochlorom...	0.355	0.384	0.431	0.405	0.402	0.440	0.403	7.70
61)	T	1,2-Dibromoethane	0.273	0.320	0.362	0.330	0.322	0.354	0.327	9.68
62)	S	4-Bromofluorob...	0.370	0.323	0.346	0.419	0.503	0.392		18.22
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.393	0.391	0.420	0.375	0.361	0.384	0.387	5.17
65)	PM	Chlorobenzene	1.109	1.139	1.212	1.119	1.110	1.183	1.145	3.75
66)	T	1,1,1,2-Tetrac...	0.408	0.402	0.444	0.401	0.395	0.420	0.412	4.31
67)	C	Ethyl Benzene	1.424	1.665	1.830	1.838	1.904	2.105	1.794	12.85#
68)	T	m/p-Xylenes	0.481	0.610	0.725	0.722	0.741	0.809	0.682	17.19
69)	T	o-Xylene	0.502	0.584	0.666	0.659	0.704	0.771	0.648	14.48
70)	T	Styrene	0.744	0.885	1.060	1.133	1.203	1.327	1.059	20.15
71)	P	Bromoform	0.274	0.301	0.322	0.309	0.303	0.327	0.306	6.20
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.933	3.067	3.623	3.484	3.596	3.851	3.425	10.31
74)	T	N-ethyl acetate	1.072	1.117	1.263	1.245	1.241	1.311	1.208	7.67
75)	P	1,1,2,2-Tetrac...	1.271	1.218	1.304	1.154	1.053	1.073	1.179	8.77
76)	T	1,2,3-Trichlor...	1.324	1.161	1.145	1.122	0.947	0.964	1.111	12.59
77)	T	Bromobenzene	0.862	0.905	1.024	0.908	0.904	0.950	0.925	6.01
78)	T	n-propylbenzene	3.031	3.463	4.126	4.090	4.256	4.572	3.923	14.46
79)	T	2-Chlorotoluene	2.385	2.425	2.842	2.681	2.616	2.779	2.621	7.07
80)	T	1,3,5-Trimethy...	2.032	2.418	2.989	3.004	3.056	3.243	2.790	16.62
81)	T	trans-1,4-Dich...	0.339	0.392	0.367	0.397	0.409	0.381		7.38
82)	T	4-Chlorotoluene	2.201	2.437	2.837	2.643	2.658	2.815	2.598	9.32
83)	T	tert-Butylbenzene	1.802	2.119	2.432	2.421	2.578	2.727	2.346	14.27
84)	T	1,2,4-Trimethy...	1.838	2.387	2.937	3.018	3.078	3.306	2.761	19.75
85)	T	sec-Butylbenzene	2.486	2.938	3.534	3.417	3.653	3.864	3.315	15.40
86)	T	p-Isopropyltol...	1.779	2.288	2.776	2.804	3.045	3.299	2.665	20.58
87)	T	1,3-Dichlorobe...	1.748	1.697	1.876	1.675	1.635	1.772	1.734	4.93
88)	T	1,4-Dichlorobe...	1.921	1.777	1.884	1.684	1.647	1.750	1.777	6.08
89)	T	n-Butylbenzene	2.102	2.032	2.338	2.271	2.551	2.829	2.354	12.58
90)	T	Hexachloroethane	0.707	0.629	0.635	0.589	0.587	0.620	0.628	6.99
91)	T	1,2-Dichlorobe...	1.744	1.642	1.768	1.617	1.574	1.660	1.667	4.48
92)	T	1,2-Dibromo-3-...	0.256	0.222	0.238	0.191	0.193	0.198	0.216	12.42
93)	T	1,2,4-Trichlor...	0.829	0.728	0.827	0.704	0.802	0.877	0.794	8.31
94)	T	Hexachlorobuta...	0.649	0.481	0.503	0.405	0.424	0.435	0.483	18.51
95)	T	Naphthalene	2.397	1.858	2.160	1.821	2.324	2.527	2.181	13.31
96)	T	1,2,3-Trichlor...	0.917	0.736	0.844	0.675	0.789	0.825	0.798	10.65

(#) = Out of Range

p-Isopropyltoluene

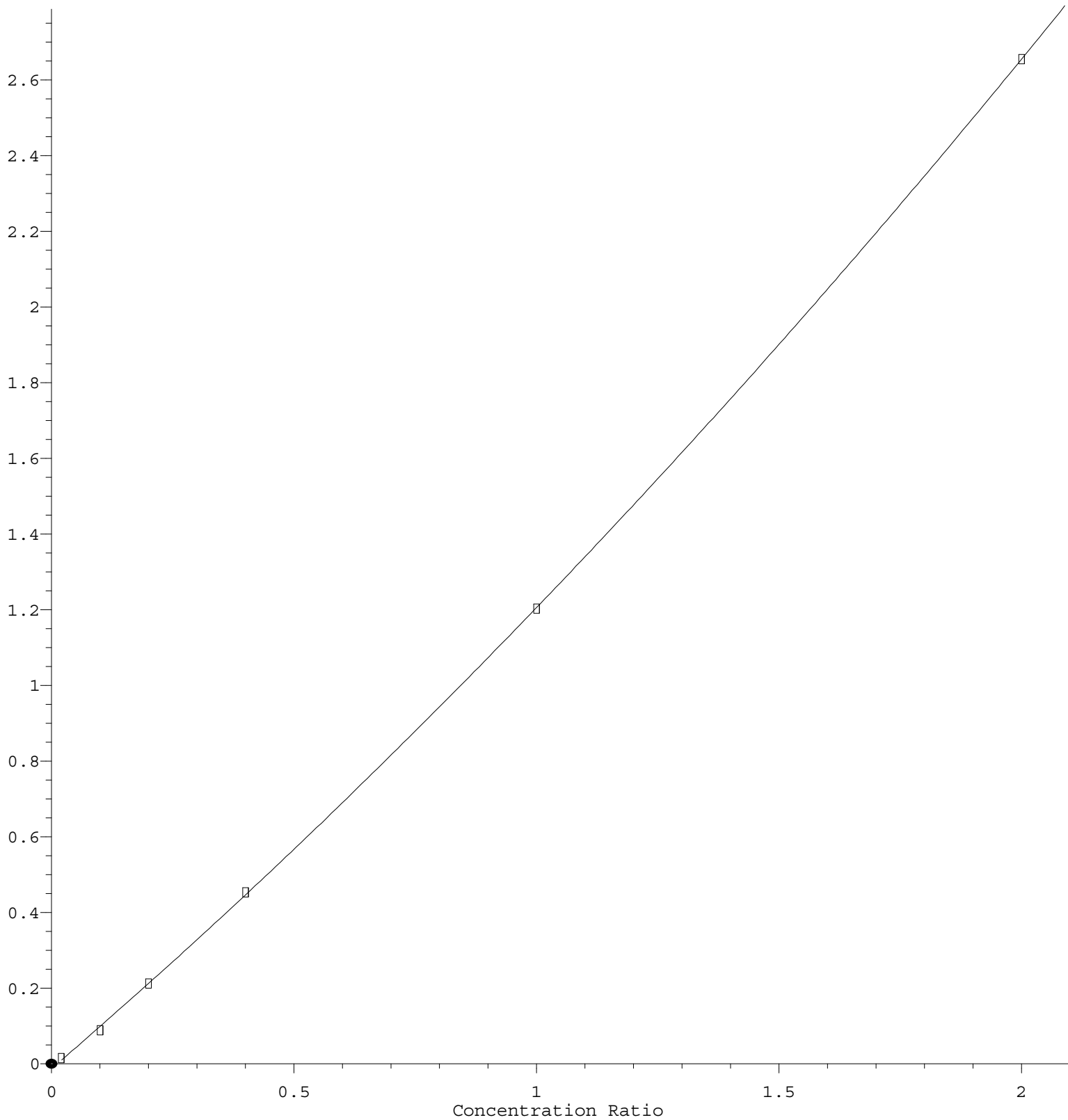
Response Ratio



$R = 2.438e-001 A^2 + 2.829e+000 A - 3.541e-002$
Coef of Det (r^2) = 0.999965 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Styrene

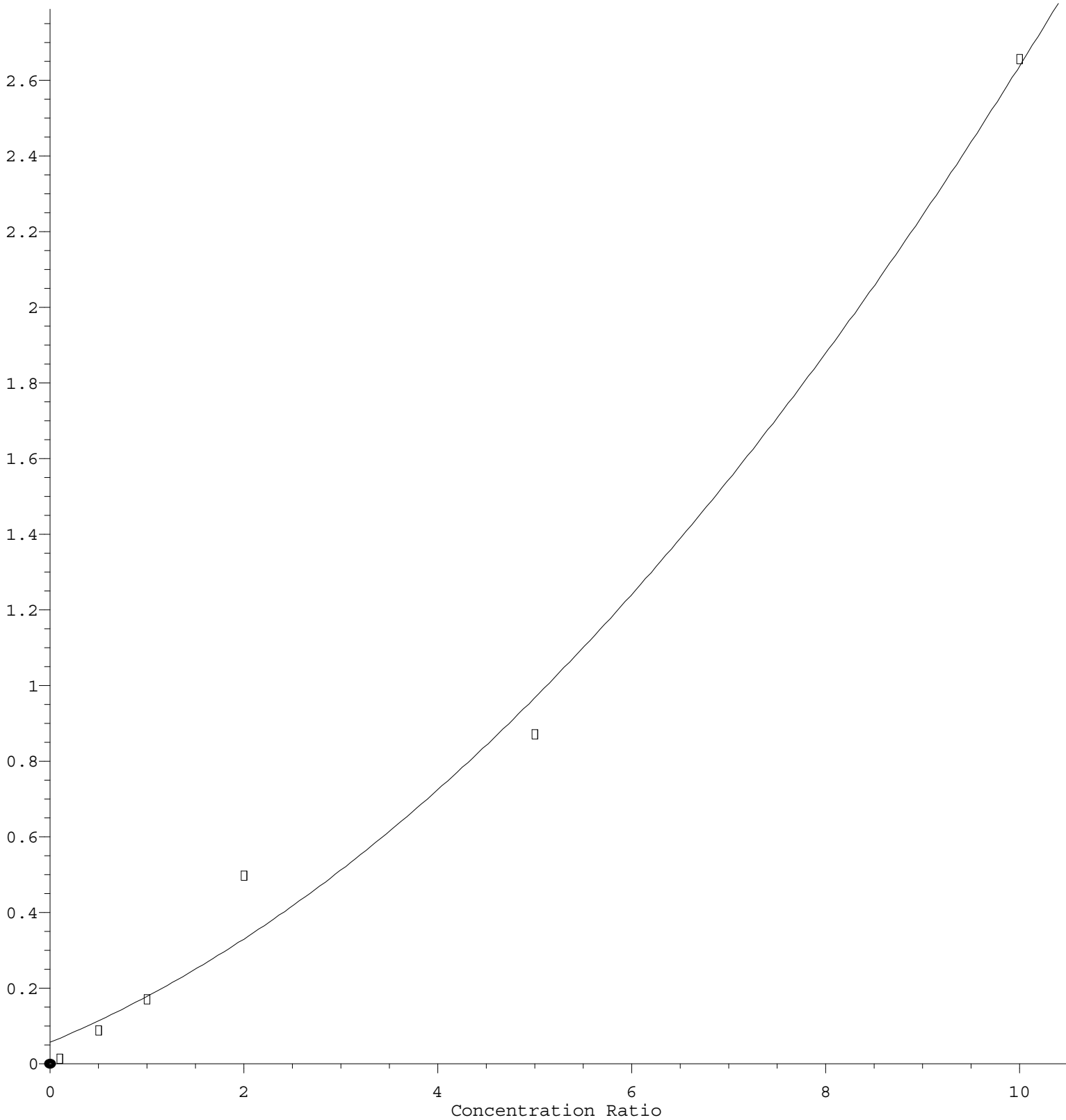
Response Ratio



$R = 1.156e-001 A^2 + 1.102e+000 A - 1.290e-002$
 Coef of Det (r^2) = 0.999965 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
 Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

2-Chloroethyl Vinyl ether

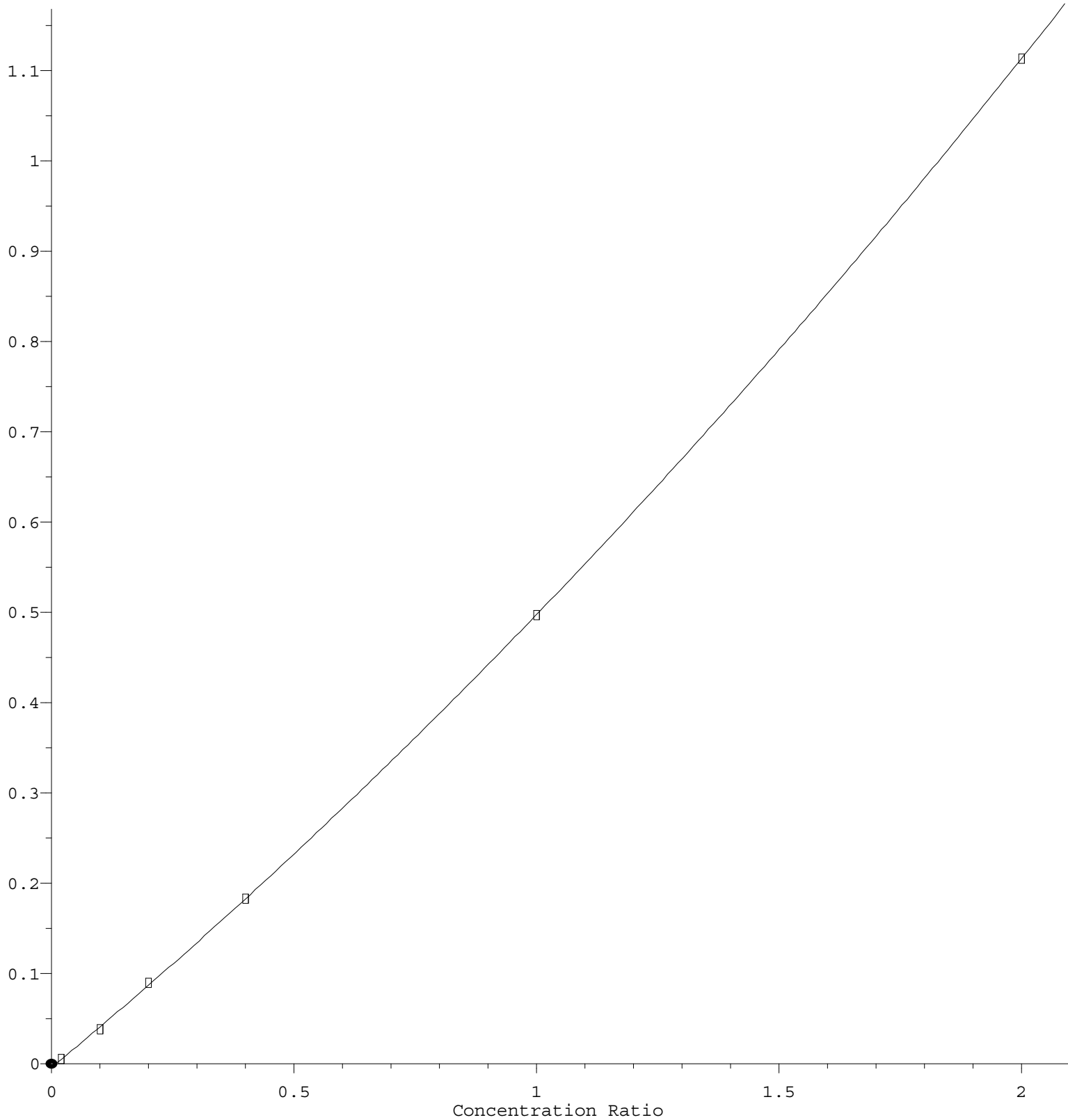
Response Ratio



$R = 1.518 \times 10^{-2} A^2 + 1.064 \times 10^{-1} A + 5.673 \times 10^{-2}$
 Coef of Det (r^2) = 0.991781 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
 Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Ethyl methacrylate

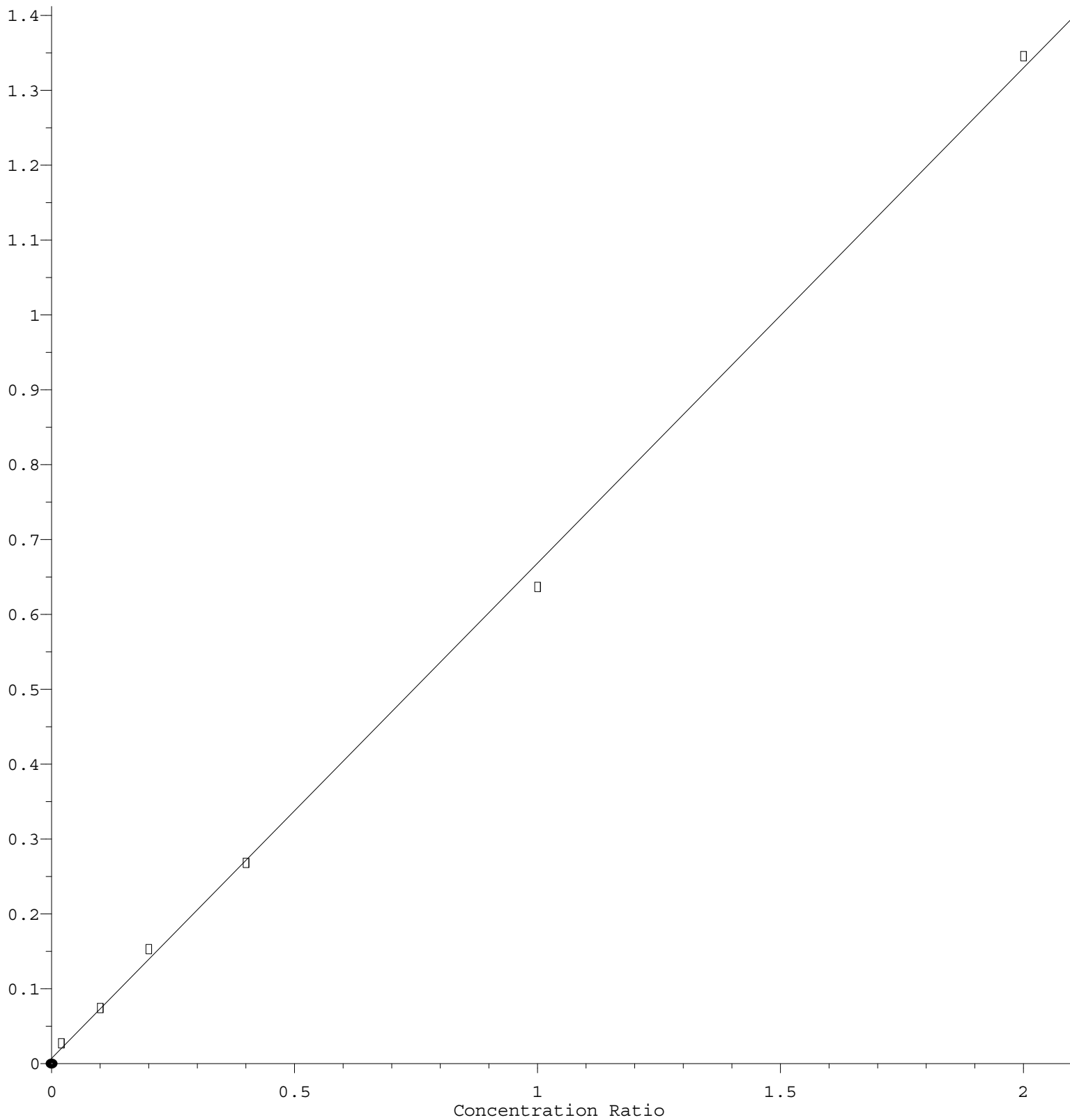
Response Ratio



$R = 5.718e-002 A^2 + 4.442e-001 A - 4.090e-003$
Coef of Det (r^2) = 0.999984 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M
Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Isopropyl Acetate

Response Ratio



$$\text{Response} = 6.614\text{e-}001 * \text{Amt} + 7.307\text{e-}003$$

Coef of Det (r^2) = 0.998821 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N021825W.M

Calibration Table Last Updated: Wed Feb 19 03:43:32 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 19 03:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	290979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	458183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	412615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	406028	107.630	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 215.260%#			
35) Dibromofluoromethane	8.159	113	343729	114.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 229.300%#			
50) Toluene-d8	10.559	98	1323681	121.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 242.700%#			
62) 4-Bromofluorobenzene	12.841	95	460996	128.269	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 256.540%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	403621	101.979	ug/l	99
3) Chloromethane	2.359	50	376343	94.759	ug/l	99
4) Vinyl Chloride	2.512	62	406434	96.652	ug/l	100
5) Bromomethane	2.948	94	252576	93.935	ug/l	99
6) Chloroethane	3.118	64	260404	93.490	ug/l	97
7) Trichlorofluoromethane	3.495	101	587970	96.574	ug/l	98
8) Diethyl Ether	3.959	74	199406	101.225	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	350536	99.604	ug/l	98
10) Methyl Iodide	4.583	142	444531	102.472	ug/l	98
11) Tert butyl alcohol	5.506	59	210616	453.930	ug/l	100
12) 1,1-Dichloroethene	4.336	96	323037	101.234	ug/l	96
13) Acrolein	4.171	56	337091	489.916	ug/l	98
14) Allyl chloride	5.018	41	434760	103.773	ug/l	97
15) Acrylonitrile	5.706	53	761272	504.697	ug/l	99
16) Acetone	4.418	43	567220	475.190	ug/l	99
17) Carbon Disulfide	4.706	76	910987	96.328	ug/l	99
18) Methyl Acetate	5.012	43	379901	92.531	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	1016766	107.229	ug/l	100
20) Methylene Chloride	5.271	84	365222	95.142	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	340161	99.001	ug/l	96
22) Diisopropyl ether	6.665	45	1015041	107.223	ug/l	99
23) Vinyl Acetate	6.594	43	3542783	548.253	ug/l	100
24) 1,1-Dichloroethane	6.565	63	638203	99.172	ug/l	98
25) 2-Butanone	7.471	43	896027	510.235	ug/l	100
26) 2,2-Dichloropropane	7.483	77	572429	100.033	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	410066	102.929	ug/l	99
28) Bromochloromethane	7.806	49	280092	105.895	ug/l	97
29) Tetrahydrofuran	7.830	42	599504	528.664	ug/l	100
30) Chloroform	7.959	83	651761	96.914	ug/l	99
31) Cyclohexane	8.253	56	511031	94.843	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	589206	98.502	ug/l	98
36) 1,1-Dichloropropene	8.365	75	466531	109.949	ug/l	99
37) Ethyl Acetate	7.553	43	366887	105.069	ug/l	99
38) Carbon Tetrachloride	8.353	117	524870	104.105	ug/l	98
39) Methylcyclohexane	9.594	83	513492	123.184	ug/l	98
40) Benzene	8.600	78	1448660	106.522	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	203689	109.119	ug/l	95
42) 1,2-Dichloroethane	8.665	62	457707	103.326	ug/l	100
43) Isopropyl Acetate	8.683	43	616521	101.163	ug/l	98
44) Trichloroethene	9.347	130	339019	101.529	ug/l	100
45) 1,2-Dichloropropane	9.618	63	345721	105.316	ug/l	99
46) Dibromomethane	9.700	93	243628	105.216	ug/l	100
47) Bromodichloromethane	9.883	83	521496	105.269	ug/l	99
48) Methyl methacrylate	9.677	41	304067	117.252	ug/l	100
49) 1,4-Dioxane	9.688	88	100443	2036.793	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	1896777	563.403	ug/l	100
52) Toluene	10.624	92	910251	114.182	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	527815	115.223	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	573653	114.202	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	330642	104.317	ug/l	99
56) Ethyl methacrylate	10.871	69	510041	100.007	ug/l	100
57) 1,3-Dichloropropane	11.159	76	567039	107.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	1216927	502.158	ug/l	99
59) 2-Hexanone	11.188	43	1358126	586.394	ug/l	99
60) Dibromochloromethane	11.353	129	402920	109.169	ug/l	99
61) 1,2-Dibromoethane	11.465	107	324747	108.439	ug/l	99
64) Tetrachloroethene	11.100	164	316658	99.063	ug/l	97
65) Chlorobenzene	11.888	112	976337	103.290	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	346777	102.068	ug/l	100
67) Ethyl Benzene	11.959	91	1736848	117.301	ug/l	100
68) m/p-Xylenes	12.065	106	1335750	237.496	ug/l	99
69) o-Xylene	12.394	106	635879	118.977	ug/l	99
70) Styrene	12.406	104	1095464	100.012	ug/l	100
71) Bromoform	12.576	173	269816	106.877	ug/l #	98
73) Isopropylbenzene	12.688	105	1605096	112.422	ug/l	100
74) N-amyl acetate	12.488	43	546485	108.541	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	447332	91.050	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	401864m	87.774	ug/l	
77) Bromobenzene	12.976	156	395882	102.631	ug/l	100
78) n-propylbenzene	13.029	91	1905758	116.552	ug/l	100
79) 2-Chlorotoluene	13.118	91	1158348	106.029	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	1351753	116.226	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	170494	107.459	ug/l	96
82) 4-Chlorotoluene	13.218	91	1173182	108.322	ug/l	99
83) tert-Butylbenzene	13.435	119	1136802	116.235	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	1378080	119.764	ug/l	100
85) sec-Butylbenzene	13.612	105	1610382	116.540	ug/l	100
86) p-Isopropyltoluene	13.723	119	1374884	99.983	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	738679	102.213	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	729470	98.484	ug/l	99
89) n-Butylbenzene	14.053	91	1179057	120.179	ug/l	99
90) Hexachloroethane	14.329	117	258559	98.800	ug/l	97
91) 1,2-Dichlorobenzene	14.100	146	691905	99.562	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	82545	91.495	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	365599	110.404	ug/l	99
94) Hexachlorobutadiene	15.494	225	181264	90.068	ug/l	98
95) Naphthalene	15.635	128	1053414	115.870	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	343936	103.456	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085772.D
Acq On : 18 Feb 2025 11:09
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:15:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

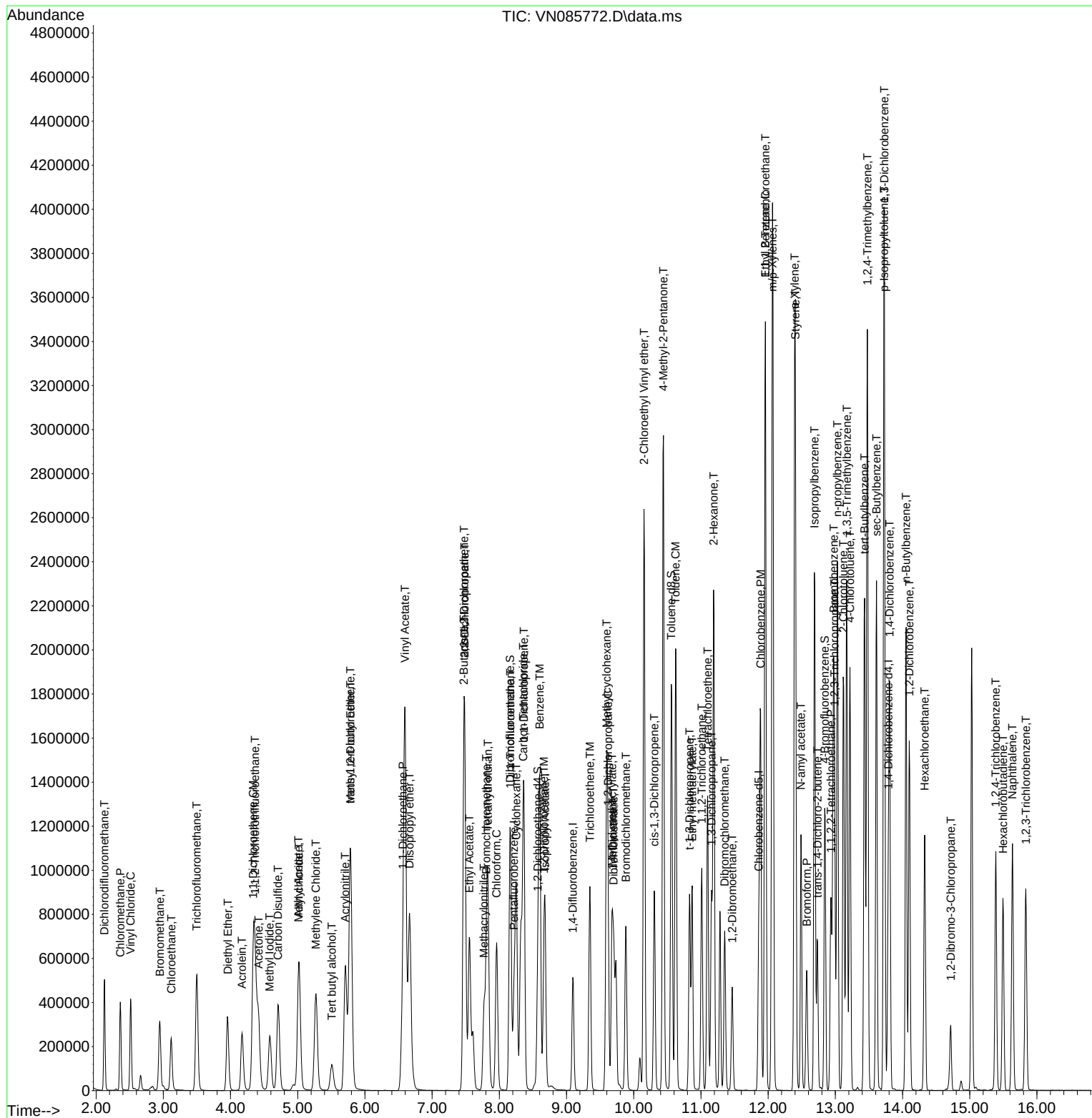
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	322407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	526945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	461653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	227499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	197726	47.304	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.600%		
35) Dibromofluoromethane	8.159	113	167050	48.447	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.900%		
50) Toluene-d8	10.559	98	632021	50.380	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.760%		
62) 4-Bromofluorobenzene	12.841	95	220691	53.393	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.780%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	215740	49.195	ug/l	100
3) Chloromethane	2.359	50	200592	45.584	ug/l	100
4) Vinyl Chloride	2.512	62	218675	46.933	ug/l	100
5) Bromomethane	2.953	94	136563	45.838	ug/l	100
6) Chloroethane	3.124	64	134303	43.517	ug/l	100
7) Trichlorofluoromethane	3.501	101	309133	45.825	ug/l	100
8) Diethyl Ether	3.959	74	106634	48.854	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	181996	46.673	ug/l	100
10) Methyl Iodide	4.583	142	232889	48.452	ug/l	100
11) Tert butyl alcohol	5.506	59	126538	246.136	ug/l	100
12) 1,1-Dichloroethene	4.336	96	170063	48.100	ug/l	100
13) Acrolein	4.177	56	203891	267.442	ug/l	100
14) Allyl chloride	5.018	41	222754	47.986	ug/l	100
15) Acrylonitrile	5.712	53	394641	236.130	ug/l	100
16) Acetone	4.418	43	297175	224.691	ug/l	100
17) Carbon Disulfide	4.712	76	474860	45.317	ug/l	100
18) Methyl Acetate	5.018	43	199458	43.846	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	534589	50.883	ug/l	100
20) Methylene Chloride	5.271	84	191098	44.929	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	176973	46.486	ug/l	100
22) Diisopropyl ether	6.665	45	529828	50.512	ug/l	100
23) Vinyl Acetate	6.594	43	1802342	251.727	ug/l	100
24) 1,1-Dichloroethane	6.565	63	333567	46.781	ug/l	100
25) 2-Butanone	7.471	43	474562	243.893	ug/l	100
26) 2,2-Dichloropropane	7.483	77	304840	48.079	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	213235	48.306	ug/l	100
28) Bromochloromethane	7.806	49	143276	48.888	ug/l	100
29) Tetrahydrofuran	7.830	42	315243	250.894	ug/l	100
30) Chloroform	7.959	83	344841	46.278	ug/l	100
31) Cyclohexane	8.253	56	277254	46.440	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	311700	47.030	ug/l	100
36) 1,1-Dichloropropene	8.365	75	242144	49.620	ug/l	100
37) Ethyl Acetate	7.553	43	197609	49.206	ug/l	100
38) Carbon Tetrachloride	8.353	117	278306	47.997	ug/l	100
39) Methylcyclohexane	9.594	83	259289	54.085	ug/l	100
40) Benzene	8.600	78	759363	48.551	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	113568	52.901	ug/l	100
42) 1,2-Dichloroethane	8.665	62	240115	47.132	ug/l	100
43) Isopropyl Acetate	8.683	43	335482	47.574	ug/l	100
44) Trichloroethene	9.347	130	178742	46.544	ug/l	100
45) 1,2-Dichloropropane	9.618	63	182649	48.379	ug/l	100
46) Dibromomethane	9.700	93	127850	48.010	ug/l	100
47) Bromodichloromethane	9.882	83	272912	47.901	ug/l	100
48) Methyl methacrylate	9.677	41	158375	53.102	ug/l	100
49) 1,4-Dioxane	9.688	88	60759	1071.301	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	997906	257.731	ug/l	100
52) Toluene	10.624	92	475069	51.816	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	274791	52.159	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	298359	51.646	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	174198	47.788	ug/l	100
56) Ethyl methacrylate	10.871	69	261825	49.960	ug/l	100
57) 1,3-Dichloropropane	11.159	76	297683	48.920	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	458983	230.774	ug/l	100
59) 2-Hexanone	11.188	43	719870	270.257	ug/l	100
60) Dibromochloromethane	11.353	129	211769	49.890	ug/l	100
61) 1,2-Dibromoethane	11.465	107	169422	49.191	ug/l	100
64) Tetrachloroethene	11.100	164	166710	46.613	ug/l	100
65) Chlorobenzene	11.882	112	512436	48.454	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	182537	48.020	ug/l	100
67) Ethyl Benzene	11.959	91	879040	53.062	ug/l	100
68) m/p-Xylenes	12.065	106	684377	108.757	ug/l	100
69) o-Xylene	12.394	106	324948	54.342	ug/l	100
70) Styrene	12.406	104	555269	49.909	ug/l	100
71) Bromoform	12.570	173	139895	49.528	ug/l #	100
73) Isopropylbenzene	12.688	105	817980	52.482	ug/l	100
74) N-amyl acetate	12.488	43	282288	51.360	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	239463	44.649	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	215451m	43.108	ug/l	100
77) Bromobenzene	12.976	156	205754	48.863	ug/l	100
78) n-propylbenzene	13.029	91	968182	54.241	ug/l	100
79) 2-Chlorotoluene	13.118	91	595046	49.895	ug/l	100
80) 1,3,5-Trimethylbenzene	13.165	105	695205	54.757	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	90255	52.111	ug/l	100
82) 4-Chlorotoluene	13.218	91	604612	51.139	ug/l	100
83) tert-Butylbenzene	13.435	119	586493	54.933	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	700260	55.748	ug/l	100
85) sec-Butylbenzene	13.612	105	831143	55.099	ug/l	100
86) p-Isopropyltoluene	13.723	119	692641	50.103	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	372004	47.154	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	374700	46.340	ug/l	100
89) n-Butylbenzene	14.053	91	580445	54.197	ug/l	100
90) Hexachloroethane	14.329	117	133438	46.708	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	358159	47.211	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.712	75	43935	44.611	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	182458	50.473	ug/l	100
94) Hexachlorobutadiene	15.494	225	96444	43.899	ug/l	100
95) Naphthalene	15.635	128	528627	53.265	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	179544	49.473	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085773.D
Acq On : 18 Feb 2025 11:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Quant Time: Feb 19 03:17:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	235331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	397776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	339681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	27654	9.064	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.120%#		
35) Dibromofluoromethane	8.159	113	23353	8.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	17.940%#		
50) Toluene-d8	10.565	98	80889	8.542	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	17.080%#		
62) 4-Bromofluorobenzene	12.841	95	25697	8.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	16.480%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	36657	11.452	ug/l	96
3) Chloromethane	2.359	50	34946	10.880	ug/l	97
4) Vinyl Chloride	2.518	62	37462	11.015	ug/l	99
5) Bromomethane	2.965	94	25562	11.755	ug/l	100
6) Chloroethane	3.124	64	24265	10.772	ug/l	95
7) Trichlorofluoromethane	3.500	101	53380	10.841	ug/l	99
8) Diethyl Ether	3.959	74	17236	10.819	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	31724	11.146	ug/l	96
10) Methyl Iodide	4.589	142	37913	10.806	ug/l	93
11) Tert butyl alcohol	5.506	59	21584	57.519	ug/l	99
12) 1,1-Dichloroethene	4.342	96	27815	10.778	ug/l	97
13) Acrolein	4.177	56	27644	49.677	ug/l	98
14) Allyl chloride	5.024	41	36624	10.809	ug/l	98
15) Acrylonitrile	5.718	53	65440	53.643	ug/l	99
16) Acetone	4.424	43	51172	53.007	ug/l	97
17) Carbon Disulfide	4.712	76	84915	11.102	ug/l	99
18) Methyl Acetate	5.024	43	37354	11.250	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	80686	10.521	ug/l	96
20) Methylene Chloride	5.271	84	33412	10.762	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	29226	10.517	ug/l	91
22) Diisopropyl ether	6.671	45	83002	10.841	ug/l	95
23) Vinyl Acetate	6.600	43	279697m	53.519	ug/l	
24) 1,1-Dichloroethane	6.565	63	57247	10.999	ug/l	97
25) 2-Butanone	7.477	43	77791	54.772	ug/l	98
26) 2,2-Dichloropropane	7.482	77	50333	10.876	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	34806	10.802	ug/l	98
28) Bromochloromethane	7.812	49	16276	7.609	ug/l #	99
29) Tetrahydrofuran	7.835	42	50478	55.039	ug/l	98
30) Chloroform	7.959	83	59719	10.980	ug/l	96
31) Cyclohexane	8.253	56	45995	10.555	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	51254	10.595	ug/l	98
36) 1,1-Dichloropropene	8.365	75	38983	10.582	ug/l	99
37) Ethyl Acetate	7.553	43	30665	10.115	ug/l	96
38) Carbon Tetrachloride	8.353	117	46420	10.605	ug/l	97
39) Methylcyclohexane	9.594	83	35475	9.803	ug/l #	85
40) Benzene	8.606	78	124704	10.562	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	16811	10.373	ug/l	99
42) 1,2-Dichloroethane	8.665	62	41912	10.898	ug/l	98
43) Isopropyl Acetate	8.682	43	60794	11.001	ug/l	95
44) Trichloroethene	9.347	130	30561	10.542	ug/l	88
45) 1,2-Dichloropropane	9.618	63	30619	10.744	ug/l	100
46) Dibromomethane	9.706	93	21085	10.489	ug/l	98
47) Bromodichloromethane	9.882	83	45413	10.559	ug/l	95
48) Methyl methacrylate	9.676	41	22058	9.798	ug/l	96
49) 1,4-Dioxane	9.688	88	8936	208.723	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	155789	53.302	ug/l	98
52) Toluene	10.623	92	73516	10.622	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	41230	10.367	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	46300	10.617	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	29408	10.687	ug/l	96
56) Ethyl methacrylate	10.871	69	35641	10.274	ug/l	99
57) 1,3-Dichloropropane	11.159	76	48905	10.647	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	67791	47.108	ug/l	97
59) 2-Hexanone	11.188	43	105782	52.609	ug/l	97
60) Dibromochloromethane	11.353	129	34267	10.694	ug/l	98
61) 1,2-Dibromoethane	11.465	107	28789	11.073	ug/l	97
64) Tetrachloroethene	11.100	164	28564	10.855	ug/l	92
65) Chlorobenzene	11.888	112	82365	10.585	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	30133	10.773	ug/l	99
67) Ethyl Benzene	11.959	91	124323	10.199	ug/l	98
68) m/p-Xylenes	12.065	106	98574	21.290	ug/l	98
69) o-Xylene	12.394	106	45263	10.287	ug/l	100
70) Styrene	12.406	104	72044	9.994	ug/l	98
71) Bromoform	12.576	173	21882	10.529	ug/l #	98
73) Isopropylbenzene	12.688	105	109944	10.576	ug/l	99
74) N-amyl acetate	12.488	43	38318	10.452	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	39575	11.063	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	34754m	10.425	ug/l	
77) Bromobenzene	12.976	156	31066	11.061	ug/l	98
78) n-propylbenzene	13.029	91	125206	10.517	ug/l	99
79) 2-Chlorotoluene	13.117	91	86237	10.841	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	90718	10.713	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	11901	10.302	ug/l	97
82) 4-Chlorotoluene	13.217	91	86106	10.919	ug/l	100
83) tert-Butylbenzene	13.435	119	73803	10.364	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	89125	10.638	ug/l	99
85) sec-Butylbenzene	13.611	105	107253	10.660	ug/l	99
86) p-Isopropyltoluene	13.723	119	84249	10.256	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	56944	10.822	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	57166	10.600	ug/l	99
89) n-Butylbenzene	14.053	91	70940	9.931	ug/l	96
90) Hexachloroethane	14.329	117	19282	10.119	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	53647	10.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	7223	10.996	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	25090	10.406	ug/l	98
94) Hexachlorobutadiene	15.494	225	15278	10.426	ug/l	95
95) Naphthalene	15.635	128	65549	9.902	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	25612	10.581	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085775.D
Acq On : 18 Feb 2025 12:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

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

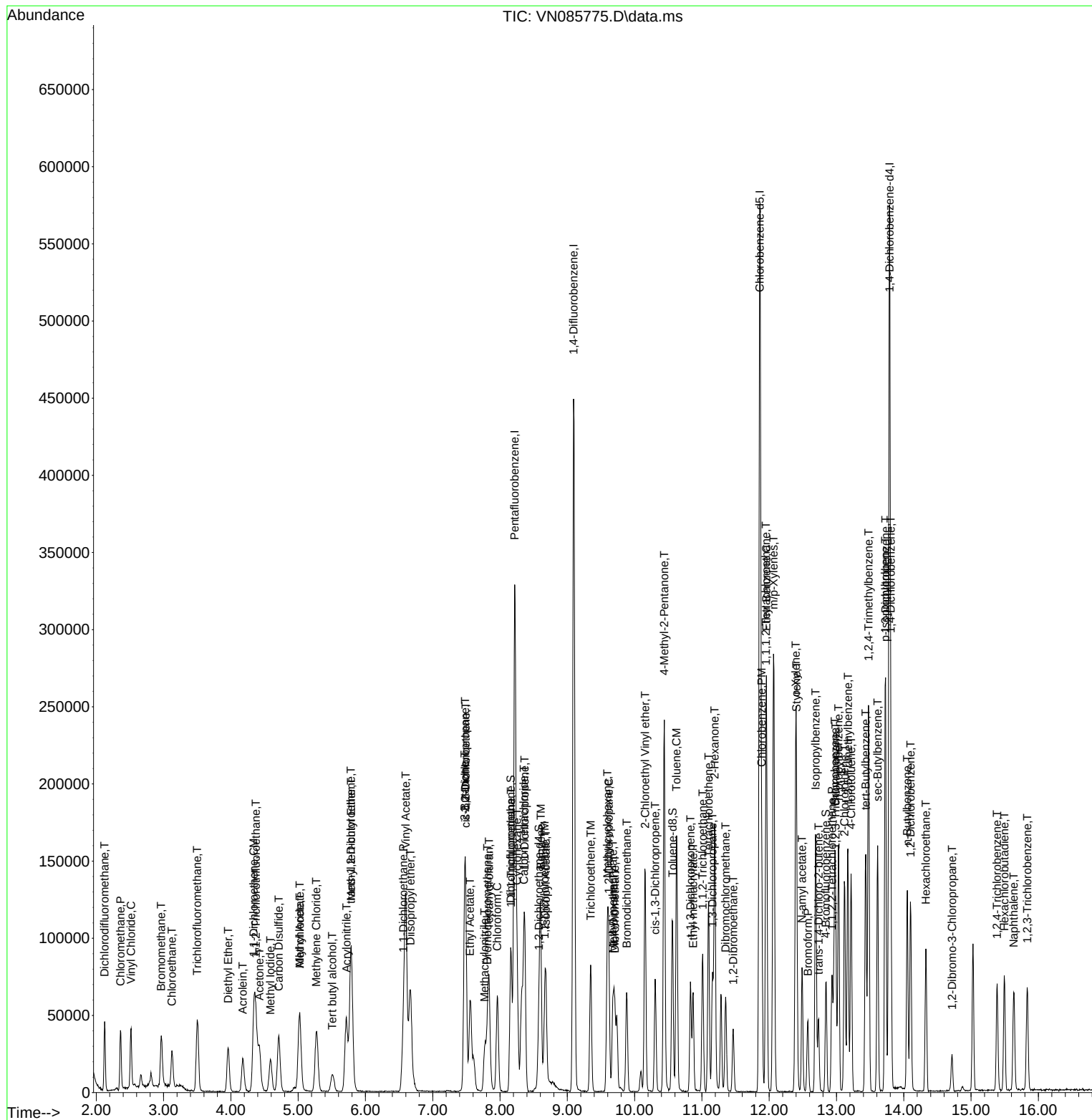
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085775.D  
Acq On    : 18 Feb 2025  12:20  
Operator  : JC\MD  
Sample    : VSTDIC010  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	272461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	471970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	396883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	179241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	20906	5.918	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.840%#		
35) Dibromofluoromethane	8.165	113	16866	5.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.920%#		
50) Toluene-d8	10.559	98	57180	5.089	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.180%#		
62) 4-Bromofluorobenzene	12.841	95	17484	4.723	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.440%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	17717	4.781	ug/l	97
3) Chloromethane	2.359	50	18038	4.850	ug/l	98
4) Vinyl Chloride	2.512	62	19849	5.041	ug/l	93
5) Bromomethane	2.953	94	13523	5.371	ug/l	97
6) Chloroethane	3.118	64	12801	4.908	ug/l	93
7) Trichlorofluoromethane	3.500	101	29008	5.088	ug/l	92
8) Diethyl Ether	3.959	74	9618	5.214	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	17299	5.250	ug/l	98
10) Methyl Iodide	4.595	142	19721	4.855	ug/l #	88
11) Tert butyl alcohol	5.518	59	11272	25.945	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	15564	5.209	ug/l	96
13) Acrolein	4.177	56	17171	26.652	ug/l	95
14) Allyl chloride	5.012	41	19720	5.027	ug/l	94
15) Acrylonitrile	5.718	53	35404	25.067	ug/l	98
16) Acetone	4.424	43	28402	25.411	ug/l	100
17) Carbon Disulfide	4.706	76	43711	4.936	ug/l	96
18) Methyl Acetate	5.018	43	18793	4.888	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	42491	4.786	ug/l	98
20) Methylene Chloride	5.271	84	18139	5.046	ug/l #	88
21) trans-1,2-Dichloroethene	5.783	96	16330	5.076	ug/l	93
22) Diisopropyl ether	6.671	45	42703	4.817	ug/l	95
23) Vinyl Acetate	6.594	43	140821m	23.273	ug/l	
24) 1,1-Dichloroethane	6.565	63	30658	5.088	ug/l #	93
25) 2-Butanone	7.477	43	40795	24.809	ug/l	95
26) 2,2-Dichloropropane	7.488	77	26889	5.018	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	18673	5.006	ug/l	98
28) Bromochloromethane	7.806	49	15543	6.276	ug/l	91
29) Tetrahydrofuran	7.841	42	24907	23.457	ug/l	98
30) Chloroform	7.959	83	31702	5.034	ug/l	100
31) Cyclohexane	8.247	56	28784	5.705	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	28815	5.145	ug/l #	50
36) 1,1-Dichloropropene	8.365	75	20593	4.711	ug/l	98
37) Ethyl Acetate	7.553	43	17768	4.940	ug/l #	85
38) Carbon Tetrachloride	8.353	117	25734	4.955	ug/l	95
39) Methylcyclohexane	9.594	83	19113	4.451	ug/l	97
40) Benzene	8.600	78	67051	4.786	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	9296	4.835	ug/l	98
42) 1,2-Dichloroethane	8.665	62	21886	4.796	ug/l	99
43) Isopropyl Acetate	8.682	43	35032	5.059	ug/l	92
44) Trichloroethene	9.347	130	16513	4.801	ug/l	96
45) 1,2-Dichloropropane	9.618	63	16228	4.799	ug/l	97
46) Dibromomethane	9.706	93	11544	4.840	ug/l	98
47) Bromodichloromethane	9.888	83	25152	4.929	ug/l	96
48) Methyl methacrylate	9.677	41	12200	4.567	ug/l	97
49) 1,4-Dioxane	9.688	88	4669	91.913	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	80666	23.260	ug/l	96
52) Toluene	10.629	92	38701	4.713	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	22215	4.708	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	24235	4.684	ug/l #	91
55) 1,1,2-Trichloroethane	11.012	97	16352	5.008	ug/l	94
56) Ethyl methacrylate	10.871	69	18032	4.704	ug/l	99
57) 1,3-Dichloropropane	11.159	76	26117	4.792	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	41567	14.159	ug/l	97
59) 2-Hexanone	11.188	43	53498	22.424	ug/l	94
60) Dibromochloromethane	11.353	129	18137	4.771	ug/l	98
61) 1,2-Dibromoethane	11.465	107	15097	4.894	ug/l	99
64) Tetrachloroethene	11.100	164	15504	5.043	ug/l	92
65) Chlorobenzene	11.888	112	45215	4.973	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	15949	4.880	ug/l	98
67) Ethyl Benzene	11.959	91	66079	4.640	ug/l	99
68) m/p-Xylenes	12.065	106	48412	8.949	ug/l	99
69) o-Xylene	12.394	106	23196	4.512	ug/l	100
70) Styrene	12.406	104	35138	4.557	ug/l	97
71) Bromoform	12.576	173	11934	4.915	ug/l #	94
73) Isopropylbenzene	12.694	105	54982	4.477	ug/l	99
74) N-amyl acetate	12.488	43	20017	4.623	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.929	83	21823	5.164	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	20813m	5.285	ug/l	
77) Bromobenzene	12.976	156	16215	4.888	ug/l	95
78) n-propylbenzene	13.029	91	62073	4.414	ug/l	99
79) 2-Chlorotoluene	13.117	91	43457	4.625	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	43342	4.333	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.729	75	6070	4.448	ug/l	90
82) 4-Chlorotoluene	13.217	91	43684	4.690	ug/l	100
83) tert-Butylbenzene	13.435	119	37975	4.515	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	42792	4.324	ug/l	97
85) sec-Butylbenzene	13.612	105	52659	4.431	ug/l	98
86) p-Isopropyltoluene	13.723	119	41010	4.632	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	30417	4.894	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	31847	4.999	ug/l	96
89) n-Butylbenzene	14.053	91	36427	4.317	ug/l	98
90) Hexachloroethane	14.329	117	11276	5.010	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	29424	4.923	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.711	75	3987	5.138	ug/l	89
93) 1,2,4-Trichlorobenzene	15.388	180	13040	4.578	ug/l	96
94) Hexachlorobutadiene	15.494	225	8623	4.982	ug/l	98
95) Naphthalene	15.635	128	33300	4.259	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	13188	4.612	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085776.D
Acq On : 18 Feb 2025 12:43
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	274051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	476457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	394997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152224	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	3620	0.971	ug/l	84
3) Chloromethane	2.359	50	4478	1.197	ug/l #	83
4) Vinyl Chloride	2.518	62	4169	1.053	ug/l #	80
6) Chloroethane	3.124	64	3201	1.220	ug/l	100
7) Trichlorofluoromethane	3.500	101	6048	1.055	ug/l #	71
8) Diethyl Ether	3.965	74	1716m	0.925	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	3034	0.915	ug/l	90
12) 1,1-Dichloroethene	4.341	96	2817	0.937	ug/l #	75
14) Allyl chloride	5.024	41	3802m	0.964	ug/l	
15) Acrylonitrile	5.718	53	6980	4.913	ug/l	98
16) Acetone	4.436	43	6230	5.542	ug/l #	73
17) Carbon Disulfide	4.712	76	10131	1.137	ug/l	98
18) Methyl Acetate	5.030	43	4677	1.210	ug/l #	52
19) Methyl tert-butyl Ether	5.794	73	7883	0.883	ug/l	97
20) Methylene Chloride	5.277	84	4036	1.116	ug/l #	84
21) trans-1,2-Dichloroethene	5.788	96	3415	1.055	ug/l	91
22) Diisopropyl ether	6.659	45	7268	0.815	ug/l #	80
23) Vinyl Acetate	6.600	43	27376m	4.498	ug/l	
24) 1,1-Dichloroethane	6.571	63	5881	0.970	ug/l #	82
25) 2-Butanone	7.482	43	7658	4.630	ug/l	92
26) 2,2-Dichloropropane	7.477	77	5170m	0.959	ug/l	
27) cis-1,2-Dichloroethene	7.488	96	3541	0.944	ug/l	92
28) Bromochloromethane	7.812	49	2649	1.063	ug/l #	98
29) Tetrahydrofuran	7.841	42	4567	4.276	ug/l	93
30) Chloroform	7.959	83	6416	1.013	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	5643	1.002	ug/l #	47
36) 1,1-Dichloropropene	8.365	75	4055	0.919	ug/l	93
37) Ethyl Acetate	7.553	43	3365	0.927	ug/l #	84
38) Carbon Tetrachloride	8.353	117	5079	0.969	ug/l #	94
39) Methylcyclohexane	9.594	83	3557	0.821	ug/l #	89
40) Benzene	8.606	78	13536	0.957	ug/l	96
41) Methacrylonitrile	7.771	41	1573	0.810	ug/l #	85
42) 1,2-Dichloroethane	8.671	62	4497	0.976	ug/l	88
43) Isopropyl Acetate	8.677	43	12901	1.494	ug/l #	73
44) Trichloroethene	9.347	130	3768	1.085	ug/l	98
45) 1,2-Dichloropropane	9.618	63	3235	0.948	ug/l	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	2304	0.957	ug/l	96
47) Bromodichloromethane	9.882	83	4879	0.947	ug/l #	92
48) Methyl methacrylate	9.676	41	2247	0.833	ug/l	92
49) 1,4-Dioxane	9.694	88	992	19.344	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	13832	3.951	ug/l	94
52) Toluene	10.629	92	6568	0.792	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	3884	0.815	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	4211	0.806	ug/l #	87
55) 1,1,2-Trichloroethane	11.012	97	3084	0.936	ug/l #	88
56) Ethyl methacrylate	10.859	69	2517	1.052	ug/l #	75
57) 1,3-Dichloropropane	11.153	76	5078	0.923	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.153	63	6353	3.424	ug/l	99
59) 2-Hexanone	11.194	43	8780	3.646	ug/l	91
60) Dibromochloromethane	11.353	129	3380	0.881	ug/l	91
61) 1,2-Dibromoethane	11.465	107	2599	0.835	ug/l	89
64) Tetrachloroethene	11.094	164	3108	1.016	ug/l	87
65) Chlorobenzene	11.882	112	8761	0.968	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.959	131	3222	0.991	ug/l #	66
67) Ethyl Benzene	11.959	91	11246	0.793	ug/l	100
68) m/p-Xylenes	12.065	106	7606	1.413	ug/l	91
69) o-Xylene	12.394	106	3965	0.775	ug/l	95
70) Styrene	12.406	104	5877	1.257	ug/l	99
71) Bromoform	12.570	173	2161	0.894	ug/l #	87
73) Isopropylbenzene	12.694	105	8928	0.856	ug/l	95
74) N-amyl acetate	12.488	43	3263	0.887	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	3870	1.078	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	4032m	1.206	ug/l	
77) Bromobenzene	12.976	156	2624	0.931	ug/l	76
78) n-propylbenzene	13.029	91	9228	0.773	ug/l	99
79) 2-Chlorotoluene	13.123	91	7260	0.910	ug/l	95
80) 1,3,5-Trimethylbenzene	13.164	105	6185	0.728	ug/l	98
82) 4-Chlorotoluene	13.217	91	6700	0.847	ug/l	99
83) tert-Butylbenzene	13.435	119	5485	0.768	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	5595	0.666	ug/l	96
85) sec-Butylbenzene	13.611	105	7569	0.750	ug/l	99
86) p-Isopropyltoluene	13.723	119	5416	1.252	ug/l	95
87) 1,3-Dichlorobenzene	13.729	146	5321	1.008	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	5848m	1.081	ug/l	
89) n-Butylbenzene	14.047	91	6398	0.893	ug/l	91
90) Hexachloroethane	14.329	117	2153	1.126	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	5309	1.046	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.711	75	780	1.184	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	2525	1.044	ug/l	95
94) Hexachlorobutadiene	15.494	225	1976	1.344	ug/l	94
95) Naphthalene	15.635	128	7298	1.099	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.841	180	2791	1.149	ug/l	97

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

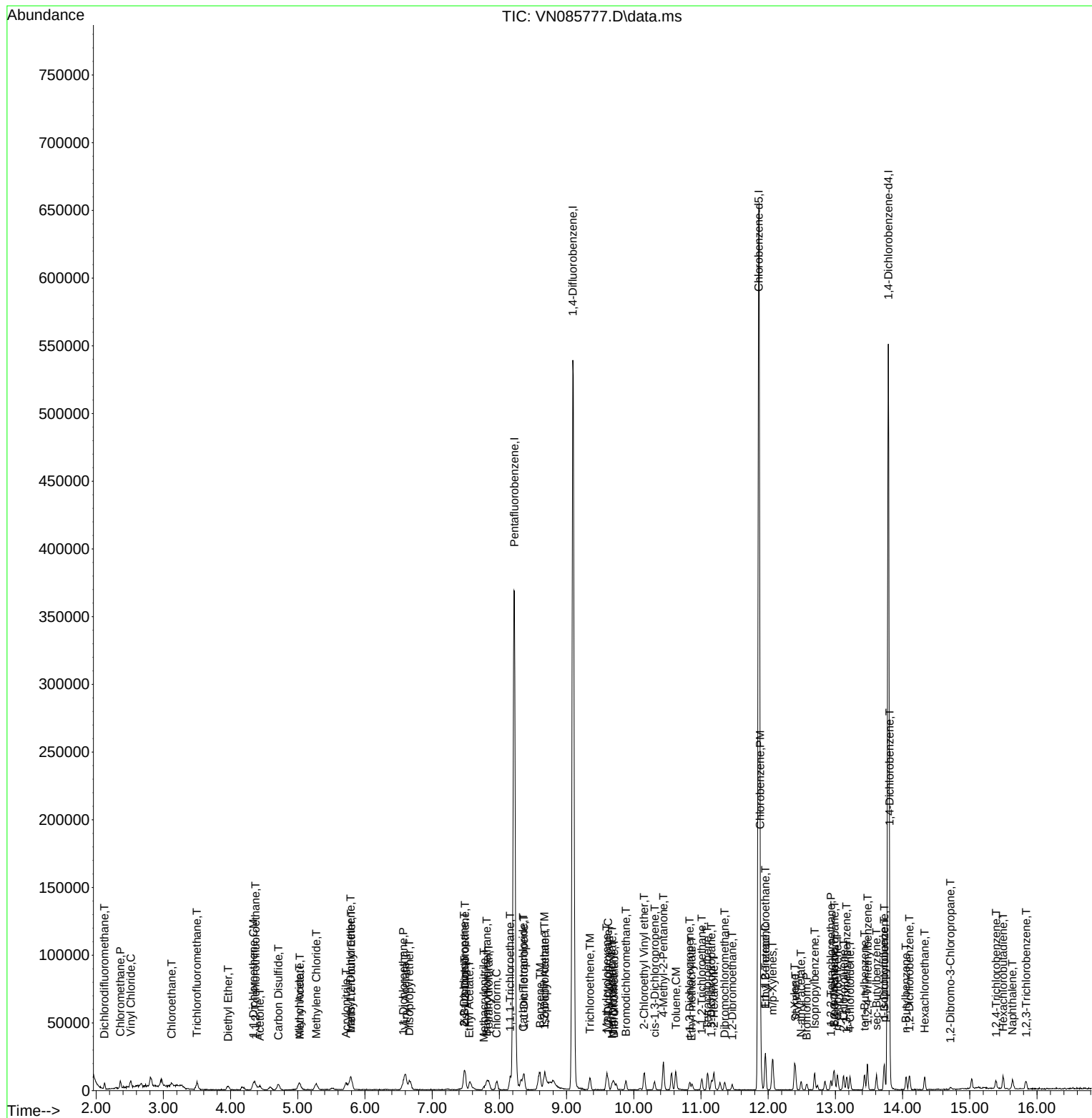
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085777.D  
Acq On    : 18 Feb 2025  13:07  
Operator  : JC\MD  
Sample    : VSTDIC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 7      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 02:27:19 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	309026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	515996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	448882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	214863	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	71117	17.751	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	35.500%#
35) Dibromofluoromethane	8.159	113	60447	17.903	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	35.800%#
50) Toluene-d8	10.559	98	222839	18.140	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	36.280%#
62) 4-Bromofluorobenzene	12.847	95	71343	17.627	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	35.260%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	77669	18.478	ug/l	96
3) Chloromethane	2.360	50	74700	17.710	ug/l	98
4) Vinyl Chloride	2.512	62	83284	18.649	ug/l	96
5) Bromomethane	2.954	94	51068	17.884	ug/l	97
6) Chloroethane	3.118	64	54178	18.315	ug/l	98
7) Trichlorofluoromethane	3.501	101	124306	19.225	ug/l	100
8) Diethyl Ether	3.959	74	40213	19.221	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	74051	19.813	ug/l	98
10) Methyl Iodide	4.589	142	87963	19.093	ug/l	96
11) Tert butyl alcohol	5.512	59	45305	91.941	ug/l	99
12) 1,1-Dichloroethene	4.336	96	65660	19.375	ug/l	95
13) Acrolein	4.177	56	65092	89.078	ug/l	99
14) Allyl chloride	5.024	41	84778	19.054	ug/l	98
15) Acrylonitrile	5.712	53	158250	98.787	ug/l	99
16) Acetone	4.418	43	122455	96.596	ug/l	97
17) Carbon Disulfide	4.706	76	179885	17.910	ug/l	100
18) Methyl Acetate	5.012	43	77229	17.712	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	205047	20.362	ug/l	97
20) Methylene Chloride	5.271	84	77308	18.963	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	69924	19.162	ug/l	91
22) Diisopropyl ether	6.665	45	212086	21.095	ug/l	99
23) Vinyl Acetate	6.600	43	695943	101.409	ug/l	99
24) 1,1-Dichloroethane	6.565	63	134620	19.697	ug/l	98
25) 2-Butanone	7.477	43	184659	99.012	ug/l	98
26) 2,2-Dichloropropane	7.489	77	120039	19.752	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	82886	19.590	ug/l	99
28) Bromochloromethane	7.806	49	49657	17.678	ug/l	95
29) Tetrahydrofuran	7.836	42	125831	104.482	ug/l	100
30) Chloroform	7.959	83	141059	19.750	ug/l	98
31) Cyclohexane	8.253	56	106009	18.525	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	125061	19.686	ug/l	98
36) 1,1-Dichloropropene	8.365	75	94481	19.772	ug/l	99
37) Ethyl Acetate	7.553	43	81716	20.780	ug/l	99
38) Carbon Tetrachloride	8.359	117	111137	19.574	ug/l	96
39) Methylcyclohexane	9.600	83	93454	19.907	ug/l	99
40) Benzene	8.600	78	304209	19.863	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	43566	20.724	ug/l	98
42) 1,2-Dichloroethane	8.665	62	99651	19.975	ug/l	99
43) Isopropyl Acetate	8.683	43	138304	19.709	ug/l	99
44) Trichloroethene	9.347	130	71769	19.085	ug/l	97
45) 1,2-Dichloropropane	9.618	63	73743	19.947	ug/l	98
46) Dibromomethane	9.706	93	52878	20.278	ug/l	97
47) Bromodichloromethane	9.883	83	111634	20.010	ug/l	97
48) Methyl methacrylate	9.677	41	60690	20.781	ug/l	99
49) 1,4-Dioxane	9.688	88	21778	392.137	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	400235	105.563	ug/l	99
52) Toluene	10.624	92	184001	20.495	ug/l	98
53) t-1,3-Dichloropropene	10.830	75	104301	20.218	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	115451	20.409	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	71034	19.900	ug/l	97
56) Ethyl methacrylate	10.871	69	94315	20.003	ug/l	97
57) 1,3-Dichloropropane	11.159	76	119649	20.080	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	256540	146.107	ug/l	99
59) 2-Hexanone	11.188	43	278550	106.794	ug/l	99
60) Dibromochloromethane	11.353	129	83651	20.125	ug/l	100
61) 1,2-Dibromoethane	11.465	107	68205	20.223	ug/l	99
64) Tetrachloroethene	11.100	164	67288	19.350	ug/l	94
65) Chlorobenzene	11.888	112	200885	19.535	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	72064	19.497	ug/l	99
67) Ethyl Benzene	11.959	91	330056	20.490	ug/l	97
68) m/p-Xylenes	12.065	106	259251	42.371	ug/l	100
69) o-Xylene	12.394	106	118291	20.345	ug/l	96
70) Styrene	12.406	104	203369	20.270	ug/l	100
71) Bromoform	12.576	173	55518	20.214	ug/l #	96
73) Isopropylbenzene	12.688	105	299398	20.339	ug/l	100
74) N-amyl acetate	12.488	43	106973	20.608	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	99174	19.579	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	96439m	20.431	ug/l	
77) Bromobenzene	12.976	156	78068	19.630	ug/l	98
78) n-propylbenzene	13.029	91	351518	20.852	ug/l	100
79) 2-Chlorotoluene	13.124	91	230434	20.458	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	258212	21.534	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	31517	19.267	ug/l	92
82) 4-Chlorotoluene	13.218	91	227177	20.345	ug/l	100
83) tert-Butylbenzene	13.435	119	208096	20.637	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	259373	21.863	ug/l	99
85) sec-Butylbenzene	13.612	105	293653	20.612	ug/l	99
86) p-Isopropyltoluene	13.723	119	240984	19.772	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	143937	19.318	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	144744	18.954	ug/l	99
89) n-Butylbenzene	14.053	91	195221	19.300	ug/l	97
90) Hexachloroethane	14.329	117	50599	18.753	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	138931	19.390	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	16407	17.639	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	60520	17.726	ug/l	98
94) Hexachlorobutadiene	15.500	225	34783	16.763	ug/l	97
95) Naphthalene	15.635	128	156537	16.700	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	57998	16.921	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085779.D
Acq On : 18 Feb 2025 14:18
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:19:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

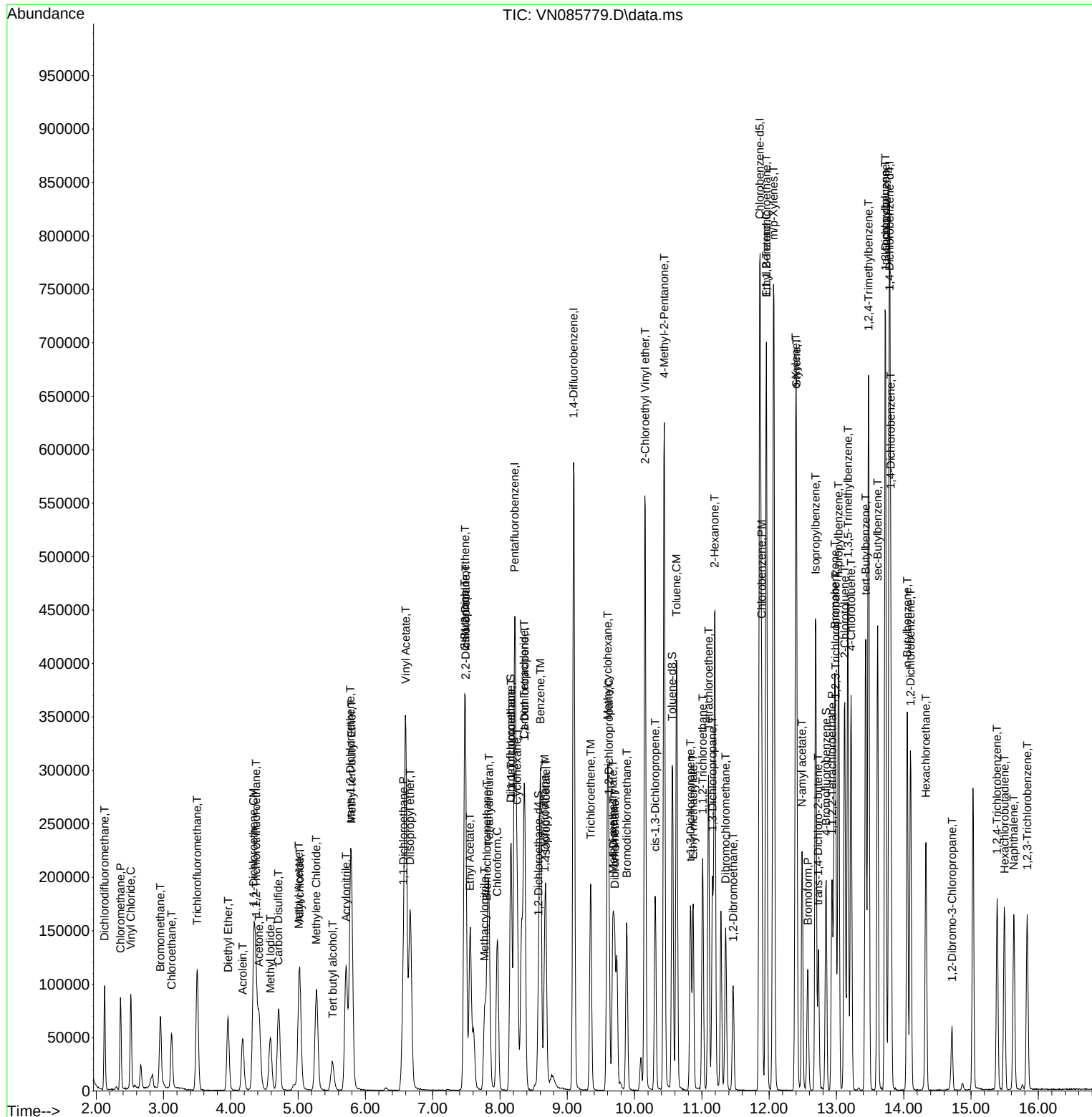
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	314015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	510764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	456487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	222696	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	204064	50.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	8.165	113	170358	50.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.940%			
50) Toluene-d8	10.559	98	651463	53.575	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.140%			
62) 4-Bromofluorobenzene	12.841	95	227023	56.665	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.320%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	193054	45.199	ug/l	98
3) Chloromethane	2.359	50	181889	42.438	ug/l	98
4) Vinyl Chloride	2.512	62	197171	43.449	ug/l	97
5) Bromomethane	2.953	94	119789	41.282	ug/l	95
6) Chloroethane	3.118	64	122900	40.887	ug/l	95
7) Trichlorofluoromethane	3.500	101	279842	42.592	ug/l	98
8) Diethyl Ether	3.959	74	96415	45.353	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	165520	43.582	ug/l	98
10) Methyl Iodide	4.589	142	211559	45.190	ug/l	99
11) Tert butyl alcohol	5.506	59	118845	237.350	ug/l	99
12) 1,1-Dichloroethene	4.336	96	153815	44.667	ug/l	98
13) Acrolein	4.171	56	179054	241.140	ug/l	97
14) Allyl chloride	5.024	41	201442	44.555	ug/l	99
15) Acrylonitrile	5.712	53	378819	232.720	ug/l	99
16) Acetone	4.418	43	279680	217.115	ug/l	99
17) Carbon Disulfide	4.712	76	423019	41.449	ug/l	99
18) Methyl Acetate	5.018	43	194998	44.011	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	491324	48.014	ug/l	99
20) Methylene Chloride	5.277	84	173805	41.955	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	161205	43.475	ug/l	94
22) Diisopropyl ether	6.665	45	483670	47.344	ug/l	99
23) Vinyl Acetate	6.600	43	1698852	242.867	ug/l	99
24) 1,1-Dichloroethane	6.565	63	301375	43.396	ug/l	99
25) 2-Butanone	7.477	43	456416	240.836	ug/l	100
26) 2,2-Dichloropropane	7.482	77	274082	44.383	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	190393	44.284	ug/l	99
28) Bromochloromethane	7.812	49	142695	49.991	ug/l	97
29) Tetrahydrofuran	7.830	42	304613	248.913	ug/l	99
30) Chloroform	7.965	83	312547	43.065	ug/l	97
31) Cyclohexane	8.253	56	248433	42.725	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	281708	43.640	ug/l	99
36) 1,1-Dichloropropene	8.365	75	220335	46.581	ug/l	99
37) Ethyl Acetate	7.553	43	182091	46.779	ug/l	99
38) Carbon Tetrachloride	8.359	117	251949	44.828	ug/l	99
39) Methylcyclohexane	9.600	83	230541	49.612	ug/l	98
40) Benzene	8.600	78	682453	45.016	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	105287	50.597	ug/l	99
42) 1,2-Dichloroethane	8.665	62	223798	45.321	ug/l	100
43) Isopropyl Acetate	8.682	43	317074	46.374	ug/l	99
44) Trichloroethene	9.347	130	161430	43.368	ug/l	99
45) 1,2-Dichloropropane	9.618	63	165383	45.194	ug/l	99
46) Dibromomethane	9.700	93	118394	45.867	ug/l	98
47) Bromodichloromethane	9.882	83	245433	44.443	ug/l	96
48) Methyl methacrylate	9.676	41	149072	51.566	ug/l	99
49) 1,4-Dioxane	9.688	88	55529	1010.103	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	954888	254.433	ug/l	100
52) Toluene	10.623	92	429445	48.324	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	249572	48.873	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	269744	48.172	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	160020	45.289	ug/l	99
56) Ethyl methacrylate	10.871	69	243449	48.142	ug/l	99
57) 1,3-Dichloropropane	11.159	76	272817	46.254	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	565673	276.203	ug/l	99
59) 2-Hexanone	11.188	43	687507	266.284	ug/l	100
60) Dibromochloromethane	11.353	129	192169	46.707	ug/l	100
61) 1,2-Dibromoethane	11.465	107	157602	47.208	ug/l	99
64) Tetrachloroethene	11.100	164	148840	42.088	ug/l	98
65) Chlorobenzene	11.888	112	464545	44.422	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	163676	43.545	ug/l	100
67) Ethyl Benzene	11.959	91	797025	48.655	ug/l	99
68) m/p-Xylenes	12.065	106	619505	99.562	ug/l	100
69) o-Xylene	12.394	106	294679	49.837	ug/l	100
70) Styrene	12.406	104	498501	45.726	ug/l	99
71) Bromoform	12.576	173	130201	46.617	ug/l #	97
73) Isopropylbenzene	12.694	105	747608	49.002	ug/l	100
74) N-amyl acetate	12.488	43	265786	49.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	225776	43.005	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	227901m	46.070	ug/l	
77) Bromobenzene	12.976	156	185833	45.084	ug/l	98
78) n-propylbenzene	13.029	91	872362	49.927	ug/l	99
79) 2-Chlorotoluene	13.123	91	541105	46.350	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	622090	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	79943	47.152	ug/l	94
82) 4-Chlorotoluene	13.217	91	548585	47.401	ug/l	99
83) tert-Butylbenzene	13.435	119	521552	49.904	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	633621	51.531	ug/l	99
85) sec-Butylbenzene	13.612	105	737200	49.925	ug/l	100
86) p-Isopropyltoluene	13.723	119	617918	46.012	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	341228	44.186	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	338619	42.781	ug/l	100
89) n-Butylbenzene	14.053	91	513863	49.015	ug/l	98
90) Hexachloroethane	14.329	117	119768	42.828	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	325885	43.883	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41836	43.396	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	161503	45.640	ug/l	99
94) Hexachlorobutadiene	15.494	225	84060	39.087	ug/l	99
95) Naphthalene	15.635	128	487372	50.167	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	158416	44.593	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

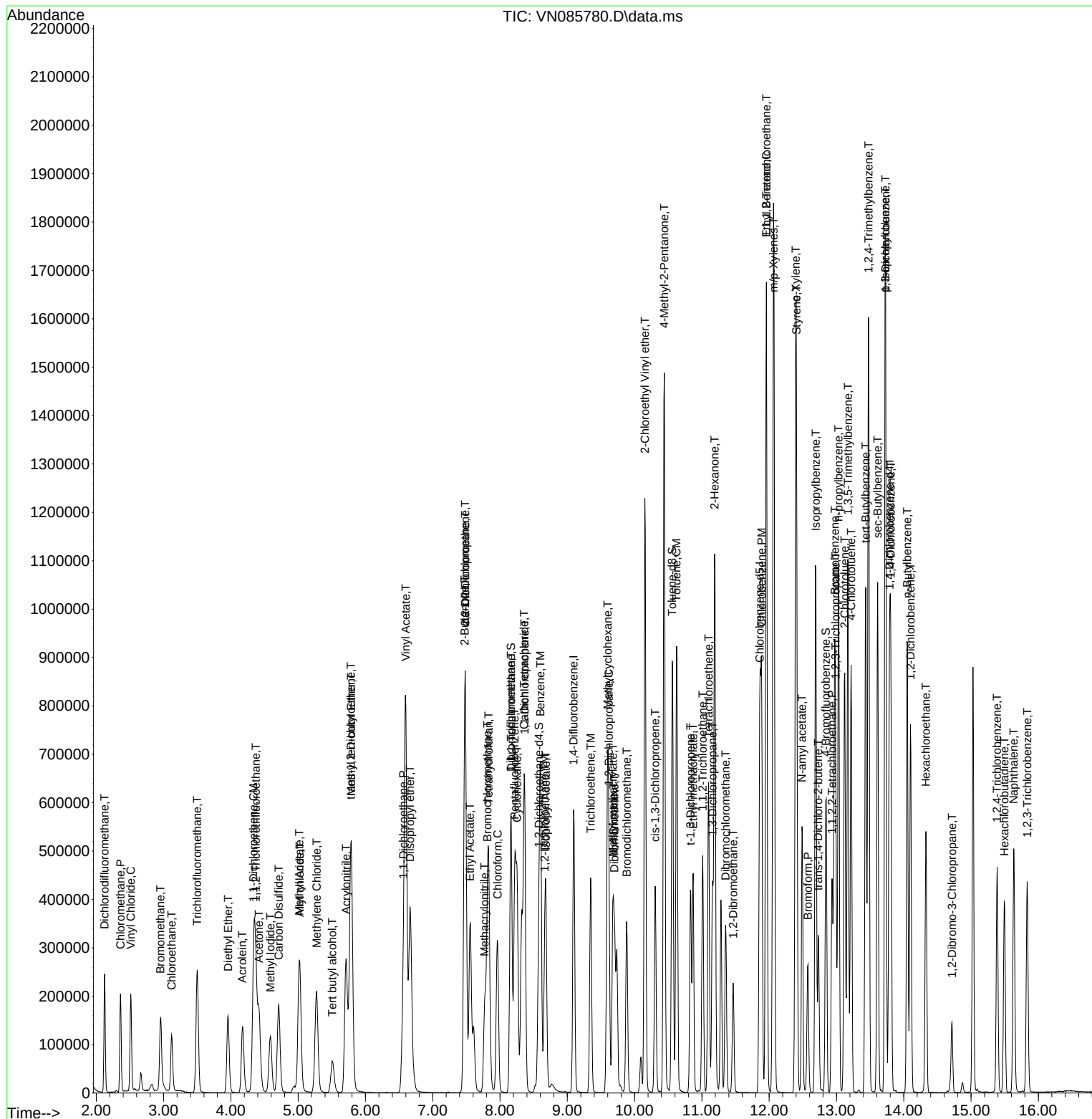
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\  
Data File : VN085780.D  
Acq On    : 18 Feb 2025  16:28  
Operator  : JC\MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 13   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	97	0.00
2 T	Dichlorodifluoromethane	0.680	0.615	9.6	89	0.00
3 P	Chloromethane	0.682	0.579	15.1	91	0.00
4 C	Vinyl Chloride	0.723	0.628	13.1#	90	0.00
5 T	Bromomethane	0.462	0.381	17.5	88	0.00
6 T	Chloroethane	0.479	0.391	18.4	92	0.00
7 T	Trichlorofluoromethane	1.046	0.891	14.8	91	0.00
8 T	Diethyl Ether	0.339	0.307	9.4	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.527	12.9	91	0.00
10 T	Methyl Iodide	0.745	0.674	9.5	91	0.00
11 T	Tert butyl alcohol	0.080	0.076	5.0	94	0.00
12 CM	1,1-Dichloroethene	0.548	0.490	10.6#	90	0.00
13 T	Acrolein	0.118	0.114	3.4	88	0.00
14 T	Allyl chloride	0.720	0.642	10.8	90	0.00
15 T	Acrylonitrile	0.259	0.241	6.9	96	0.00
16 T	Acetone	0.205	0.178	13.2	94	0.00
17 T	Carbon Disulfide	1.625	1.347	17.1	89	0.00
18 T	Methyl Acetate	0.705	0.621	11.9	98	0.00
19 T	Methyl tert-butyl Ether	1.629	1.565	3.9	92	0.00
20 T	Methylene Chloride	0.660	0.553	16.2	91	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.513	13.1	91	0.00
22 T	Diisopropyl ether	1.627	1.540	5.3	91	0.00
23 T	Vinyl Acetate	1.114	1.082	2.9	94	0.00
24 P	1,1-Dichloroethane	1.106	0.960	13.2	90	0.00
25 T	2-Butanone	0.302	0.291	3.6	96	0.00
26 T	2,2-Dichloropropane	0.983	0.873	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.606	11.5	89	0.00
28 T	Bromochloromethane	0.454	0.454	0.0	100	0.00
29 T	Tetrahydrofuran	0.195	0.194	0.5	97	0.00
30 C	Chloroform	1.156	0.995	13.9#	91	0.00
31 T	Cyclohexane	0.926	0.791	14.6	90	0.00
32 T	1,1,1-Trichloroethane	1.028	0.897	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.650	-0.3	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.327	0.334	-2.1	102	0.00
36 T	1,1-Dichloropropene	0.463	0.431	6.9	91	0.00
37 T	Ethyl Acetate	0.381	0.357	6.3	92	0.00
38 T	Carbon Tetrachloride	0.550	0.493	10.4	91	0.00
39 T	Methylcyclohexane	0.455	0.451	0.9	89	0.00
40 TM	Benzene	1.484	1.336	10.0	90	0.00
41 T	Methacrylonitrile	0.204	0.206	-1.0	93	0.00
42 TM	1,2-Dichloroethane	0.483	0.438	9.3	93	0.00
43 T	Isopropyl Acetate	0.807	0.621	23.0	95	0.00
44 TM	Trichloroethene	0.364	0.316	13.2	90	0.00
45 C	1,2-Dichloropropane	0.358	0.324	9.5#	91	0.00
46 T	Dibromomethane	0.253	0.232	8.3	93	0.00
47 T	Bromodichloromethane	0.541	0.481	11.1	90	0.00
48 T	Methyl methacrylate	0.283	0.292	-3.2	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	0.005	0.005	0.0	91	0.00
50 S	Toluene-d8	1.190	1.275	-7.1	103	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.374	-1.9	96	0.00
52 CM	Toluene	0.870	0.841	3.3#	90	0.00
53 T	t-1,3-Dichloropropene	0.500	0.489	2.2	91	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.528	3.6	90	0.00
55 T	1,1,2-Trichloroethane	0.346	0.313	9.5	92	0.00
56 T	Ethyl methacrylate	0.434	0.477	-9.9	93	0.00
57 T	1,3-Dichloropropane	0.577	0.534	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.222	-13.8	123	0.00
59 T	2-Hexanone	0.253	0.269	-6.3	96	0.00
60 T	Dibromochloromethane	0.403	0.376	6.7	91	0.00
61 T	1,2-Dibromoethane	0.327	0.309	5.5	93	0.00
62 S	4-Bromofluorobenzene	0.392	0.444	-13.3	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.387	0.326	15.8	89	0.00
65 PM	Chlorobenzene	1.145	1.018	11.1	91	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.359	12.9	90	0.00
67 C	Ethyl Benzene	1.794	1.746	2.7#	91	0.00
68 T	m/p-Xylenes	0.682	0.679	0.4	91	0.00
69 T	o-Xylene	0.648	0.646	0.3	91	0.00
70 T	Styrene	1.059	1.092	-3.1	90	0.00
71 P	Bromoform	0.306	0.285	6.9	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.425	3.357	2.0	91	0.00
74 T	N-amyl acetate	1.208	1.193	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.014	14.0	94	0.00
76 T	1,2,3-Trichloropropane	1.111	1.023	7.9	106	0.00
77 T	Bromobenzene	0.925	0.834	9.8	90	0.00
78 T	n-propylbenzene	3.923	3.917	0.2	90	0.00
79 T	2-Chlorotoluene	2.621	2.430	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	2.790	2.793	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.359	5.8	89	0.00
82 T	4-Chlorotoluene	2.598	2.463	5.2	91	0.00
83 T	tert-Butylbenzene	2.346	2.342	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	2.761	2.845	-3.0	90	0.00
85 T	sec-Butylbenzene	3.315	3.310	0.2	89	0.00
86 T	p-Isopropyltoluene	2.665	2.775	-4.1	89	0.00
87 T	1,3-Dichlorobenzene	1.734	1.532	11.6	92	0.00
88 T	1,4-Dichlorobenzene	1.777	1.521	14.4	90	0.00
89 T	n-Butylbenzene	2.354	2.307	2.0	89	0.00
90 T	Hexachloroethane	0.628	0.538	14.3	90	0.00
91 T	1,2-Dichlorobenzene	1.667	1.463	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.188	13.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.725	8.7	89	0.00
94 T	Hexachlorobutadiene	0.483	0.377	21.9	87	0.00
95 T	Naphthalene	2.181	2.189	-0.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	0.798	0.711	10.9	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	45.199	9.6	89	0.00
3 P	Chloromethane	50.000	42.438	15.1	91	0.00
4 C	Vinyl Chloride	50.000	43.449	13.1#	90	0.00
5 T	Bromomethane	50.000	41.282	17.4	88	0.00
6 T	Chloroethane	50.000	40.887	18.2	92	0.00
7 T	Trichlorofluoromethane	50.000	42.592	14.8	91	0.00
8 T	Diethyl Ether	50.000	45.353	9.3	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	43.582	12.8	91	0.00
10 T	Methyl Iodide	50.000	45.190	9.6	91	0.00
11 T	Tert butyl alcohol	250.000	237.350	5.1	94	0.00
12 CM	1,1-Dichloroethene	50.000	44.667	10.7#	90	0.00
13 T	Acrolein	250.000	241.140	3.5	88	0.00
14 T	Allyl chloride	50.000	44.555	10.9	90	0.00
15 T	Acrylonitrile	250.000	232.720	6.9	96	0.00
16 T	Acetone	250.000	217.115	13.2	94	0.00
17 T	Carbon Disulfide	50.000	41.449	17.1	89	0.00
18 T	Methyl Acetate	50.000	44.011	12.0	98	0.00
19 T	Methyl tert-butyl Ether	50.000	48.014	4.0	92	0.00
20 T	Methylene Chloride	50.000	41.955	16.1	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	43.475	13.0	91	0.00
22 T	Diisopropyl ether	50.000	47.344	5.3	91	0.00
23 T	Vinyl Acetate	250.000	242.867	2.9	94	0.00
24 P	1,1-Dichloroethane	50.000	43.396	13.2	90	0.00
25 T	2-Butanone	250.000	240.836	3.7	96	0.00
26 T	2,2-Dichloropropane	50.000	44.383	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	44.284	11.4	89	0.00
28 T	Bromochloromethane	50.000	49.991	0.0	100	0.00
29 T	Tetrahydrofuran	250.000	248.913	0.4	97	0.00
30 C	Chloroform	50.000	43.065	13.9#	91	0.00
31 T	Cyclohexane	50.000	42.725	14.5	90	0.00
32 T	1,1,1-Trichloroethane	50.000	43.640	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.125	-0.3	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	50.972	-1.9	102	0.00
36 T	1,1-Dichloropropene	50.000	46.581	6.8	91	0.00
37 T	Ethyl Acetate	50.000	46.779	6.4	92	0.00
38 T	Carbon Tetrachloride	50.000	44.828	10.3	91	0.00
39 T	Methylcyclohexane	50.000	49.612	0.8	89	0.00
40 TM	Benzene	50.000	45.016	10.0	90	0.00
41 T	Methacrylonitrile	50.000	50.597	-1.2	93	0.00
42 TM	1,2-Dichloroethane	50.000	45.321	9.4	93	0.00
43 T	Isopropyl Acetate	50.000	46.374	7.3	95	0.00
44 TM	Trichloroethene	50.000	43.368	13.3	90	0.00
45 C	1,2-Dichloropropane	50.000	45.194	9.6#	91	0.00
46 T	Dibromomethane	50.000	45.867	8.3	93	0.00
47 T	Bromodichloromethane	50.000	44.443	11.1	90	0.00
48 T	Methyl methacrylate	50.000	51.566	-3.1	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	1010.103	-1.0	91	0.00
50 S	Toluene-d8	50.000	53.575	-7.2	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.433	-1.8	96	0.00
52 CM	Toluene	50.000	48.324	3.4#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	48.873	2.3	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.172	3.7	90	0.00
55 T	1,1,2-Trichloroethane	50.000	45.289	9.4	92	0.00
56 T	Ethyl methacrylate	50.000	48.142	3.7	93	0.00
57 T	1,3-Dichloropropane	50.000	46.254	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.203	-10.5	123	0.00
59 T	2-Hexanone	250.000	266.284	-6.5	96	0.00
60 T	Dibromochloromethane	50.000	46.707	6.6	91	0.00
61 T	1,2-Dibromoethane	50.000	47.208	5.6	93	0.00
62 S	4-Bromofluorobenzene	50.000	56.665	-13.3	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	42.088	15.8	89	0.00
65 PM	Chlorobenzene	50.000	44.422	11.2	91	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	43.545	12.9	90	0.00
67 C	Ethyl Benzene	50.000	48.655	2.7#	91	0.00
68 T	m/p-Xylenes	100.000	99.562	0.4	91	0.00
69 T	o-Xylene	50.000	49.837	0.3	91	0.00
70 T	Styrene	50.000	45.726	8.5	90	0.00
71 P	Bromoform	50.000	46.617	6.8	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	49.002	2.0	91	0.00
74 T	N-amyl acetate	50.000	49.401	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.005	14.0	94	0.00
76 T	1,2,3-Trichloropropane	50.000	46.070	7.9	106	0.00
77 T	Bromobenzene	50.000	45.084	9.8	90	0.00
78 T	n-propylbenzene	50.000	49.927	0.1	90	0.00
79 T	2-Chlorotoluene	50.000	46.350	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.152	5.7	89	0.00
82 T	4-Chlorotoluene	50.000	47.401	5.2	91	0.00
83 T	tert-Butylbenzene	50.000	49.904	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.531	-3.1	90	0.00
85 T	sec-Butylbenzene	50.000	49.925	0.2	89	0.00
86 T	p-Isopropyltoluene	50.000	46.012	8.0	89	0.00
87 T	1,3-Dichlorobenzene	50.000	44.186	11.6	92	0.00
88 T	1,4-Dichlorobenzene	50.000	42.781	14.4	90	0.00
89 T	n-Butylbenzene	50.000	49.015	2.0	89	0.00
90 T	Hexachloroethane	50.000	42.828	14.3	90	0.00
91 T	1,2-Dichlorobenzene	50.000	43.883	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	43.396	13.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.640	8.7	89	0.00
94 T	Hexachlorobutadiene	50.000	39.087	21.8	87	0.00
95 T	Naphthalene	50.000	50.167	-0.3	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	44.593	10.8	88	0.00

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415
 Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021309.D		RRF010 = VY021310.D		RRF020 = VY021311.D			
		RRF050 = VY021312.D		RRF150 = VY021314.D		RRF100 = VY021316.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD	
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2	
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6	
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6	
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9	
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7	
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3	
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1	
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7	
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9	
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4	
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9	
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7	
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8	
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4	
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9	
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9	
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5	
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8	
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7	
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2	
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1	
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8	
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3	
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5	
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9	
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3	
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5	
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5	
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9	
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	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.



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.: Q1415 SAS No.: Q1415 SDG No.: Q1415
 Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021309.D		RRF010 = VY021310.D		RRF020 = VY021311.D		
		RRF050 = VY021312.D		RRF150 = VY021314.D		RRF100 = VY021316.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	RRF	% RSD
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y022525S.M
 Title : SW846 8260
 Last Update : Wed Feb 26 02:09:13 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY021309.D 10 =VY021310.D 20 =VY021311.D 50 =VY021312.D 100 =VY021316.D 150 =VY021314.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.510	0.484	0.431	0.493	0.447	0.480	0.474	6.16
3) P	Chloromethane	0.709	0.628	0.566	0.602	0.570	0.597	0.612	8.61
4) C	Vinyl Chloride	0.648	0.591	0.554	0.627	0.580	0.606	0.601	5.60#
5) T	Bromomethane	0.505	0.414	0.361	0.387	0.359	0.371	0.399	13.92
6) T	Chloroethane	0.414	0.365	0.347	0.390	0.355	0.365	0.373	6.66
7) T	Trichlorofluor...	0.976	0.915	0.838	0.936	0.870	0.909	0.908	5.33
8) T	Diethyl Ether	0.276	0.264	0.260	0.286	0.263	0.286	0.272	4.34
9) T	1,1,2-Trichlor...	0.546	0.529	0.491	0.537	0.508	0.541	0.525	4.09
10) T	Methyl Iodide	0.492	0.473	0.490	0.637	0.600	0.625	0.553	13.64
11) T	Tert butyl alc...	0.058	0.047	0.042	0.040	0.034	0.039	0.044	18.88
12) CM	1,1-Dichloroet...	0.545	0.489	0.462	0.515	0.490	0.518	0.503	5.75#
13) T	Acrolein	0.065	0.058	0.059	0.007	0.006	0.006	0.033	89.20
14) T	Allyl chloride	0.929	0.847	0.821	0.926	0.889	0.938	0.892	5.42
15) T	Acrylonitrile	0.122	0.115	0.116	0.127	0.115	0.127	0.120	5.01
16) T	Acetone	0.122	0.102	0.094	0.128	0.103	0.104	0.109	11.92
17) T	Carbon Disulfide	1.800	1.652	1.540	1.734	1.620	1.678	1.671	5.41
18) T	Methyl Acetate	0.285	0.249	0.259	0.276	0.250	0.276	0.266	5.65
19) T	Methyl tert-bu...	1.312	1.268	1.267	1.410	1.307	1.410	1.329	4.93
20) T	Methylene Chlo...	0.733	0.598	0.539	0.585	0.529	0.547	0.588	12.84
21) T	trans-1,2-Dich...	0.589	0.536	0.507	0.573	0.547	0.570	0.554	5.36
22) T	Diisopropyl ether	1.839	1.794	1.752	1.961	1.828	1.900	1.846	4.06
23) T	Vinyl Acetate	1.062	1.041	1.045	1.188	1.103	1.179	1.103	6.00
24) P	1,1-Dichloroet...	1.101	1.032	0.961	1.083	1.007	1.058	1.040	4.94
25) T	2-Butanone	0.162	0.155	0.156	0.183	0.159	0.171	0.164	6.53
26) T	2,2-Dichloropr...	1.036	0.939	0.845	0.972	0.920	0.952	0.944	6.64
27) T	cis-1,2-Dichlo...	0.649	0.610	0.588	0.665	0.626	0.656	0.632	4.68
28) T	Bromochloromet...	0.525	0.442	0.438	0.454	0.439	0.464	0.460	7.23
29) T	Tetrahydrofuran	0.105	0.100	0.106	0.115	0.104	0.114	0.107	5.36
30) C	Chloroform	1.128	1.046	0.977	1.095	1.017	1.062	1.054	5.11#
31) T	Cyclohexane	1.182	1.025	0.910	0.989	0.923	0.971	1.000	9.90
32) T	1,1,1-Trichlor...	1.020	0.956	0.889	0.986	0.927	0.979	0.960	4.81
33) S	1,2-Dichloroet...	0.681	0.510	0.548	0.551	0.547	0.566	0.567	10.35
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.370	0.299	0.317	0.325	0.322	0.334	0.328	7.20
36) T	1,1-Dichloropr...	0.508	0.487	0.460	0.516	0.478	0.505	0.492	4.28
37) T	Ethyl Acetate	0.251	0.246	0.232	0.257	0.228	0.255	0.245	5.02
38) T	Carbon Tetrach...	0.567	0.562	0.509	0.581	0.535	0.567	0.554	4.80
39) T	Methylcyclohexane	0.597	0.613	0.584	0.662	0.618	0.663	0.623	5.33
40) TM	Benzene	1.515	1.445	1.359	1.533	1.409	1.472	1.456	4.48
41) T	Methacrylonitrile	0.162	0.118	0.120	0.147	0.129	0.146	0.137	12.55
42) TM	1,2-Dichloroet...	0.422	0.417	0.393	0.434	0.394	0.419	0.413	3.91
43) T	Isopropyl Acetate	0.443	0.447	0.464	0.513	0.466	0.511	0.474	6.49
44) TM	Trichloroethene	0.375	0.360	0.341	0.382	0.354	0.375	0.364	4.29
45) C	1,2-Dichloropr...	0.360	0.350	0.329	0.371	0.336	0.357	0.350	4.49#
46) T	Dibromomethane	0.192	0.188	0.183	0.203	0.184	0.199	0.191	4.22
47) T	Bromodichlorom...	0.519	0.503	0.477	0.541	0.495	0.528	0.511	4.54
48) T	Methyl methacr...	0.197	0.201	0.208	0.247	0.225	0.251	0.222	10.59
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.15
50) S	Toluene-d8	1.420	1.158	1.230	1.251	1.253	1.290	1.267	6.83
51) T	4-Methyl-2-Pen...	0.220	0.227	0.239	0.267	0.238	0.264	0.243	7.94
52) CM	Toluene	0.887	0.888	0.852	0.965	0.897	0.936	0.904	4.42#
53) T	t-1,3-Dichloro...	0.438	0.436	0.434	0.515	0.474	0.509	0.468	8.02
54) T	cis-1,3-Dichlo...	0.541	0.526	0.528	0.591	0.546	0.581	0.552	4.97
55) T	1,1,2-Trichlor...	0.250	0.251	0.238	0.267	0.237	0.254	0.249	4.42
56) T	Ethyl methacry...	0.294	0.308	0.315	0.392	0.360	0.398	0.345	13.04

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y022525S.M

57)	T	1,3-Dichloropr...	0.427	0.428	0.422	0.469	0.426	0.454	0.438	4.39
58)	T	2-Chloroethyl ...	0.140	0.146	0.159	0.191	0.177	0.179	0.165	12.21
59)	T	2-Hexanone	0.133	0.146	0.155	0.183	0.162	0.178	0.159	11.90
60)	T	Dibromochlorom...	0.340	0.325	0.322	0.368	0.332	0.352	0.340	5.17
61)	T	1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.227	0.245	0.236	4.72
62)	S	4-Bromofluorob...	0.490	0.387	0.404	0.423	0.420	0.435	0.426	8.25
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.405	0.380	0.351	0.389	0.355	0.386	0.378	5.52
65)	PM	Chlorobenzene	1.171	1.111	1.039	1.176	1.078	1.159	1.122	4.97
66)	T	1,1,1,2-Tetrac...	0.396	0.401	0.362	0.414	0.381	0.404	0.393	4.71
67)	C	Ethyl Benzene	1.938	1.941	1.826	2.130	1.979	2.115	1.988	5.85#
68)	T	m/p-Xylenes	0.735	0.738	0.696	0.802	0.733	0.783	0.748	5.13
69)	T	o-Xylene	0.689	0.675	0.648	0.758	0.694	0.739	0.701	5.86
70)	T	Styrene	1.081	1.128	1.091	1.276	1.159	1.257	1.166	7.15
71)	P	Bromoform	0.221	0.221	0.211	0.246	0.214	0.236	0.225	5.89
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.744	3.605	3.437	3.976	3.783	4.009	3.759	5.80
74)	T	N-amyl acetate	0.818	0.854	0.904	1.060	0.990	1.106	0.955	12.07
75)	P	1,1,2,2-Tetrac...	0.700	0.649	0.621	0.697	0.624	0.689	0.663	5.52
76)	T	1,2,3-Trichlor...	0.517	0.547	0.448	0.523	0.474	0.493	0.500	7.19
77)	T	Bromobenzene	0.919	0.843	0.806	0.908	0.854	0.915	0.874	5.34
78)	T	n-propylbenzene	4.532	4.403	4.216	4.830	4.546	4.842	4.561	5.34
79)	T	2-Chlorotoluene	2.741	2.558	2.412	2.715	2.551	2.730	2.618	5.05
80)	T	1,3,5-Trimethy...	3.092	2.977	2.873	3.250	3.042	3.264	3.083	4.99
81)	T	trans-1,4-Dich...	0.210	0.209	0.208	0.244	0.225	0.255	0.225	8.86
82)	T	4-Chlorotoluene	2.871	2.665	2.496	2.815	2.633	2.802	2.714	5.19
83)	T	tert-Butylbenzene	2.703	2.753	2.601	2.892	2.760	3.000	2.785	5.08
84)	T	1,2,4-Trimethy...	3.014	2.958	2.860	3.248	3.048	3.269	3.066	5.28
85)	T	sec-Butylbenzene	4.126	4.003	3.760	4.257	3.987	4.274	4.068	4.75
86)	T	p-Isopropyltol...	3.340	3.267	3.162	3.593	3.377	3.641	3.397	5.48
87)	T	1,3-Dichlorobe...	1.812	1.729	1.598	1.792	1.668	1.777	1.730	4.77
88)	T	1,4-Dichlorobe...	1.825	1.710	1.593	1.751	1.629	1.744	1.709	4.99
89)	T	n-Butylbenzene	3.078	3.050	2.931	3.421	3.218	3.481	3.196	6.82
90)	T	Hexachloroethane	0.759	0.690	0.638	0.721	0.693	0.755	0.710	6.43
91)	T	1,2-Dichlorobe...	1.599	1.499	1.408	1.575	1.446	1.564	1.515	5.09
92)	T	1,2-Dibromo-3-...	0.103	0.097	0.099	0.113	0.102	0.115	0.105	7.23
93)	T	1,2,4-Trichlor...	0.906	0.848	0.822	0.968	0.950	1.053	0.925	9.16
94)	T	Hexachlorobuta...	0.633	0.573	0.517	0.591	0.563	0.616	0.582	7.04
95)	T	Naphthalene	1.249	1.282	1.361	1.721	1.673	1.905	1.532	17.67
96)	T	1,2,3-Trichlor...	0.742	0.719	0.698	0.824	0.809	0.896	0.781	9.62

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021309.D
 Acq On : 25 Feb 2025 12:40
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:42:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	177514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	289913	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	247837	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	118690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12088	6.003	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	12.000%	#	
35) Dibromofluoromethane	7.634	113	10715	5.637	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.280%	#	
50) Toluene-d8	10.103	98	41158	5.603	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	11.200%	#	
62) 4-Bromofluorobenzene	12.408	95	14192	5.741	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	11.480%	#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	9045	5.374	ug/l	99
3) Chloromethane	2.068	50	12591	5.793	ug/l	97
4) Vinyl Chloride	2.202	62	11497	5.389	ug/l	93
5) Bromomethane	2.598	94	8962	6.321	ug/l	99
6) Chloroethane	2.733	64	7351	5.556	ug/l	99
7) Trichlorofluoromethane	3.056	101	17319	5.375	ug/l #	83
8) Diethyl Ether	3.458	74	4897	5.064	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.806	101	9686	5.193	ug/l	96
10) Methyl Iodide	4.001	142	8728	4.447	ug/l	99
11) Tert butyl alcohol	4.848	59	5165	33.345	ug/l #	84
12) 1,1-Dichloroethene	3.787	96	9671	5.415	ug/l	90
13) Acrolein	3.647	56	5798	48.848	ug/l	99
14) Allyl chloride	4.379	41	16498	5.210	ug/l	99
15) Acrylonitrile	5.055	53	10830	25.330	ug/l	98
16) Acetone	3.866	43	10823	28.018	ug/l	99
17) Carbon Disulfide	4.104	76	31953	5.387	ug/l	99
18) Methyl Acetate	4.391	43	5062	5.362	ug/l #	54
19) Methyl tert-butyl Ether	5.110	73	23290	4.935	ug/l	100
20) Methylene Chloride	4.610	84	13003	6.225	ug/l	93
21) trans-1,2-Dichloroethene	5.110	96	10455	5.317	ug/l	98
22) Diisopropyl ether	6.012	45	32640	4.981	ug/l #	86
23) Vinyl Acetate	5.958	43	94244	24.067	ug/l	99
24) 1,1-Dichloroethane	5.915	63	19538	5.290	ug/l	98
25) 2-Butanone	6.890	43	14341	24.599	ug/l #	88
26) 2,2-Dichloropropane	6.884	77	18391	5.488	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	11522	5.132	ug/l	97
28) Bromochloromethane	7.244	49	9318	5.702	ug/l	99
29) Tetrahydrofuran	7.262	42	9319	24.455	ug/l	99
30) Chloroform	7.421	83	20025	5.351	ug/l	98
31) Cyclohexane	7.701	56	20990	5.912	ug/l #	86
32) 1,1,1-Trichloroethane	7.616	97	18106	5.315	ug/l	98
36) 1,1-Dichloropropene	7.829	75	14719	5.155	ug/l	98
37) Ethyl Acetate	6.982	43	7270	5.119	ug/l	98
38) Carbon Tetrachloride	7.817	117	16445	5.124	ug/l	92
39) Methylcyclohexane	9.103	83	17316	4.795	ug/l	95
40) Benzene	8.079	78	43912	5.203	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021309.D
 Acq On : 25 Feb 2025 12:40
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:42:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.238	41	4691m	5.908	ug/l	
42) 1,2-Dichloroethane	8.158	62	12236	5.110	ug/l	99
43) Isopropyl Acetate	8.195	43	12832	4.668	ug/l	99
44) Trichloroethene	8.859	130	10868	5.143	ug/l	100
45) 1,2-Dichloropropane	9.140	63	10426	5.133	ug/l	95
46) Dibromomethane	9.231	93	5557	5.005	ug/l	100
47) Bromodichloromethane	9.420	83	15042	5.081	ug/l	100
48) Methyl methacrylate	9.219	41	5698	4.433	ug/l	95
49) 1,4-Dioxane	9.231	88	1164	94.292	ug/l	94
51) 4-Methyl-2-Pentanone	10.000	43	31910	22.677	ug/l	100
52) Toluene	10.170	92	25715	4.905	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	12697	4.682	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	15685	4.899	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	7259	5.019	ug/l	96
56) Ethyl methacrylate	10.438	69	8528	4.267	ug/l	99
57) 1,3-Dichloropropane	10.713	76	12384	4.880	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	20290	21.153	ug/l	98
59) 2-Hexanone	10.762	43	19312	20.897	ug/l	97
60) Dibromochloromethane	10.914	129	9844	4.998	ug/l	97
61) 1,2-Dibromoethane	11.018	107	6792	4.960	ug/l	98
64) Tetrachloroethene	10.646	164	10042	5.361	ug/l	96
65) Chlorobenzene	11.444	112	29025	5.217	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.518	131	9824	5.043	ug/l	99
67) Ethyl Benzene	11.518	91	48026	4.874	ug/l	97
68) m/p-Xylenes	11.627	106	36446	9.833	ug/l	100
69) o-Xylene	11.956	106	17085	4.920	ug/l	97
70) Styrene	11.969	104	26787	4.637	ug/l	99
71) Bromoform	12.133	173	5478	4.916	ug/l #	99
73) Isopropylbenzene	12.255	105	44434	4.980	ug/l	99
74) N-amyl acetate	12.072	43	9713	4.283	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	8309	5.276	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	6139m	5.136	ug/l	
77) Bromobenzene	12.536	156	10911	5.257	ug/l	99
78) n-propylbenzene	12.597	91	53794	4.968	ug/l	100
79) 2-Chlorotoluene	12.682	91	32529	5.235	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	36696	5.014	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	2493	4.664	ug/l	97
82) 4-Chlorotoluene	12.780	91	34079	5.290	ug/l	99
83) tert-Butylbenzene	12.999	119	32078	4.852	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	35772	4.915	ug/l	100
85) sec-Butylbenzene	13.176	105	48977	5.072	ug/l	100
86) p-Isopropyltoluene	13.292	119	39637	4.916	ug/l	98
87) 1,3-Dichlorobenzene	13.292	146	21510	5.239	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	21663	5.341	ug/l	95
89) n-Butylbenzene	13.621	91	36537	4.815	ug/l	100
90) Hexachloroethane	13.883	117	9013	5.351	ug/l	97
91) 1,2-Dichlorobenzene	13.664	146	18984	5.278	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	1227	4.925	ug/l	97
93) 1,2,4-Trichlorobenzene	14.925	180	10759	4.901	ug/l	98
94) Hexachlorobutadiene	15.029	225	7510	5.434	ug/l	95
95) Naphthalene	15.145	128	14829	4.078	ug/l	97
96) 1,2,3-Trichlorobenzene	15.334	180	8804	4.746	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021309.D
Acq On : 25 Feb 2025 12:40
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:42:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration

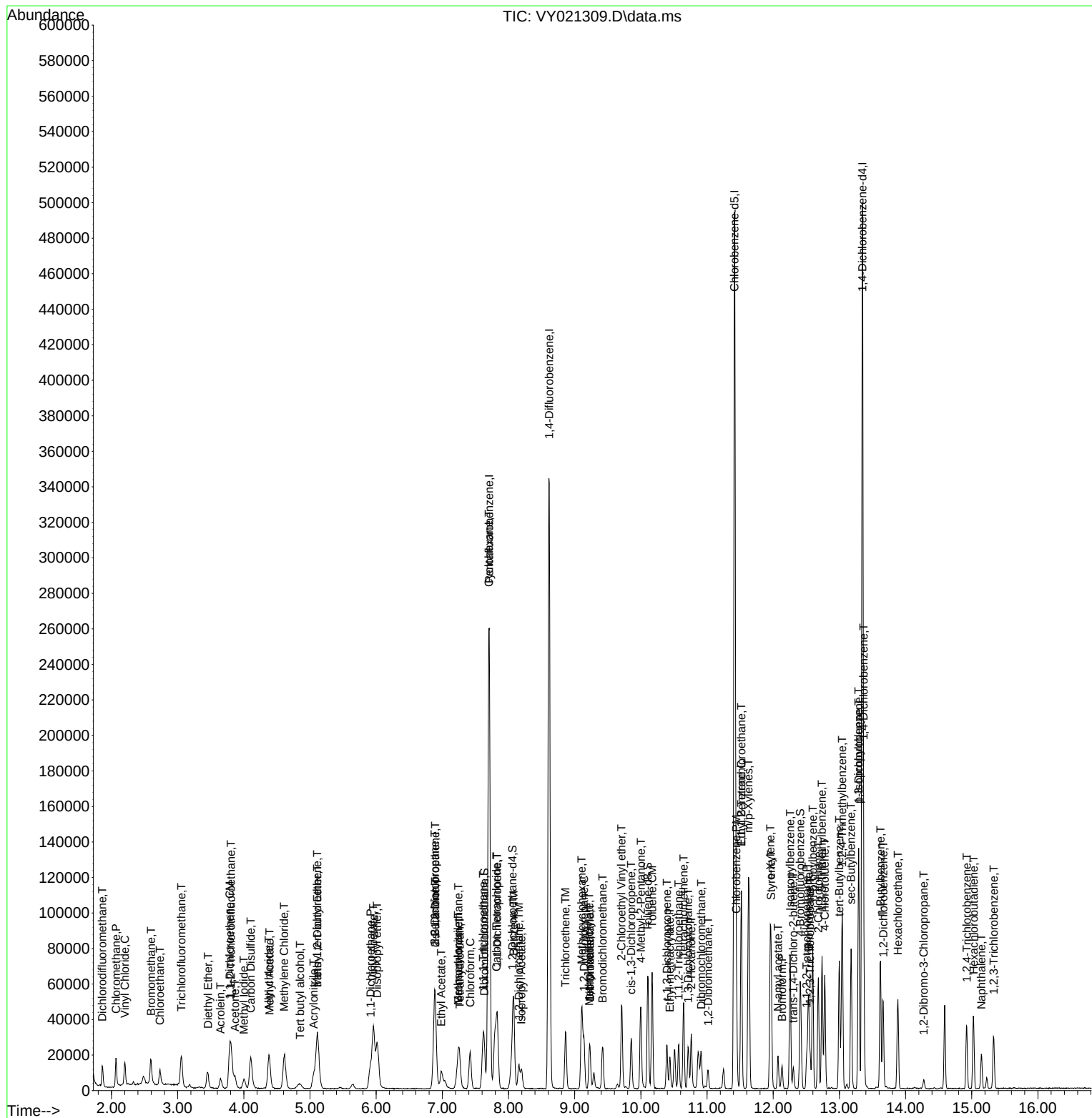
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021310.D
 Acq On : 25 Feb 2025 13:03
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:43:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	185658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	289178	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	250629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	125138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	18938	8.992	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	17.980%#		
35) Dibromofluoromethane	7.634	113	17267	9.108	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	18.220%#		
50) Toluene-d8	10.103	98	66979	9.141	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	18.280%#		
62) 4-Bromofluorobenzene	12.408	95	22364	9.069	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	18.140%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	17969	10.208	ug/l	99
3) Chloromethane	2.068	50	23321	10.259	ug/l	96
4) Vinyl Chloride	2.202	62	21933	9.830	ug/l	99
5) Bromomethane	2.592	94	15371	10.366	ug/l	92
6) Chloroethane	2.732	64	13561	9.801	ug/l	96
7) Trichlorofluoromethane	3.056	101	33977	10.083	ug/l	96
8) Diethyl Ether	3.452	74	9792	9.682	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	19660	10.077	ug/l	99
10) Methyl Iodide	4.001	142	17573	8.562	ug/l	99
11) Tert butyl alcohol	4.854	59	8754	54.037	ug/l #	81
12) 1,1-Dichloroethene	3.793	96	18141	9.711	ug/l	87
13) Acrolein	3.647	56	10715	86.313	ug/l	97
14) Allyl chloride	4.385	41	31462	9.499	ug/l	98
15) Acrylonitrile	5.061	53	21273	47.572	ug/l	98
16) Acetone	3.866	43	19023	47.086	ug/l	92
17) Carbon Disulfide	4.104	76	61336	9.888	ug/l	100
18) Methyl Acetate	4.379	43	9259	9.378	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	47090	9.541	ug/l	98
20) Methylene Chloride	4.610	84	22192	10.158	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	19921	9.687	ug/l	94
22) Diisopropyl ether	6.012	45	66598	9.717	ug/l	93
23) Vinyl Acetate	5.957	43	193291	47.195	ug/l	99
24) 1,1-Dichloroethane	5.909	63	38311	9.918	ug/l	98
25) 2-Butanone	6.896	43	28711	47.087	ug/l	99
26) 2,2-Dichloropropane	6.884	77	34859	9.945	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	22663	9.651	ug/l	99
28) Bromochloromethane	7.244	49	16417	9.605	ug/l	100
29) Tetrahydrofuran	7.262	42	18625	46.731	ug/l	99
30) Chloroform	7.415	83	38838	9.922	ug/l	97
31) Cyclohexane	7.701	56	38072	10.253	ug/l #	88
32) 1,1,1-Trichloroethane	7.616	97	35489	9.961	ug/l	99
36) 1,1-Dichloropropene	7.829	75	28171	9.892	ug/l	99
37) Ethyl Acetate	6.982	43	14219	10.038	ug/l	98
38) Carbon Tetrachloride	7.811	117	32494	10.149	ug/l	96
39) Methylcyclohexane	9.103	83	35431	9.837	ug/l	95
40) Benzene	8.079	78	83594	9.930	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021310.D
 Acq On : 25 Feb 2025 13:03
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:43:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	6845	8.642	ug/l	92
42) 1,2-Dichloroethane	8.158	62	24091	10.087	ug/l	99
43) Isopropyl Acetate	8.195	43	25874	9.436	ug/l	99
44) Trichloroethene	8.859	130	20823	9.880	ug/l	97
45) 1,2-Dichloropropane	9.140	63	20214	9.978	ug/l	98
46) Dibromomethane	9.231	93	10902	9.845	ug/l	99
47) Bromodichloromethane	9.420	83	29114	9.860	ug/l	97
48) Methyl methacrylate	9.219	41	11652	9.088	ug/l	96
49) 1,4-Dioxane	9.225	88	2309	187.520	ug/l	96
51) 4-Methyl-2-Pentanone	9.993	43	65698	46.808	ug/l	99
52) Toluene	10.170	92	51371	9.823	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	25218	9.322	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	30428	9.528	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	14509	10.057	ug/l	96
56) Ethyl methacrylate	10.438	69	17817	8.938	ug/l	96
57) 1,3-Dichloropropane	10.713	76	24769	9.784	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	42304	44.215	ug/l	100
59) 2-Hexanone	10.755	43	42123	45.697	ug/l	99
60) Dibromochloromethane	10.908	129	18793	9.565	ug/l	96
61) 1,2-Dibromoethane	11.011	107	13351	9.775	ug/l	98
64) Tetrachloroethene	10.646	164	19065	10.064	ug/l	97
65) Chlorobenzene	11.438	112	55689	9.899	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	20089	10.198	ug/l	98
67) Ethyl Benzene	11.517	91	97299	9.764	ug/l	99
68) m/p-Xylenes	11.627	106	73991	19.740	ug/l	99
69) o-Xylene	11.950	106	33822	9.632	ug/l	99
70) Styrene	11.969	104	56550	9.679	ug/l	99
71) Bromoform	12.133	173	11067	9.820	ug/l #	100
73) Isopropylbenzene	12.255	105	90221	9.590	ug/l	100
74) N-amyl acetate	12.066	43	21370	8.937	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	16246	9.785	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	13699m	10.871	ug/l	
77) Bromobenzene	12.529	156	21097	9.641	ug/l	99
78) n-propylbenzene	12.597	91	110190	9.652	ug/l	99
79) 2-Chlorotoluene	12.682	91	64018	9.771	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	74498	9.655	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	5238	9.295	ug/l	96
82) 4-Chlorotoluene	12.773	91	66701	9.821	ug/l	100
83) tert-Butylbenzene	12.999	119	68905	9.886	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	74032	9.647	ug/l	99
85) sec-Butylbenzene	13.176	105	100189	9.841	ug/l	99
86) p-Isopropyltoluene	13.292	119	81769	9.619	ug/l	98
87) 1,3-Dichlorobenzene	13.285	146	43267	9.996	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	42788	10.006	ug/l	98
89) n-Butylbenzene	13.615	91	76325	9.541	ug/l	99
90) Hexachloroethane	13.877	117	17261	9.721	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	37522	9.894	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2424	9.229	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	21234	9.174	ug/l	97
94) Hexachlorobutadiene	15.023	225	14346	9.845	ug/l	99
95) Naphthalene	15.145	128	32094	8.371	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	17983	9.195	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021310.D
Acq On : 25 Feb 2025 13:03
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:43:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 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\VY022525\
 Data File : VY021310.D
 Acq On : 25 Feb 2025 13:03
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

Client Sample Id :

VSTDIC010

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025

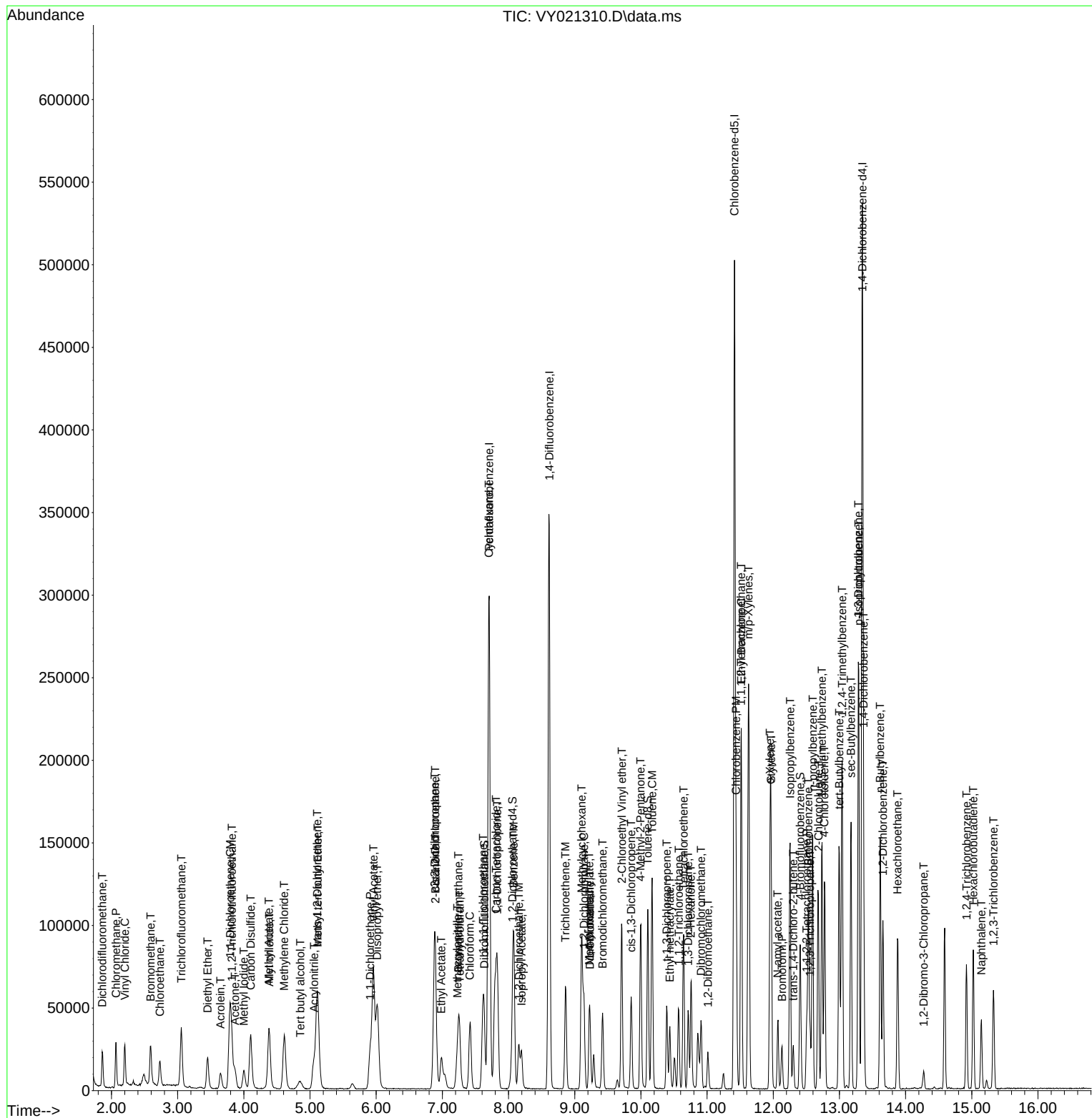
Quant Time: Feb 26 01:43:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M

Quant Title : SW846 8260

QLast Update : Wed Feb 26 01:41:21 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021311.D
 Acq On : 25 Feb 2025 13:26
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:44:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	188363	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	293434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	258896	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	130546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	41320	19.337	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	38.680%#		
35) Dibromofluoromethane	7.634	113	37265	19.371	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	38.740%#		
50) Toluene-d8	10.103	98	144409	19.423	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.840%#		
62) 4-Bromofluorobenzene	12.408	95	47417	18.950	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	37.900%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	32511	18.204	ug/l	96
3) Chloromethane	2.068	50	42633	18.484	ug/l	97
4) Vinyl Chloride	2.202	62	41719	18.429	ug/l	100
5) Bromomethane	2.586	94	27198	18.079	ug/l	98
6) Chloroethane	2.726	64	26161	18.635	ug/l	99
7) Trichlorofluoromethane	3.056	101	63170	18.477	ug/l	95
8) Diethyl Ether	3.452	74	19564	19.066	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	37017	18.701	ug/l	99
10) Methyl Iodide	4.001	142	36945	17.741	ug/l	99
11) Tert butyl alcohol	4.860	59	15935	96.952	ug/l	96
12) 1,1-Dichloroethene	3.787	96	34827	18.376	ug/l	98
13) Acrolein	3.647	56	22079	175.300	ug/l	100
14) Allyl chloride	4.379	41	61887	18.417	ug/l	98
15) Acrylonitrile	5.061	53	43763	96.460	ug/l	99
16) Acetone	3.866	43	35506	86.623	ug/l	96
17) Carbon Disulfide	4.104	76	116030	18.437	ug/l	99
18) Methyl Acetate	4.379	43	19534	19.500	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	95488	19.069	ug/l	97
20) Methylene Chloride	4.616	84	40630	18.331	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	38218	18.317	ug/l	98
22) Diisopropyl ether	6.019	45	132039	18.989	ug/l	97
23) Vinyl Acetate	5.958	43	393629	94.730	ug/l	99
24) 1,1-Dichloroethane	5.909	63	72428	18.480	ug/l	99
25) 2-Butanone	6.890	43	58941	95.278	ug/l	98
26) 2,2-Dichloropropane	6.884	77	63686	17.908	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	44297	18.592	ug/l	98
28) Bromochloromethane	7.244	49	32987	19.022	ug/l	99
29) Tetrahydrofuran	7.256	42	39775	98.365	ug/l	98
30) Chloroform	7.421	83	73639	18.543	ug/l	96
31) Cyclohexane	7.701	56	68531	18.191	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	67011	18.538	ug/l	98
36) 1,1-Dichloropropene	7.835	75	53995	18.685	ug/l	100
37) Ethyl Acetate	6.982	43	27188	18.914	ug/l	98
38) Carbon Tetrachloride	7.817	117	59733	18.387	ug/l	98
39) Methylcyclohexane	9.103	83	68516	18.746	ug/l	98
40) Benzene	8.079	78	159536	18.676	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021311.D
 Acq On : 25 Feb 2025 13:26
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:44:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	14108	17.554	ug/l	92
42) 1,2-Dichloroethane	8.152	62	46152	19.043	ug/l	99
43) Isopropyl Acetate	8.195	43	54484	19.583	ug/l	98
44) Trichloroethene	8.866	130	40005	18.706	ug/l	93
45) 1,2-Dichloropropane	9.140	63	38611	18.782	ug/l	100
46) Dibromomethane	9.231	93	21421	19.063	ug/l	99
47) Bromodichloromethane	9.420	83	56033	18.701	ug/l	98
48) Methyl methacrylate	9.219	41	24461	18.801	ug/l	97
49) 1,4-Dioxane	9.225	88	5308	424.825	ug/l	90
51) 4-Methyl-2-Pentanone	10.000	43	140187	98.430	ug/l	100
52) Toluene	10.170	92	100050	18.854	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	50957	18.563	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	61967	19.122	ug/l	99
55) 1,1,2-Trichloroethane	10.567	97	27942	19.088	ug/l	99
56) Ethyl methacrylate	10.438	69	36997	18.291	ug/l	95
57) 1,3-Dichloropropane	10.713	76	49499	19.270	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	93377	96.179	ug/l	100
59) 2-Hexanone	10.762	43	90882	97.163	ug/l	100
60) Dibromochloromethane	10.908	129	37808	18.964	ug/l	99
61) 1,2-Dibromoethane	11.012	107	26519	19.135	ug/l	99
64) Tetrachloroethene	10.646	164	36387	18.595	ug/l	97
65) Chlorobenzene	11.438	112	107621	18.519	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	37487	18.422	ug/l	99
67) Ethyl Benzene	11.518	91	189052	18.366	ug/l	99
68) m/p-Xylenes	11.627	106	144073	37.210	ug/l	99
69) o-Xylene	11.950	106	67060	18.488	ug/l	100
70) Styrene	11.969	104	113033	18.729	ug/l	99
71) Bromoform	12.133	173	21886	18.800	ug/l #	99
73) Isopropylbenzene	12.255	105	179489	18.288	ug/l	99
74) N-amyl acetate	12.072	43	47224	18.930	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	32419	18.717	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	23402m	17.801	ug/l	
77) Bromobenzene	12.530	156	42078	18.433	ug/l	99
78) n-propylbenzene	12.597	91	220158	18.486	ug/l	100
79) 2-Chlorotoluene	12.676	91	125969	18.430	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	150004	18.635	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	10866	18.483	ug/l	99
82) 4-Chlorotoluene	12.780	91	130335	18.396	ug/l	100
83) tert-Butylbenzene	12.999	119	135829	18.681	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	149358	18.657	ug/l	99
85) sec-Butylbenzene	13.176	105	196335	18.486	ug/l	100
86) p-Isopropyltoluene	13.292	119	165127	18.620	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	83463	18.483	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	83179	18.646	ug/l	99
89) n-Butylbenzene	13.615	91	153032	18.337	ug/l	100
90) Hexachloroethane	13.877	117	33341	17.998	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	73513	18.581	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5181	18.908	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	42908	17.770	ug/l	99
94) Hexachlorobutadiene	15.023	225	27015	17.771	ug/l	99
95) Naphthalene	15.145	128	71044	17.763	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	36460	17.871	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021311.D
Acq On : 25 Feb 2025 13:26
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:44:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration

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

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

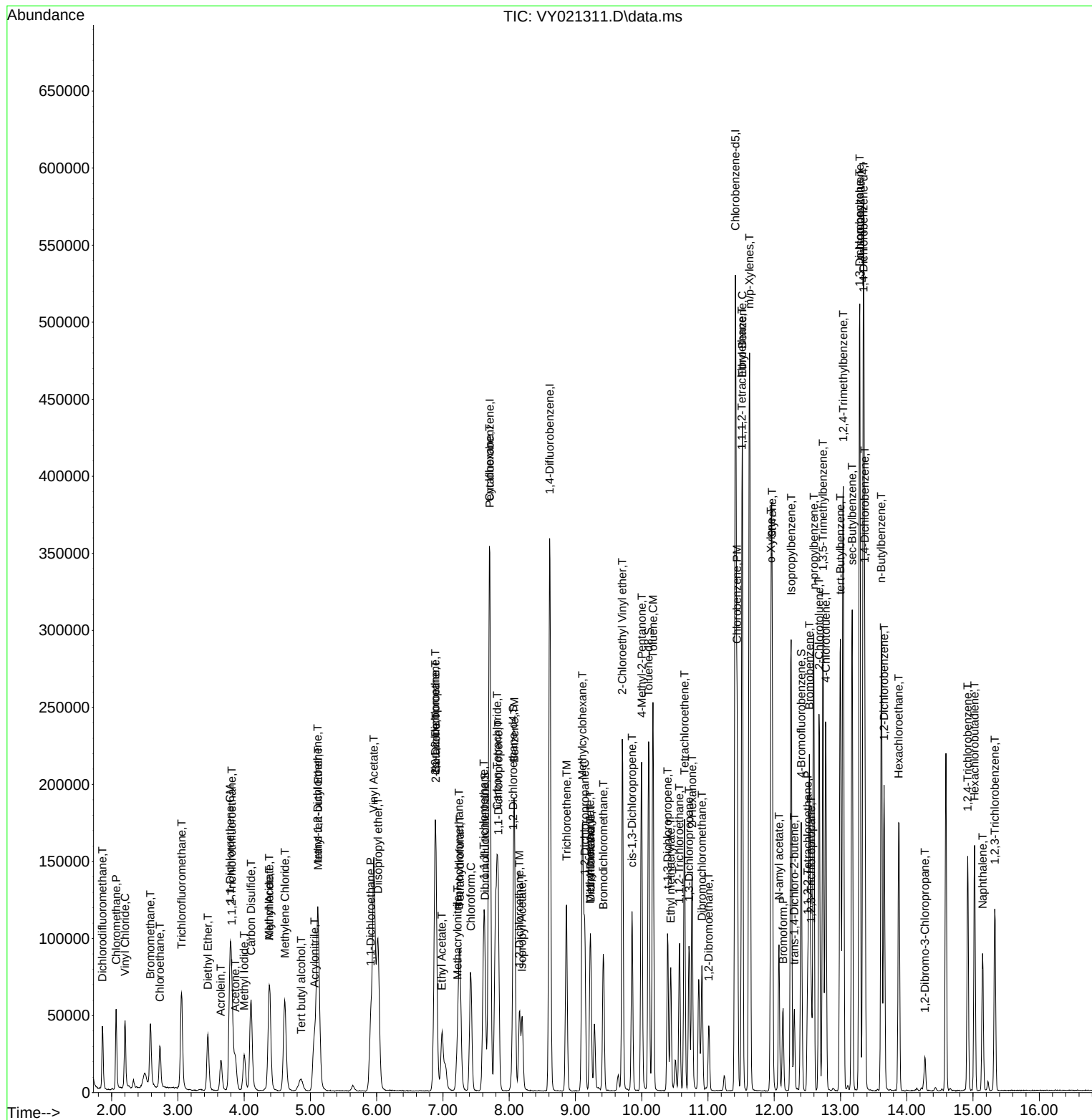
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021311.D
Acq On : 25 Feb 2025 13:26
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:44:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021312.D
 Acq On : 25 Feb 2025 14:48
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:45:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	175365	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	272563	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	239724	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	121718	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96694	48.606	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.220%		
35) Dibromofluoromethane	7.634	113	88513	49.533	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.060%		
50) Toluene-d8	10.103	98	340929	49.367	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.740%		
62) 4-Bromofluorobenzene	12.408	95	115401	49.652	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	86387	51.957	ug/l	100
3) Chloromethane	2.068	50	105626	49.191	ug/l	100
4) Vinyl Chloride	2.202	62	109961	52.173	ug/l	100
5) Bromomethane	2.592	94	67780	48.395	ug/l	100
6) Chloroethane	2.732	64	68323	52.276	ug/l	100
7) Trichlorofluoromethane	3.056	101	164215	51.592	ug/l	100
8) Diethyl Ether	3.452	74	50185	52.532	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	94197	51.116	ug/l	100
10) Methyl Iodide	4.007	142	111673	57.600	ug/l	100
11) Tert butyl alcohol	4.854	59	35300	230.691	ug/l	100
12) 1,1-Dichloroethene	3.787	96	90388	51.226	ug/l	100
13) Acrolein	3.647	56	5860	49.975	ug/l	100
14) Allyl chloride	4.385	41	162419	51.918	ug/l	100
15) Acrylonitrile	5.055	53	111677	264.397	ug/l	100
16) Acetone	3.866	43	111923	293.294	ug/l	100
17) Carbon Disulfide	4.104	76	304042	51.892	ug/l	100
18) Methyl Acetate	4.385	43	48368	51.864	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	247280	53.043	ug/l	100
20) Methylene Chloride	4.610	84	102592	49.716	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	100568	51.774	ug/l	100
22) Diisopropyl ether	6.012	45	343920	53.126	ug/l	100
23) Vinyl Acetate	5.957	43	1041767	269.294	ug/l	100
24) 1,1-Dichloroethane	5.915	63	189943	52.057	ug/l	100
25) 2-Butanone	6.890	43	160248	278.240	ug/l	100
26) 2,2-Dichloropropane	6.884	77	170469	51.489	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	116627	52.579	ug/l	100
28) Bromochloromethane	7.244	49	79678	49.352	ug/l	100
29) Tetrahydrofuran	7.256	42	100417	266.741	ug/l	100
30) Chloroform	7.421	83	191980	51.925	ug/l	100
31) Cyclohexane	7.701	56	173460	49.456	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	172880	51.372	ug/l	100
36) 1,1-Dichloropropene	7.835	75	140574	52.371	ug/l	100
37) Ethyl Acetate	6.982	43	70184	52.565	ug/l	100
38) Carbon Tetrachloride	7.817	117	158319	52.465	ug/l	100
39) Methylcyclohexane	9.109	83	180496	53.165	ug/l	100
40) Benzene	8.079	78	417798	52.655	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021312.D
 Acq On : 25 Feb 2025 14:48
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:45:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	39965	53.535	ug/l	100
42) 1,2-Dichloroethane	8.158	62	118176	52.494	ug/l	100
43) Isopropyl Acetate	8.195	43	139829	54.106	ug/l	100
44) Trichloroethene	8.865	130	104074	52.389	ug/l	100
45) 1,2-Dichloropropane	9.140	63	101166	52.980	ug/l	100
46) Dibromomethane	9.231	93	55365	53.043	ug/l	100
47) Bromodichloromethane	9.420	83	147382	52.957	ug/l	100
48) Methyl methacrylate	9.219	41	67406	55.775	ug/l	100
49) 1,4-Dioxane	9.231	88	12193	1050.591	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	364446	275.485	ug/l	100
52) Toluene	10.170	92	263062	53.367	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	140399	55.062	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	161021	53.492	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	72720	53.481	ug/l	100
56) Ethyl methacrylate	10.438	69	106914	56.904	ug/l	100
57) 1,3-Dichloropropane	10.719	76	127795	53.559	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	260718	289.104	ug/l	100
59) 2-Hexanone	10.761	43	249578	287.258	ug/l	100
60) Dibromochloromethane	10.908	129	100250	54.134	ug/l	100
61) 1,2-Dibromoethane	11.018	107	69236	53.783	ug/l	100
64) Tetrachloroethene	10.646	164	93317	51.501	ug/l	100
65) Chlorobenzene	11.444	112	281918	52.390	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	99131	52.611	ug/l	100
67) Ethyl Benzene	11.517	91	510639	53.573	ug/l	100
68) m/p-Xylenes	11.627	106	384346	107.204	ug/l	100
69) o-Xylene	11.956	106	181728	54.108	ug/l	100
70) Styrene	11.969	104	306007	54.760	ug/l	100
71) Bromoform	12.133	173	58860	54.605	ug/l	100
73) Isopropylbenzene	12.255	105	483937	52.885	ug/l	100
74) N-amyl acetate	12.072	43	129020	55.471	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	84893	52.566	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	63683m	51.954	ug/l	100
77) Bromobenzene	12.529	156	110538	51.935	ug/l	100
78) n-propylbenzene	12.596	91	587915	52.946	ug/l	100
79) 2-Chlorotoluene	12.682	91	330472	51.857	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	395609	52.712	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	29649	54.090	ug/l	100
82) 4-Chlorotoluene	12.779	91	342611	51.864	ug/l	100
83) tert-Butylbenzene	12.999	119	352055	51.930	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	395315	52.962	ug/l	100
85) sec-Butylbenzene	13.176	105	518094	52.319	ug/l	100
86) p-Isopropyltoluene	13.291	119	437283	52.884	ug/l	100
87) 1,3-Dichlorobenzene	13.291	146	218136	51.811	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	213090	51.233	ug/l	100
89) n-Butylbenzene	13.621	91	416377	53.510	ug/l	100
90) Hexachloroethane	13.883	117	87765	50.814	ug/l	100
91) 1,2-Dichlorobenzene	13.663	146	191758	51.985	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	13782	53.947	ug/l	100
93) 1,2,4-Trichlorobenzene	14.925	180	117882	52.360	ug/l	100
94) Hexachlorobutadiene	15.023	225	71915	50.738	ug/l	100
95) Naphthalene	15.145	128	209478	56.174	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	100312	52.735	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021312.D
Acq On : 25 Feb 2025 14:48
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:45:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration

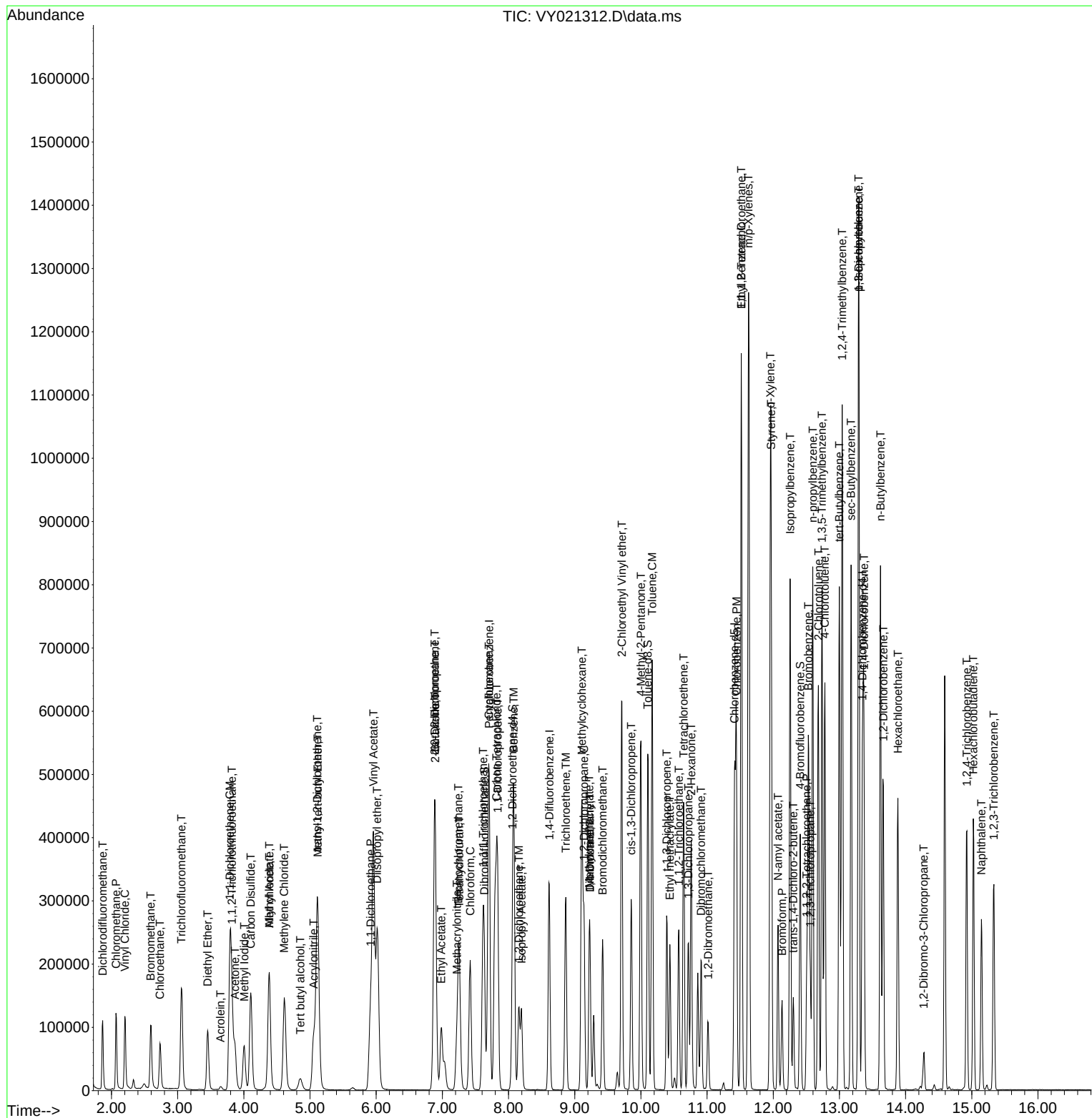
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021314.D
 Acq On : 25 Feb 2025 15:57
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:46:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	180458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	283003	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	248493	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	121558	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	306215	149.582	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 299.160%#			
35) Dibromofluoromethane	7.634	113	283537	152.818	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.640%#			
50) Toluene-d8	10.103	98	1094820	152.682	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 305.360%#			
62) 4-Bromofluorobenzene	12.401	95	369071	152.937	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 305.880%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	259643	151.753	ug/l	99
3) Chloromethane	2.068	50	323414	146.365	ug/l	99
4) Vinyl Chloride	2.202	62	328290	151.368	ug/l	97
5) Bromomethane	2.580	94	200754	139.293	ug/l	100
6) Chloroethane	2.726	64	197463	146.820	ug/l	97
7) Trichlorofluoromethane	3.056	101	492238	150.283	ug/l	98
8) Diethyl Ether	3.452	74	154649	157.312	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	293114	154.570	ug/l	99
10) Methyl Iodide	4.000	142	338246	169.542	ug/l	99
11) Tert butyl alcohol	4.860	59	106628	677.165	ug/l	99
12) 1,1-Dichloroethene	3.787	96	280431	154.445	ug/l	98
13) Acrolein	3.647	56	17213	142.652	ug/l	96
14) Allyl chloride	4.378	41	507854	157.755	ug/l	98
15) Acrylonitrile	5.055	53	344988	793.713	ug/l	99
16) Acetone	3.860	43	280172	713.470	ug/l	97
17) Carbon Disulfide	4.104	76	908476	150.676	ug/l	99
18) Methyl Acetate	4.378	43	149226	155.496	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	763596	159.172	ug/l	100
20) Methylene Chloride	4.610	84	296032	139.409	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	308627	154.401	ug/l	98
22) Diisopropyl ether	6.018	45	1028788	154.433	ug/l	96
23) Vinyl Acetate	5.957	43	3191401	801.685	ug/l	99
24) 1,1-Dichloroethane	5.915	63	572832	152.564	ug/l	98
25) 2-Butanone	6.890	43	462541	780.449	ug/l	97
26) 2,2-Dichloropropane	6.884	77	515178	151.214	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	354979	155.519	ug/l	99
28) Bromochloromethane	7.244	49	251245	151.227	ug/l	99
29) Tetrahydrofuran	7.256	42	309130	797.978	ug/l	99
30) Chloroform	7.421	83	574920	151.112	ug/l	100
31) Cyclohexane	7.695	56	525636	145.637	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	529792	152.986	ug/l	99
36) 1,1-Dichloropropene	7.835	75	429157	153.985	ug/l	100
37) Ethyl Acetate	6.982	43	216920	156.470	ug/l	100
38) Carbon Tetrachloride	7.817	117	481774	153.764	ug/l	99
39) Methylcyclohexane	9.103	83	563132	159.752	ug/l	97
40) Benzene	8.079	78	1249573	151.673	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021314.D
 Acq On : 25 Feb 2025 15:57
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:46:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	123663	159.542	ug/l	95
42) 1,2-Dichloroethane	8.152	62	355374	152.036	ug/l	99
43) Isopropyl Acetate	8.195	43	433742	161.641	ug/l	98
44) Trichloroethene	8.865	130	318590	154.457	ug/l	99
45) 1,2-Dichloropropane	9.140	63	302967	152.809	ug/l	99
46) Dibromomethane	9.231	93	168654	155.620	ug/l	99
47) Bromodichloromethane	9.420	83	448398	155.172	ug/l	99
48) Methyl methacrylate	9.219	41	213222	169.923	ug/l	100
49) 1,4-Dioxane	9.225	88	38142	3165.209	ug/l	93
51) 4-Methyl-2-Pentanone	9.993	43	1121500	816.471	ug/l	100
52) Toluene	10.170	92	794485	155.232	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	432560	163.384	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	493601	157.928	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	215312	152.506	ug/l	98
56) Ethyl methacrylate	10.438	69	337816	173.168	ug/l	99
57) 1,3-Dichloropropane	10.713	76	385803	155.726	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	761125	812.859	ug/l	100
59) 2-Hexanone	10.755	43	754575	836.458	ug/l	98
60) Dibromochloromethane	10.908	129	299188	155.598	ug/l	99
61) 1,2-Dibromoethane	11.011	107	208046	155.651	ug/l	99
64) Tetrachloroethene	10.646	164	288026	153.351	ug/l	98
65) Chlorobenzene	11.438	112	863676	154.837	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.511	131	301244	154.234	ug/l	100
67) Ethyl Benzene	11.517	91	1576743	159.586	ug/l	100
68) m/p-Xylenes	11.627	106	1167839	314.246	ug/l	100
69) o-Xylene	11.950	106	550972	158.258	ug/l	99
70) Styrene	11.969	104	936967	161.754	ug/l	100
71) Bromoform	12.133	173	175918	157.441	ug/l #	99
73) Isopropylbenzene	12.255	105	1461905	159.969	ug/l	99
74) N-amyl acetate	12.066	43	403238	173.596	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	251216	155.759	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	179622m	146.733	ug/l	
77) Bromobenzene	12.529	156	333772	157.025	ug/l	99
78) n-propylbenzene	12.597	91	1765636	159.217	ug/l	100
79) 2-Chlorotoluene	12.682	91	995452	156.411	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1190462	158.830	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	92910	169.722	ug/l	98
82) 4-Chlorotoluene	12.779	91	1021811	154.883	ug/l	100
83) tert-Butylbenzene	12.999	119	1094125	161.602	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1192062	159.915	ug/l	99
85) sec-Butylbenzene	13.176	105	1558540	157.594	ug/l	100
86) p-Isopropyltoluene	13.291	119	1327819	160.795	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	648204	154.161	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	635981	153.109	ug/l	100
89) n-Butylbenzene	13.615	91	1269399	163.350	ug/l	99
90) Hexachloroethane	13.877	117	275368	159.641	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	570360	154.826	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	42060	164.851	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	384163	170.860	ug/l	99
94) Hexachlorobutadiene	15.023	225	224602	158.670	ug/l	99
95) Naphthalene	15.145	128	694625	186.517	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	326876	172.067	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021314.D
Acq On : 25 Feb 2025 15:57
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:46:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration

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

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

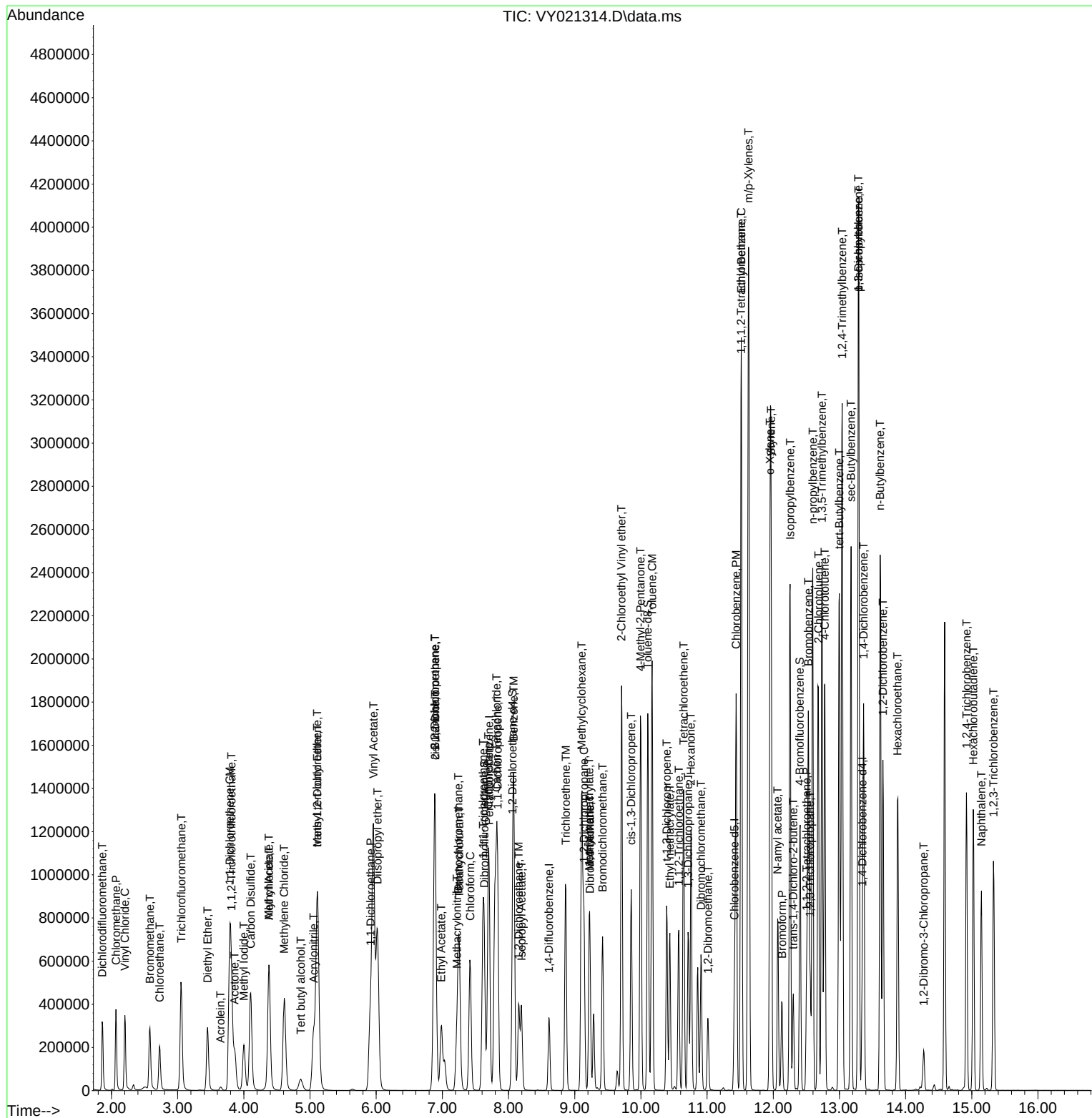
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021314.D
 Acq On : 25 Feb 2025 15:57
 Operator : SY/MD
 Sample : VSTDIC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC150

Quant Time: Feb 26 01:46:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021316.D
 Acq On : 25 Feb 2025 16:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 26 01:47:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	190677	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	300486	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	267150	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	208535	96.407	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 192.820%#			
35) Dibromofluoromethane	7.634	113	193803	98.377	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 196.760%#			
50) Toluene-d8	10.103	98	752895	98.889	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 197.780%#			
62) 4-Bromofluorobenzene	12.408	95	252327	98.477	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 196.960%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.861	85	170537	94.332	ug/l	97
3) Chloromethane	2.068	50	217555	93.180	ug/l	99
4) Vinyl Chloride	2.202	62	221196	96.523	ug/l	97
5) Bromomethane	2.592	94	136840	89.858	ug/l	100
6) Chloroethane	2.732	64	135372	95.259	ug/l	99
7) Trichlorofluoromethane	3.056	101	331928	95.909	ug/l	95
8) Diethyl Ether	3.452	74	100381	96.637	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	193544	96.593	ug/l	99
10) Methyl Iodide	4.000	142	228728	108.503	ug/l	100
11) Tert butyl alcohol	4.854	59	65742	395.134	ug/l	99
12) 1,1-Dichloroethene	3.787	96	186684	97.304	ug/l	99
13) Acrolein	3.653	56	11267	88.370	ug/l	99
14) Allyl chloride	4.378	41	339203	99.720	ug/l	99
15) Acrylonitrile	5.055	53	219275	477.449	ug/l	99
16) Acetone	3.866	43	196435	473.421	ug/l	99
17) Carbon Disulfide	4.104	76	617661	96.953	ug/l	100
18) Methyl Acetate	4.385	43	95405	94.085	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	498467	98.337	ug/l	99
20) Methylene Chloride	4.616	84	201698	89.894	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	208498	98.718	ug/l	96
22) Diisopropyl ether	6.018	45	697290	99.061	ug/l	97
23) Vinyl Acetate	5.957	43	2103219	500.017	ug/l	99
24) 1,1-Dichloroethane	5.909	63	384030	96.798	ug/l	99
25) 2-Butanone	6.890	43	303077	483.977	ug/l	97
26) 2,2-Dichloropropane	6.884	77	350870	97.467	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	238916	99.061	ug/l	99
28) Bromochloromethane	7.244	49	167271	95.287	ug/l	99
29) Tetrahydrofuran	7.256	42	199056	486.299	ug/l	98
30) Chloroform	7.421	83	387767	96.458	ug/l	99
31) Cyclohexane	7.701	56	351876	92.269	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	353701	96.663	ug/l	98
36) 1,1-Dichloropropene	7.835	75	287472	97.146	ug/l	100
37) Ethyl Acetate	6.982	43	137233	93.230	ug/l	99
38) Carbon Tetrachloride	7.817	117	321576	96.663	ug/l	99
39) Methylcyclohexane	9.109	83	371172	99.169	ug/l	99
40) Benzene	8.079	78	847066	96.835	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021316.D
 Acq On : 25 Feb 2025 16:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:47:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	77542	94.219	ug/l	99
42) 1,2-Dichloroethane	8.152	62	236704	95.375	ug/l	100
43) Isopropyl Acetate	8.195	43	280321	98.388	ug/l	99
44) Trichloroethene	8.865	130	212562	97.057	ug/l	99
45) 1,2-Dichloropropane	9.140	63	201701	95.814	ug/l	98
46) Dibromomethane	9.231	93	110814	96.301	ug/l	99
47) Bromodichloromethane	9.420	83	297320	96.904	ug/l	99
48) Methyl methacrylate	9.219	41	135412	101.635	ug/l	99
49) 1,4-Dioxane	9.225	88	24355	1903.504	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	716009	490.938	ug/l	100
52) Toluene	10.170	92	539016	99.189	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	284731	101.290	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	328107	98.870	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	142372	94.975	ug/l	98
56) Ethyl methacrylate	10.438	69	216586	104.564	ug/l	98
57) 1,3-Dichloropropane	10.719	76	255903	97.283	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	530695	533.791	ug/l	100
59) 2-Hexanone	10.761	43	485734	507.115	ug/l	99
60) Dibromochloromethane	10.908	129	199225	97.582	ug/l	99
61) 1,2-Dibromoethane	11.011	107	136284	96.029	ug/l	98
64) Tetrachloroethene	10.646	164	189679	93.936	ug/l	99
65) Chlorobenzene	11.438	112	576109	96.070	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	203696	97.007	ug/l	99
67) Ethyl Benzene	11.517	91	1057129	99.522	ug/l	100
68) m/p-Xylenes	11.627	106	783034	195.986	ug/l	100
69) o-Xylene	11.956	106	370964	99.112	ug/l	100
70) Styrene	11.969	104	619437	99.469	ug/l	99
71) Bromoform	12.133	173	114495	95.313	ug/l #	99
73) Isopropylbenzene	12.255	105	987758	100.648	ug/l	99
74) N-amyl acetate	12.072	43	258576	103.658	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	162941	94.075	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	123844m	94.206	ug/l	
77) Bromobenzene	12.529	156	223081	97.728	ug/l	98
78) n-propylbenzene	12.596	91	1186751	99.651	ug/l	100
79) 2-Chlorotoluene	12.682	91	666071	97.455	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	794247	98.676	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	58806	100.031	ug/l	99
82) 4-Chlorotoluene	12.779	91	687385	97.022	ug/l	100
83) tert-Butylbenzene	12.999	119	720480	99.092	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	795840	99.415	ug/l	100
85) sec-Butylbenzene	13.176	105	1041022	98.021	ug/l	100
86) p-Isopropyltoluene	13.291	119	881757	99.431	ug/l	100
87) 1,3-Dichlorobenzene	13.291	146	435489	96.445	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	425301	95.343	ug/l	99
89) n-Butylbenzene	13.621	91	840236	100.683	ug/l	100
90) Hexachloroethane	13.883	117	181015	97.720	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	377453	95.410	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	26541	96.867	ug/l	99
93) 1,2,4-Trichlorobenzene	14.925	180	248146	102.770	ug/l	100
94) Hexachlorobutadiene	15.023	225	147103	96.770	ug/l	99
95) Naphthalene	15.145	128	436817	109.220	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	211313	103.581	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021316.D
Acq On : 25 Feb 2025 16:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:47:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 01:41:21 2025
Response via : Initial Calibration

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

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

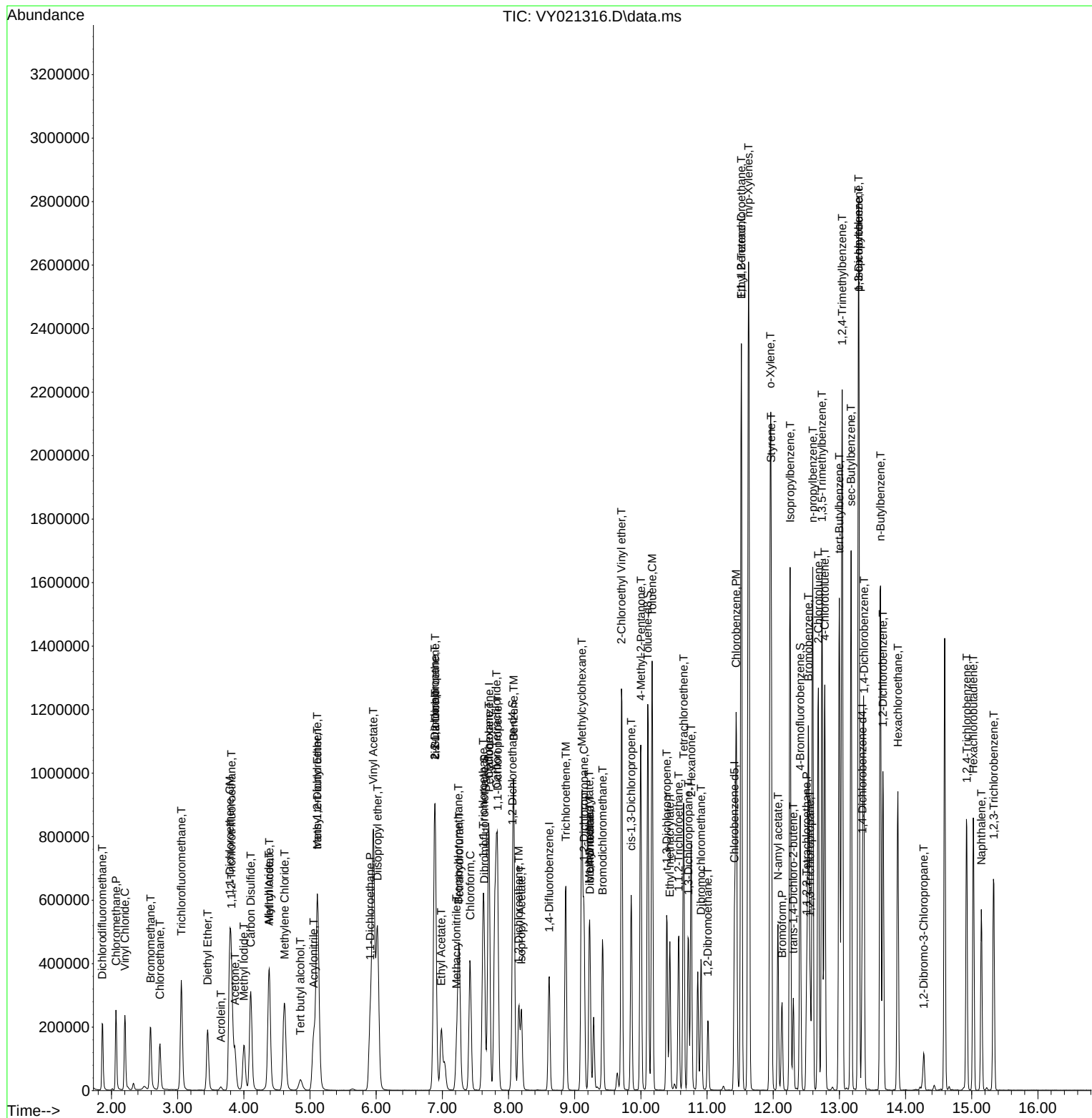
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021316.D
 Acq On : 25 Feb 2025 16:49
 Operator : SY/MD
 Sample : VSTDIC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC100

Quant Time: Feb 26 01:47:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 01:41:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY022525

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	183832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	292214	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	257123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	126299	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	98960	47.453	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	94.900%		
35) Dibromofluoromethane	7.634	113	93944	49.037	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.080%		
50) Toluene-d8	10.109	98	360528	48.694	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.380%		
62) 4-Bromofluorobenzene	12.408	95	120972	48.549	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	97.100%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	93894	53.871	ug/l	98
3) Chloromethane	2.068	50	120479	53.523	ug/l	100
4) Vinyl Chloride	2.202	62	121922	55.184	ug/l	98
5) Bromomethane	2.598	94	77054	52.483	ug/l	100
6) Chloroethane	2.732	64	75086	54.804	ug/l	99
7) Trichlorofluoromethane	3.062	101	178123	53.384	ug/l	94
8) Diethyl Ether	3.458	74	54929	54.849	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	104678	54.188	ug/l	98
10) Methyl Iodide	4.007	142	124707	61.361	ug/l	100
11) Tert butyl alcohol	4.848	59	35572	221.762	ug/l	100
12) 1,1-Dichloroethene	3.793	96	100075	54.104	ug/l	98
13) Acrolein	3.653	56	6337	51.554	ug/l	95
14) Allyl chloride	4.385	41	181554	55.361	ug/l	99
15) Acrylonitrile	5.055	53	118343	267.274	ug/l	99
16) Acetone	3.866	43	90886	227.197	ug/l	99
17) Carbon Disulfide	4.104	76	335241	54.581	ug/l	100
18) Methyl Acetate	4.385	43	51200	52.372	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	265419	54.311	ug/l	97
20) Methylene Chloride	4.616	84	110456	51.062	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	112082	55.044	ug/l	99
22) Diisopropyl ether	6.018	45	377281	55.595	ug/l	99
23) Vinyl Acetate	5.957	43	1116005	275.197	ug/l	100
24) 1,1-Dichloroethane	5.915	63	210383	55.004	ug/l	99
25) 2-Butanone	6.890	43	152895	253.246	ug/l	97
26) 2,2-Dichloropropane	6.884	77	187045	53.893	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	130921	56.305	ug/l	98
28) Bromochloromethane	7.244	49	80309	47.452	ug/l	99
29) Tetrahydrofuran	7.262	42	102673	260.172	ug/l	99
30) Chloroform	7.421	83	213255	55.023	ug/l	98
31) Cyclohexane	7.701	56	191850	52.180	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	194325	55.084	ug/l	98
36) 1,1-Dichloropropene	7.835	75	157102	54.593	ug/l	100
37) Ethyl Acetate	6.982	43	72810	50.864	ug/l	99
38) Carbon Tetrachloride	7.817	117	175208	54.157	ug/l	99
39) Methylcyclohexane	9.109	83	197993	54.397	ug/l	99
40) Benzene	8.079	78	464323	54.583	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY022525

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	39412	49.244	ug/l	96
42) 1,2-Dichloroethane	8.158	62	129718	53.746	ug/l	100
43) Isopropyl Acetate	8.195	43	145128	52.380	ug/l #	87
44) Trichloroethene	8.865	130	116988	54.930	ug/l	100
45) 1,2-Dichloropropane	9.140	63	111498	54.464	ug/l	99
46) Dibromomethane	9.231	93	61031	54.539	ug/l	99
47) Bromodichloromethane	9.420	83	162580	54.489	ug/l	98
48) Methyl methacrylate	9.219	41	71360	55.076	ug/l	99
49) 1,4-Dioxane	9.225	88	13103	1053.076	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	372486	262.628	ug/l	100
52) Toluene	10.170	92	294219	55.674	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	152263	55.699	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	178951	55.451	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	77645	53.263	ug/l	98
56) Ethyl methacrylate	10.438	69	112155	55.679	ug/l	99
57) 1,3-Dichloropropane	10.719	76	139257	54.438	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	221395	228.990	ug/l	100
59) 2-Hexanone	10.761	43	246032	264.133	ug/l	99
60) Dibromochloromethane	10.914	129	107866	54.329	ug/l	100
61) 1,2-Dibromoethane	11.018	107	74447	53.942	ug/l	98
64) Tetrachloroethene	10.646	164	102887	52.940	ug/l	95
65) Chlorobenzene	11.444	112	314040	54.410	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	110179	54.517	ug/l	99
67) Ethyl Benzene	11.517	91	572425	55.992	ug/l	99
68) m/p-Xylenes	11.627	106	427892	111.274	ug/l	99
69) o-Xylene	11.956	106	202123	56.108	ug/l	99
70) Styrene	11.969	104	337489	56.307	ug/l	99
71) Bromoform	12.133	173	61959	53.590	ug/l #	100
73) Isopropylbenzene	12.255	105	540978	56.974	ug/l	99
74) N-amyl acetate	12.072	43	133968	55.509	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.511	83	89240	53.254	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	56345m	44.570	ug/l	
77) Bromobenzene	12.536	156	122121	55.296	ug/l	98
78) n-propylbenzene	12.597	91	654255	56.783	ug/l	100
79) 2-Chlorotoluene	12.682	91	369065	55.813	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	440379	56.549	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	30268	53.216	ug/l	96
82) 4-Chlorotoluene	12.779	91	375340	54.757	ug/l	100
83) tert-Butylbenzene	12.999	119	393228	55.900	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	438538	56.621	ug/l	100
85) sec-Butylbenzene	13.176	105	571874	55.655	ug/l	99
86) p-Isopropyltoluene	13.292	119	484140	56.427	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	239404	54.800	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	233477	54.098	ug/l	99
89) n-Butylbenzene	13.621	91	459065	56.856	ug/l	100
90) Hexachloroethane	13.883	117	98634	55.035	ug/l	99
91) 1,2-Dichlorobenzene	13.663	146	208776	54.545	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	13821	52.137	ug/l	98
93) 1,2,4-Trichlorobenzene	14.925	180	132464	56.703	ug/l	99
94) Hexachlorobutadiene	15.029	225	78745	53.541	ug/l	99
95) Naphthalene	15.151	128	222839	57.589	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	112466	56.980	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021317.D
Acq On : 25 Feb 2025 17:31
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY022525

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:42:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

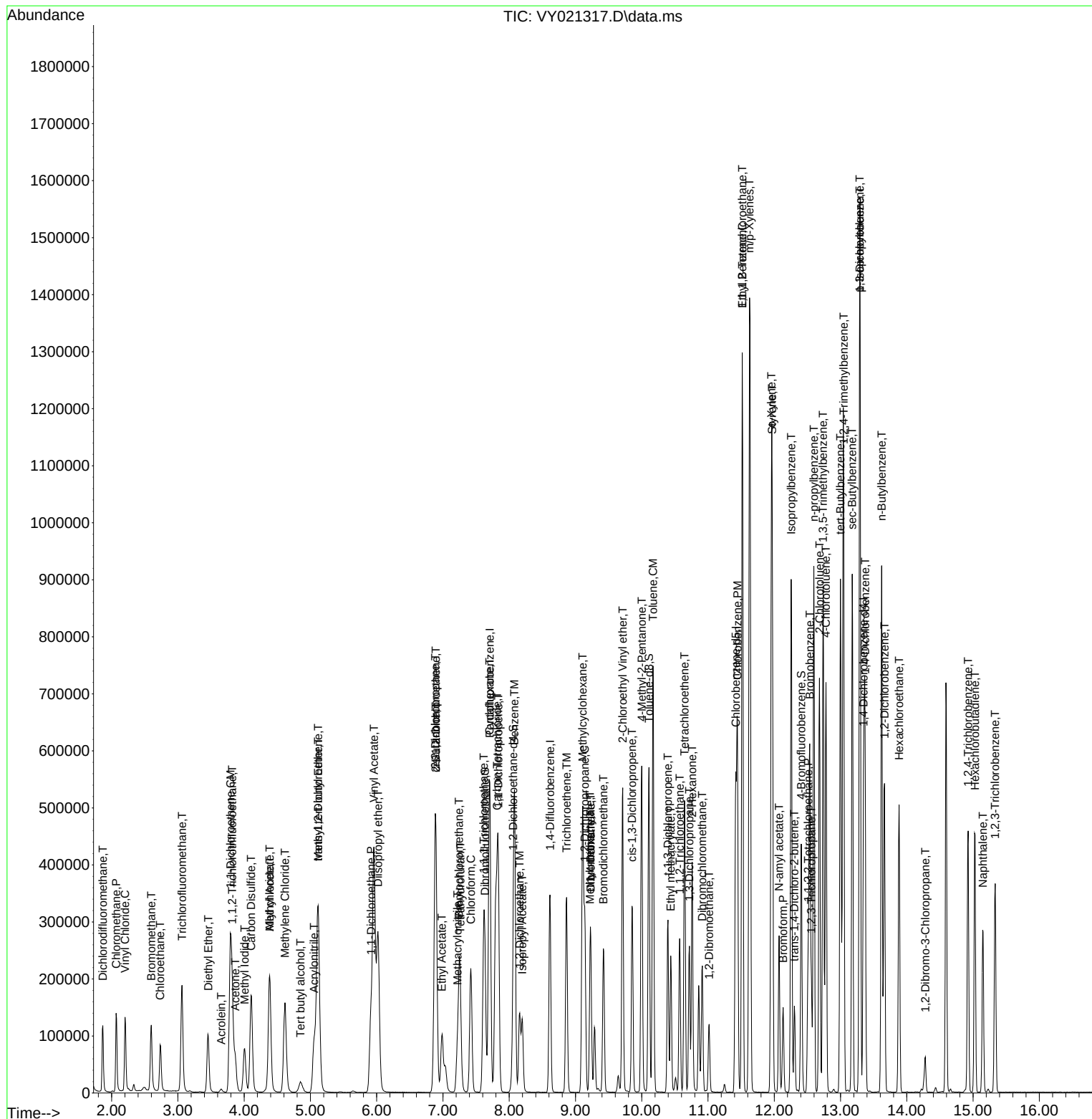
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY022525

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY022525

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	0.474	0.511	-7.8	109	0.00
3 P	Chloromethane	0.612	0.655	-7.0	114	0.00
4 C	Vinyl Chloride	0.601	0.663	-10.3#	111	0.00
5 T	Bromomethane	0.399	0.419	-5.0	114	0.00
6 T	Chloroethane	0.373	0.408	-9.4	110	0.00
7 T	Trichlorofluoromethane	0.908	0.969	-6.7	108	0.00
8 T	Diethyl Ether	0.272	0.299	-9.9	109	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.525	0.569	-8.4	111	0.00
10 T	Methyl Iodide	0.553	0.678	-22.6	112	0.00
11 T	Tert butyl alcohol	0.044	0.039	11.4	101	0.00
12 CM	1,1-Dichloroethene	0.503	0.544	-8.2#	111	0.00
13 T	Acrolein	0.033	0.007	78.8#	108	0.00
14 T	Allyl chloride	0.892	0.988	-10.8	112	0.00
15 T	Acrylonitrile	0.120	0.129	-7.5	106	0.00
16 T	Acetone	0.109	0.099	9.2	81	0.00
17 T	Carbon Disulfide	1.671	1.824	-9.2	110	0.00
18 T	Methyl Acetate	0.266	0.279	-4.9	106	0.00
19 T	Methyl tert-butyl Ether	1.329	1.444	-8.7	107	0.00
20 T	Methylene Chloride	0.588	0.601	-2.2	108	0.00
21 T	trans-1,2-Dichloroethene	0.554	0.610	-10.1	111	0.00
22 T	Diisopropyl ether	1.846	2.052	-11.2	110	0.00
23 T	Vinyl Acetate	1.103	1.214	-10.1	107	0.00
24 P	1,1-Dichloroethane	1.040	1.144	-10.0	111	0.00
25 T	2-Butanone	0.164	0.166	-1.2	95	0.00
26 T	2,2-Dichloropropane	0.944	1.017	-7.7	110	0.00
27 T	cis-1,2-Dichloroethene	0.632	0.712	-12.7	112	0.00
28 T	Bromochloromethane	0.460	0.437	5.0	101	0.00
29 T	Tetrahydrofuran	0.107	0.112	-4.7	102	0.00
30 C	Chloroform	1.054	1.160	-10.1#	111	0.00
31 T	Cyclohexane	1.000	1.044	-4.4	111	0.00
32 T	1,1,1-Trichloroethane	0.960	1.057	-10.1	112	0.00
33 S	1,2-Dichloroethane-d4	0.567	0.538	5.1	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
35 S	Dibromofluoromethane	0.328	0.321	2.1	106	0.00
36 T	1,1-Dichloropropene	0.492	0.538	-9.3	112	0.00
37 T	Ethyl Acetate	0.245	0.249	-1.6	104	0.00
38 T	Carbon Tetrachloride	0.554	0.600	-8.3	111	0.00
39 T	Methylcyclohexane	0.623	0.678	-8.8	110	0.00
40 TM	Benzene	1.456	1.589	-9.1	111	0.00
41 T	Methacrylonitrile	0.137	0.135	1.5	99	0.00
42 TM	1,2-Dichloroethane	0.413	0.444	-7.5	110	0.00
43 T	Isopropyl Acetate	0.474	0.497	-4.9	104	0.00
44 TM	Trichloroethene	0.364	0.400	-9.9	112	0.00
45 C	1,2-Dichloropropane	0.350	0.382	-9.1#	110	0.00
46 T	Dibromomethane	0.191	0.209	-9.4	110	0.00
47 T	Bromodichloromethane	0.511	0.556	-8.8	110	0.00
48 T	Methyl methacrylate	0.222	0.244	-9.9	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY022525

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	107	0.00
50 S	Toluene-d8	1.267	1.234	2.6	106	0.00
51 T	4-Methyl-2-Pentanone	0.243	0.255	-4.9	102	0.00
52 CM	Toluene	0.904	1.007	-11.4#	112	0.00
53 T	t-1,3-Dichloropropene	0.468	0.521	-11.3	108	0.00
54 T	cis-1,3-Dichloropropene	0.552	0.612	-10.9	111	0.00
55 T	1,1,2-Trichloroethane	0.249	0.266	-6.8	107	0.00
56 T	Ethyl methacrylate	0.345	0.384	-11.3	105	0.00
57 T	1,3-Dichloropropane	0.438	0.477	-8.9	109	0.00
58 T	2-Chloroethyl Vinyl ether	0.165	0.152	7.9	85	0.00
59 T	2-Hexanone	0.159	0.168	-5.7	99	0.00
60 T	Dibromochloromethane	0.340	0.369	-8.5	108	0.00
61 T	1,2-Dibromoethane	0.236	0.255	-8.1	108	0.00
62 S	4-Bromofluorobenzene	0.426	0.414	2.8	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.378	0.400	-5.8	110	0.00
65 PM	Chlorobenzene	1.122	1.221	-8.8	111	0.00
66 T	1,1,1,2-Tetrachloroethane	0.393	0.429	-9.2	111	0.00
67 C	Ethyl Benzene	1.988	2.226	-12.0#	112	0.00
68 T	m/p-Xylenes	0.748	0.832	-11.2	111	0.00
69 T	o-Xylene	0.701	0.786	-12.1	111	0.00
70 T	Styrene	1.166	1.313	-12.6	110	0.00
71 P	Bromoform	0.225	0.241	-7.1	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73 T	Isopropylbenzene	3.759	4.283	-13.9	112	0.00
74 T	N-amyl acetate	0.955	1.061	-11.1	104	0.00
75 P	1,1,2,2-Tetrachloroethane	0.663	0.707	-6.6	105	0.00
76 T	1,2,3-Trichloropropane	0.500	0.446	10.8	88	0.00
77 T	Bromobenzene	0.874	0.967	-10.6	110	0.00
78 T	n-propylbenzene	4.561	5.180	-13.6	111	0.00
79 T	2-Chlorotoluene	2.618	2.922	-11.6	112	0.00
80 T	1,3,5-Trimethylbenzene	3.083	3.487	-13.1	111	0.00
81 T	trans-1,4-Dichloro-2-butene	0.225	0.240	-6.7	102	0.00
82 T	4-Chlorotoluene	2.714	2.972	-9.5	110	0.00
83 T	tert-Butylbenzene	2.785	3.113	-11.8	112	0.00
84 T	1,2,4-Trimethylbenzene	3.066	3.472	-13.2	111	0.00
85 T	sec-Butylbenzene	4.068	4.528	-11.3	110	0.00
86 T	p-Isopropyltoluene	3.397	3.833	-12.8	111	0.00
87 T	1,3-Dichlorobenzene	1.730	1.896	-9.6	110	0.00
88 T	1,4-Dichlorobenzene	1.709	1.849	-8.2	110	0.00
89 T	n-Butylbenzene	3.196	3.635	-13.7	110	0.00
90 T	Hexachloroethane	0.710	0.781	-10.0	112	0.00
91 T	1,2-Dichlorobenzene	1.515	1.653	-9.1	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.105	0.109	-3.8	100	0.00
93 T	1,2,4-Trichlorobenzene	0.925	1.049	-13.4	112	0.00
94 T	Hexachlorobutadiene	0.582	0.623	-7.0	109	0.00
95 T	Naphthalene	1.532	1.764	-15.1	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021317.D
Acq On : 25 Feb 2025 17:31
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY022525

Quant Time: Feb 26 03:42:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.781	0.890	-14.0	112	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY022525

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	50.000	53.871	-7.7	109	0.00
3 P	Chloromethane	50.000	53.523	-7.0	114	0.00
4 C	Vinyl Chloride	50.000	55.184	-10.4#	111	0.00
5 T	Bromomethane	50.000	52.483	-5.0	114	0.00
6 T	Chloroethane	50.000	54.804	-9.6	110	0.00
7 T	Trichlorofluoromethane	50.000	53.384	-6.8	108	0.00
8 T	Diethyl Ether	50.000	54.849	-9.7	109	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	54.188	-8.4	111	0.00
10 T	Methyl Iodide	50.000	61.361	-22.7	112	0.00
11 T	Tert butyl alcohol	250.000	221.762	11.3	101	0.00
12 CM	1,1-Dichloroethene	50.000	54.104	-8.2#	111	0.00
13 T	Acrolein	250.000	51.554	79.4#	108	0.00
14 T	Allyl chloride	50.000	55.361	-10.7	112	0.00
15 T	Acrylonitrile	250.000	267.274	-6.9	106	0.00
16 T	Acetone	250.000	227.197	9.1	81	0.00
17 T	Carbon Disulfide	50.000	54.581	-9.2	110	0.00
18 T	Methyl Acetate	50.000	52.372	-4.7	106	0.00
19 T	Methyl tert-butyl Ether	50.000	54.311	-8.6	107	0.00
20 T	Methylene Chloride	50.000	51.062	-2.1	108	0.00
21 T	trans-1,2-Dichloroethene	50.000	55.044	-10.1	111	0.00
22 T	Diisopropyl ether	50.000	55.595	-11.2	110	0.00
23 T	Vinyl Acetate	250.000	275.197	-10.1	107	0.00
24 P	1,1-Dichloroethane	50.000	55.004	-10.0	111	0.00
25 T	2-Butanone	250.000	253.246	-1.3	95	0.00
26 T	2,2-Dichloropropane	50.000	53.893	-7.8	110	0.00
27 T	cis-1,2-Dichloroethene	50.000	56.305	-12.6	112	0.00
28 T	Bromochloromethane	50.000	47.452	5.1	101	0.00
29 T	Tetrahydrofuran	250.000	260.172	-4.1	102	0.00
30 C	Chloroform	50.000	55.023	-10.0#	111	0.00
31 T	Cyclohexane	50.000	52.180	-4.4	111	0.00
32 T	1,1,1-Trichloroethane	50.000	55.084	-10.2	112	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.453	5.1	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	107	0.00
35 S	Dibromofluoromethane	50.000	49.037	1.9	106	0.00
36 T	1,1-Dichloropropene	50.000	54.593	-9.2	112	0.00
37 T	Ethyl Acetate	50.000	50.864	-1.7	104	0.00
38 T	Carbon Tetrachloride	50.000	54.157	-8.3	111	0.00
39 T	Methylcyclohexane	50.000	54.397	-8.8	110	0.00
40 TM	Benzene	50.000	54.583	-9.2	111	0.00
41 T	Methacrylonitrile	50.000	49.244	1.5	99	0.00
42 TM	1,2-Dichloroethane	50.000	53.746	-7.5	110	0.00
43 T	Isopropyl Acetate	50.000	52.380	-4.8	104	0.00
44 TM	Trichloroethene	50.000	54.930	-9.9	112	0.00
45 C	1,2-Dichloropropane	50.000	54.464	-8.9#	110	0.00
46 T	Dibromomethane	50.000	54.539	-9.1	110	0.00
47 T	Bromodichloromethane	50.000	54.489	-9.0	110	0.00
48 T	Methyl methacrylate	50.000	55.076	-10.2	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
 Data File : VY021317.D
 Acq On : 25 Feb 2025 17:31
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY022525

Quant Time: Feb 26 03:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1053.076	-5.3	107	0.00
50 S	Toluene-d8	50.000	48.694	2.6	106	0.00
51 T	4-Methyl-2-Pentanone	250.000	262.628	-5.1	102	0.00
52 CM	Toluene	50.000	55.674	-11.3#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	55.699	-11.4	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.451	-10.9	111	0.00
55 T	1,1,2-Trichloroethane	50.000	53.263	-6.5	107	0.00
56 T	Ethyl methacrylate	50.000	55.679	-11.4	105	0.00
57 T	1,3-Dichloropropane	50.000	54.438	-8.9	109	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	228.990	8.4	85	0.00
59 T	2-Hexanone	250.000	264.133	-5.7	99	0.00
60 T	Dibromochloromethane	50.000	54.329	-8.7	108	0.00
61 T	1,2-Dibromoethane	50.000	53.942	-7.9	108	0.00
62 S	4-Bromofluorobenzene	50.000	48.549	2.9	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	52.940	-5.9	110	0.00
65 PM	Chlorobenzene	50.000	54.410	-8.8	111	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.517	-9.0	111	0.00
67 C	Ethyl Benzene	50.000	55.992	-12.0#	112	0.00
68 T	m/p-Xylenes	100.000	111.274	-11.3	111	0.00
69 T	o-Xylene	50.000	56.108	-12.2	111	0.00
70 T	Styrene	50.000	56.307	-12.6	110	0.00
71 P	Bromoform	50.000	53.590	-7.2	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73 T	Isopropylbenzene	50.000	56.974	-13.9	112	0.00
74 T	N-amyl acetate	50.000	55.509	-11.0	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.254	-6.5	105	0.00
76 T	1,2,3-Trichloropropane	50.000	44.570	10.9	88	0.00
77 T	Bromobenzene	50.000	55.296	-10.6	110	0.00
78 T	n-propylbenzene	50.000	56.783	-13.6	111	0.00
79 T	2-Chlorotoluene	50.000	55.813	-11.6	112	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.549	-13.1	111	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.216	-6.4	102	0.00
82 T	4-Chlorotoluene	50.000	54.757	-9.5	110	0.00
83 T	tert-Butylbenzene	50.000	55.900	-11.8	112	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.621	-13.2	111	0.00
85 T	sec-Butylbenzene	50.000	55.655	-11.3	110	0.00
86 T	p-Isopropyltoluene	50.000	56.427	-12.9	111	0.00
87 T	1,3-Dichlorobenzene	50.000	54.800	-9.6	110	0.00
88 T	1,4-Dichlorobenzene	50.000	54.098	-8.2	110	0.00
89 T	n-Butylbenzene	50.000	56.856	-13.7	110	0.00
90 T	Hexachloroethane	50.000	55.035	-10.1	112	0.00
91 T	1,2-Dichlorobenzene	50.000	54.545	-9.1	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.137	-4.3	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	56.703	-13.4	112	0.00
94 T	Hexachlorobutadiene	50.000	53.541	-7.1	109	0.00
95 T	Naphthalene	50.000	57.589	-15.2	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021317.D
Acq On : 25 Feb 2025 17:31
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY022525

Quant Time: Feb 26 03:42:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	56.980	-14.0	112	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.700		2.94	20
Chloromethane	0.682	0.660	0.1	-3.23	20
Vinyl Chloride	0.723	0.719		-0.55	20
Bromomethane	0.462	0.437		-5.41	20
Chloroethane	0.479	0.461		-3.76	20
Trichlorofluoromethane	1.046	1.056		0.96	20
1,1,2-Trichlorotrifluoroethane	0.605	0.643		6.28	20
1,1-Dichloroethene	0.548	0.569		3.83	20
Acetone	0.205	0.217		5.85	20
Carbon Disulfide	1.625	1.541		-5.17	20
Methyl tert-butyl Ether	1.629	1.821		11.73	20
Methyl Acetate	0.705	0.776		10.07	20
Methylene Chloride	0.660	0.670		1.51	20
trans-1,2-Dichloroethene	0.590	0.607		2.88	20
1,1-Dichloroethane	1.106	1.163	0.1	5.15	20
Cyclohexane	0.926	0.906		-2.16	20
2-Butanone	0.302	0.356		17.88	20
Carbon Tetrachloride	0.550	0.590		7.27	20
cis-1,2-Dichloroethene	0.685	0.716		4.53	20
Bromochloromethane	0.454	0.496		9.25	20
Chloroform	1.156	1.205		4.24	20
1,1,1-Trichloroethane	1.028	1.063		3.4	20
Methylcyclohexane	0.455	0.502		10.33	20
Benzene	1.484	1.612		8.63	20
1,2-Dichloroethane	0.483	0.508		5.18	20
Trichloroethene	0.364	0.369		1.37	20
1,2-Dichloropropane	0.358	0.395		10.34	20
Bromodichloromethane	0.541	0.579		7.02	20
4-Methyl-2-Pentanone	0.367	0.466		26.98	20
Toluene	0.870	1.009		15.98	20
t-1,3-Dichloropropene	0.500	0.566		13.2	20
cis-1,3-Dichloropropene	0.548	0.613		11.86	20
1,1,2-Trichloroethane	0.346	0.386		11.56	20
2-Hexanone	0.253	0.338		33.6	20
Dibromochloromethane	0.403	0.459		13.9	20
1,2-Dibromoethane	0.327	0.376		14.98	20
Tetrachloroethene	0.387	0.388		0.26	20
Chlorobenzene	1.145	1.187	0.3	3.67	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	2.058		14.72	20
m/p-Xylenes	0.682	0.815		19.5	20
o-Xylene	0.648	0.761		17.44	20
Styrene	1.059	1.326		25.21	20
Bromoform	0.306	0.351	0.1	14.71	20
Isopropylbenzene	3.425	3.702		8.09	20
1,1,2,2-Tetrachloroethane	1.179	1.192	0.3	1.1	20
1,3-Dichlorobenzene	1.734	1.758		1.38	20
1,4-Dichlorobenzene	1.777	1.724		-2.98	20
1,2-Dichlorobenzene	1.667	1.700		1.92	20
1,2-Dibromo-3-Chloropropane	0.216	0.219		1.39	20
1,2,4-Trichlorobenzene	0.794	0.808		1.76	20
1,2,3-Trichlorobenzene	0.798	0.802		0.5	20
1,2-Dichloroethane-d4	0.648	0.721		11.27	20
Dibromofluoromethane	0.327	0.384		17.43	20
Toluene-d8	1.190	1.428		20	20
4-Bromofluorobenzene	0.392	0.497		26.79	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	270391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	444288	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	401749	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208250	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	195044	55.639	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.280%			
35) Dibromofluoromethane	8.165	113	170583	58.676	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.360%			
50) Toluene-d8	10.565	98	634568	59.993	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 119.980%#			
62) 4-Bromofluorobenzene	12.847	95	220678	63.323	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 126.640%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	189227	51.450	ug/l	97
3) Chloromethane	2.359	50	178538	48.377	ug/l	99
4) Vinyl Chloride	2.512	62	194364	49.740	ug/l	99
5) Bromomethane	2.948	94	118119	47.274	ug/l	98
6) Chloroethane	3.118	64	124641	48.156	ug/l	94
7) Trichlorofluoromethane	3.495	101	285475	50.459	ug/l	100
8) Diethyl Ether	3.959	74	94914	51.850	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	173867	53.166	ug/l	97
10) Methyl Iodide	4.589	142	207114	51.378	ug/l	97
11) Tert butyl alcohol	5.512	59	125367	290.770	ug/l	100
12) 1,1-Dichloroethene	4.342	96	153800	51.868	ug/l	99
13) Acrolein	4.177	56	184907	289.200	ug/l	98
14) Allyl chloride	5.024	41	193524	49.710	ug/l	98
15) Acrylonitrile	5.718	53	408683	291.573	ug/l	99
16) Acetone	4.424	43	293349	264.466	ug/l	96
17) Carbon Disulfide	4.712	76	416649	47.411	ug/l	99
18) Methyl Acetate	5.018	43	209690	54.962	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	492246	55.865	ug/l	99
20) Methylene Chloride	5.271	84	181067	50.760	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	164073	51.388	ug/l	97
22) Diisopropyl ether	6.665	45	499088	56.735	ug/l	99
23) Vinyl Acetate	6.600	43	1697002	281.744	ug/l	98
24) 1,1-Dichloroethane	6.565	63	314583	52.606	ug/l	99
25) 2-Butanone	7.483	43	480626	294.527	ug/l	99
26) 2,2-Dichloropropane	7.488	77	274765	51.672	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	193487	52.265	ug/l	99
28) Bromochloromethane	7.812	49	134140	54.576	ug/l	97
29) Tetrahydrofuran	7.835	42	327656	310.939	ug/l	99
30) Chloroform	7.965	83	325765	52.128	ug/l	97
31) Cyclohexane	8.253	56	245063	48.945	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	287419	51.709	ug/l	97
36) 1,1-Dichloropropene	8.365	75	222336	54.037	ug/l	99
37) Ethyl Acetate	7.559	43	196298	57.974	ug/l	99
38) Carbon Tetrachloride	8.359	117	262305	53.654	ug/l	96
39) Methylcyclohexane	9.600	83	223189	55.217	ug/l	99
40) Benzene	8.606	78	716363	54.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	105615	58.349	ug/l	96
42) 1,2-Dichloroethane	8.665	62	225691	52.542	ug/l	99
43) Isopropyl Acetate	8.682	43	329566	55.521	ug/l	99
44) Trichloroethene	9.347	130	164046	50.665	ug/l	95
45) 1,2-Dichloropropane	9.618	63	175530	55.144	ug/l	95
46) Dibromomethane	9.706	93	123339	54.933	ug/l	100
47) Bromodichloromethane	9.882	83	257086	53.518	ug/l	100
48) Methyl methacrylate	9.677	41	150912	60.014	ug/l	96
49) 1,4-Dioxane	9.688	88	58943	1232.633	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	1035536	317.207	ug/l	99
52) Toluene	10.629	92	448464	58.015	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	251365	56.589	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	272160	55.876	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	171538	55.813	ug/l	99
56) Ethyl methacrylate	10.871	69	251054	55.991	ug/l	99
57) 1,3-Dichloropropane	11.159	76	291523	56.820	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	443855	255.958	ug/l	99
59) 2-Hexanone	11.194	43	751476	334.610	ug/l	98
60) Dibromochloromethane	11.353	129	204140	57.041	ug/l	100
61) 1,2-Dibromoethane	11.465	107	167175	57.568	ug/l	98
64) Tetrachloroethene	11.100	164	155718	50.032	ug/l	97
65) Chlorobenzene	11.888	112	477030	51.832	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	177191	53.564	ug/l	100
67) Ethyl Benzene	11.959	91	826725	57.345	ug/l	100
68) m/p-Xylenes	12.071	106	654939	119.597	ug/l	100
69) o-Xylene	12.394	106	305625	58.731	ug/l	100
70) Styrene	12.412	104	532745	54.496	ug/l	100
71) Bromoform	12.576	173	141096	57.401	ug/l #	97
73) Isopropylbenzene	12.694	105	770962	54.038	ug/l	100
74) N-amyl acetate	12.494	43	274861	54.632	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	248210	50.557	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	226972m	49.065	ug/l	
77) Bromobenzene	12.976	156	196411	50.956	ug/l	97
78) n-propylbenzene	13.035	91	924470	56.580	ug/l	100
79) 2-Chlorotoluene	13.123	91	568143	52.042	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	658723	56.679	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	89087	56.191	ug/l	98
82) 4-Chlorotoluene	13.217	91	579342	53.531	ug/l	100
83) tert-Butylbenzene	13.435	119	536211	54.866	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	671758	58.422	ug/l	100
85) sec-Butylbenzene	13.612	105	763617	55.301	ug/l	100
86) p-Isopropyltoluene	13.729	119	639122	50.471	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	366157	50.703	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	358924	48.492	ug/l	100
89) n-Butylbenzene	14.053	91	520397	53.081	ug/l	99
90) Hexachloroethane	14.329	117	129889	49.669	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	353920	50.964	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	45548	50.523	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	168238	50.842	ug/l	98
94) Hexachlorobutadiene	15.500	225	86598	43.061	ug/l	99
95) Naphthalene	15.641	128	491906	54.146	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	167060	50.288	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/25/2025

Supervised By :Mahesh Dadoda 02/25/2025

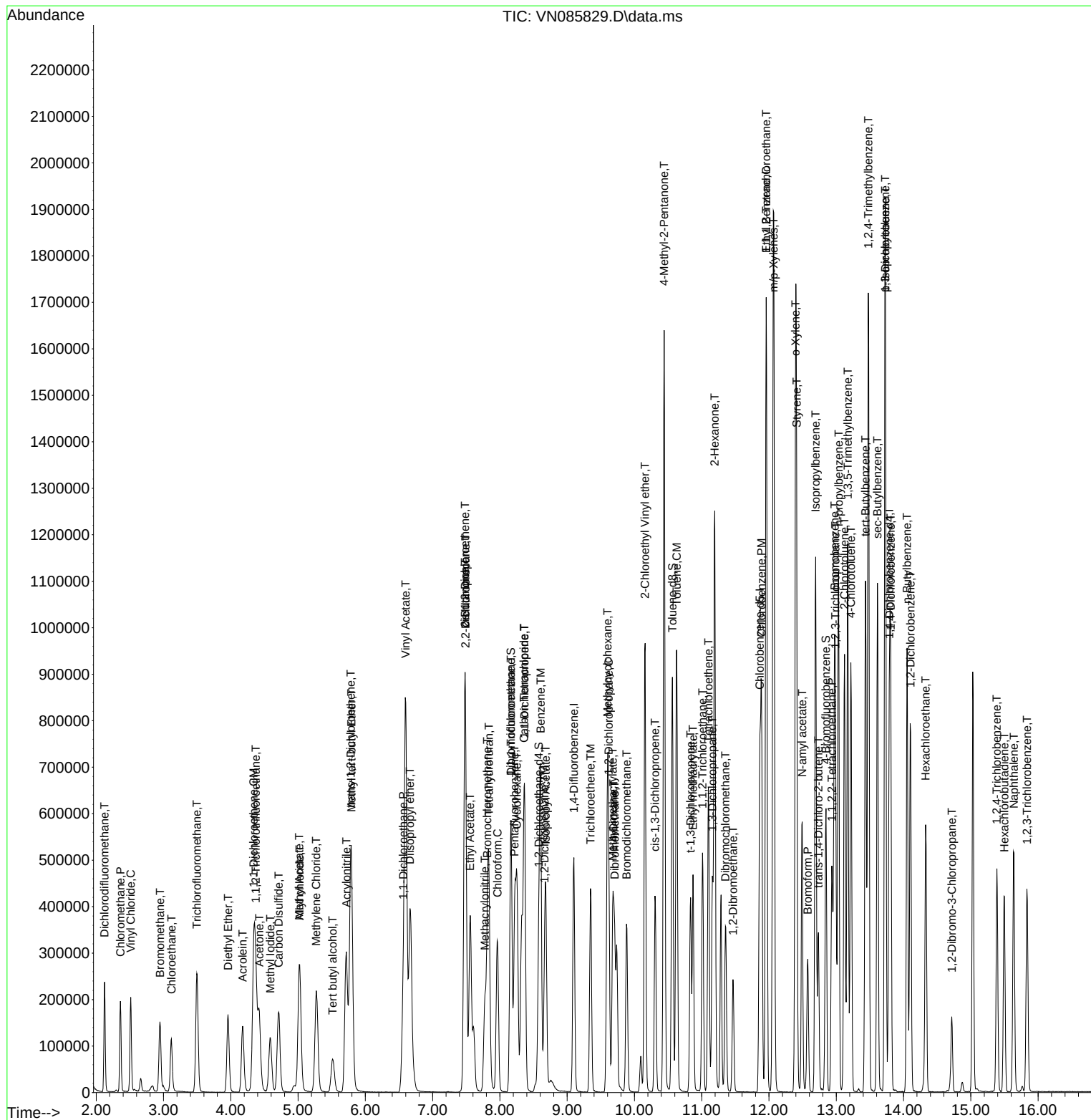
Quant Time: Feb 25 01:49:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:43:32 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	84	0.00
2 T	Dichlorodifluoromethane	0.680	0.700	-2.9	88	0.00
3 P	Chloromethane	0.682	0.660	3.2	89	0.00
4 C	Vinyl Chloride	0.723	0.719	0.6#	89	0.00
5 T	Bromomethane	0.462	0.437	5.4	86	0.00
6 T	Chloroethane	0.479	0.461	3.8	93	0.00
7 T	Trichlorofluoromethane	1.046	1.056	-1.0	92	0.00
8 T	Diethyl Ether	0.339	0.351	-3.5	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.643	-6.3	96	0.00
10 T	Methyl Iodide	0.745	0.766	-2.8	89	0.00
11 T	Tert butyl alcohol	0.080	0.093	-16.2	99	0.00
12 CM	1,1-Dichloroethene	0.548	0.569	-3.8#	90	0.00
13 T	Acrolein	0.118	0.137	-16.1	91	0.00
14 T	Allyl chloride	0.720	0.716	0.6	87	0.00
15 T	Acrylonitrile	0.259	0.302	-16.6	104	0.00
16 T	Acetone	0.205	0.217	-5.9	99	0.00
17 T	Carbon Disulfide	1.625	1.541	5.2	88	0.00
18 T	Methyl Acetate	0.705	0.776	-10.1	105	0.00
19 T	Methyl tert-butyl Ether	1.629	1.820	-11.7	92	0.00
20 T	Methylene Chloride	0.660	0.670	-1.5	95	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.607	-2.9	93	0.00
22 T	Diisopropyl ether	1.627	1.846	-13.5	94	0.00
23 T	Vinyl Acetate	1.114	1.255	-12.7	94	0.00
24 P	1,1-Dichloroethane	1.106	1.163	-5.2	94	0.00
25 T	2-Butanone	0.302	0.356	-17.9	101	0.01
26 T	2,2-Dichloropropane	0.983	1.016	-3.4	90	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.716	-4.5	91	0.00
28 T	Bromochloromethane	0.454	0.496	-9.3	94	0.00
29 T	Tetrahydrofuran	0.195	0.242	-24.1	104	0.00
30 C	Chloroform	1.156	1.205	-4.2#	94	0.00
31 T	Cyclohexane	0.926	0.906	2.2	88	0.00
32 T	1,1,1-Trichloroethane	1.028	1.063	-3.4	92	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.721	-11.3	99	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35 S	Dibromofluoromethane	0.327	0.384	-17.4	102	0.00
36 T	1,1-Dichloropropene	0.463	0.500	-8.0	92	0.00
37 T	Ethyl Acetate	0.381	0.442	-16.0	99	0.00
38 T	Carbon Tetrachloride	0.550	0.590	-7.3	94	0.00
39 T	Methylcyclohexane	0.455	0.502	-10.3	86	0.00
40 TM	Benzene	1.484	1.612	-8.6	94	0.00
41 T	Methacrylonitrile	0.204	0.238	-16.7	93	0.01
42 TM	1,2-Dichloroethane	0.483	0.508	-5.2	94	0.00
43 T	Isopropyl Acetate	0.807	0.742	8.1	98	0.00
44 TM	Trichloroethene	0.364	0.369	-1.4	92	0.00
45 C	1,2-Dichloropropane	0.358	0.395	-10.3#	96	0.00
46 T	Dibromomethane	0.253	0.278	-9.9	96	0.00
47 T	Bromodichloromethane	0.541	0.579	-7.0	94	0.00
48 T	Methyl methacrylate	0.283	0.340	-20.1	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	0.005	0.007	-40.0#	97	0.00
50 S	Toluene-d8	1.190	1.428	-20.0	100	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.466	-27.0#	104	0.00
52 CM	Toluene	0.870	1.009	-16.0#	94	0.00
53 T	t-1,3-Dichloropropene	0.500	0.566	-13.2	91	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.613	-11.9	91	0.00
55 T	1,1,2-Trichloroethane	0.346	0.386	-11.6	98	0.00
56 T	Ethyl methacrylate	0.434	0.565	-30.2#	96	0.00
57 T	1,3-Dichloropropane	0.577	0.656	-13.7	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.200	-2.6	97	0.00
59 T	2-Hexanone	0.253	0.338	-33.6#	104	0.00
60 T	Dibromochloromethane	0.403	0.459	-13.9	96	0.00
61 T	1,2-Dibromoethane	0.327	0.376	-15.0	99	0.00
62 S	4-Bromofluorobenzene	0.392	0.497	-26.8#	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.387	0.388	-0.3	93	0.00
65 PM	Chlorobenzene	1.145	1.187	-3.7	93	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.441	-7.0	97	0.00
67 C	Ethyl Benzene	1.794	2.058	-14.7#	94	0.00
68 T	m/p-Xylenes	0.682	0.815	-19.5	96	0.00
69 T	o-Xylene	0.648	0.761	-17.4	94	0.00
70 T	Styrene	1.059	1.326	-25.2#	96	0.00
71 P	Bromoform	0.306	0.351	-14.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73 T	Isopropylbenzene	3.425	3.702	-8.1	94	0.00
74 T	N-amyl acetate	1.208	1.320	-9.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.192	-1.1	104	0.00
76 T	1,2,3-Trichloropropane	1.111	1.090	1.9	105	0.00
77 T	Bromobenzene	0.925	0.943	-1.9	95	0.00
78 T	n-propylbenzene	3.923	4.439	-13.2	95	0.00
79 T	2-Chlorotoluene	2.621	2.728	-4.1	95	0.00
80 T	1,3,5-Trimethylbenzene	2.790	3.163	-13.4	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.428	-12.3	99	0.00
82 T	4-Chlorotoluene	2.598	2.782	-7.1	96	0.00
83 T	tert-Butylbenzene	2.346	2.575	-9.8	91	0.00
84 T	1,2,4-Trimethylbenzene	2.761	3.226	-16.8	96	0.00
85 T	sec-Butylbenzene	3.315	3.667	-10.6	92	0.00
86 T	p-Isopropyltoluene	2.665	3.069	-15.2	92	0.00
87 T	1,3-Dichlorobenzene	1.734	1.758	-1.4	98	0.00
88 T	1,4-Dichlorobenzene	1.777	1.724	3.0	96	0.00
89 T	n-Butylbenzene	2.354	2.499	-6.2	90	0.00
90 T	Hexachloroethane	0.628	0.624	0.6	97	0.00
91 T	1,2-Dichlorobenzene	1.667	1.699	-1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.219	-1.4	104	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.808	-1.8	92	0.00
94 T	Hexachlorobutadiene	0.483	0.416	13.9	90	0.00
95 T	Naphthalene	2.181	2.362	-8.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	0.798	0.802	-0.5	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	84	0.00
2 T	Dichlorodifluoromethane	50.000	51.450	-2.9	88	0.00
3 P	Chloromethane	50.000	48.377	3.2	89	0.00
4 C	Vinyl Chloride	50.000	49.740	0.5#	89	0.00
5 T	Bromomethane	50.000	47.274	5.5	86	0.00
6 T	Chloroethane	50.000	48.156	3.7	93	0.00
7 T	Trichlorofluoromethane	50.000	50.459	-0.9	92	0.00
8 T	Diethyl Ether	50.000	51.850	-3.7	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.166	-6.3	96	0.00
10 T	Methyl Iodide	50.000	51.378	-2.8	89	0.00
11 T	Tert butyl alcohol	250.000	290.770	-16.3	99	0.00
12 CM	1,1-Dichloroethene	50.000	51.868	-3.7#	90	0.00
13 T	Acrolein	250.000	289.200	-15.7	91	0.00
14 T	Allyl chloride	50.000	49.710	0.6	87	0.00
15 T	Acrylonitrile	250.000	291.573	-16.6	104	0.00
16 T	Acetone	250.000	264.466	-5.8	99	0.00
17 T	Carbon Disulfide	50.000	47.411	5.2	88	0.00
18 T	Methyl Acetate	50.000	54.962	-9.9	105	0.00
19 T	Methyl tert-butyl Ether	50.000	55.865	-11.7	92	0.00
20 T	Methylene Chloride	50.000	50.760	-1.5	95	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.388	-2.8	93	0.00
22 T	Diisopropyl ether	50.000	56.735	-13.5	94	0.00
23 T	Vinyl Acetate	250.000	281.744	-12.7	94	0.00
24 P	1,1-Dichloroethane	50.000	52.606	-5.2	94	0.00
25 T	2-Butanone	250.000	294.527	-17.8	101	0.01
26 T	2,2-Dichloropropane	50.000	51.672	-3.3	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.265	-4.5	91	0.00
28 T	Bromochloromethane	50.000	54.576	-9.2	94	0.00
29 T	Tetrahydrofuran	250.000	310.939	-24.4	104	0.00
30 C	Chloroform	50.000	52.128	-4.3#	94	0.00
31 T	Cyclohexane	50.000	48.945	2.1	88	0.00
32 T	1,1,1-Trichloroethane	50.000	51.709	-3.4	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	55.639	-11.3	99	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35 S	Dibromofluoromethane	50.000	58.676	-17.4	102	0.00
36 T	1,1-Dichloropropene	50.000	54.037	-8.1	92	0.00
37 T	Ethyl Acetate	50.000	57.974	-15.9	99	0.00
38 T	Carbon Tetrachloride	50.000	53.654	-7.3	94	0.00
39 T	Methylcyclohexane	50.000	55.217	-10.4	86	0.00
40 TM	Benzene	50.000	54.323	-8.6	94	0.00
41 T	Methacrylonitrile	50.000	58.349	-16.7	93	0.01
42 TM	1,2-Dichloroethane	50.000	52.542	-5.1	94	0.00
43 T	Isopropyl Acetate	50.000	55.521	-11.0	98	0.00
44 TM	Trichloroethene	50.000	50.665	-1.3	92	0.00
45 C	1,2-Dichloropropane	50.000	55.144	-10.3#	96	0.00
46 T	Dibromomethane	50.000	54.933	-9.9	96	0.00
47 T	Bromodichloromethane	50.000	53.518	-7.0	94	0.00
48 T	Methyl methacrylate	50.000	60.014	-20.0	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085829.D
 Acq On : 24 Feb 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	1232.633	-23.3	97	0.00
50 S	Toluene-d8	50.000	59.993	-20.0	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	317.207	-26.9#	104	0.00
52 CM	Toluene	50.000	58.015	-16.0#	94	0.00
53 T	t-1,3-Dichloropropene	50.000	56.589	-13.2	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.876	-11.8	91	0.00
55 T	1,1,2-Trichloroethane	50.000	55.813	-11.6	98	0.00
56 T	Ethyl methacrylate	50.000	55.991	-12.0	96	0.00
57 T	1,3-Dichloropropane	50.000	56.820	-13.6	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	255.958	-2.4	97	0.00
59 T	2-Hexanone	250.000	334.610	-33.8#	104	0.00
60 T	Dibromochloromethane	50.000	57.041	-14.1	96	0.00
61 T	1,2-Dibromoethane	50.000	57.568	-15.1	99	0.00
62 S	4-Bromofluorobenzene	50.000	63.323	-26.6#	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	50.032	-0.1	93	0.00
65 PM	Chlorobenzene	50.000	51.832	-3.7	93	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.564	-7.1	97	0.00
67 C	Ethyl Benzene	50.000	57.345	-14.7#	94	0.00
68 T	m/p-Xylenes	100.000	119.597	-19.6	96	0.00
69 T	o-Xylene	50.000	58.731	-17.5	94	0.00
70 T	Styrene	50.000	54.496	-9.0	96	0.00
71 P	Bromoform	50.000	57.401	-14.8	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73 T	Isopropylbenzene	50.000	54.038	-8.1	94	0.00
74 T	N-amyl acetate	50.000	54.632	-9.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.557	-1.1	104	0.00
76 T	1,2,3-Trichloropropane	50.000	49.065	1.9	105	0.00
77 T	Bromobenzene	50.000	50.956	-1.9	95	0.00
78 T	n-propylbenzene	50.000	56.580	-13.2	95	0.00
79 T	2-Chlorotoluene	50.000	52.042	-4.1	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.679	-13.4	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.191	-12.4	99	0.00
82 T	4-Chlorotoluene	50.000	53.531	-7.1	96	0.00
83 T	tert-Butylbenzene	50.000	54.866	-9.7	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.422	-16.8	96	0.00
85 T	sec-Butylbenzene	50.000	55.301	-10.6	92	0.00
86 T	p-Isopropyltoluene	50.000	50.471	-0.9	92	0.00
87 T	1,3-Dichlorobenzene	50.000	50.703	-1.4	98	0.00
88 T	1,4-Dichlorobenzene	50.000	48.492	3.0	96	0.00
89 T	n-Butylbenzene	50.000	53.081	-6.2	90	0.00
90 T	Hexachloroethane	50.000	49.669	0.7	97	0.00
91 T	1,2-Dichlorobenzene	50.000	50.964	-1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.523	-1.0	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.842	-1.7	92	0.00
94 T	Hexachlorobutadiene	50.000	43.061	13.9	90	0.00
95 T	Naphthalene	50.000	54.146	-8.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085829.D
Acq On : 24 Feb 2025 11:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 25 01:49:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	50.288	-0.6	93	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.608		-10.59	20
Chloromethane	0.682	0.586	0.1	-14.08	20
Vinyl Chloride	0.723	0.632		-12.59	20
Bromomethane	0.462	0.373		-19.26	20
Chloroethane	0.479	0.402		-16.08	20
Trichlorofluoromethane	1.046	0.920		-12.05	20
1,1,2-Trichlorotrifluoroethane	0.605	0.565		-6.61	20
1,1-Dichloroethene	0.548	0.491		-10.4	20
Acetone	0.205	0.208		1.46	20
Carbon Disulfide	1.625	1.327		-18.34	20
Methyl tert-butyl Ether	1.629	1.593		-2.21	20
Methyl Acetate	0.705	0.729		3.4	20
Methylene Chloride	0.660	0.599		-9.24	20
trans-1,2-Dichloroethene	0.590	0.532		-9.83	20
1,1-Dichloroethane	1.106	1.018	0.1	-7.96	20
Cyclohexane	0.926	0.766		-17.28	20
2-Butanone	0.302	0.333		10.27	20
Carbon Tetrachloride	0.550	0.525		-4.55	20
cis-1,2-Dichloroethene	0.685	0.621		-9.34	20
Bromochloromethane	0.454	0.518		14.1	20
Chloroform	1.156	1.085		-6.14	20
1,1,1-Trichloroethane	1.028	0.929		-9.63	20
Methylcyclohexane	0.455	0.419		-7.91	20
Benzene	1.484	1.448		-2.43	20
1,2-Dichloroethane	0.483	0.463		-4.14	20
Trichloroethene	0.364	0.326		-10.44	20
1,2-Dichloropropane	0.358	0.359		0.28	20
Bromodichloromethane	0.541	0.535		-1.11	20
4-Methyl-2-Pentanone	0.367	0.450		22.62	20
Toluene	0.870	0.907		4.25	20
t-1,3-Dichloropropene	0.500	0.511		2.2	20
cis-1,3-Dichloropropene	0.548	0.557		1.64	20
1,1,2-Trichloroethane	0.346	0.354		2.31	20
2-Hexanone	0.253	0.331		30.83	20
Dibromochloromethane	0.403	0.420		4.22	20
1,2-Dibromoethane	0.327	0.343		4.89	20
Tetrachloroethene	0.387	0.335		-13.44	20
Chlorobenzene	1.145	1.068	0.3	-6.72	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	1.793		-0.06	20
m/p-Xylenes	0.682	0.728		6.74	20
o-Xylene	0.648	0.671		3.55	20
Styrene	1.059	1.195		12.84	20
Bromoform	0.306	0.321	0.1	4.9	20
Isopropylbenzene	3.425	3.110		-9.2	20
1,1,2,2-Tetrachloroethane	1.179	1.075	0.3	-8.82	20
1,3-Dichlorobenzene	1.734	1.565		-9.75	20
1,4-Dichlorobenzene	1.777	1.541		-13.28	20
1,2-Dichlorobenzene	1.667	1.504		-9.78	20
1,2-Dibromo-3-Chloropropane	0.216	0.197		-8.8	20
1,2,4-Trichlorobenzene	0.794	0.683		-13.98	20
1,2,3-Trichlorobenzene	0.798	0.688		-13.78	20
1,2-Dichloroethane-d4	0.648	0.675		4.17	20
Dibromofluoromethane	0.327	0.368		12.54	20
Toluene-d8	1.190	1.350		13.36	20
4-Bromofluorobenzene	0.392	0.481		22.7	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.223	168	262718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	419879	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	388712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	207967	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	177239	52.037	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.080%			
35) Dibromofluoromethane	8.165	113	154386	56.192	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.380%			
50) Toluene-d8	10.565	98	566626	56.684	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 113.360%#			
62) 4-Bromofluorobenzene	12.847	95	201854	61.288	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 122.580%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159835	44.728	ug/l	98
3) Chloromethane	2.359	50	153932	42.928	ug/l	98
4) Vinyl Chloride	2.512	62	166113	43.752	ug/l	98
5) Bromomethane	2.941	94	98084	40.402	ug/l	92
6) Chloroethane	3.112	64	105722	42.039	ug/l	98
7) Trichlorofluoromethane	3.494	101	241646	43.960	ug/l	97
8) Diethyl Ether	3.959	74	80261	45.126	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	148401	46.704	ug/l	97
10) Methyl Iodide	4.583	142	174011	44.427	ug/l	100
11) Tert butyl alcohol	5.518	59	119139	284.396	ug/l #	87
12) 1,1-Dichloroethene	4.336	96	128962	44.762	ug/l	97
13) Acrolein	4.177	56	151056	243.156	ug/l	96
14) Allyl chloride	5.018	41	162714	43.016	ug/l	97
15) Acrylonitrile	5.718	53	370582	272.112	ug/l	100
16) Acetone	4.424	43	272575	252.915	ug/l	96
17) Carbon Disulfide	4.712	76	348669	40.834	ug/l	98
18) Methyl Acetate	5.024	43	191592	51.685	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	418621	48.897	ug/l	99
20) Methylene Chloride	5.271	84	157268	45.376	ug/l	99
21) trans-1,2-Dichloroethene	5.782	96	139654	45.017	ug/l	94
22) Diisopropyl ether	6.671	45	424561	49.672	ug/l	97
23) Vinyl Acetate	6.600	43	1448528	247.515	ug/l	100
24) 1,1-Dichloroethane	6.571	63	267355	46.014	ug/l	99
25) 2-Butanone	7.482	43	438019	276.257	ug/l	100
26) 2,2-Dichloropropane	7.482	77	234167	45.323	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	163230	45.379	ug/l	98
28) Bromochloromethane	7.812	49	136179	57.024	ug/l	97
29) Tetrahydrofuran	7.835	42	303180	296.115	ug/l	99
30) Chloroform	7.965	83	285082	46.950	ug/l	99
31) Cyclohexane	8.253	56	201261	41.370	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	244012	45.182	ug/l	98
36) 1,1-Dichloropropene	8.371	75	186531	47.971	ug/l	99
37) Ethyl Acetate	7.559	43	181740	56.795	ug/l	99
38) Carbon Tetrachloride	8.359	117	220471	47.719	ug/l	95
39) Methylcyclohexane	9.600	83	175866	46.038	ug/l	97
40) Benzene	8.606	78	607989	48.785	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.776	41	89515	52.329	ug/l	94
42) 1,2-Dichloroethane	8.671	62	194526	47.920	ug/l	99
43) Isopropyl Acetate	8.688	43	282324	50.276	ug/l	98
44) Trichloroethene	9.347	130	137083	44.799	ug/l	98
45) 1,2-Dichloropropane	9.618	63	150940	50.175	ug/l	99
46) Dibromomethane	9.706	93	108020	50.907	ug/l	99
47) Bromodichloromethane	9.888	83	224517	49.456	ug/l	98
48) Methyl methacrylate	9.682	41	132409	55.716	ug/l	97
49) 1,4-Dioxane	9.694	88	55403	1225.957	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	944594	306.170	ug/l	100
52) Toluene	10.629	92	380805	52.126	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	214580	51.116	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	233729	50.775	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	148614	51.165	ug/l	99
56) Ethyl methacrylate	10.870	69	215393	51.398	ug/l	98
57) 1,3-Dichloropropane	11.159	76	251539	51.877	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	594458	329.321	ug/l	99
59) 2-Hexanone	11.194	43	695855	327.856	ug/l	99
60) Dibromochloromethane	11.359	129	176267	52.116	ug/l	99
61) 1,2-Dibromoethane	11.470	107	144225	52.553	ug/l	98
64) Tetrachloroethene	11.100	164	130259	43.256	ug/l	97
65) Chlorobenzene	11.888	112	415060	46.611	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	153492	47.956	ug/l	99
67) Ethyl Benzene	11.964	91	697002	49.968	ug/l	100
68) m/p-Xylenes	12.070	106	565804	106.786	ug/l	98
69) o-Xylene	12.400	106	260682	51.775	ug/l	99
70) Styrene	12.406	104	464389	49.605	ug/l	100
71) Bromoform	12.576	173	124763	52.459	ug/l #	98
73) Isopropylbenzene	12.694	105	646774	45.395	ug/l	99
74) N-amyl acetate	12.494	43	247325	49.225	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	223621	45.611	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	187834m	40.660	ug/l	
77) Bromobenzene	12.982	156	171354	44.516	ug/l	95
78) n-propylbenzene	13.035	91	793863	48.652	ug/l	99
79) 2-Chlorotoluene	13.123	91	492367	45.163	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	570543	49.159	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	88348	55.800	ug/l	88
82) 4-Chlorotoluene	13.217	91	505722	46.792	ug/l	99
83) tert-Butylbenzene	13.435	119	450921	46.202	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	583795	50.841	ug/l	99
85) sec-Butylbenzene	13.617	105	651555	47.250	ug/l	99
86) p-Isopropyltoluene	13.729	119	547850	43.863	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	325569	45.144	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	320502	43.360	ug/l	99
89) n-Butylbenzene	14.053	91	440169	44.959	ug/l	98
90) Hexachloroethane	14.329	117	113955	43.635	ug/l	97
91) 1,2-Dichlorobenzene	14.105	146	312755	45.098	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40909	45.439	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	142134	43.011	ug/l	99
94) Hexachlorobutadiene	15.499	225	75850	37.768	ug/l	99
95) Naphthalene	15.641	128	419862	46.279	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	143174	43.157	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085847.D
Acq On : 25 Feb 2025 10:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 03:41:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/26/2025

Supervised By :Mahesh Dadoda 02/26/2025

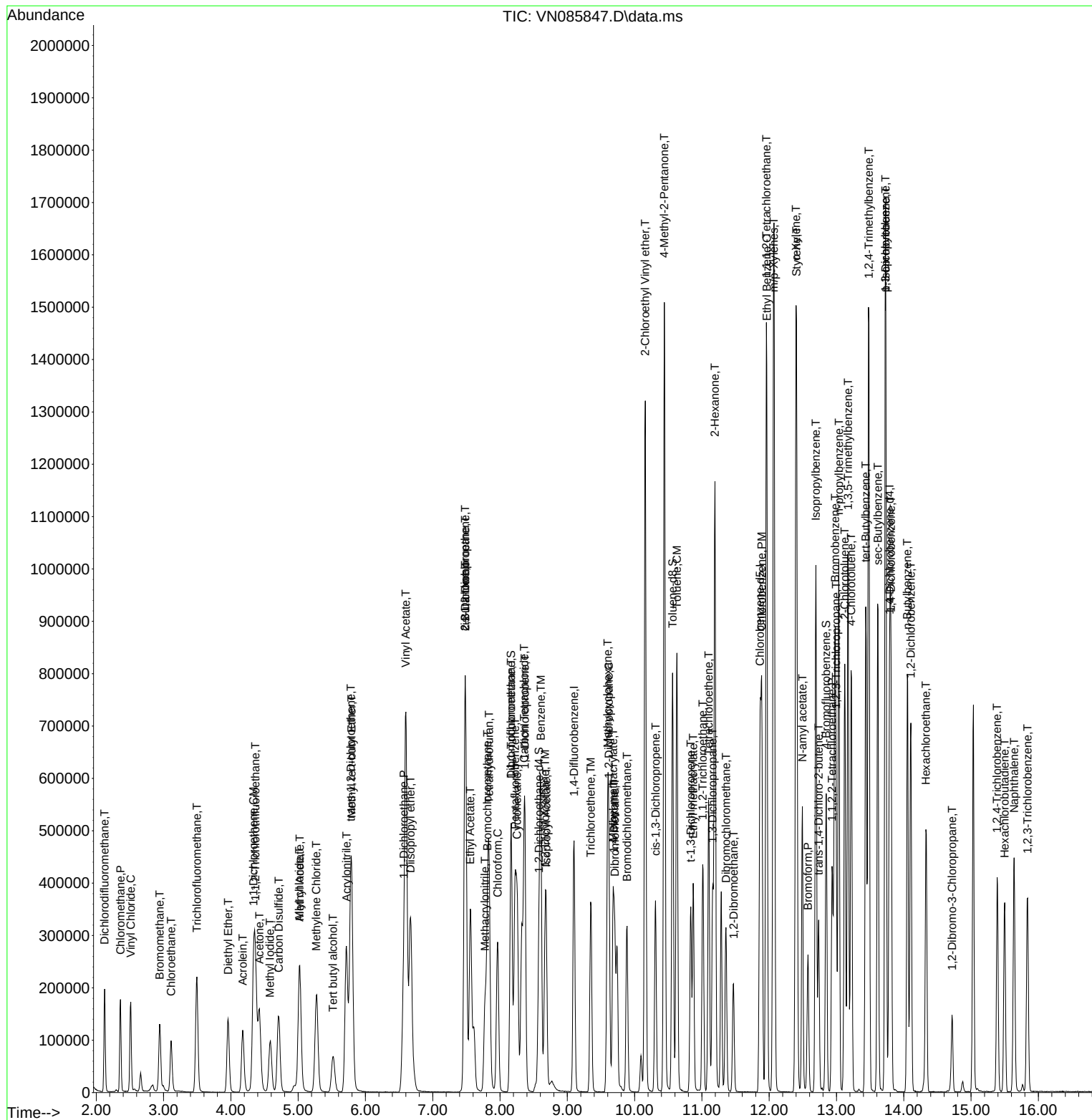
Quant Time: Feb 26 03:41:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:43:32 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	81	0.00
2 T	Dichlorodifluoromethane	0.680	0.608	10.6	74	0.00
3 P	Chloromethane	0.682	0.586	14.1	77	0.00
4 C	Vinyl Chloride	0.723	0.632	12.6#	76	0.00
5 T	Bromomethane	0.462	0.373	19.3	72	-0.01
6 T	Chloroethane	0.479	0.402	16.1	79	-0.01
7 T	Trichlorofluoromethane	1.046	0.920	12.0	78	0.00
8 T	Diethyl Ether	0.339	0.306	9.7	75	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.565	6.6	82	0.00
10 T	Methyl Iodide	0.745	0.662	11.1	75	0.00
11 T	Tert butyl alcohol	0.080	0.091	-13.7	94	0.01
12 CM	1,1-Dichloroethene	0.548	0.491	10.4#	76	0.00
13 T	Acrolein	0.118	0.115	2.5	74	0.00
14 T	Allyl chloride	0.720	0.619	14.0	73	0.00
15 T	Acrylonitrile	0.259	0.282	-8.9	94	0.00
16 T	Acetone	0.205	0.208	-1.5	92	0.00
17 T	Carbon Disulfide	1.625	1.327	18.3	73	0.00
18 T	Methyl Acetate	0.705	0.729	-3.4	96	0.00
19 T	Methyl tert-butyl Ether	1.629	1.593	2.2	78	0.00
20 T	Methylene Chloride	0.660	0.599	9.2	82	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.532	9.8	79	0.00
22 T	Diisopropyl ether	1.627	1.616	0.7	80	0.00
23 T	Vinyl Acetate	1.114	1.103	1.0	80	0.00
24 P	1,1-Dichloroethane	1.106	1.018	8.0	80	0.00
25 T	2-Butanone	0.302	0.333	-10.3	92	0.01
26 T	2,2-Dichloropropane	0.983	0.891	9.4	77	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.621	9.3	77	0.00
28 T	Bromochloromethane	0.454	0.518	-14.1	95	0.00
29 T	Tetrahydrofuran	0.195	0.231	-18.5	96	0.00
30 C	Chloroform	1.156	1.085	6.1#	83	0.00
31 T	Cyclohexane	0.926	0.766	17.3	73	0.00
32 T	1,1,1-Trichloroethane	1.028	0.929	9.6	78	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.675	-4.2	90	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
35 S	Dibromofluoromethane	0.327	0.368	-12.5	92	0.00
36 T	1,1-Dichloropropene	0.463	0.444	4.1	77	0.00
37 T	Ethyl Acetate	0.381	0.433	-13.6	92	0.00
38 T	Carbon Tetrachloride	0.550	0.525	4.5	79	0.00
39 T	Methylcyclohexane	0.455	0.419	7.9	68	0.00
40 TM	Benzene	1.484	1.448	2.4	80	0.00
41 T	Methacrylonitrile	0.204	0.213	-4.4	79	0.01
42 TM	1,2-Dichloroethane	0.483	0.463	4.1	81	0.00
43 T	Isopropyl Acetate	0.807	0.672	16.7	84	0.00
44 TM	Trichloroethene	0.364	0.326	10.4	77	0.00
45 C	1,2-Dichloropropane	0.358	0.359	-0.3#	83	0.00
46 T	Dibromomethane	0.253	0.257	-1.6	84	0.00
47 T	Bromodichloromethane	0.541	0.535	1.1	82	0.00
48 T	Methyl methacrylate	0.283	0.315	-11.3	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	0.005	0.007	-40.0#	91	0.00
50 S	Toluene-d8	1.190	1.349	-13.4	90	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.450	-22.6	95	0.00
52 CM	Toluene	0.870	0.907	-4.3#	80	0.00
53 T	t-1,3-Dichloropropene	0.500	0.511	-2.2	78	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.557	-1.6	78	0.00
55 T	1,1,2-Trichloroethane	0.346	0.354	-2.3	85	0.00
56 T	Ethyl methacrylate	0.434	0.513	-18.2	82	0.00
57 T	1,3-Dichloropropane	0.577	0.599	-3.8	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.283	-45.1#	130	0.00
59 T	2-Hexanone	0.253	0.331	-30.8#	97	0.00
60 T	Dibromochloromethane	0.403	0.420	-4.2	83	0.00
61 T	1,2-Dibromoethane	0.327	0.343	-4.9	85	0.00
62 S	4-Bromofluorobenzene	0.392	0.481	-22.7	91	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64 T	Tetrachloroethene	0.387	0.335	13.4	78	0.00
65 PM	Chlorobenzene	1.145	1.068	6.7	81	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.395	4.1	84	0.00
67 C	Ethyl Benzene	1.794	1.793	0.1#	79	0.00
68 T	m/p-Xylenes	0.682	0.728	-6.7	83	0.00
69 T	o-Xylene	0.648	0.671	-3.5	80	0.00
70 T	Styrene	1.059	1.195	-12.8	84	0.00
71 P	Bromoform	0.306	0.321	-4.9	89	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.425	3.110	9.2	79	0.00
74 T	N-amyl acetate	1.208	1.189	1.6	88	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.075	8.8	93	0.00
76 T	1,2,3-Trichloropropane	1.111	0.903	18.7	87	0.00
77 T	Bromobenzene	0.925	0.824	10.9	83	0.00
78 T	n-propylbenzene	3.923	3.817	2.7	82	0.00
79 T	2-Chlorotoluene	2.621	2.368	9.7	83	0.00
80 T	1,3,5-Trimethylbenzene	2.790	2.743	1.7	82	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.425	-11.5	98	0.00
82 T	4-Chlorotoluene	2.598	2.432	6.4	84	0.00
83 T	tert-Butylbenzene	2.346	2.168	7.6	77	0.00
84 T	1,2,4-Trimethylbenzene	2.761	2.807	-1.7	83	0.00
85 T	sec-Butylbenzene	3.315	3.133	5.5	78	0.00
86 T	p-Isopropyltoluene	2.665	2.634	1.2	79	0.00
87 T	1,3-Dichlorobenzene	1.734	1.565	9.7	88	0.00
88 T	1,4-Dichlorobenzene	1.777	1.541	13.3	86	0.00
89 T	n-Butylbenzene	2.354	2.117	10.1	76	0.00
90 T	Hexachloroethane	0.628	0.548	12.7	85	0.00
91 T	1,2-Dichlorobenzene	1.667	1.504	9.8	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.197	8.8	93	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.683	14.0	78	0.00
94 T	Hexachlorobutadiene	0.483	0.365	24.4	79	0.00
95 T	Naphthalene	2.181	2.019	7.4	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085847.D
Acq On : 25 Feb 2025 10:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	0.798	0.688	13.8	80	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	81	0.00
2 T	Dichlorodifluoromethane	50.000	44.728	10.5	74	0.00
3 P	Chloromethane	50.000	42.928	14.1	77	0.00
4 C	Vinyl Chloride	50.000	43.752	12.5#	76	0.00
5 T	Bromomethane	50.000	40.402	19.2	72	-0.01
6 T	Chloroethane	50.000	42.039	15.9	79	-0.01
7 T	Trichlorofluoromethane	50.000	43.960	12.1	78	0.00
8 T	Diethyl Ether	50.000	45.126	9.7	75	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.704	6.6	82	0.00
10 T	Methyl Iodide	50.000	44.427	11.1	75	0.00
11 T	Tert butyl alcohol	250.000	284.396	-13.8	94	0.01
12 CM	1,1-Dichloroethene	50.000	44.762	10.5#	76	0.00
13 T	Acrolein	250.000	243.156	2.7	74	0.00
14 T	Allyl chloride	50.000	43.016	14.0	73	0.00
15 T	Acrylonitrile	250.000	272.112	-8.8	94	0.00
16 T	Acetone	250.000	252.915	-1.2	92	0.00
17 T	Carbon Disulfide	50.000	40.834	18.3	73	0.00
18 T	Methyl Acetate	50.000	51.685	-3.4	96	0.00
19 T	Methyl tert-butyl Ether	50.000	48.897	2.2	78	0.00
20 T	Methylene Chloride	50.000	45.376	9.2	82	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.017	10.0	79	0.00
22 T	Diisopropyl ether	50.000	49.672	0.7	80	0.00
23 T	Vinyl Acetate	250.000	247.515	1.0	80	0.00
24 P	1,1-Dichloroethane	50.000	46.014	8.0	80	0.00
25 T	2-Butanone	250.000	276.257	-10.5	92	0.01
26 T	2,2-Dichloropropane	50.000	45.323	9.4	77	0.00
27 T	cis-1,2-Dichloroethene	50.000	45.379	9.2	77	0.00
28 T	Bromochloromethane	50.000	57.024	-14.0	95	0.00
29 T	Tetrahydrofuran	250.000	296.115	-18.4	96	0.00
30 C	Chloroform	50.000	46.950	6.1#	83	0.00
31 T	Cyclohexane	50.000	41.370	17.3	73	0.00
32 T	1,1,1-Trichloroethane	50.000	45.182	9.6	78	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.037	-4.1	90	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	80	0.00
35 S	Dibromofluoromethane	50.000	56.192	-12.4	92	0.00
36 T	1,1-Dichloropropene	50.000	47.971	4.1	77	0.00
37 T	Ethyl Acetate	50.000	56.795	-13.6	92	0.00
38 T	Carbon Tetrachloride	50.000	47.719	4.6	79	0.00
39 T	Methylcyclohexane	50.000	46.038	7.9	68	0.00
40 TM	Benzene	50.000	48.785	2.4	80	0.00
41 T	Methacrylonitrile	50.000	52.329	-4.7	79	0.01
42 TM	1,2-Dichloroethane	50.000	47.920	4.2	81	0.00
43 T	Isopropyl Acetate	50.000	50.276	-0.6	84	0.00
44 TM	Trichloroethene	50.000	44.799	10.4	77	0.00
45 C	1,2-Dichloropropane	50.000	50.175	-0.3#	83	0.00
46 T	Dibromomethane	50.000	50.907	-1.8	84	0.00
47 T	Bromodichloromethane	50.000	49.456	1.1	82	0.00
48 T	Methyl methacrylate	50.000	55.716	-11.4	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085847.D
 Acq On : 25 Feb 2025 10:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 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	1225.957	-22.6	91	0.00
50 S	Toluene-d8	50.000	56.684	-13.4	90	0.00
51 T	4-Methyl-2-Pentanone	250.000	306.170	-22.5	95	0.00
52 CM	Toluene	50.000	52.126	-4.3#	80	0.00
53 T	t-1,3-Dichloropropene	50.000	51.116	-2.2	78	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.775	-1.5	78	0.00
55 T	1,1,2-Trichloroethane	50.000	51.165	-2.3	85	0.00
56 T	Ethyl methacrylate	50.000	51.398	-2.8	82	0.00
57 T	1,3-Dichloropropane	50.000	51.877	-3.8	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	329.321	-31.7#	130	0.00
59 T	2-Hexanone	250.000	327.856	-31.1#	97	0.00
60 T	Dibromochloromethane	50.000	52.116	-4.2	83	0.00
61 T	1,2-Dibromoethane	50.000	52.553	-5.1	85	0.00
62 S	4-Bromofluorobenzene	50.000	61.288	-22.6	91	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64 T	Tetrachloroethene	50.000	43.256	13.5	78	0.00
65 PM	Chlorobenzene	50.000	46.611	6.8	81	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.956	4.1	84	0.00
67 C	Ethyl Benzene	50.000	49.968	0.1#	79	0.00
68 T	m/p-Xylenes	100.000	106.786	-6.8	83	0.00
69 T	o-Xylene	50.000	51.775	-3.5	80	0.00
70 T	Styrene	50.000	49.605	0.8	84	0.00
71 P	Bromoform	50.000	52.459	-4.9	89	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	45.395	9.2	79	0.00
74 T	N-amyl acetate	50.000	49.225	1.5	88	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.611	8.8	93	0.00
76 T	1,2,3-Trichloropropane	50.000	40.660	18.7	87	0.00
77 T	Bromobenzene	50.000	44.516	11.0	83	0.00
78 T	n-propylbenzene	50.000	48.652	2.7	82	0.00
79 T	2-Chlorotoluene	50.000	45.163	9.7	83	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.159	1.7	82	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.800	-11.6	98	0.00
82 T	4-Chlorotoluene	50.000	46.792	6.4	84	0.00
83 T	tert-Butylbenzene	50.000	46.202	7.6	77	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.841	-1.7	83	0.00
85 T	sec-Butylbenzene	50.000	47.250	5.5	78	0.00
86 T	p-Isopropyltoluene	50.000	43.863	12.3	79	0.00
87 T	1,3-Dichlorobenzene	50.000	45.144	9.7	88	0.00
88 T	1,4-Dichlorobenzene	50.000	43.360	13.3	86	0.00
89 T	n-Butylbenzene	50.000	44.959	10.1	76	0.00
90 T	Hexachloroethane	50.000	43.635	12.7	85	0.00
91 T	1,2-Dichlorobenzene	50.000	45.098	9.8	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.439	9.1	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	43.011	14.0	78	0.00
94 T	Hexachlorobutadiene	50.000	37.768	24.5	79	0.00
95 T	Naphthalene	50.000	46.279	7.4	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085847.D
Acq On : 25 Feb 2025 10:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 26 03:41:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 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	43.157	13.7	80	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.442		-6.75	20
Chloromethane	0.612	0.581	0.1	-5.07	20
Vinyl Chloride	0.601	0.586		-2.5	20
Bromomethane	0.399	0.370		-7.27	20
Chloroethane	0.373	0.363		-2.68	20
Trichlorofluoromethane	0.908	0.866		-4.63	20
1,1,2-Trichlorotrifluoroethane	0.525	0.496		-5.52	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.113		3.67	20
Carbon Disulfide	1.671	1.628		-2.57	20
Methyl tert-butyl Ether	1.329	1.308		-1.58	20
Methyl Acetate	0.266	0.257		-3.38	20
Methylene Chloride	0.588	0.533		-9.35	20
trans-1,2-Dichloroethene	0.554	0.540		-2.53	20
1,1-Dichloroethane	1.040	1.021	0.1	-1.83	20
Cyclohexane	1.000	0.922		-7.8	20
2-Butanone	0.164	0.162		-1.22	20
Carbon Tetrachloride	0.554	0.536		-3.25	20
cis-1,2-Dichloroethene	0.632	0.633		0.16	20
Bromochloromethane	0.460	0.435		-5.43	20
Chloroform	1.054	1.038		-1.52	20
1,1,1-Trichloroethane	0.960	0.936		-2.5	20
Methylcyclohexane	0.623	0.578		-7.22	20
Benzene	1.456	1.415		-2.82	20
1,2-Dichloroethane	0.413	0.396		-4.12	20
Trichloroethene	0.364	0.355		-2.47	20
1,2-Dichloropropane	0.350	0.341		-2.57	20
Bromodichloromethane	0.511	0.494		-3.33	20
4-Methyl-2-Pentanone	0.243	0.234		-3.7	20
Toluene	0.904	0.892		-1.33	20
t-1,3-Dichloropropene	0.468	0.468		0	20
cis-1,3-Dichloropropene	0.552	0.543		-1.63	20
1,1,2-Trichloroethane	0.249	0.236		-5.22	20
2-Hexanone	0.159	0.159		0	20
Dibromochloromethane	0.340	0.332		-2.35	20
1,2-Dibromoethane	0.236	0.224		-5.09	20
Tetrachloroethene	0.378	0.359		-5.03	20
Chlorobenzene	1.122	1.091	0.3	-2.76	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.972		-0.81	20
m/p-Xylenes	0.748	0.735		-1.74	20
o-Xylene	0.701	0.696		-0.71	20
Styrene	1.166	1.176		0.86	20
Bromoform	0.225	0.217	0.1	-3.56	20
Isopropylbenzene	3.759	3.742		-0.45	20
1,1,2,2-Tetrachloroethane	0.663	0.639	0.3	-3.62	20
1,3-Dichlorobenzene	1.730	1.676		-3.12	20
1,4-Dichlorobenzene	1.709	1.633		-4.45	20
1,2-Dichlorobenzene	1.515	1.469		-3.04	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.884		-4.43	20
1,2,3-Trichlorobenzene	0.781	0.747		-4.35	20
1,2-Dichloroethane-d4	0.567	0.544		-4.06	20
Dibromofluoromethane	0.328	0.320		-2.44	20
Toluene-d8	1.267	1.257		-0.79	20
4-Bromofluorobenzene	0.426	0.420		-1.41	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\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	193888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	308714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	268805	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	131935	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	105547	47.987	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.980%		
35) Dibromofluoromethane	7.634	113	98654	48.743	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.480%		
50) Toluene-d8	10.109	98	387966	49.599	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.200%		
62) 4-Bromofluorobenzene	12.408	95	129754	49.290	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	98.580%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	85738	46.640	ug/l	96
3) Chloromethane	2.068	50	112705	47.473	ug/l	98
4) Vinyl Chloride	2.202	62	113710	48.798	ug/l	98
5) Bromomethane	2.598	94	71789	46.361	ug/l	99
6) Chloroethane	2.739	64	70476	48.772	ug/l	99
7) Trichlorofluoromethane	3.062	101	167868	47.701	ug/l	96
8) Diethyl Ether	3.452	74	52323	49.537	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	96104	47.169	ug/l	99
10) Methyl Iodide	4.007	142	111918	52.212	ug/l	99
11) Tert butyl alcohol	4.854	59	34212	202.221	ug/l	98
12) 1,1-Dichloroethene	3.793	96	94447	48.413	ug/l	99
13) Acrolein	3.653	56	5526	42.624	ug/l	99
14) Allyl chloride	4.385	41	173778	50.242	ug/l	98
15) Acrylonitrile	5.061	53	112963	241.892	ug/l	99
16) Acetone	3.867	43	109810	260.267	ug/l	100
17) Carbon Disulfide	4.110	76	315561	48.712	ug/l	100
18) Methyl Acetate	4.385	43	49846	48.342	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	253623	49.206	ug/l	99
20) Methylene Chloride	4.616	84	103268	45.263	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	104607	48.708	ug/l	99
22) Diisopropyl ether	6.019	45	361038	50.442	ug/l	98
23) Vinyl Acetate	5.958	43	1065848	249.197	ug/l	99
24) 1,1-Dichloroethane	5.915	63	197949	49.069	ug/l	98
25) 2-Butanone	6.890	43	157281	246.999	ug/l	98
26) 2,2-Dichloropropane	6.890	77	180065	49.191	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	122751	50.053	ug/l	99
28) Bromochloromethane	7.244	49	84337	47.247	ug/l	98
29) Tetrahydrofuran	7.262	42	99242	238.435	ug/l	100
30) Chloroform	7.421	83	201334	49.253	ug/l	99
31) Cyclohexane	7.701	56	178746	46.094	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	181553	48.795	ug/l	98
36) 1,1-Dichloropropene	7.835	75	146702	48.254	ug/l	100
37) Ethyl Acetate	6.982	43	72710	48.080	ug/l	100
38) Carbon Tetrachloride	7.817	117	165430	48.402	ug/l	98
39) Methylcyclohexane	9.109	83	178508	46.422	ug/l	97
40) Benzene	8.079	78	436709	48.593	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:33:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M

Quant Title : SW846 8260

QLast Update : Wed Feb 26 02:09:13 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	36160	42.766	ug/l	91
42) 1,2-Dichloroethane	8.158	62	122335	47.978	ug/l	99
43) Isopropyl Acetate	8.195	43	140455	47.984	ug/l	99
44) Trichloroethene	8.866	130	109499	48.665	ug/l	100
45) 1,2-Dichloropropane	9.140	63	105190	48.637	ug/l	100
46) Dibromomethane	9.231	93	56977	48.195	ug/l	99
47) Bromodichloromethane	9.427	83	152416	48.352	ug/l	99
48) Methyl methacrylate	9.219	41	66362	48.481	ug/l	98
49) 1,4-Dioxane	9.231	88	12417	944.605	ug/l	95
51) 4-Methyl-2-Pentanone	10.000	43	360891	240.853	ug/l	100
52) Toluene	10.170	92	275527	49.351	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	144366	49.988	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	167718	49.192	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	72899	47.334	ug/l	98
56) Ethyl methacrylate	10.439	69	108485	50.979	ug/l	100
57) 1,3-Dichloropropane	10.719	76	132919	49.183	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	239640	234.614	ug/l	100
59) 2-Hexanone	10.762	43	245501	249.476	ug/l	99
60) Dibromochloromethane	10.908	129	102499	48.867	ug/l	100
61) 1,2-Dibromoethane	11.018	107	69304	47.532	ug/l	98
64) Tetrachloroethene	10.646	164	96416	47.455	ug/l	98
65) Chlorobenzene	11.444	112	293397	48.625	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	104152	49.295	ug/l	100
67) Ethyl Benzene	11.518	91	530215	49.609	ug/l	99
68) m/p-Xylenes	11.627	106	395166	98.298	ug/l	99
69) o-Xylene	11.957	106	187084	49.676	ug/l	98
70) Styrene	11.969	104	316002	50.431	ug/l	100
71) Bromoform	12.133	173	58316	48.247	ug/l #	99
73) Isopropylbenzene	12.255	105	493694	49.774	ug/l	99
74) N-amyl acetate	12.072	43	128988	51.162	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	84288	48.150	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	52897m	40.055	ug/l	
77) Bromobenzene	12.536	156	114266	49.529	ug/l	99
78) n-propylbenzene	12.597	91	595911	49.510	ug/l	100
79) 2-Chlorotoluene	12.682	91	339722	49.181	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	403527	49.604	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	29544	49.724	ug/l	99
82) 4-Chlorotoluene	12.780	91	353786	49.408	ug/l	99
83) tert-Butylbenzene	12.999	119	358344	48.765	ug/l	100
84) 1,2,4-Trimethylbenzene	13.048	105	403288	49.846	ug/l	100
85) sec-Butylbenzene	13.176	105	515970	48.069	ug/l	100
86) p-Isopropyltoluene	13.292	119	435539	48.594	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	221110	48.450	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	215487	47.797	ug/l	100
89) n-Butylbenzene	13.621	91	408995	48.491	ug/l	100
90) Hexachloroethane	13.883	117	88564	47.306	ug/l	100
91) 1,2-Dichlorobenzene	13.664	146	193750	48.457	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	13100	47.306	ug/l	97
93) 1,2,4-Trichlorobenzene	14.926	180	116572	47.769	ug/l	99
94) Hexachlorobutadiene	15.029	225	70063	45.603	ug/l	99
95) Naphthalene	15.145	128	205892	50.937	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	98515	47.779	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021320.D
Acq On : 26 Feb 2025 10:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:33:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

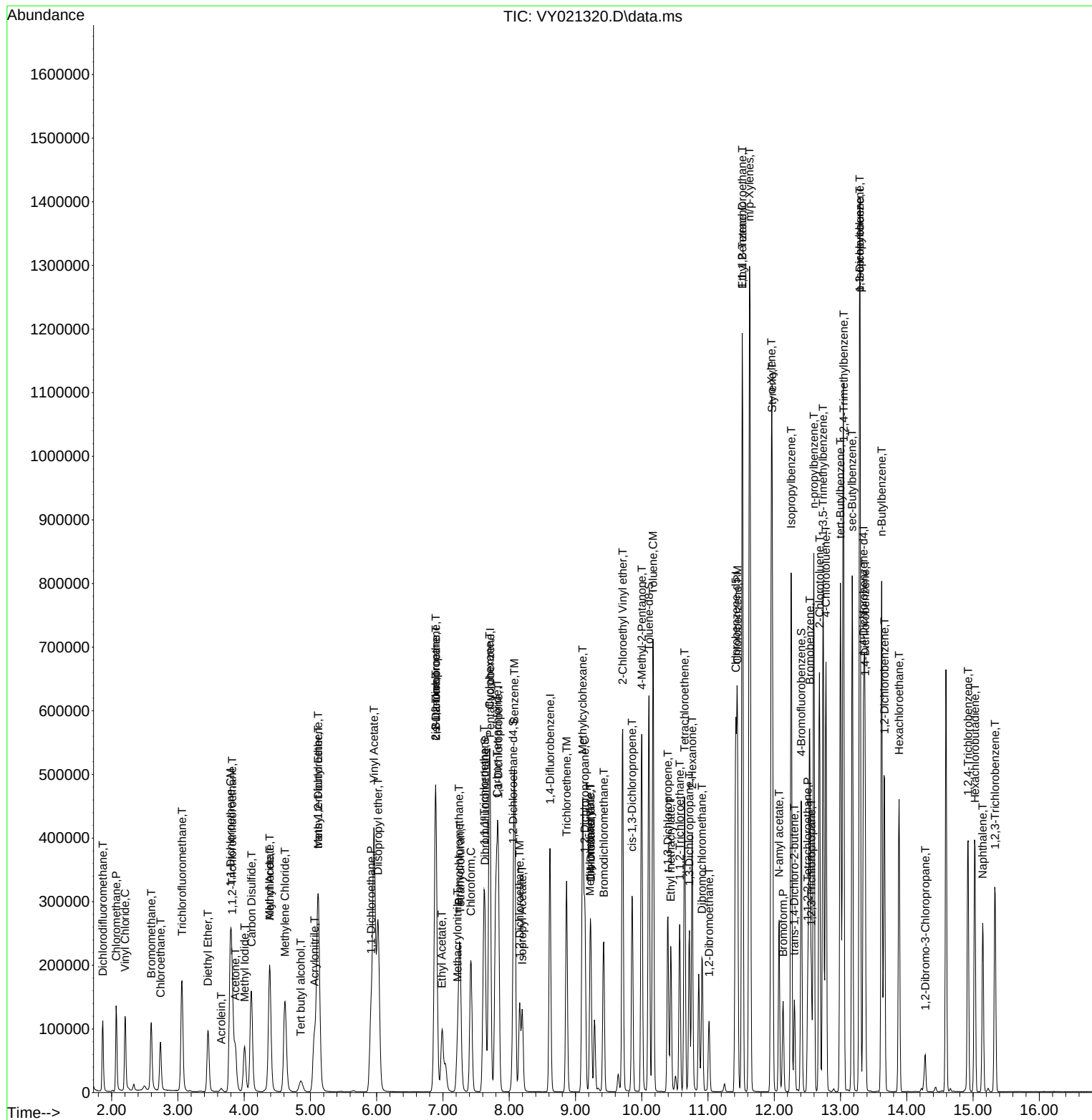
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021320.D
Acq On : 26 Feb 2025 10:11
Operator : SY/MD
Sample : VSTDC0050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:33:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	111	0.00
2 T	Dichlorodifluoromethane	0.474	0.442	6.8	99	0.00
3 P	Chloromethane	0.612	0.581	5.1	107	0.00
4 C	Vinyl Chloride	0.601	0.586	2.5#	103	0.00
5 T	Bromomethane	0.399	0.370	7.3	106	0.00
6 T	Chloroethane	0.373	0.363	2.7	103	0.00
7 T	Trichlorofluoromethane	0.908	0.866	4.6	102	0.00
8 T	Diethyl Ether	0.272	0.270	0.7	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.525	0.496	5.5	102	0.00
10 T	Methyl Iodide	0.553	0.577	-4.3	100	0.00
11 T	Tert butyl alcohol	0.044	0.035	20.5	97	0.00
12 CM	1,1-Dichloroethene	0.503	0.487	3.2#	104	0.00
13 T	Acrolein	0.033	0.006	81.8#	94	0.00
14 T	Allyl chloride	0.892	0.896	-0.4	107	0.00
15 T	Acrylonitrile	0.120	0.117	2.5	101	0.00
16 T	Acetone	0.109	0.113	-3.7	98	0.00
17 T	Carbon Disulfide	1.671	1.628	2.6	104	0.00
18 T	Methyl Acetate	0.266	0.257	3.4	103	0.00
19 T	Methyl tert-butyl Ether	1.329	1.308	1.6	103	0.00
20 T	Methylene Chloride	0.588	0.533	9.4	101	0.00
21 T	trans-1,2-Dichloroethene	0.554	0.540	2.5	104	0.00
22 T	Diisopropyl ether	1.846	1.862	-0.9	105	0.00
23 T	Vinyl Acetate	1.103	1.099	0.4	102	0.00
24 P	1,1-Dichloroethane	1.040	1.021	1.8	104	0.00
25 T	2-Butanone	0.164	0.162	1.2	98	0.00
26 T	2,2-Dichloropropane	0.944	0.929	1.6	106	0.00
27 T	cis-1,2-Dichloroethene	0.632	0.633	-0.2	105	0.00
28 T	Bromochloromethane	0.460	0.435	5.4	106	0.00
29 T	Tetrahydrofuran	0.107	0.102	4.7	99	0.00
30 C	Chloroform	1.054	1.038	1.5#	105	0.00
31 T	Cyclohexane	1.000	0.922	7.8	103	0.00
32 T	1,1,1-Trichloroethane	0.960	0.936	2.5	105	0.00
33 S	1,2-Dichloroethane-d4	0.567	0.544	4.1	109	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	113	0.00
35 S	Dibromofluoromethane	0.328	0.320	2.4	111	0.00
36 T	1,1-Dichloropropene	0.492	0.475	3.5	104	0.00
37 T	Ethyl Acetate	0.245	0.236	3.7	104	0.00
38 T	Carbon Tetrachloride	0.554	0.536	3.2	104	0.00
39 T	Methylcyclohexane	0.623	0.578	7.2	99	0.00
40 TM	Benzene	1.456	1.415	2.8	105	0.00
41 T	Methacrylonitrile	0.137	0.117	14.6	90	0.00
42 TM	1,2-Dichloroethane	0.413	0.396	4.1	104	0.00
43 T	Isopropyl Acetate	0.474	0.455	4.0	100	0.00
44 TM	Trichloroethene	0.364	0.355	2.5	105	0.00
45 C	1,2-Dichloropropane	0.350	0.341	2.6#	104	0.00
46 T	Dibromomethane	0.191	0.185	3.1	103	0.00
47 T	Bromodichloromethane	0.511	0.494	3.3	103	0.00
48 T	Methyl methacrylate	0.222	0.215	3.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	102	0.00
50 S	Toluene-d8	1.267	1.257	0.8	114	0.00
51 T	4-Methyl-2-Pentanone	0.243	0.234	3.7	99	0.00
52 CM	Toluene	0.904	0.892	1.3#	105	0.00
53 T	t-1,3-Dichloropropene	0.468	0.468	0.0	103	0.00
54 T	cis-1,3-Dichloropropene	0.552	0.543	1.6	104	0.00
55 T	1,1,2-Trichloroethane	0.249	0.236	5.2	100	0.00
56 T	Ethyl methacrylate	0.345	0.351	-1.7	101	0.00
57 T	1,3-Dichloropropane	0.438	0.431	1.6	104	0.00
58 T	2-Chloroethyl Vinyl ether	0.165	0.155	6.1	92	0.00
59 T	2-Hexanone	0.159	0.159	0.0	98	0.00
60 T	Dibromochloromethane	0.340	0.332	2.4	102	0.00
61 T	1,2-Dibromoethane	0.236	0.224	5.1	100	0.00
62 S	4-Bromofluorobenzene	0.426	0.420	1.4	112	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
64 T	Tetrachloroethene	0.378	0.359	5.0	103	0.00
65 PM	Chlorobenzene	1.122	1.091	2.8	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.393	0.387	1.5	105	0.00
67 C	Ethyl Benzene	1.988	1.972	0.8#	104	0.00
68 T	m/p-Xylenes	0.748	0.735	1.7	103	0.00
69 T	o-Xylene	0.701	0.696	0.7	103	0.00
70 T	Styrene	1.166	1.176	-0.9	103	0.00
71 P	Bromoform	0.225	0.217	3.6	99	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.759	3.742	0.5	102	0.00
74 T	N-ethyl acetate	0.955	0.978	-2.4	100	0.00
75 P	1,1,2,2-Tetrachloroethane	0.663	0.639	3.6	99	0.00
76 T	1,2,3-Trichloropropane	0.500	0.401	19.8	83	0.00
77 T	Bromobenzene	0.874	0.866	0.9	103	0.00
78 T	n-propylbenzene	4.561	4.517	1.0	101	0.00
79 T	2-Chlorotoluene	2.618	2.575	1.6	103	0.00
80 T	1,3,5-Trimethylbenzene	3.083	3.059	0.8	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.225	0.224	0.4	100	0.00
82 T	4-Chlorotoluene	2.714	2.682	1.2	103	0.00
83 T	tert-Butylbenzene	2.785	2.716	2.5	102	0.00
84 T	1,2,4-Trimethylbenzene	3.066	3.057	0.3	102	0.00
85 T	sec-Butylbenzene	4.068	3.911	3.9	100	0.00
86 T	p-Isopropyltoluene	3.397	3.301	2.8	100	0.00
87 T	1,3-Dichlorobenzene	1.730	1.676	3.1	101	0.00
88 T	1,4-Dichlorobenzene	1.709	1.633	4.4	101	0.00
89 T	n-Butylbenzene	3.196	3.100	3.0	98	0.00
90 T	Hexachloroethane	0.710	0.671	5.5	101	0.00
91 T	1,2-Dichlorobenzene	1.515	1.469	3.0	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.105	0.099	5.7	95	0.00
93 T	1,2,4-Trichlorobenzene	0.925	0.884	4.4	99	0.00
94 T	Hexachlorobutadiene	0.582	0.531	8.8	97	0.00
95 T	Naphthalene	1.532	1.561	-1.9	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021320.D
Acq On : 26 Feb 2025 10:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.781	0.747	4.4	98	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	111	0.00
2 T	Dichlorodifluoromethane	50.000	46.640	6.7	99	0.00
3 P	Chloromethane	50.000	47.473	5.1	107	0.00
4 C	Vinyl Chloride	50.000	48.798	2.4#	103	0.00
5 T	Bromomethane	50.000	46.361	7.3	106	0.00
6 T	Chloroethane	50.000	48.772	2.5	103	0.00
7 T	Trichlorofluoromethane	50.000	47.701	4.6	102	0.00
8 T	Diethyl Ether	50.000	49.537	0.9	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.169	5.7	102	0.00
10 T	Methyl Iodide	50.000	52.212	-4.4	100	0.00
11 T	Tert butyl alcohol	250.000	202.221	19.1	97	0.00
12 CM	1,1-Dichloroethene	50.000	48.413	3.2#	104	0.00
13 T	Acrolein	250.000	42.624	83.0#	94	0.00
14 T	Allyl chloride	50.000	50.242	-0.5	107	0.00
15 T	Acrylonitrile	250.000	241.892	3.2	101	0.00
16 T	Acetone	250.000	260.267	-4.1	98	0.00
17 T	Carbon Disulfide	50.000	48.712	2.6	104	0.00
18 T	Methyl Acetate	50.000	48.342	3.3	103	0.00
19 T	Methyl tert-butyl Ether	50.000	49.206	1.6	103	0.00
20 T	Methylene Chloride	50.000	45.263	9.5	101	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.708	2.6	104	0.00
22 T	Diisopropyl ether	50.000	50.442	-0.9	105	0.00
23 T	Vinyl Acetate	250.000	249.197	0.3	102	0.00
24 P	1,1-Dichloroethane	50.000	49.069	1.9	104	0.00
25 T	2-Butanone	250.000	246.999	1.2	98	0.00
26 T	2,2-Dichloropropane	50.000	49.191	1.6	106	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.053	-0.1	105	0.00
28 T	Bromochloromethane	50.000	47.247	5.5	106	0.00
29 T	Tetrahydrofuran	250.000	238.435	4.6	99	0.00
30 C	Chloroform	50.000	49.253	1.5#	105	0.00
31 T	Cyclohexane	50.000	46.094	7.8	103	0.00
32 T	1,1,1-Trichloroethane	50.000	48.795	2.4	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.987	4.0	109	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	113	0.00
35 S	Dibromofluoromethane	50.000	48.743	2.5	111	0.00
36 T	1,1-Dichloropropene	50.000	48.254	3.5	104	0.00
37 T	Ethyl Acetate	50.000	48.080	3.8	104	0.00
38 T	Carbon Tetrachloride	50.000	48.402	3.2	104	0.00
39 T	Methylcyclohexane	50.000	46.422	7.2	99	0.00
40 TM	Benzene	50.000	48.593	2.8	105	0.00
41 T	Methacrylonitrile	50.000	42.766	14.5	90	0.00
42 TM	1,2-Dichloroethane	50.000	47.978	4.0	104	0.00
43 T	Isopropyl Acetate	50.000	47.984	4.0	100	0.00
44 TM	Trichloroethene	50.000	48.665	2.7	105	0.00
45 C	1,2-Dichloropropane	50.000	48.637	2.7#	104	0.00
46 T	Dibromomethane	50.000	48.195	3.6	103	0.00
47 T	Bromodichloromethane	50.000	48.352	3.3	103	0.00
48 T	Methyl methacrylate	50.000	48.481	3.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021320.D
 Acq On : 26 Feb 2025 10:11
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	944.605	5.5	102	0.00
50 S	Toluene-d8	50.000	49.599	0.8	114	0.00
51 T	4-Methyl-2-Pentanone	250.000	240.853	3.7	99	0.00
52 CM	Toluene	50.000	49.351	1.3#	105	0.00
53 T	t-1,3-Dichloropropene	50.000	49.988	0.0	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.192	1.6	104	0.00
55 T	1,1,2-Trichloroethane	50.000	47.334	5.3	100	0.00
56 T	Ethyl methacrylate	50.000	50.979	-2.0	101	0.00
57 T	1,3-Dichloropropane	50.000	49.183	1.6	104	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	234.614	6.2	92	0.00
59 T	2-Hexanone	250.000	249.476	0.2	98	0.00
60 T	Dibromochloromethane	50.000	48.867	2.3	102	0.00
61 T	1,2-Dibromoethane	50.000	47.532	4.9	100	0.00
62 S	4-Bromofluorobenzene	50.000	49.290	1.4	112	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	112	0.00
64 T	Tetrachloroethene	50.000	47.455	5.1	103	0.00
65 PM	Chlorobenzene	50.000	48.625	2.8	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.295	1.4	105	0.00
67 C	Ethyl Benzene	50.000	49.609	0.8#	104	0.00
68 T	m/p-Xylenes	100.000	98.298	1.7	103	0.00
69 T	o-Xylene	50.000	49.676	0.6	103	0.00
70 T	Styrene	50.000	50.431	-0.9	103	0.00
71 P	Bromoform	50.000	48.247	3.5	99	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	49.774	0.5	102	0.00
74 T	N-amyl acetate	50.000	51.162	-2.3	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.150	3.7	99	0.00
76 T	1,2,3-Trichloropropane	50.000	40.055	19.9	83	0.00
77 T	Bromobenzene	50.000	49.529	0.9	103	0.00
78 T	n-propylbenzene	50.000	49.510	1.0	101	0.00
79 T	2-Chlorotoluene	50.000	49.181	1.6	103	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.604	0.8	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.724	0.6	100	0.00
82 T	4-Chlorotoluene	50.000	49.408	1.2	103	0.00
83 T	tert-Butylbenzene	50.000	48.765	2.5	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.846	0.3	102	0.00
85 T	sec-Butylbenzene	50.000	48.069	3.9	100	0.00
86 T	p-Isopropyltoluene	50.000	48.594	2.8	100	0.00
87 T	1,3-Dichlorobenzene	50.000	48.450	3.1	101	0.00
88 T	1,4-Dichlorobenzene	50.000	47.797	4.4	101	0.00
89 T	n-Butylbenzene	50.000	48.491	3.0	98	0.00
90 T	Hexachloroethane	50.000	47.306	5.4	101	0.00
91 T	1,2-Dichlorobenzene	50.000	48.457	3.1	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.306	5.4	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.769	4.5	99	0.00
94 T	Hexachlorobutadiene	50.000	45.603	8.8	97	0.00
95 T	Naphthalene	50.000	50.937	-1.9	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021320.D
Acq On : 26 Feb 2025 10:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 00:33:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.779	4.4	98	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.413		-12.87	20
Chloromethane	0.612	0.531	0.1	-13.23	20
Vinyl Chloride	0.601	0.554		-7.82	20
Bromomethane	0.399	0.355		-11.03	20
Chloroethane	0.373	0.354		-5.09	20
Trichlorofluoromethane	0.908	0.857		-5.62	20
1,1,2-Trichlorotrifluoroethane	0.525	0.483		-8	20
1,1-Dichloroethene	0.503	0.467		-7.16	20
Acetone	0.109	0.108		-0.92	20
Carbon Disulfide	1.671	1.540		-7.84	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.254		-4.51	20
Methylene Chloride	0.588	0.523		-11.05	20
trans-1,2-Dichloroethene	0.554	0.533		-3.79	20
1,1-Dichloroethane	1.040	0.977	0.1	-6.06	20
Cyclohexane	1.000	0.858		-14.2	20
2-Butanone	0.164	0.156		-4.88	20
Carbon Tetrachloride	0.554	0.524		-5.41	20
cis-1,2-Dichloroethene	0.632	0.615		-2.69	20
Bromochloromethane	0.460	0.454		-1.3	20
Chloroform	1.054	0.999		-5.22	20
1,1,1-Trichloroethane	0.960	0.904		-5.83	20
Methylcyclohexane	0.623	0.568		-8.83	20
Benzene	1.456	1.381		-5.15	20
1,2-Dichloroethane	0.413	0.403		-2.42	20
Trichloroethene	0.364	0.350		-3.85	20
1,2-Dichloropropane	0.350	0.331		-5.43	20
Bromodichloromethane	0.511	0.501		-1.96	20
4-Methyl-2-Pentanone	0.243	0.236		-2.88	20
Toluene	0.904	0.878		-2.88	20
t-1,3-Dichloropropene	0.468	0.463		-1.07	20
cis-1,3-Dichloropropene	0.552	0.535		-3.08	20
1,1,2-Trichloroethane	0.249	0.238		-4.42	20
2-Hexanone	0.159	0.157		-1.26	20
Dibromochloromethane	0.340	0.334		-1.76	20
1,2-Dibromoethane	0.236	0.228		-3.39	20
Tetrachloroethene	0.378	0.347		-8.2	20
Chlorobenzene	1.122	1.069	0.3	-4.72	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.908		-4.02	20
m/p-Xylenes	0.748	0.712		-4.81	20
o-Xylene	0.701	0.674		-3.85	20
Styrene	1.166	1.136		-2.57	20
Bromoform	0.225	0.221	0.1	-1.78	20
Isopropylbenzene	3.759	3.639		-3.19	20
1,1,2,2-Tetrachloroethane	0.663	0.638	0.3	-3.77	20
1,3-Dichlorobenzene	1.730	1.628		-5.9	20
1,4-Dichlorobenzene	1.709	1.598		-6.49	20
1,2-Dichlorobenzene	1.515	1.449		-4.36	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.872		-5.73	20
1,2,3-Trichlorobenzene	0.781	0.739		-5.38	20
1,2-Dichloroethane-d4	0.567	0.558		-1.59	20
Dibromofluoromethane	0.328	0.334		1.83	20
Toluene-d8	1.267	1.261		-0.47	20
4-Bromofluorobenzene	0.426	0.425		-0.23	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\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 02/28/2025
 Supervised By : Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	216838	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	336652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	298167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	146841	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	121017	49.197	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.400%
35) Dibromofluoromethane	7.634	113	112378	50.916	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.840%
50) Toluene-d8	10.109	98	424430	49.758	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.520%
62) 4-Bromofluorobenzene	12.408	95	142970	49.803	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	89451	43.510	ug/l	96
3) Chloromethane	2.068	50	115226	43.398	ug/l	98
4) Vinyl Chloride	2.202	62	120087	46.080	ug/l	98
5) Bromomethane	2.592	94	76928	44.421	ug/l	99
6) Chloroethane	2.733	64	76655	47.433	ug/l	99
7) Trichlorofluoromethane	3.056	101	185757	47.198	ug/l	96
8) Diethyl Ether	3.452	74	57510	48.685	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	104835	46.008	ug/l	99
10) Methyl Iodide	4.001	142	123304	51.435	ug/l	99
11) Tert butyl alcohol	4.860	59	38335	202.609	ug/l	99
12) 1,1-Dichloroethene	3.787	96	101275	46.418	ug/l	94
13) Acrolein	3.647	56	8893	61.335	ug/l	94
14) Allyl chloride	4.379	41	177389	45.858	ug/l	99
15) Acrylonitrile	5.055	53	122583	234.709	ug/l	100
16) Acetone	3.866	43	116573	247.053	ug/l	96
17) Carbon Disulfide	4.104	76	333979	46.099	ug/l	99
18) Methyl Acetate	4.385	43	55015	47.708	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	282838	49.066	ug/l	100
20) Methylene Chloride	4.610	84	113459	44.466	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	115652	48.151	ug/l	98
22) Diisopropyl ether	6.019	45	377852	47.204	ug/l	98
23) Vinyl Acetate	5.958	43	1144384	239.240	ug/l	100
24) 1,1-Dichloroethane	5.915	63	211938	46.976	ug/l	99
25) 2-Butanone	6.890	43	168838	237.086	ug/l	96
26) 2,2-Dichloropropane	6.878	77	190004	46.413	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	133307	48.604	ug/l	97
28) Bromochloromethane	7.244	49	98374	49.278	ug/l	98
29) Tetrahydrofuran	7.256	42	109505	235.247	ug/l	99
30) Chloroform	7.421	83	216589	47.377	ug/l	99
31) Cyclohexane	7.701	56	185986	42.885	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	196015	47.106	ug/l	99
36) 1,1-Dichloropropene	7.835	75	155190	46.810	ug/l	99
37) Ethyl Acetate	6.982	43	76874	46.614	ug/l	98
38) Carbon Tetrachloride	7.817	117	176563	47.372	ug/l	100
39) Methylcyclohexane	9.109	83	191303	45.621	ug/l	99
40) Benzene	8.079	78	465038	47.451	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
 Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	41275	44.764	ug/l	91
42) 1,2-Dichloroethane	8.158	62	135785	48.834	ug/l	100
43) Isopropyl Acetate	8.195	43	150377	47.110	ug/l #	86
44) Trichloroethene	8.866	130	117718	47.977	ug/l	98
45) 1,2-Dichloropropane	9.140	63	111459	47.258	ug/l	98
46) Dibromomethane	9.231	93	62998	48.866	ug/l	99
47) Bromodichloromethane	9.420	83	168603	49.049	ug/l	99
48) Methyl methacrylate	9.219	41	70974	47.548	ug/l	96
49) 1,4-Dioxane	9.225	88	14834	1034.825	ug/l	89
51) 4-Methyl-2-Pentanone	10.000	43	397113	243.033	ug/l	99
52) Toluene	10.170	92	295469	48.531	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	155924	49.509	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	180216	48.471	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	80212	47.760	ug/l	97
56) Ethyl methacrylate	10.438	69	118449	51.042	ug/l	97
57) 1,3-Dichloropropane	10.719	76	143446	48.674	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	268918	241.429	ug/l	99
59) 2-Hexanone	10.762	43	264507	246.484	ug/l	98
60) Dibromochloromethane	10.908	129	112424	49.151	ug/l	100
61) 1,2-Dibromoethane	11.018	107	76619	48.188	ug/l	97
64) Tetrachloroethene	10.646	164	103607	45.972	ug/l	98
65) Chlorobenzene	11.444	112	318660	47.611	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	112125	47.843	ug/l	99
67) Ethyl Benzene	11.518	91	568987	47.994	ug/l	99
68) m/p-Xylenes	11.627	106	424503	95.197	ug/l	99
69) o-Xylene	11.957	106	201012	48.118	ug/l	98
70) Styrene	11.969	104	338828	48.749	ug/l	100
71) Bromoform	12.133	173	65877	49.136	ug/l #	100
73) Isopropylbenzene	12.255	105	534388	48.407	ug/l	100
74) N-amyl acetate	12.072	43	137883	49.139	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	93722	48.104	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	71287m	48.501	ug/l	
77) Bromobenzene	12.530	156	124444	48.465	ug/l	98
78) n-propylbenzene	12.597	91	643447	48.033	ug/l	100
79) 2-Chlorotoluene	12.682	91	366017	47.609	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	439469	48.538	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	32102	48.545	ug/l	98
82) 4-Chlorotoluene	12.780	91	381031	47.811	ug/l	100
83) tert-Butylbenzene	12.999	119	389054	47.569	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	438264	48.670	ug/l	99
85) sec-Butylbenzene	13.176	105	563465	47.165	ug/l	100
86) p-Isopropyltoluene	13.292	119	475557	47.673	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	238997	47.054	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	234683	46.771	ug/l	100
89) n-Butylbenzene	13.621	91	447227	47.641	ug/l	100
90) Hexachloroethane	13.883	117	95176	45.677	ug/l	98
91) 1,2-Dichlorobenzene	13.664	146	212743	47.806	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	14541	47.180	ug/l	98
93) 1,2,4-Trichlorobenzene	14.926	180	127990	47.123	ug/l	99
94) Hexachlorobutadiene	15.029	225	76423	44.693	ug/l	100
95) Naphthalene	15.145	128	219783	48.854	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	108446	47.257	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021346.D
Acq On : 27 Feb 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:39:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

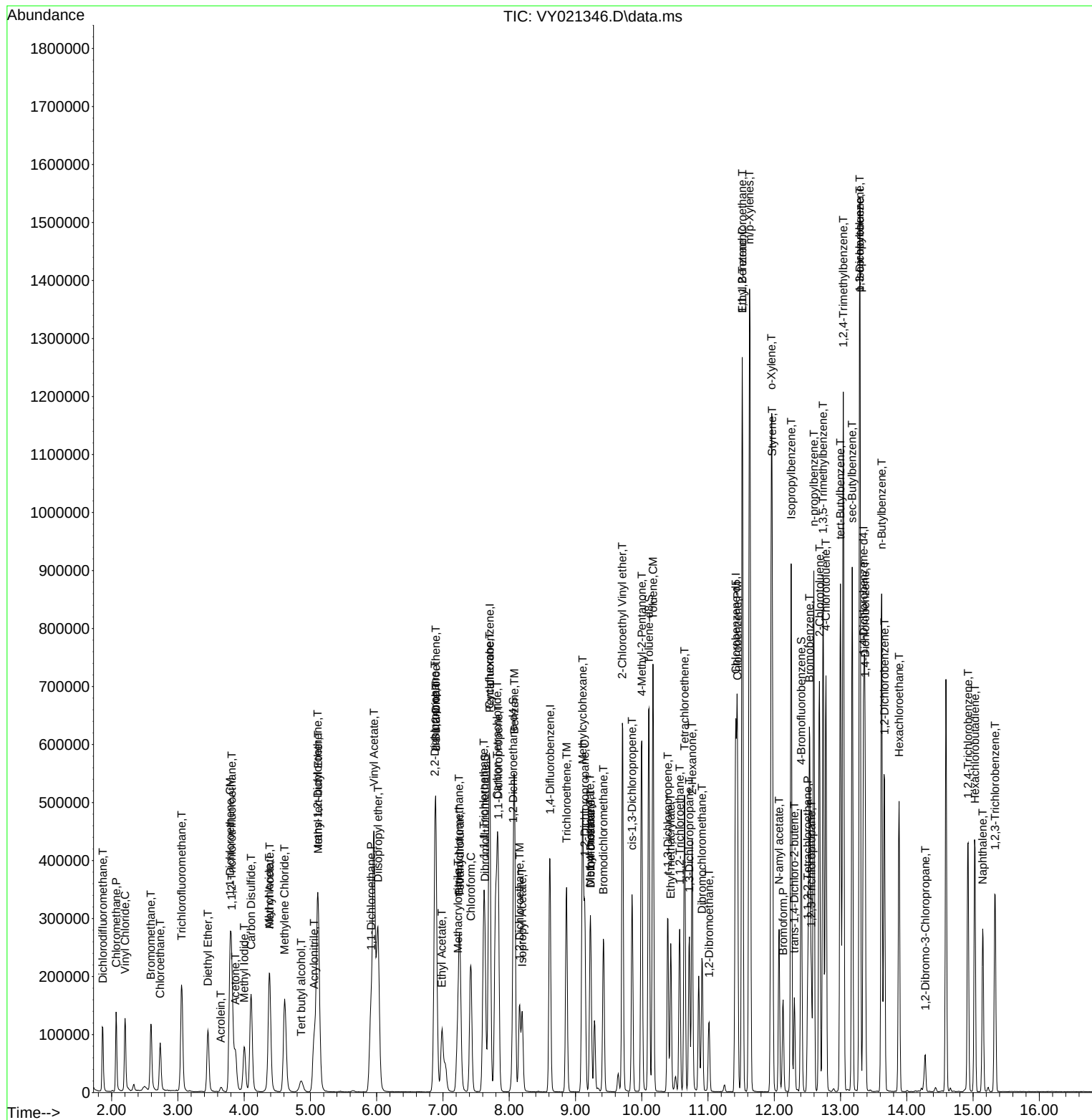
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021346.D
Acq On : 27 Feb 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:39:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 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: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	124	0.00
2 T	Dichlorodifluoromethane	0.474	0.413	12.9	104	0.00
3 P	Chloromethane	0.612	0.531	13.2	109	0.00
4 C	Vinyl Chloride	0.601	0.554	7.8#	109	0.00
5 T	Bromomethane	0.399	0.355	11.0	113	0.00
6 T	Chloroethane	0.373	0.354	5.1	112	0.00
7 T	Trichlorofluoromethane	0.908	0.857	5.6	113	0.00
8 T	Diethyl Ether	0.272	0.265	2.6	115	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.525	0.483	8.0	111	0.00
10 T	Methyl Iodide	0.553	0.569	-2.9	110	0.00
11 T	Tert butyl alcohol	0.044	0.035	20.5	109	0.00
12 CM	1,1-Dichloroethene	0.503	0.467	7.2#	112	0.00
13 T	Acrolein	0.033	0.008	75.8#	152#	0.00
14 T	Allyl chloride	0.892	0.818	8.3	109	0.00
15 T	Acrylonitrile	0.120	0.113	5.8	110	0.00
16 T	Acetone	0.109	0.108	0.9	104	0.00
17 T	Carbon Disulfide	1.671	1.540	7.8	110	0.00
18 T	Methyl Acetate	0.266	0.254	4.5	114	0.00
19 T	Methyl tert-butyl Ether	1.329	1.304	1.9	114	0.00
20 T	Methylene Chloride	0.588	0.523	11.1	111	0.00
21 T	trans-1,2-Dichloroethene	0.554	0.533	3.8	115	0.00
22 T	Diisopropyl ether	1.846	1.743	5.6	110	0.00
23 T	Vinyl Acetate	1.103	1.056	4.3	110	0.00
24 P	1,1-Dichloroethane	1.040	0.977	6.1	112	0.00
25 T	2-Butanone	0.164	0.156	4.9	105	0.00
26 T	2,2-Dichloropropane	0.944	0.876	7.2	111	0.00
27 T	cis-1,2-Dichloroethene	0.632	0.615	2.7	114	0.00
28 T	Bromochloromethane	0.460	0.454	1.3	123	0.00
29 T	Tetrahydrofuran	0.107	0.101	5.6	109	0.00
30 C	Chloroform	1.054	0.999	5.2#	113	0.00
31 T	Cyclohexane	1.000	0.858	14.2	107	0.00
32 T	1,1,1-Trichloroethane	0.960	0.904	5.8	113	0.00
33 S	1,2-Dichloroethane-d4	0.567	0.558	1.6	125	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	124	0.00
35 S	Dibromofluoromethane	0.328	0.334	-1.8	127	0.00
36 T	1,1-Dichloropropene	0.492	0.461	6.3	110	0.00
37 T	Ethyl Acetate	0.245	0.228	6.9	110	0.00
38 T	Carbon Tetrachloride	0.554	0.524	5.4	112	0.00
39 T	Methylcyclohexane	0.623	0.568	8.8	106	0.00
40 TM	Benzene	1.456	1.381	5.2	111	0.00
41 T	Methacrylonitrile	0.137	0.123	10.2	103	0.00
42 TM	1,2-Dichloroethane	0.413	0.403	2.4	115	0.00
43 T	Isopropyl Acetate	0.474	0.447	5.7	108	0.00
44 TM	Trichloroethene	0.364	0.350	3.8	113	0.00
45 C	1,2-Dichloropropane	0.350	0.331	5.4#	110	0.00
46 T	Dibromomethane	0.191	0.187	2.1	114	0.00
47 T	Bromodichloromethane	0.511	0.501	2.0	114	0.00
48 T	Methyl methacrylate	0.222	0.211	5.0	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 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: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	122	0.00
50 S	Toluene-d8	1.267	1.261	0.5	124	0.00
51 T	4-Methyl-2-Pentanone	0.243	0.236	2.9	109	0.00
52 CM	Toluene	0.904	0.878	2.9#	112	0.00
53 T	t-1,3-Dichloropropene	0.468	0.463	1.1	111	0.00
54 T	cis-1,3-Dichloropropene	0.552	0.535	3.1	112	0.00
55 T	1,1,2-Trichloroethane	0.249	0.238	4.4	110	0.00
56 T	Ethyl methacrylate	0.345	0.352	-2.0	111	0.00
57 T	1,3-Dichloropropane	0.438	0.426	2.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.165	0.160	3.0	103	0.00
59 T	2-Hexanone	0.159	0.157	1.3	106	0.00
60 T	Dibromochloromethane	0.340	0.334	1.8	112	0.00
61 T	1,2-Dibromoethane	0.236	0.228	3.4	111	0.00
62 S	4-Bromofluorobenzene	0.426	0.425	0.2	124	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	124	0.00
64 T	Tetrachloroethene	0.378	0.347	8.2	111	0.00
65 PM	Chlorobenzene	1.122	1.069	4.7	113	0.00
66 T	1,1,1,2-Tetrachloroethane	0.393	0.376	4.3	113	0.00
67 C	Ethyl Benzene	1.988	1.908	4.0#	111	0.00
68 T	m/p-Xylenes	0.748	0.712	4.8	110	0.00
69 T	o-Xylene	0.701	0.674	3.9	111	0.00
70 T	Styrene	1.166	1.136	2.6	111	0.00
71 P	Bromoform	0.225	0.221	1.8	112	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
73 T	Isopropylbenzene	3.759	3.639	3.2	110	0.00
74 T	N-amyl acetate	0.955	0.939	1.7	107	0.00
75 P	1,1,2,2-Tetrachloroethane	0.663	0.638	3.8	110	0.00
76 T	1,2,3-Trichloropropane	0.500	0.485	3.0	112	0.00
77 T	Bromobenzene	0.874	0.847	3.1	113	0.00
78 T	n-propylbenzene	4.561	4.382	3.9	109	0.00
79 T	2-Chlorotoluene	2.618	2.493	4.8	111	0.00
80 T	1,3,5-Trimethylbenzene	3.083	2.993	2.9	111	0.00
81 T	trans-1,4-Dichloro-2-butene	0.225	0.219	2.7	108	0.00
82 T	4-Chlorotoluene	2.714	2.595	4.4	111	0.00
83 T	tert-Butylbenzene	2.785	2.649	4.9	111	0.00
84 T	1,2,4-Trimethylbenzene	3.066	2.985	2.6	111	0.00
85 T	sec-Butylbenzene	4.068	3.837	5.7	109	0.00
86 T	p-Isopropyltoluene	3.397	3.239	4.7	109	0.00
87 T	1,3-Dichlorobenzene	1.730	1.628	5.9	110	0.00
88 T	1,4-Dichlorobenzene	1.709	1.598	6.5	110	0.00
89 T	n-Butylbenzene	3.196	3.046	4.7	107	0.00
90 T	Hexachloroethane	0.710	0.648	8.7	108	0.00
91 T	1,2-Dichlorobenzene	1.515	1.449	4.4	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.105	0.099	5.7	106	0.00
93 T	1,2,4-Trichlorobenzene	0.925	0.872	5.7	109	0.00
94 T	Hexachlorobutadiene	0.582	0.520	10.7	106	0.00
95 T	Naphthalene	1.532	1.497	2.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021346.D
Acq On : 27 Feb 2025 10:13
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: Feb 28 00:39:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.781	0.739	5.4	108	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 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: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	124	0.00
2 T	Dichlorodifluoromethane	50.000	43.510	13.0	104	0.00
3 P	Chloromethane	50.000	43.398	13.2	109	0.00
4 C	Vinyl Chloride	50.000	46.080	7.8#	109	0.00
5 T	Bromomethane	50.000	44.421	11.2	113	0.00
6 T	Chloroethane	50.000	47.433	5.1	112	0.00
7 T	Trichlorofluoromethane	50.000	47.198	5.6	113	0.00
8 T	Diethyl Ether	50.000	48.685	2.6	115	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.008	8.0	111	0.00
10 T	Methyl Iodide	50.000	51.435	-2.9	110	0.00
11 T	Tert butyl alcohol	250.000	202.609	19.0	109	0.00
12 CM	1,1-Dichloroethene	50.000	46.418	7.2#	112	0.00
13 T	Acrolein	250.000	61.335	75.5#	152	0.00
14 T	Allyl chloride	50.000	45.858	8.3	109	0.00
15 T	Acrylonitrile	250.000	234.709	6.1	110	0.00
16 T	Acetone	250.000	247.053	1.2	104	0.00
17 T	Carbon Disulfide	50.000	46.099	7.8	110	0.00
18 T	Methyl Acetate	50.000	47.708	4.6	114	0.00
19 T	Methyl tert-butyl Ether	50.000	49.066	1.9	114	0.00
20 T	Methylene Chloride	50.000	44.466	11.1	111	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.151	3.7	115	0.00
22 T	Diisopropyl ether	50.000	47.204	5.6	110	0.00
23 T	Vinyl Acetate	250.000	239.240	4.3	110	0.00
24 P	1,1-Dichloroethane	50.000	46.976	6.0	112	0.00
25 T	2-Butanone	250.000	237.086	5.2	105	0.00
26 T	2,2-Dichloropropane	50.000	46.413	7.2	111	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.604	2.8	114	0.00
28 T	Bromochloromethane	50.000	49.278	1.4	123	0.00
29 T	Tetrahydrofuran	250.000	235.247	5.9	109	0.00
30 C	Chloroform	50.000	47.377	5.2#	113	0.00
31 T	Cyclohexane	50.000	42.885	14.2	107	0.00
32 T	1,1,1-Trichloroethane	50.000	47.106	5.8	113	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.197	1.6	125	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	124	0.00
35 S	Dibromofluoromethane	50.000	50.916	-1.8	127	0.00
36 T	1,1-Dichloropropene	50.000	46.810	6.4	110	0.00
37 T	Ethyl Acetate	50.000	46.614	6.8	110	0.00
38 T	Carbon Tetrachloride	50.000	47.372	5.3	112	0.00
39 T	Methylcyclohexane	50.000	45.621	8.8	106	0.00
40 TM	Benzene	50.000	47.451	5.1	111	0.00
41 T	Methacrylonitrile	50.000	44.764	10.5	103	0.00
42 TM	1,2-Dichloroethane	50.000	48.834	2.3	115	0.00
43 T	Isopropyl Acetate	50.000	47.110	5.8	108	0.00
44 TM	Trichloroethene	50.000	47.977	4.0	113	0.00
45 C	1,2-Dichloropropane	50.000	47.258	5.5#	110	0.00
46 T	Dibromomethane	50.000	48.866	2.3	114	0.00
47 T	Bromodichloromethane	50.000	49.049	1.9	114	0.00
48 T	Methyl methacrylate	50.000	47.548	4.9	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021346.D
 Acq On : 27 Feb 2025 10:13
 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: Feb 28 00:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1034.825	-3.5	122	0.00
50 S	Toluene-d8	50.000	49.758	0.5	124	0.00
51 T	4-Methyl-2-Pentanone	250.000	243.033	2.8	109	0.00
52 CM	Toluene	50.000	48.531	2.9#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	49.509	1.0	111	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.471	3.1	112	0.00
55 T	1,1,2-Trichloroethane	50.000	47.760	4.5	110	0.00
56 T	Ethyl methacrylate	50.000	51.042	-2.1	111	0.00
57 T	1,3-Dichloropropane	50.000	48.674	2.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	241.429	3.4	103	0.00
59 T	2-Hexanone	250.000	246.484	1.4	106	0.00
60 T	Dibromochloromethane	50.000	49.151	1.7	112	0.00
61 T	1,2-Dibromoethane	50.000	48.188	3.6	111	0.00
62 S	4-Bromofluorobenzene	50.000	49.803	0.4	124	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	124	0.00
64 T	Tetrachloroethene	50.000	45.972	8.1	111	0.00
65 PM	Chlorobenzene	50.000	47.611	4.8	113	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.843	4.3	113	0.00
67 C	Ethyl Benzene	50.000	47.994	4.0#	111	0.00
68 T	m/p-Xylenes	100.000	95.197	4.8	110	0.00
69 T	o-Xylene	50.000	48.118	3.8	111	0.00
70 T	Styrene	50.000	48.749	2.5	111	0.00
71 P	Bromoform	50.000	49.136	1.7	112	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	121	0.00
73 T	Isopropylbenzene	50.000	48.407	3.2	110	0.00
74 T	N-amyl acetate	50.000	49.139	1.7	107	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.104	3.8	110	0.00
76 T	1,2,3-Trichloropropane	50.000	48.501	3.0	112	0.00
77 T	Bromobenzene	50.000	48.465	3.1	113	0.00
78 T	n-propylbenzene	50.000	48.033	3.9	109	0.00
79 T	2-Chlorotoluene	50.000	47.609	4.8	111	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.538	2.9	111	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.545	2.9	108	0.00
82 T	4-Chlorotoluene	50.000	47.811	4.4	111	0.00
83 T	tert-Butylbenzene	50.000	47.569	4.9	111	0.00
84 T	1,2,4-Trimethylbenzene	50.000	48.670	2.7	111	0.00
85 T	sec-Butylbenzene	50.000	47.165	5.7	109	0.00
86 T	p-Isopropyltoluene	50.000	47.673	4.7	109	0.00
87 T	1,3-Dichlorobenzene	50.000	47.054	5.9	110	0.00
88 T	1,4-Dichlorobenzene	50.000	46.771	6.5	110	0.00
89 T	n-Butylbenzene	50.000	47.641	4.7	107	0.00
90 T	Hexachloroethane	50.000	45.677	8.6	108	0.00
91 T	1,2-Dichlorobenzene	50.000	47.806	4.4	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.180	5.6	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.123	5.8	109	0.00
94 T	Hexachlorobutadiene	50.000	44.693	10.6	106	0.00
95 T	Naphthalene	50.000	48.854	2.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021346.D
Acq On : 27 Feb 2025 10:13
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: Feb 28 00:39:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.257	5.5	108	0.00

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



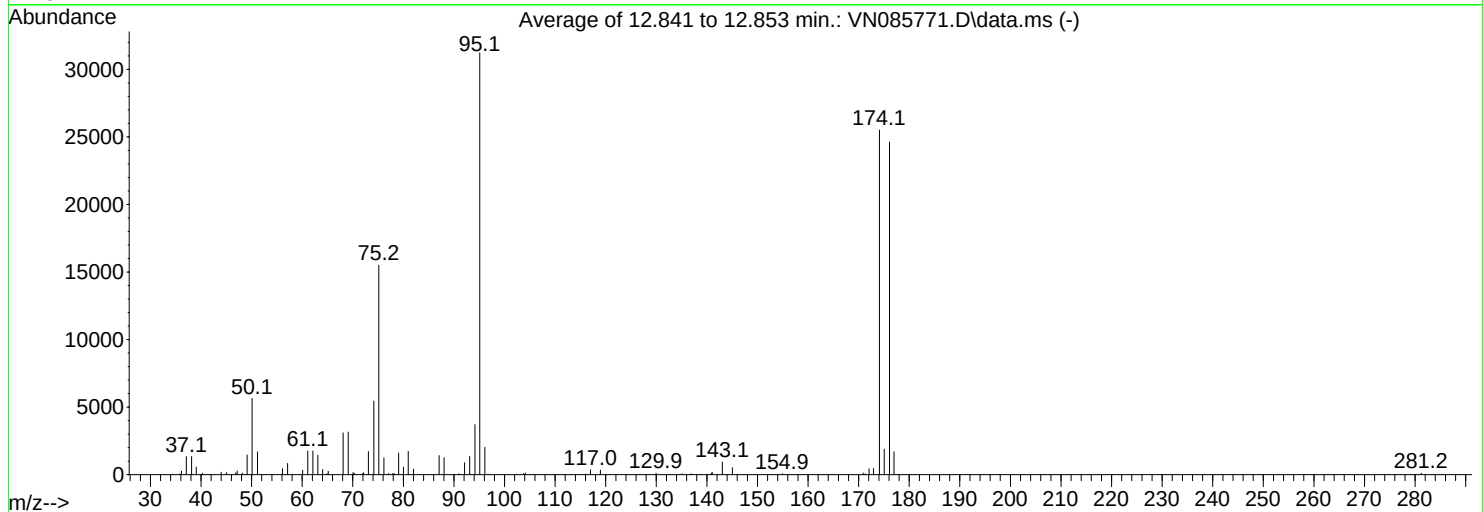
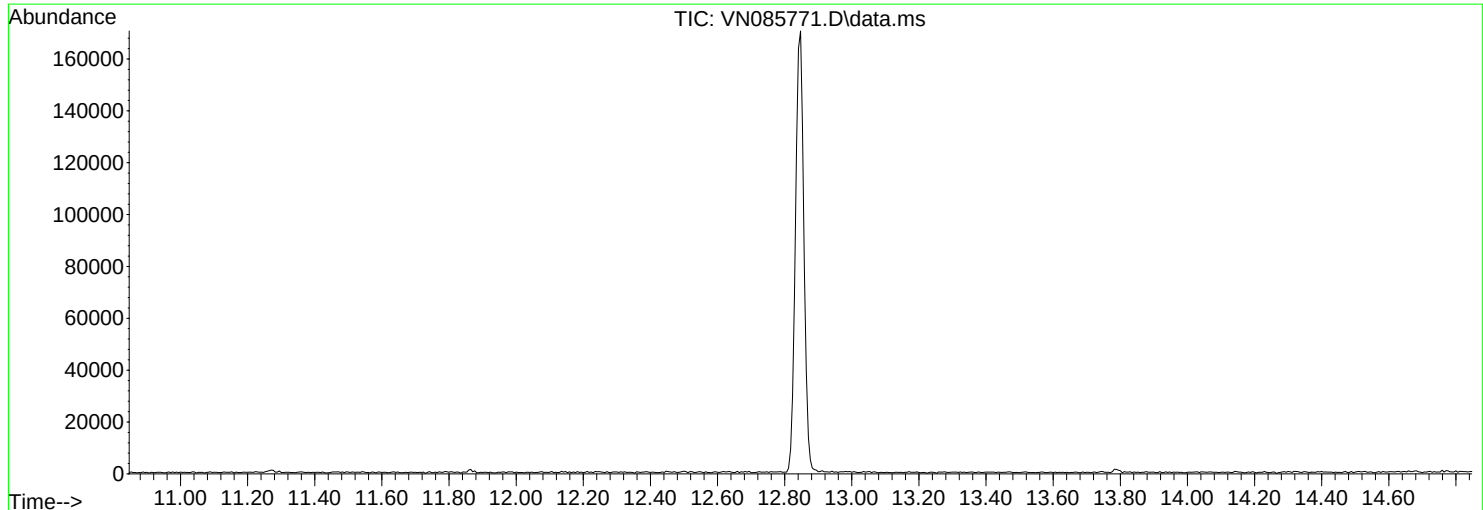
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085771.D
Acq On : 18 Feb 2025 10:35
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	5643	PASS
75	95	30	60	49.7	15509	PASS
95	95	100	100	100.0	31224	PASS
96	95	5	9	6.5	2024	PASS
173	174	0.00	2	1.8	452	PASS
174	95	50	100	81.7	25509	PASS
175	174	5	9	7.4	1882	PASS
176	174	95	101	96.5	24621	PASS
177	176	5	9	6.9	1699	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	65	48.15	124	64.90	70	76.15	124
36.15	261	49.10	1454	65.15	255	77.10	80
37.10	1338	50.10	5643	68.10	3096	77.90	80
38.15	1335	51.15	1680	69.10	3155	78.20	80
39.05	560	56.10	443	70.05	161	79.05	1595
40.00	21	57.10	824	70.30	106	80.00	557
40.30	99	60.10	333	71.90	80	80.95	1716
44.00	176	61.10	1754	72.15	148	82.00	419
45.05	157	62.10	1754	73.10	1710	87.05	1414
46.90	145	63.10	1428	74.15	5444	88.05	1255
47.15	276	64.05	377	75.15	15509	91.00	59

Average of 12.841 to 12.853 min.: VN085771.D\data.ms

BFB

Modified:subtracted

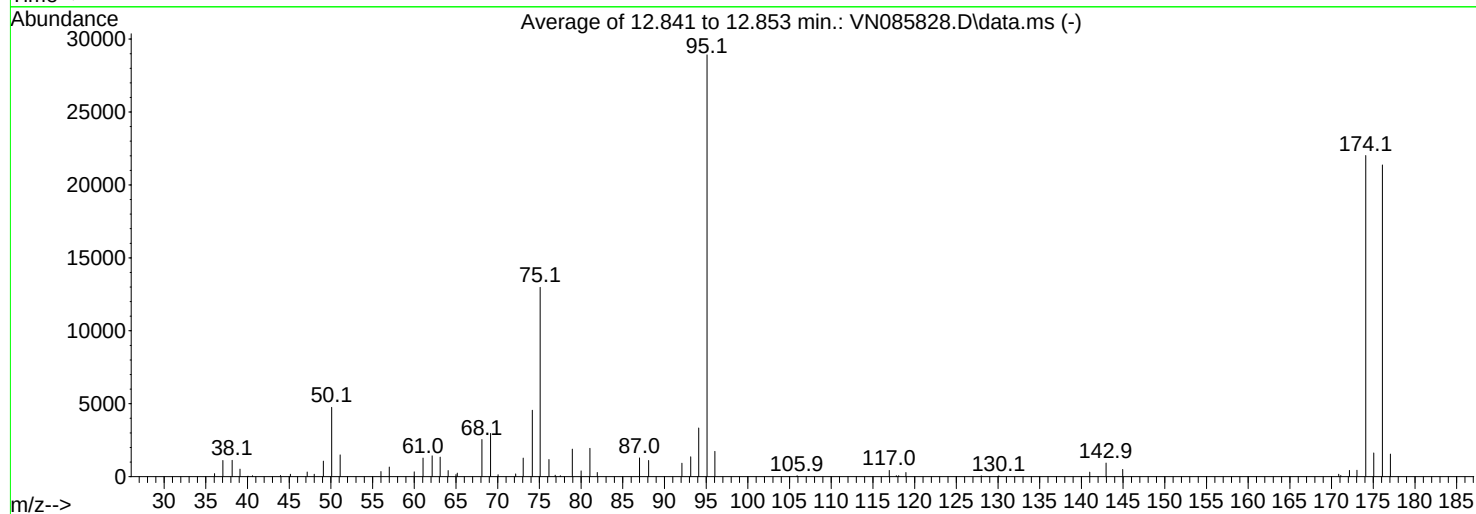
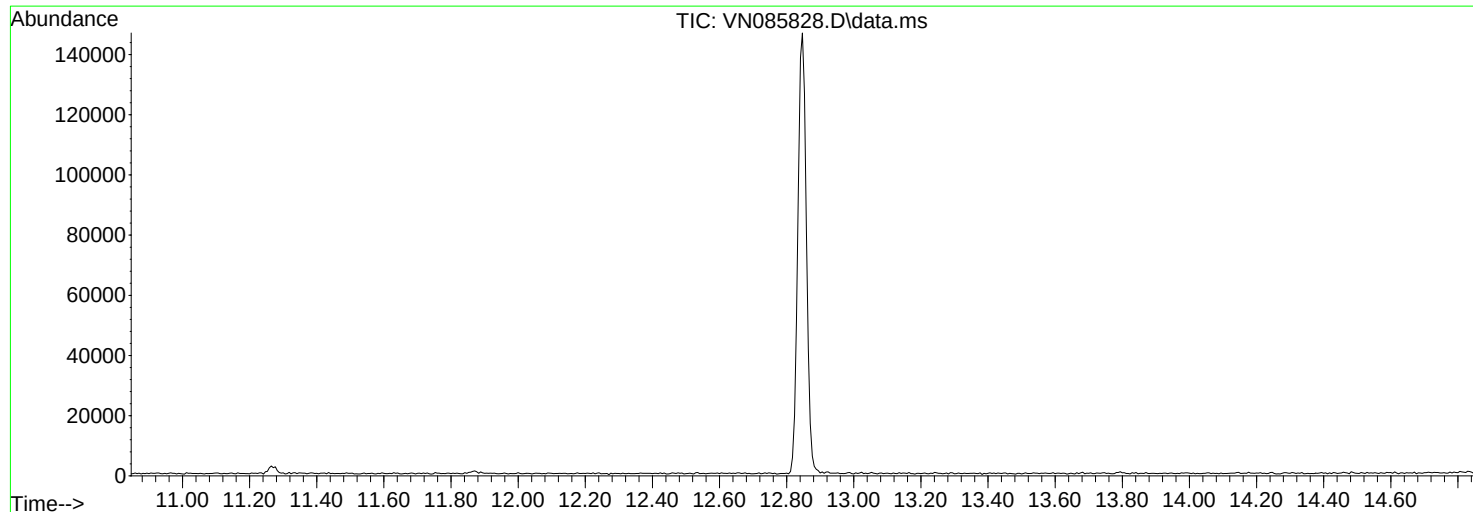
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.10	882	135.10	54	174.10	25509		
93.10	1346	136.90	57	175.05	1882		
94.15	3713	140.90	114	176.10	24621		
95.10	31224	141.05	164	177.00	1699		
96.10	2024	143.05	938	281.20	112		
103.80	81	145.05	510				
104.10	121	154.90	54				
116.00	52	170.90	116				
117.00	351	171.30	58				
118.95	331	172.05	440				
129.95	112	172.95	452				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085828.D
Acq On : 24 Feb 2025 10:50
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	4752	PASS
75	95	30	60	44.9	12981	PASS
95	95	100	100	100.0	28920	PASS
96	95	5	9	6.0	1735	PASS
173	174	0.00	2	2.0	435	PASS
174	95	50	100	76.1	22019	PASS
175	174	5	9	7.4	1623	PASS
176	174	95	101	97.1	21376	PASS
177	176	5	9	7.2	1547	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	213	50.10	4752	68.10	2541	80.00	391
37.05	1113	51.10	1494	69.15	2959	81.05	193
38.15	1123	56.00	352	70.05	131	81.95	28
39.10	516	57.00	660	72.15	192	87.00	128
40.05	37	60.00	334	73.05	1273	88.10	1113
40.60	70	61.05	1273	74.15	4554	92.10	923
43.95	77	62.15	1425	75.10	12981	93.15	1365
45.15	168	63.10	1344	76.15	1172	94.10	3331
47.15	317	64.05	415	76.90	97	95.10	28920
48.00	169	65.00	146	77.50	65	96.05	1735
49.10	1059	65.15	244	78.95	1892	105.90	64

Average of 12.841 to 12.853 min.: VN085828.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.95	433	172.15	424				
117.80	70	173.05	435				
118.10	66	174.10	22019				
118.95	287	175.05	1623				
128.00	55	176.10	21376				
130.10	57	177.05	1547				
141.00	304						
142.95	938						
144.95	493						
170.85	165						
171.10	77						

Instrument :

MSVOA_N

ClientSampleId :

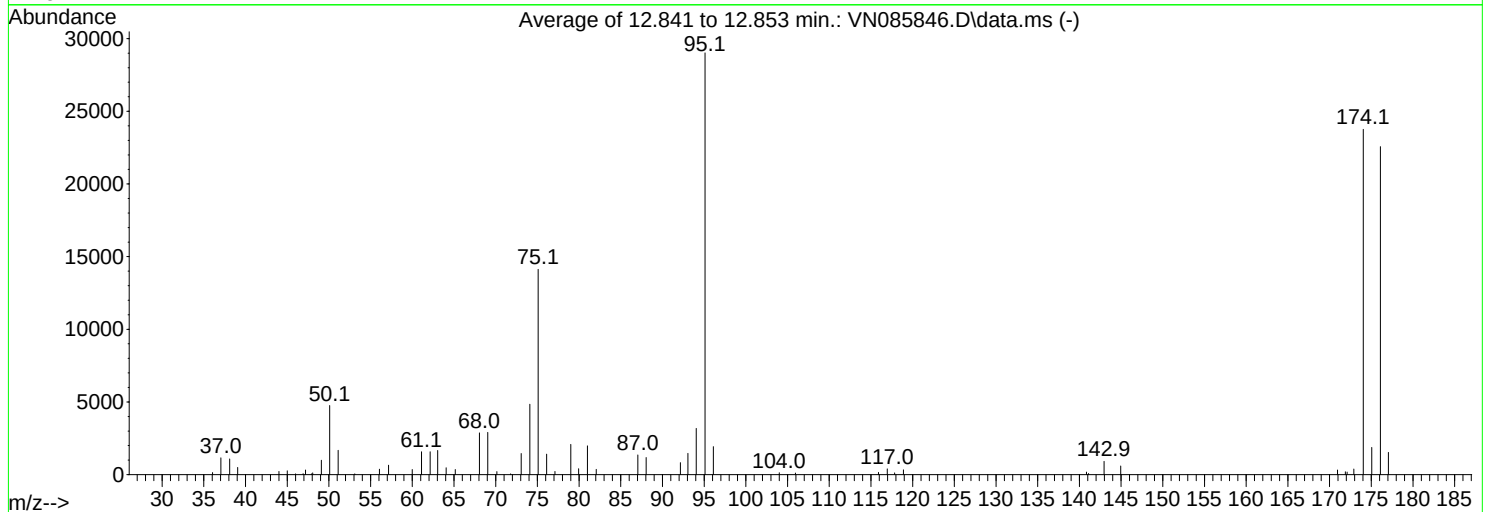
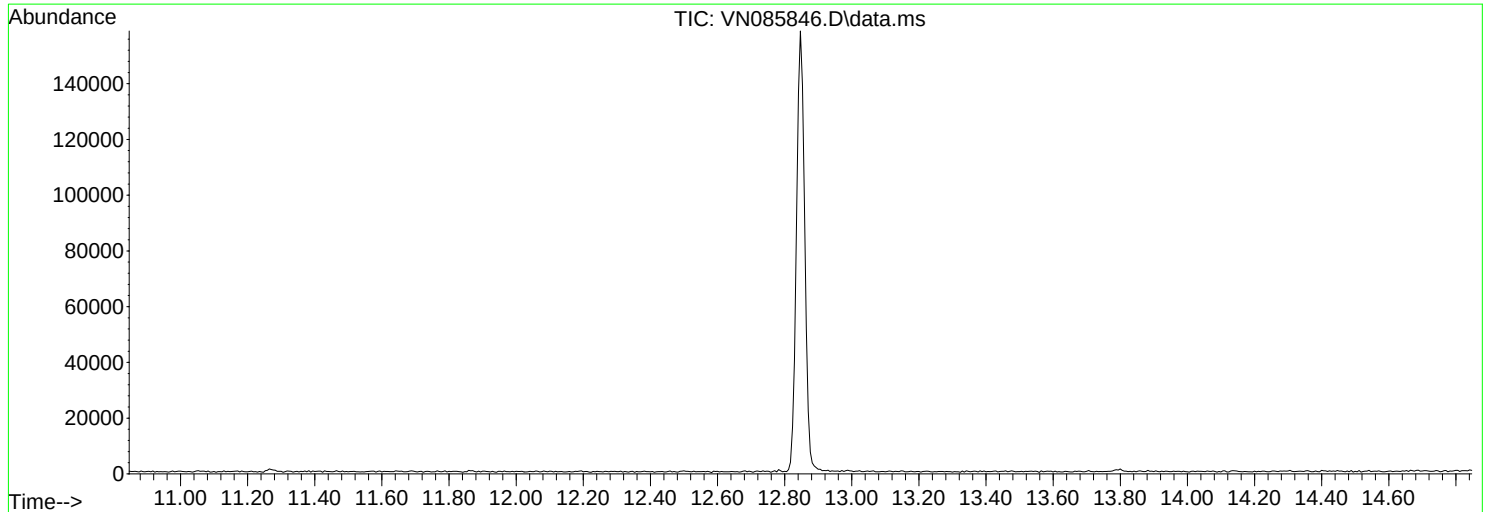
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085846.D
Acq On : 25 Feb 2025 10:11
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	4759	PASS
75	95	30	60	48.7	14129	PASS
95	95	100	100	100.0	29021	PASS
96	95	5	9	6.7	1930	PASS
173	174	0.00	2	1.6	388	PASS
174	95	50	100	81.9	23757	PASS
175	174	5	9	7.9	1877	PASS
176	174	95	101	95.0	22573	PASS
177	176	5	9	6.8	1536	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	142	49.10	986	65.15	351	79.95	401
37.05	1157	50.10	4759	68.05	2879	81.00	1981
38.10	1078	51.10	1676	69.05	2904	82.05	361
39.05	494	53.10	51	70.15	215	87.05	135
44.00	221	56.05	375	71.80	60	88.05	1176
45.00	264	57.15	649	73.05	1450	92.15	831
46.00	54	60.00	355	74.10	4848	93.05	1464
46.90	62	61.10	1575	75.10	14129	94.05	3185
47.20	324	62.15	1570	76.10	1409	95.10	29021
47.90	52	63.05	1668	77.10	221	96.10	1930
48.05	126	64.05	479	79.00	2081	104.00	134

Average of 12.841 to 12.853 min.: VN085846.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.95	113	172.10	179				
115.90	157	172.90	388				
116.95	399	174.05	23757				
117.85	126	175.05	1877				
118.90	331	176.10	22573				
140.85	178	177.05	1536				
141.10	73						
142.95	914						
144.95	593						
170.95	319						
171.90	204						

Instrument :

MSVOA_N

ClientSampleId :

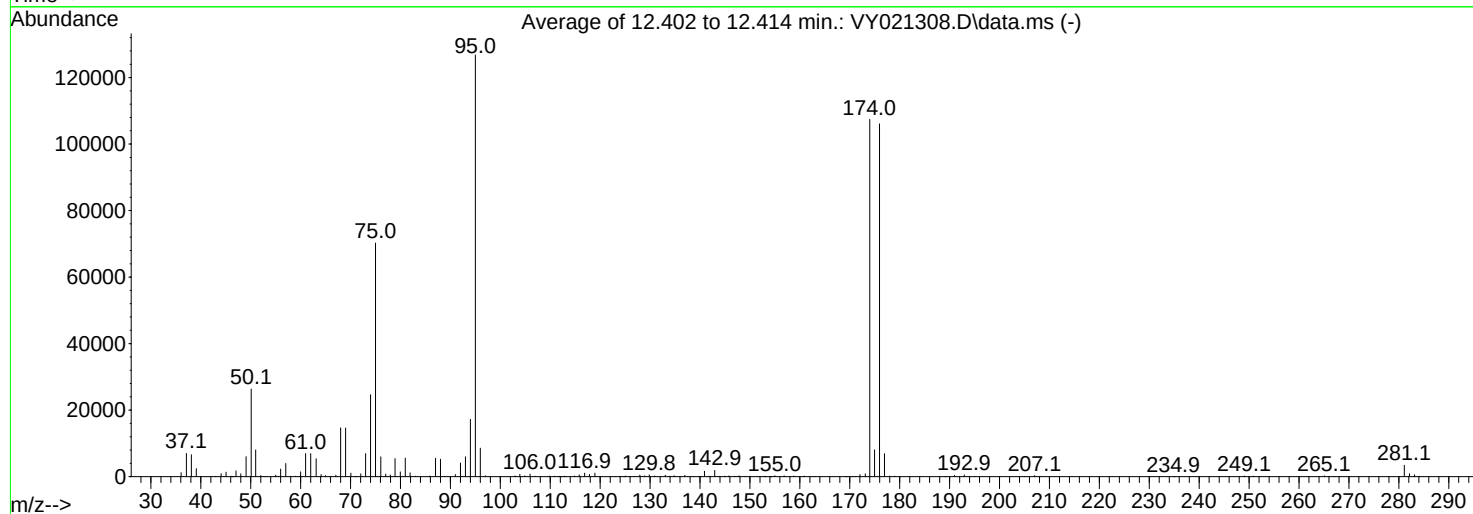
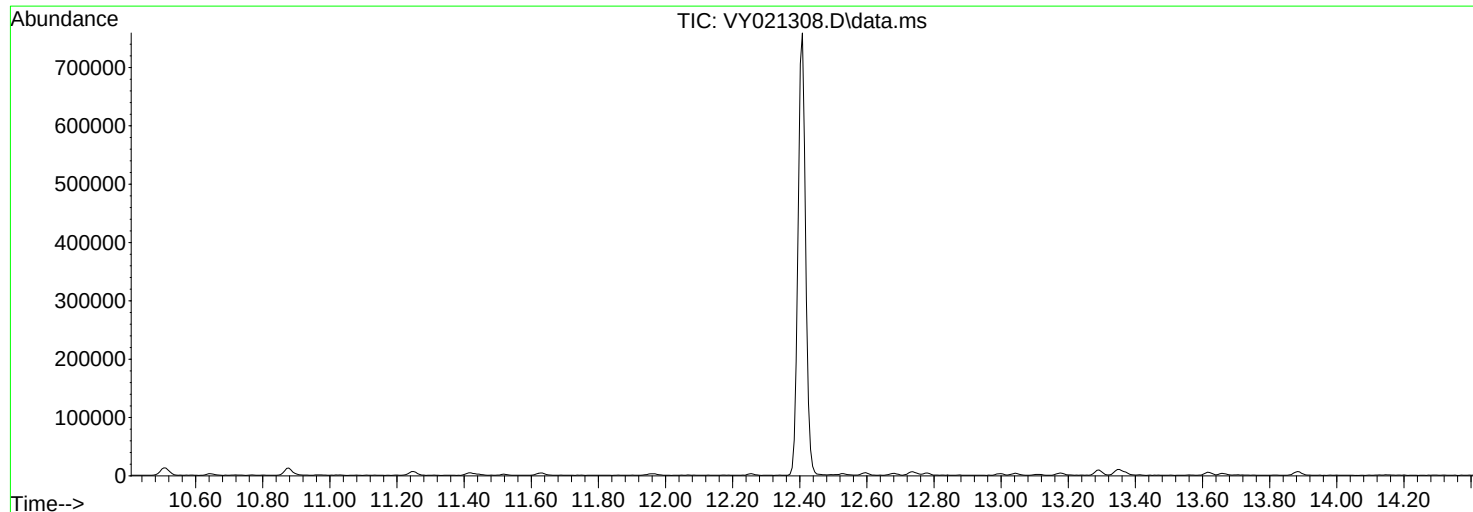
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021308.D
Acq On : 25 Feb 2025 12:10
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260
Last Update : Wed Feb 26 02:09:13 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

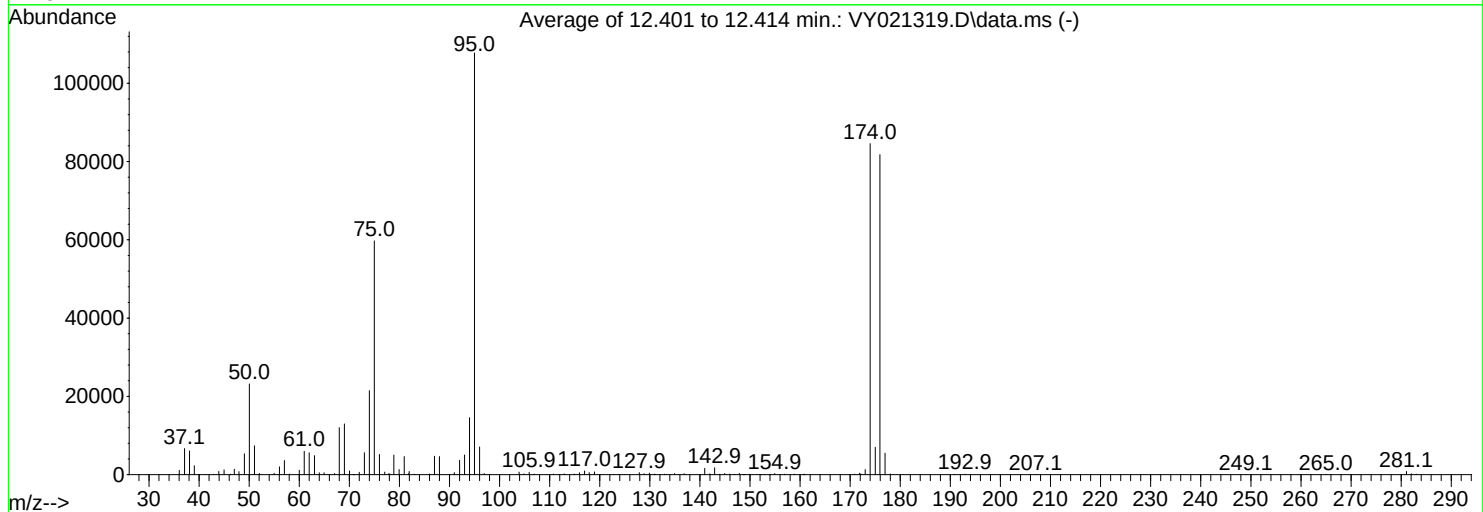
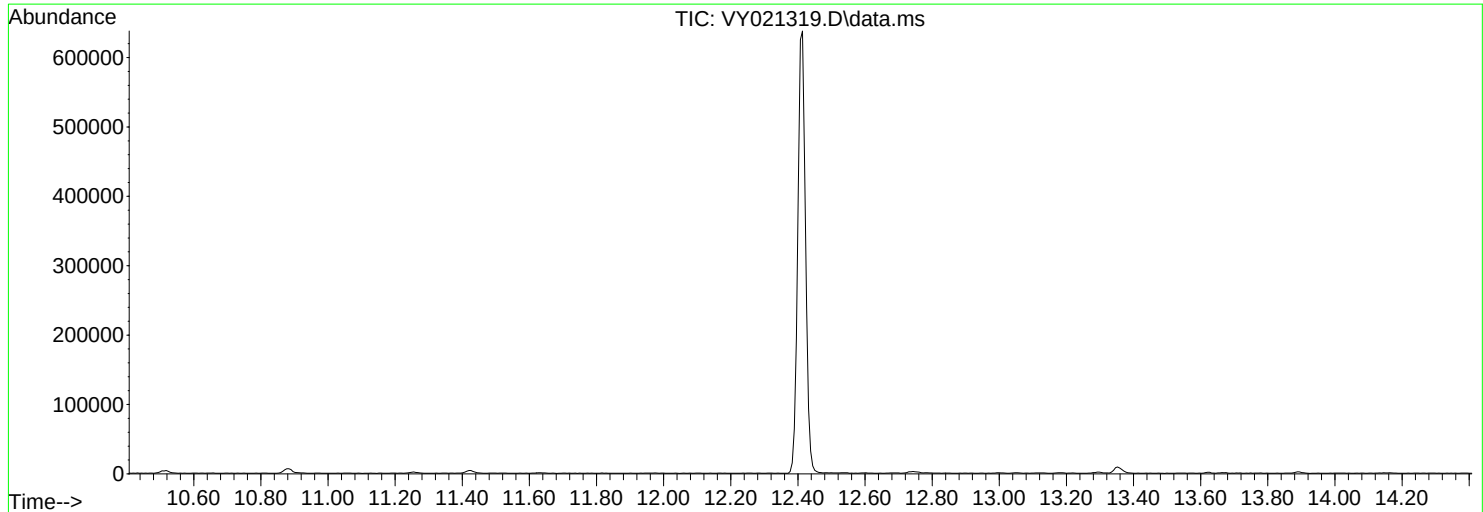
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	26379	PASS
75	95	30	60	55.4	70224	PASS
95	95	100	100	100.0	126829	PASS
96	95	5	9	6.7	8546	PASS
173	174	0.00	2	0.8	855	PASS
174	95	50	100	84.7	107419	PASS
175	174	5	9	7.5	8085	PASS
176	174	95	101	98.8	106077	PASS
177	176	5	9	6.5	6929	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021319.D
Acq On : 26 Feb 2025 09:12
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260
Last Update : Wed Feb 26 02:09:13 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

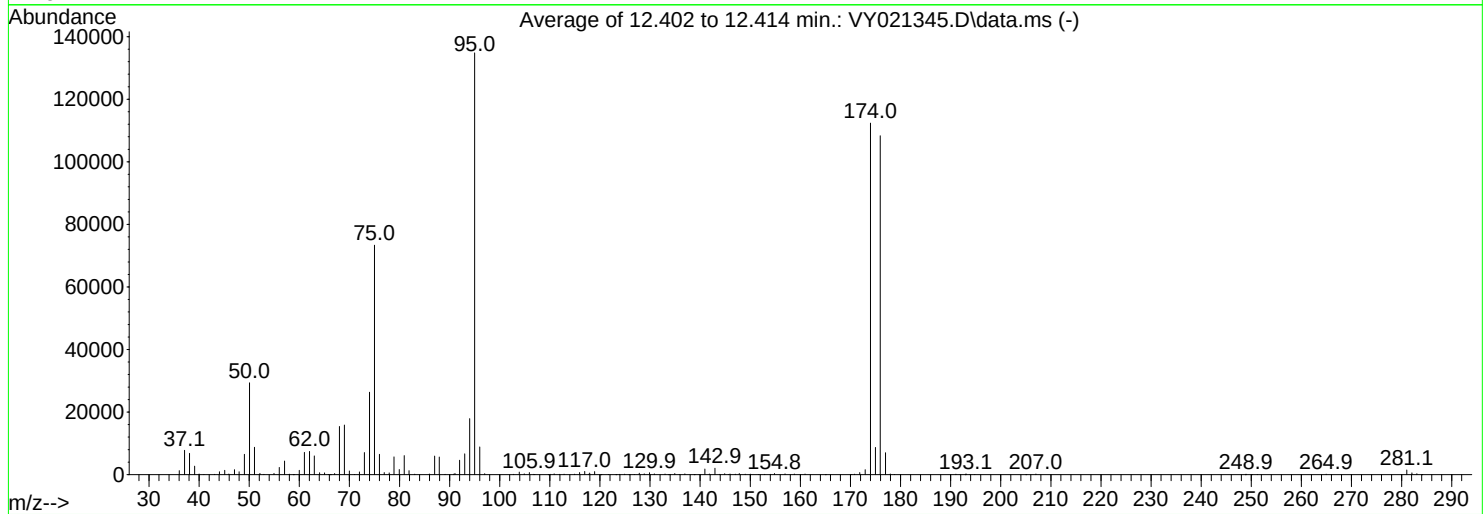
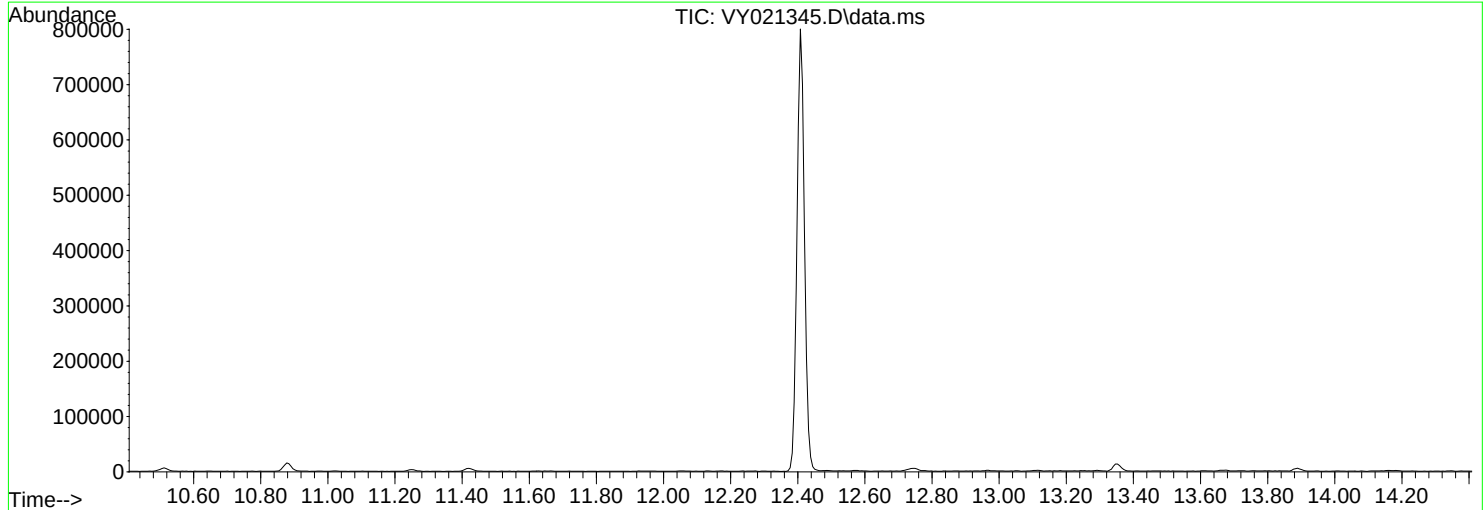
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	23171	PASS
75	95	30	60	55.4	59717	PASS
95	95	100	100	100.0	107776	PASS
96	95	5	9	6.6	7086	PASS
173	174	0.00	2	1.5	1306	PASS
174	95	50	100	78.5	84589	PASS
175	174	5	9	8.3	7013	PASS
176	174	95	101	96.7	81784	PASS
177	176	5	9	6.7	5470	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021345.D
Acq On : 27 Feb 2025 09:41
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260
Last Update : Wed Feb 26 02:09:13 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.8	29339	PASS
75	95	30	60	54.4	73368	PASS
95	95	100	100	100.0	134840	PASS
96	95	5	9	6.6	8843	PASS
173	174	0.00	2	1.4	1606	PASS
174	95	50	100	83.3	112365	PASS
175	174	5	9	7.8	8726	PASS
176	174	95	101	96.4	108357	PASS
177	176	5	9	6.5	7010	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VN0224WBL01			SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (77) - 130 (121)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	8.224			
540-36-3	1,4-Difluorobenzene	416000	9.1			
3114-55-4	Chlorobenzene-d5	368000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085831.D
 Acq On : 24 Feb 2025 12:39
 Operator : JC\MD
 Sample : VN0224WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	219652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	415867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	171306	60.156	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.320%	
35) Dibromofluoromethane	8.165	113	149510	54.942	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.880%	
50) Toluene-d8	10.565	98	492086	49.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.400%	
62) 4-Bromofluorobenzene	12.847	95	144556	44.314	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 88.620%	

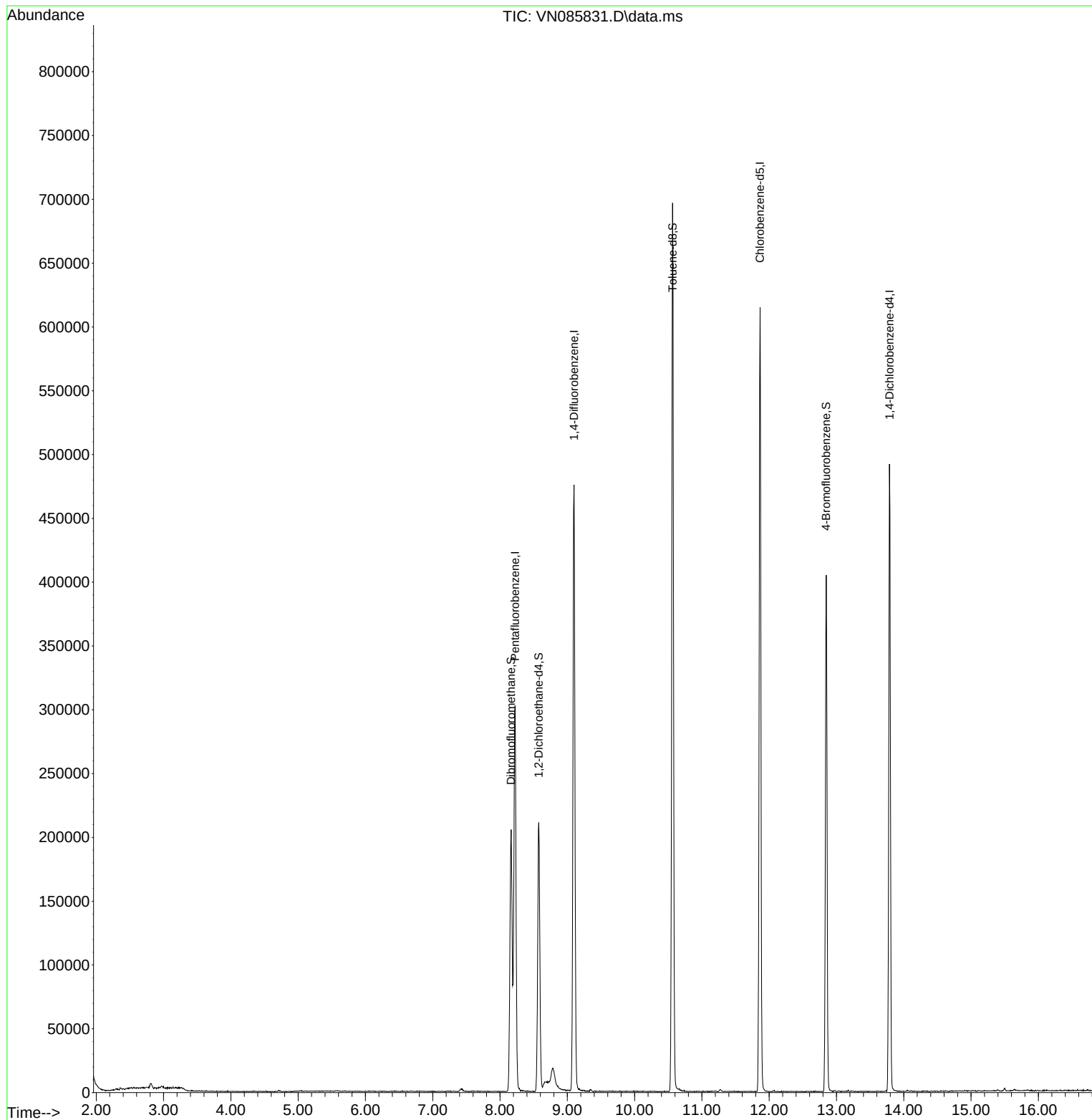
Target Compounds	Qvalue

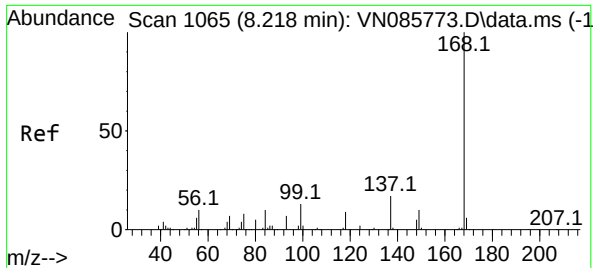
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

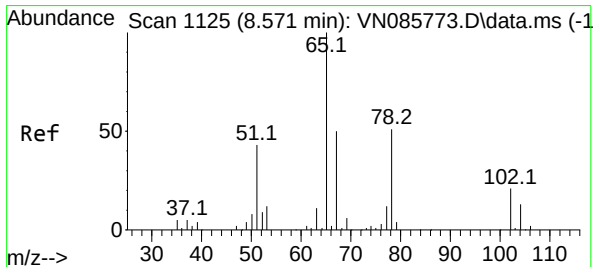
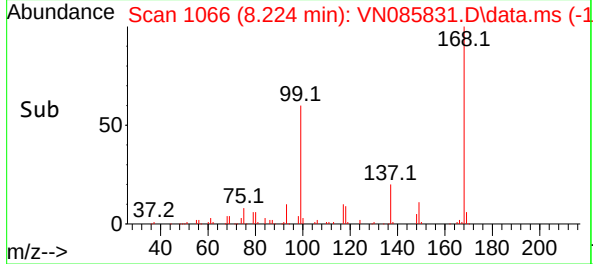
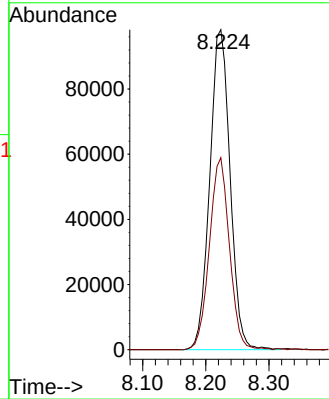
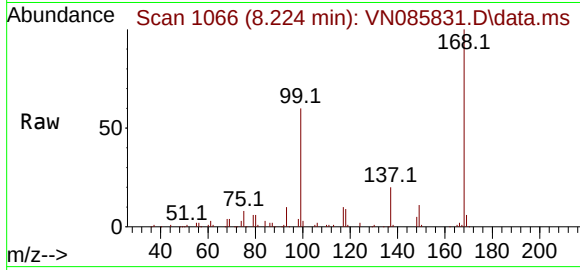




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

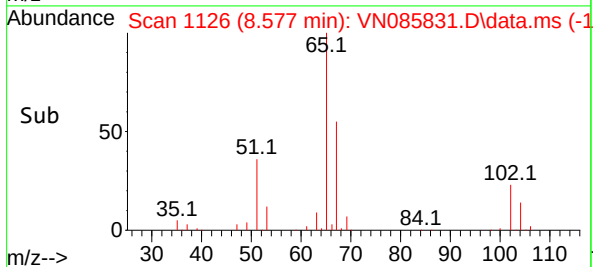
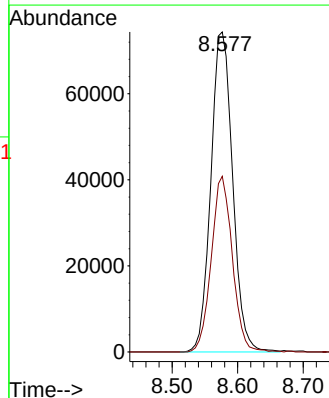
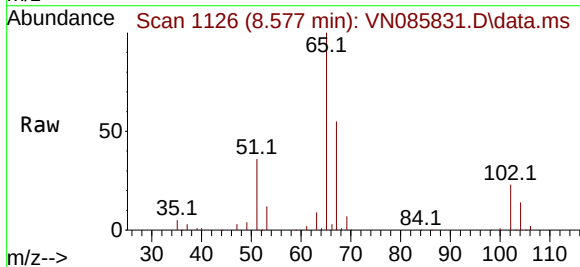
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

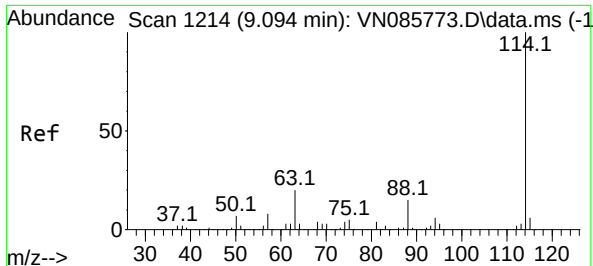
Tgt Ion:168 Resp: 219652
Ion Ratio Lower Upper
168 100
99 60.0 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 60.156 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 65 Resp: 171306
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085831.D

Acq: 24 Feb 2025 12:39

Instrument :

MSVOA_N

ClientSampleId :

VN0224WBL01

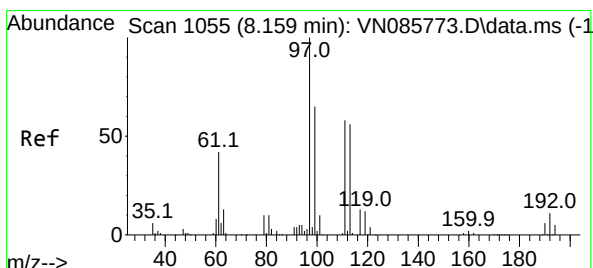
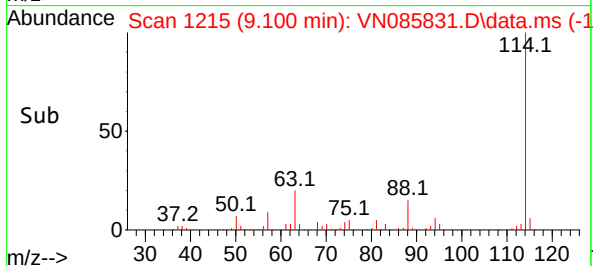
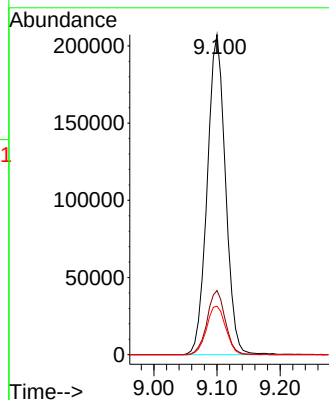
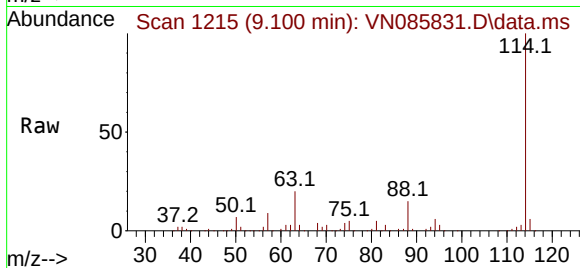
Tgt Ion:114 Resp: 415867

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

88 15.1 0.0 30.0



#35

Dibromofluoromethane

Concen: 54.942 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085831.D

Acq: 24 Feb 2025 12:39

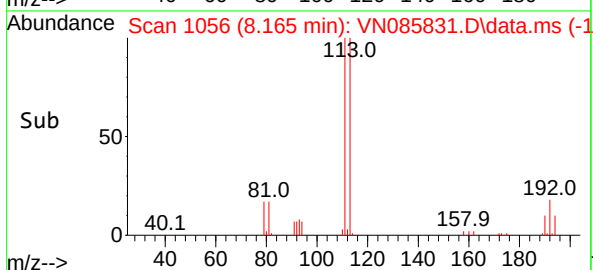
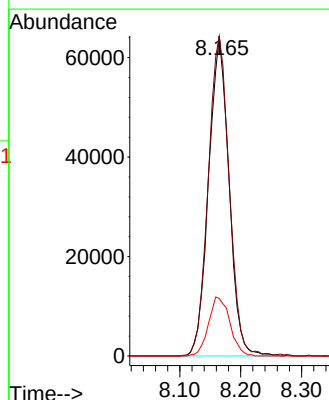
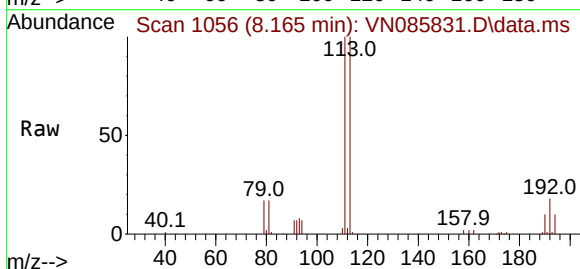
Tgt Ion:113 Resp: 149510

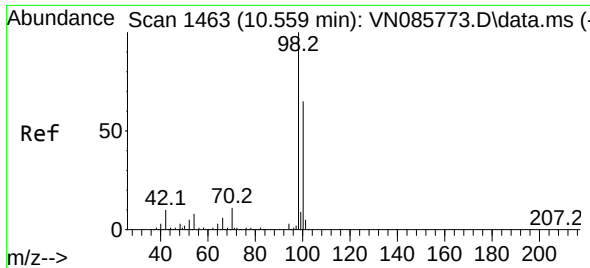
Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

192 19.3 14.7 22.1

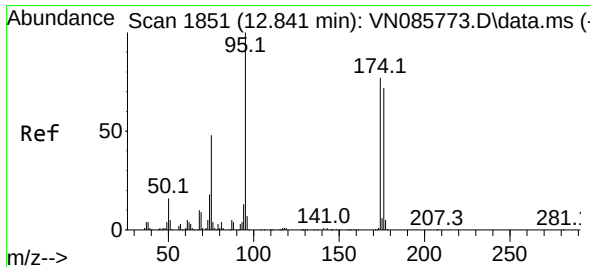
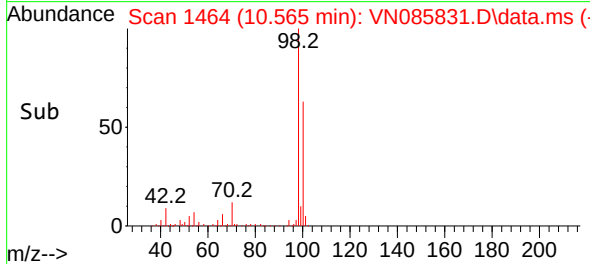
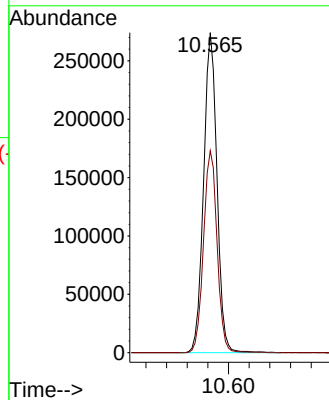
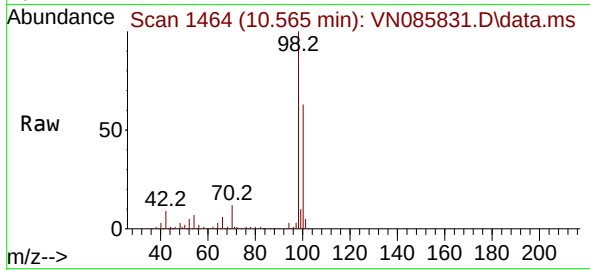




#50
Toluene-d8
Concen: 49.702 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

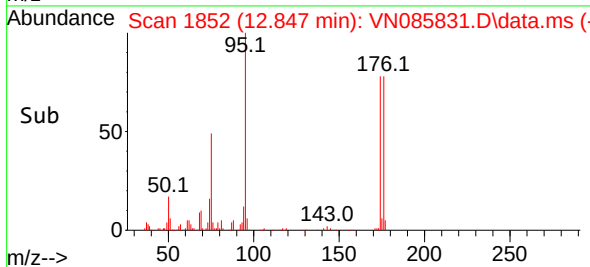
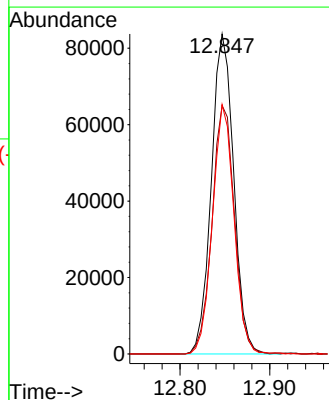
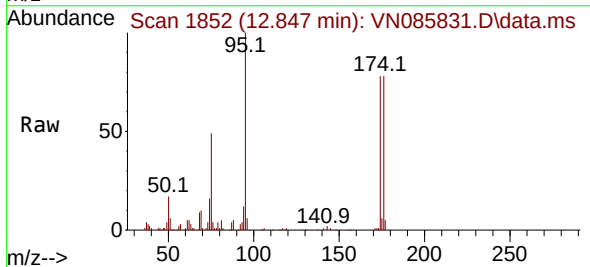
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

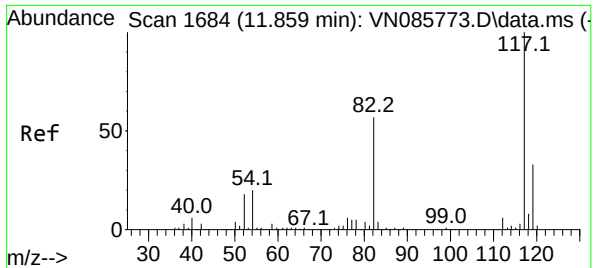
Tgt Ion: 98 Resp: 492086
Ion Ratio Lower Upper
98 100
100 64.1 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 44.314 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 95 Resp: 144556
Ion Ratio Lower Upper
95 100
174 78.3 0.0 152.4
176 75.3 0.0 146.6

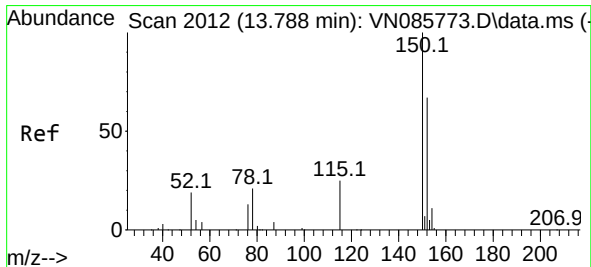
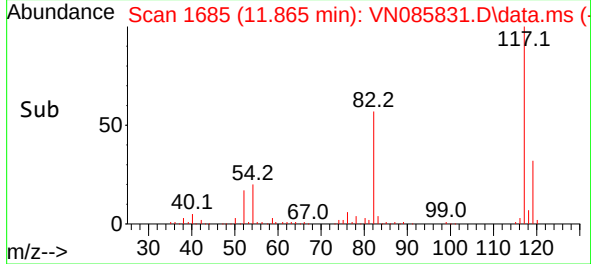
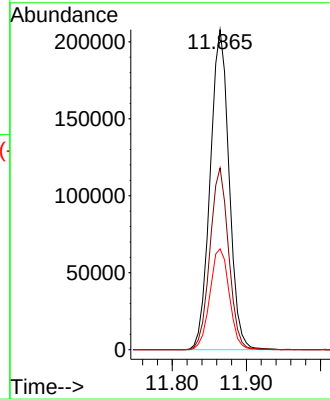
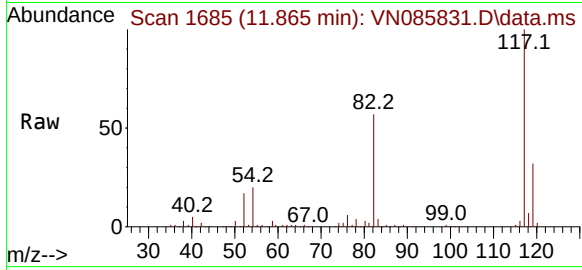




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

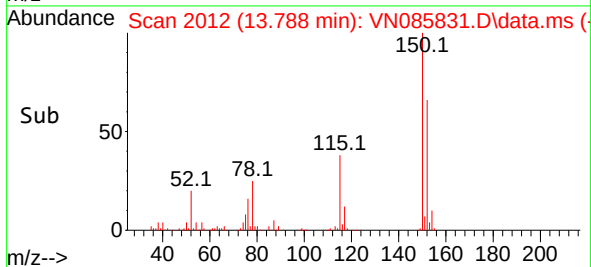
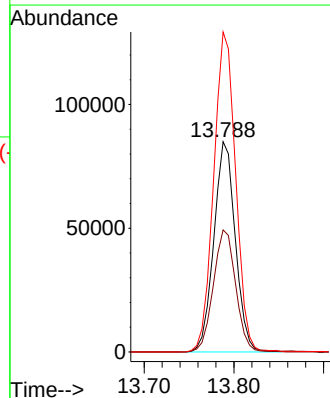
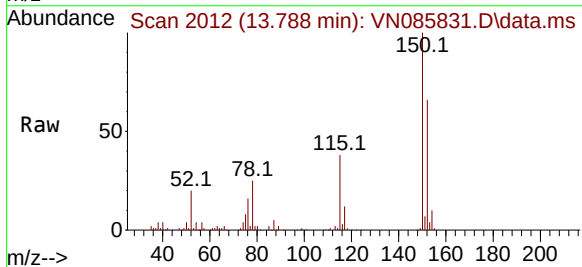
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:117 Resp: 368217
Ion Ratio Lower Upper
117 100
82 56.8 45.7 68.5
119 31.5 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:152 Resp: 141296
Ion Ratio Lower Upper
152 100
115 60.3 30.4 91.3
150 155.6 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	205136	471936	37.31%	7.207%
2	8.224	1060	1066	1080	rVB	302270	684714	54.13%	10.456%
3	8.577	1116	1126	1135	rBV	210858	472035	37.32%	7.208%
4	8.665	1135	1141	1146	rBV2	4446	12824	1.01%	0.196%
5	8.788	1154	1162	1178	rVB3	15910	63502	5.02%	0.970%
6	9.100	1205	1215	1227	rBV	475024	962861	76.12%	14.703%
7	10.565	1454	1464	1479	rBV	696413	1264982	100.00%	19.317%
8	11.865	1677	1685	1699	rBV	614373	1091818	86.31%	16.672%
9	12.847	1844	1852	1866	rBV	404746	692703	54.76%	10.578%
10	13.788	2005	2012	2023	rBV	491642	831252	65.71%	12.694%

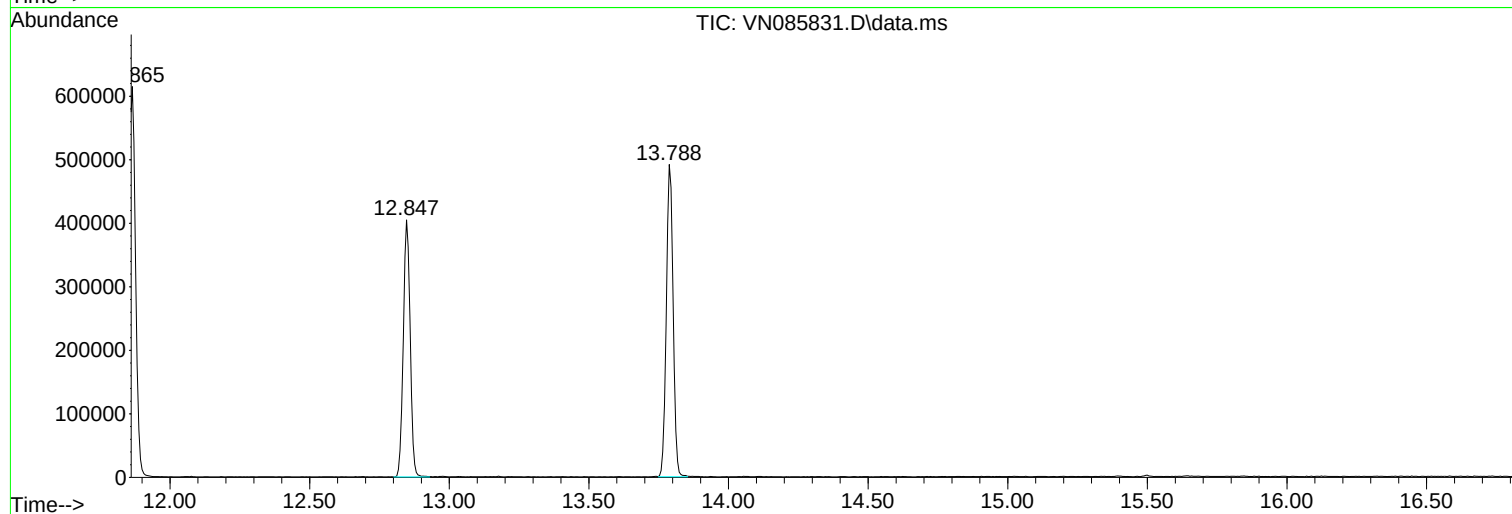
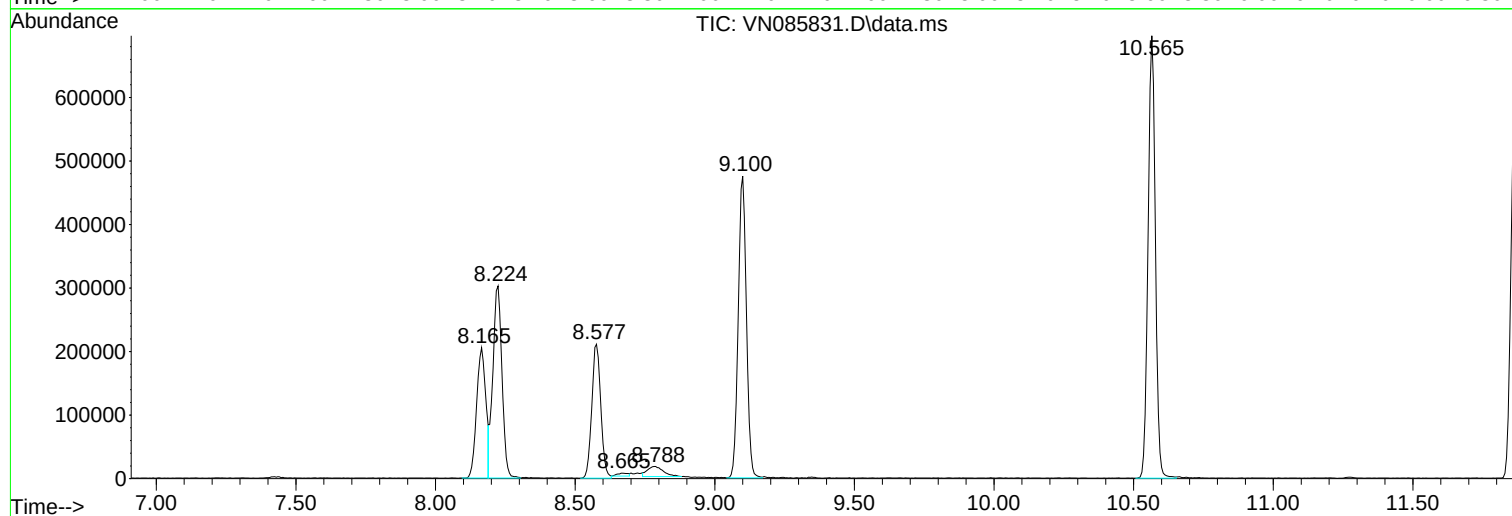
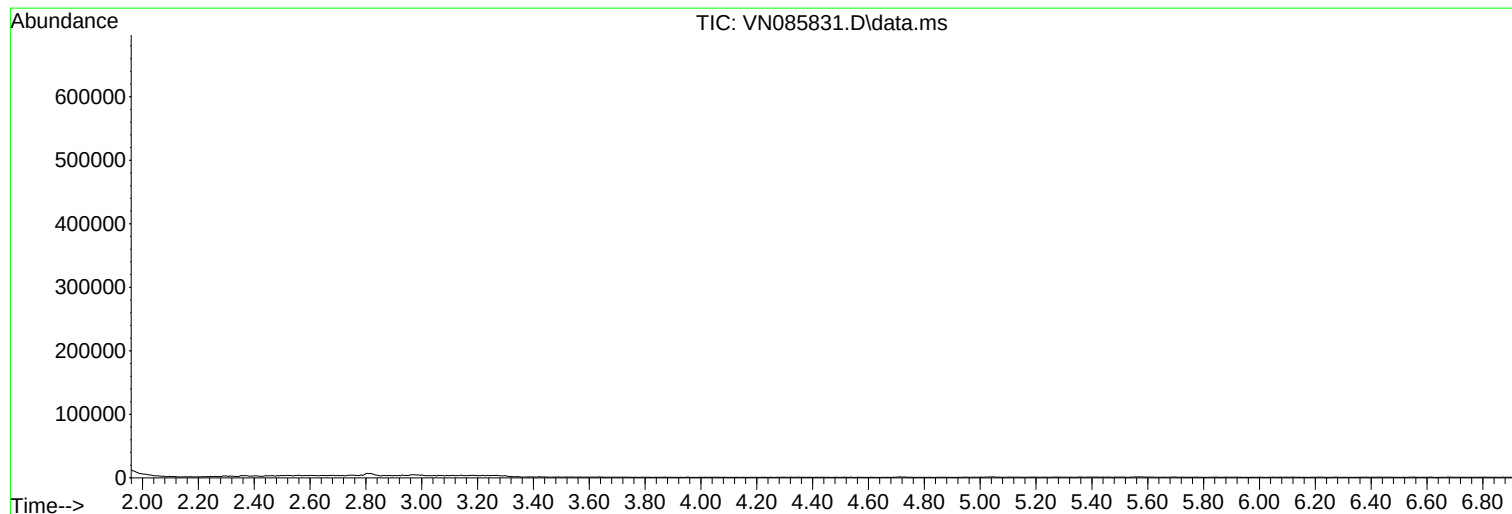
Sum of corrected areas: 6548627

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VN0225WBL01			SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.2		70 (74) - 130 (125)	124%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		70 (77) - 130 (121)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	424000	9.1			
3114-55-4	Chlorobenzene-d5	361000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VN0225WBL01			SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085849.D
 Acq On : 25 Feb 2025 11:43
 Operator : JC\MD
 Sample : VN0225WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	216938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	423956	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	361345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136612	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	174897	62.185	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	124.380%
35) Dibromofluoromethane	8.165	113	154931	55.848	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	111.700%
50) Toluene-d8	10.565	98	493684	48.912	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.820%
62) 4-Bromofluorobenzene	12.847	95	139391	41.916	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	83.840%

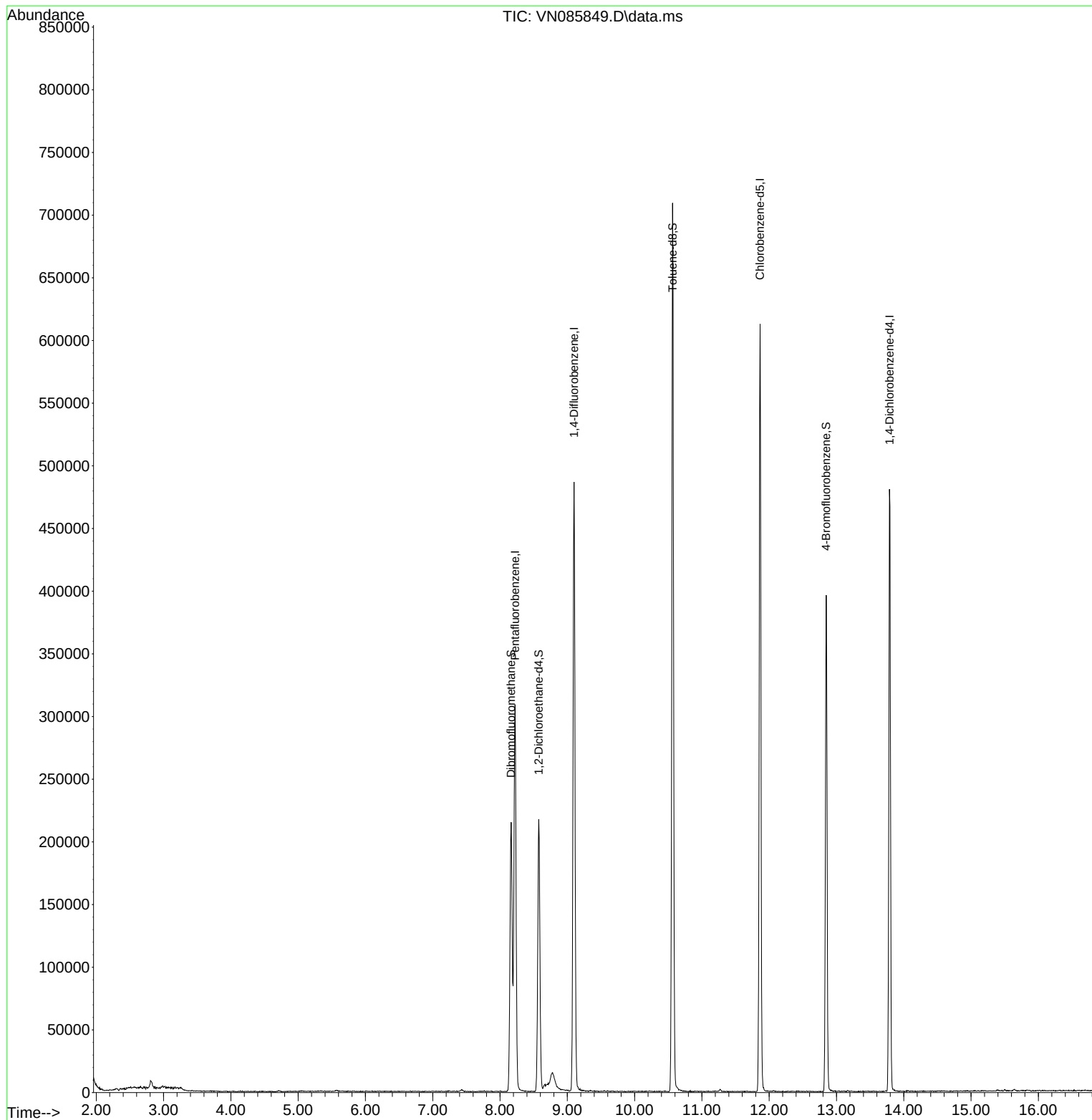
Target Compounds	Qvalue

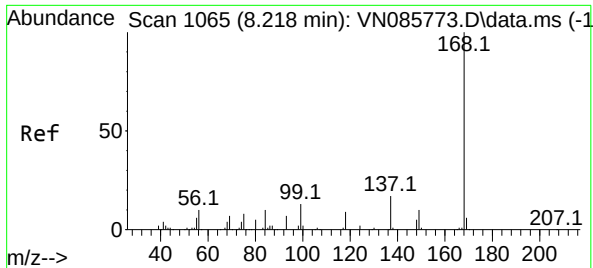
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

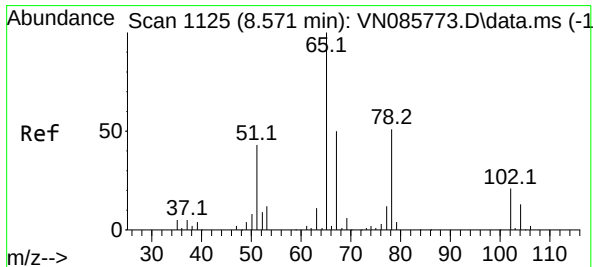
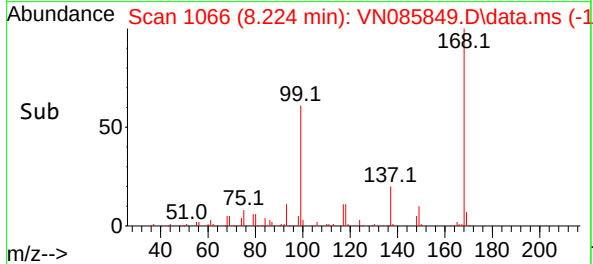
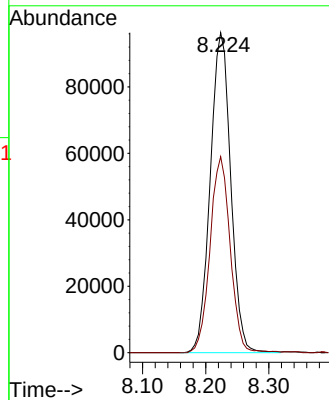
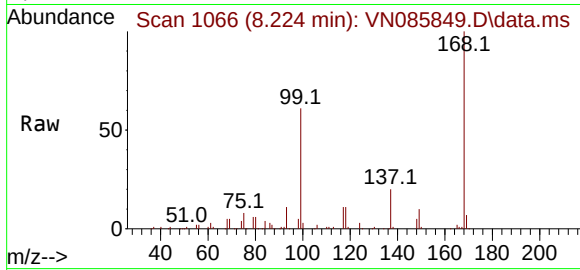




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

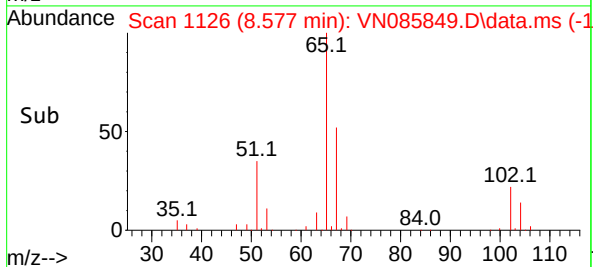
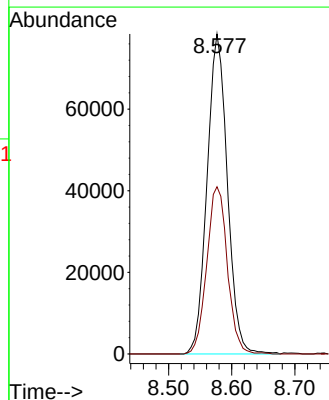
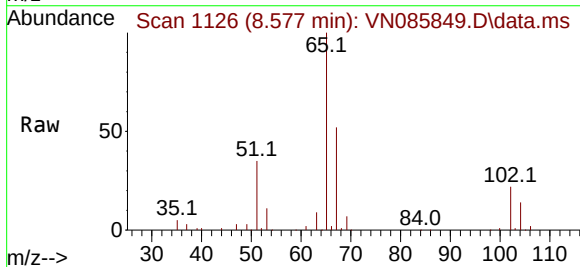
Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

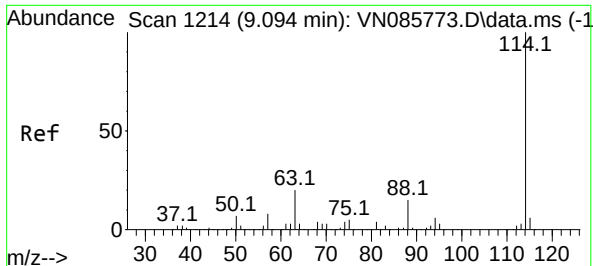
Tgt Ion:168 Resp: 216938
Ion Ratio Lower Upper
168 100
99 61.3 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 62.185 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 65 Resp: 174897
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085849.D

Acq: 25 Feb 2025 11:43

Instrument :

MSVOA_N

ClientSampleId :

VN0225WBL01

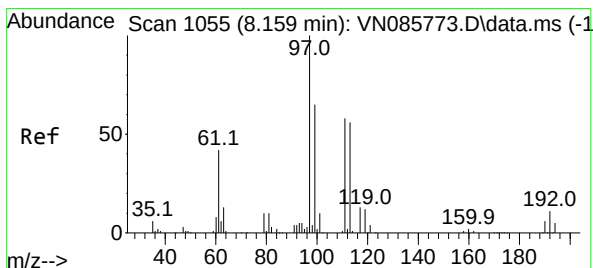
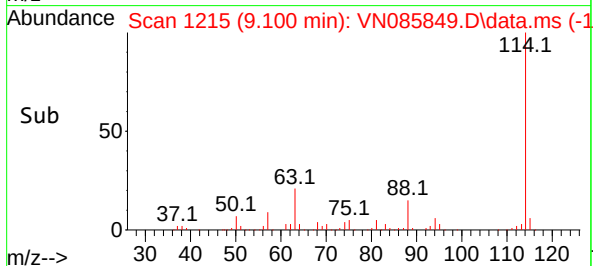
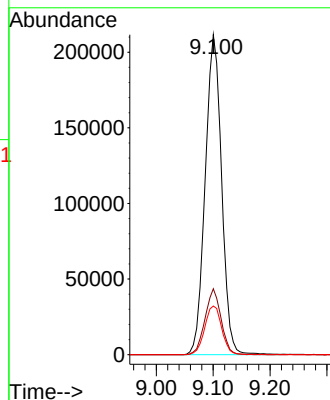
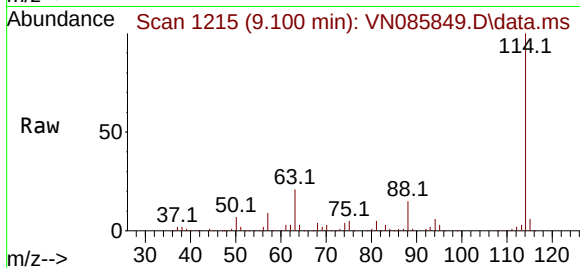
Tgt Ion:114 Resp: 423956

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.2

88 15.2 0.0 30.0



#35

Dibromofluoromethane

Concen: 55.848 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085849.D

Acq: 25 Feb 2025 11:43

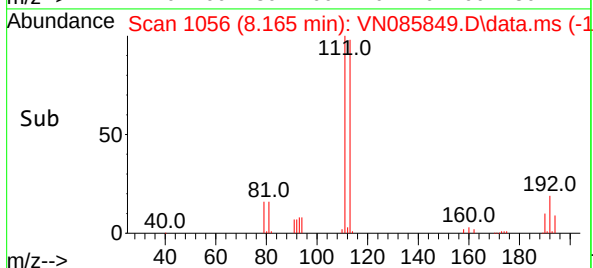
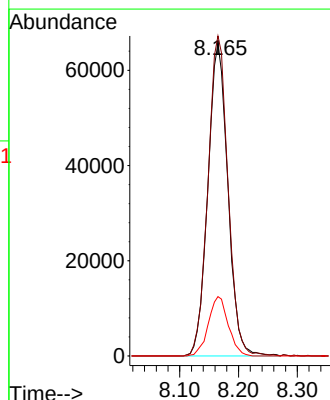
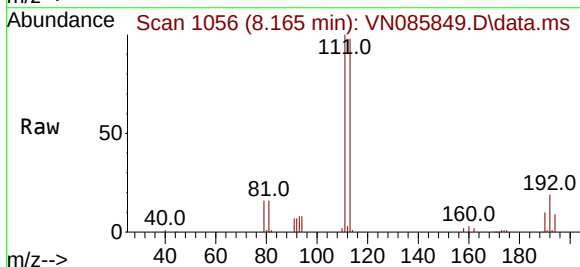
Tgt Ion:113 Resp: 154931

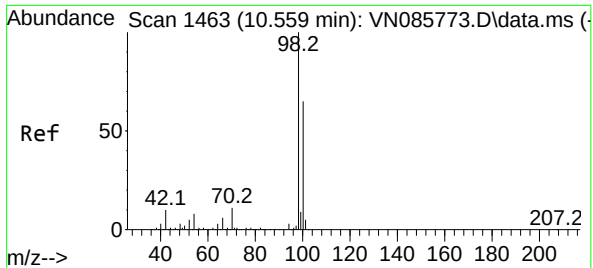
Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 18.9 14.7 22.1

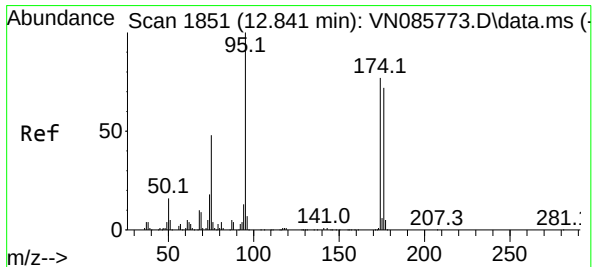
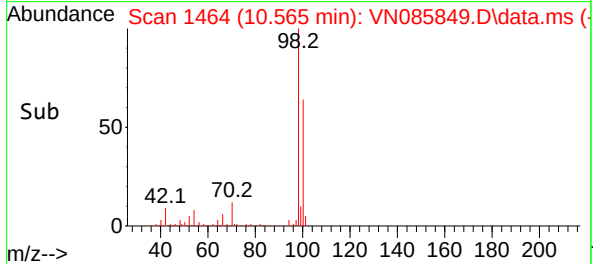
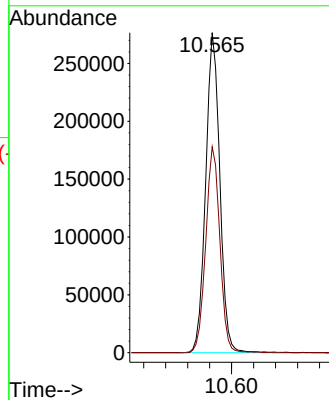
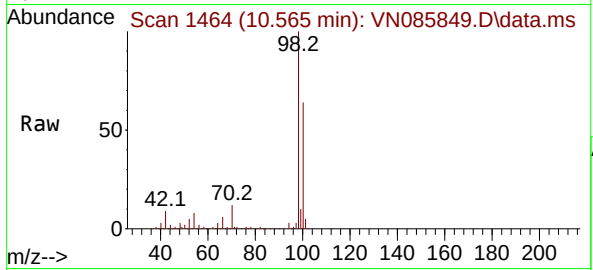




#50
Toluene-d8
Concen: 48.912 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

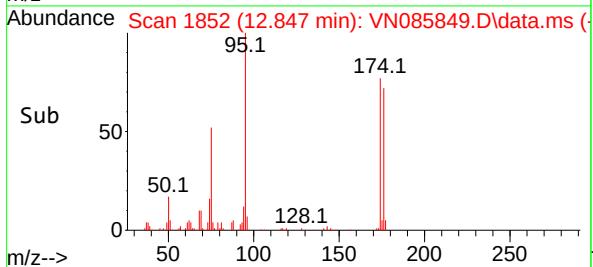
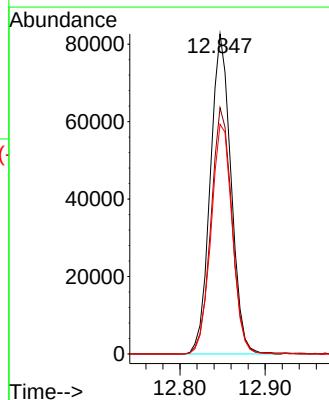
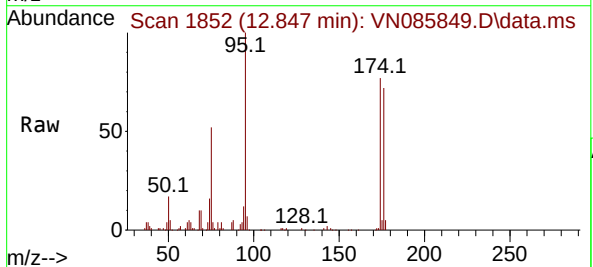
Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

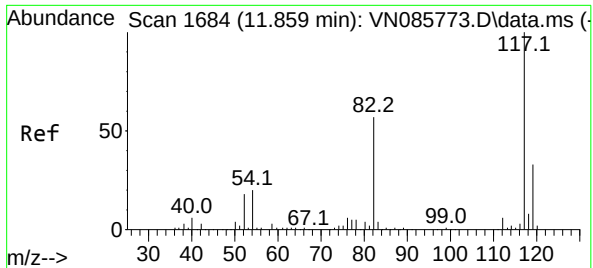
Tgt Ion: 98 Resp: 493684
Ion Ratio Lower Upper
98 100
100 64.3 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 41.916 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 95 Resp: 139391
Ion Ratio Lower Upper
95 100
174 78.1 0.0 152.4
176 73.5 0.0 146.6

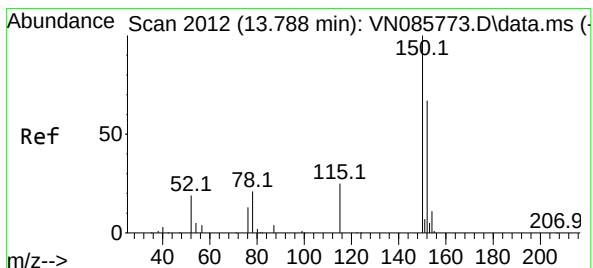
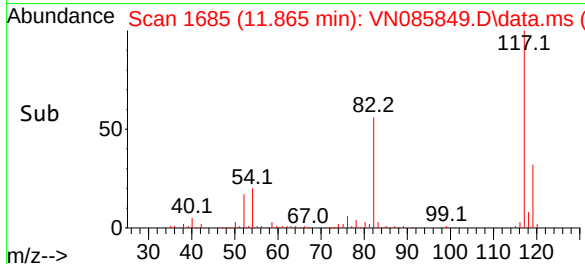
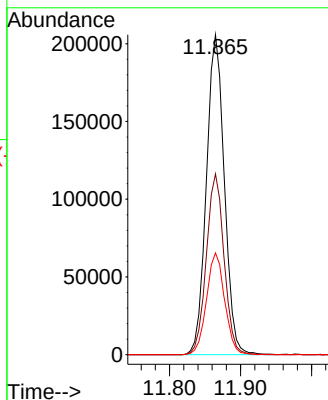
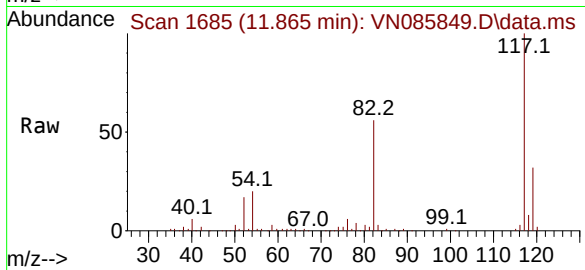




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

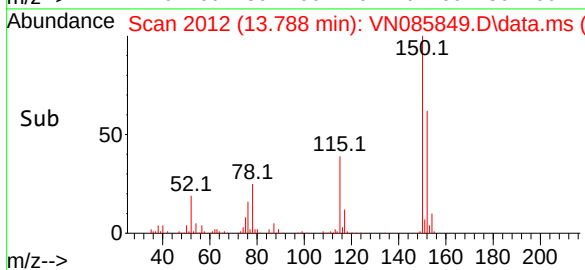
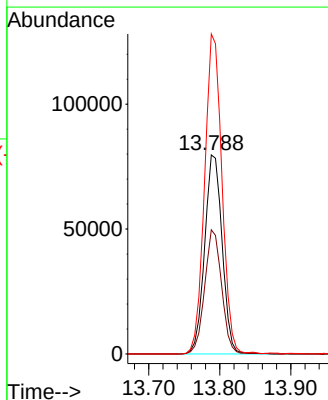
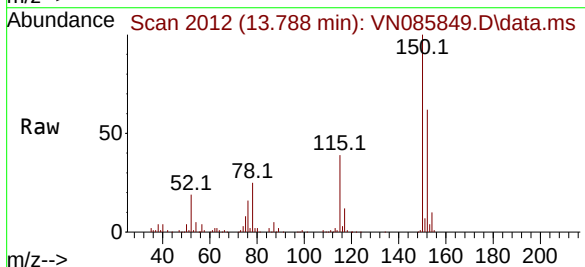
Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:117 Resp: 361345
Ion Ratio Lower Upper
117 100
82 56.5 45.7 68.5
119 31.8 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion:152 Resp: 136612
Ion Ratio Lower Upper
152 100
115 60.5 30.4 91.3
150 159.2 0.0 345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Title : SW846 8260

Signal : TIC: VN085849.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.806	139	145	154	rVB5	6141	14877	1.17%	0.228%
2	8.165	1045	1056	1061	rBV	214635	515100	40.40%	7.892%
3	8.224	1061	1066	1077	rVB	307449	659549	51.73%	10.105%
4	8.577	1117	1126	1135	rBV	217088	483449	37.92%	7.407%
5	8.777	1153	1160	1172	rVB2	11409	43711	3.43%	0.670%
6	9.100	1206	1215	1224	rBV	485604	978102	76.71%	14.985%
7	10.565	1454	1464	1479	rBV	708942	1275050	100.00%	19.534%
8	11.865	1676	1685	1699	rBV	612088	1074090	84.24%	16.456%
9	12.847	1844	1852	1863	rBV	396038	670906	52.62%	10.279%
10	13.788	2005	2012	2020	rBV	480400	812359	63.71%	12.446%

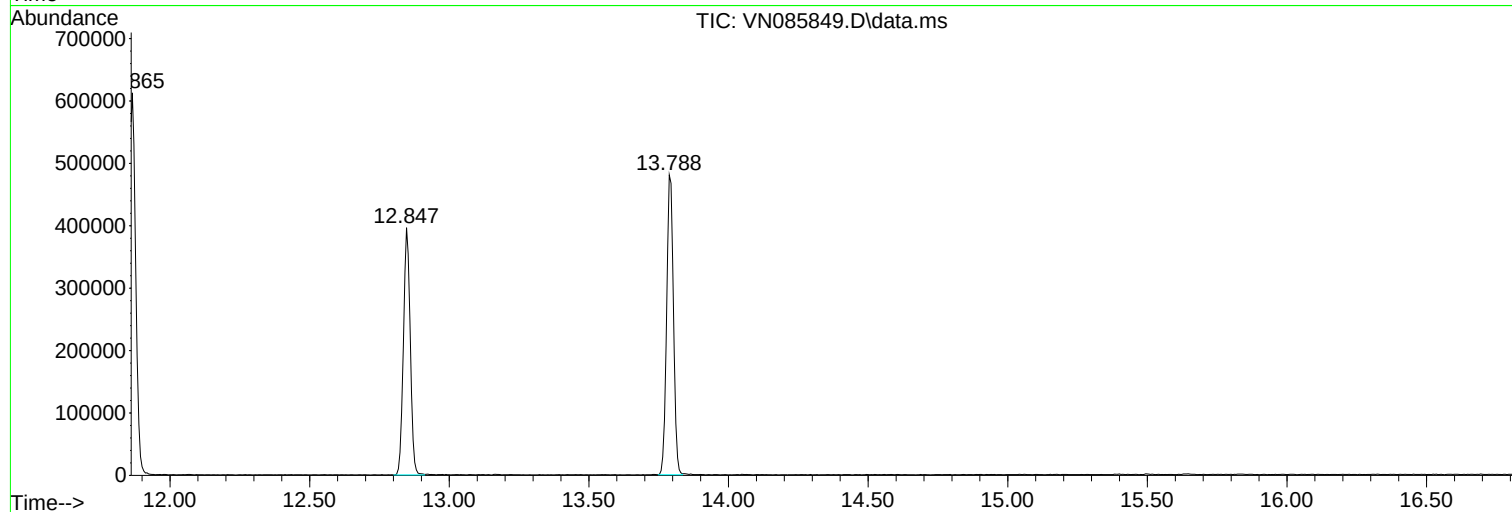
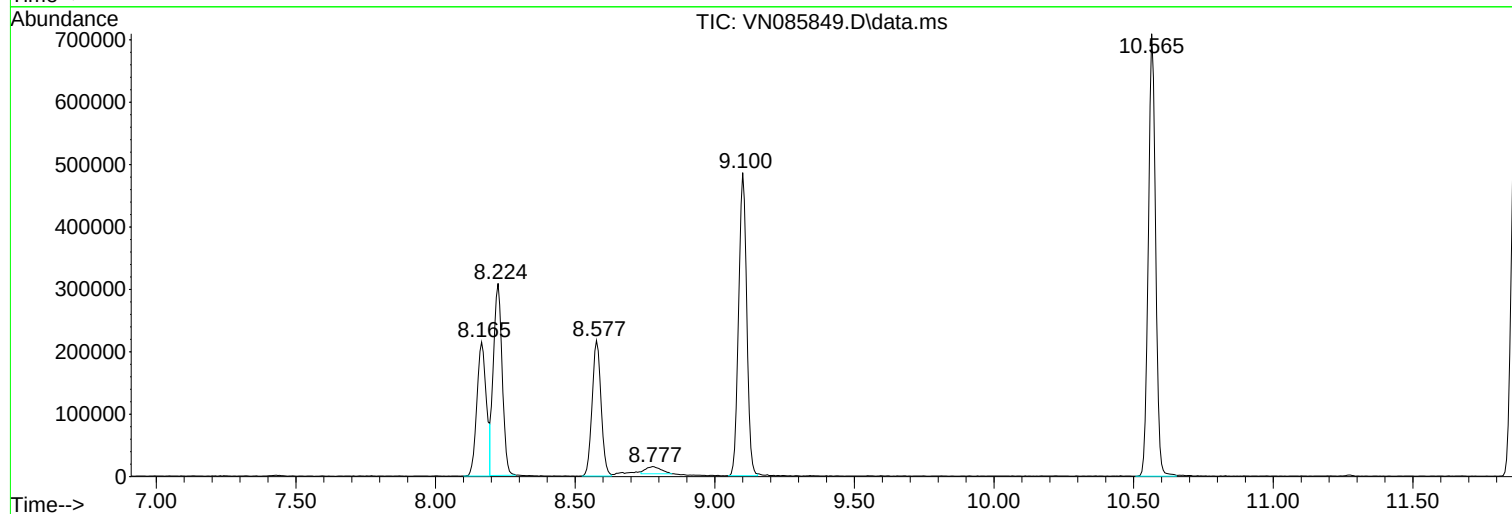
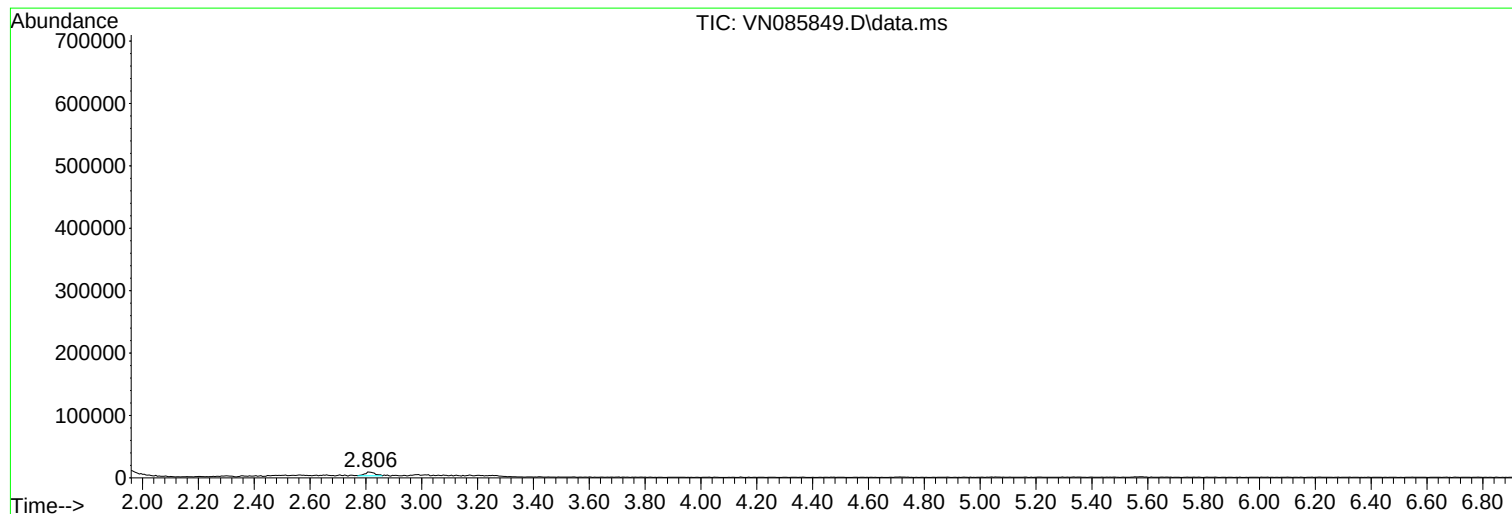
Sum of corrected areas: 6527193

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	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
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	7.713			
540-36-3	1,4-Difluorobenzene	484000	8.615			
3114-55-4	Chlorobenzene-d5	470000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.346			



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:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

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\VY022625\
 Data File : VY021321.D
 Acq On : 26 Feb 2025 10:50
 Operator : SY/MD
 Sample : VY0226SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	251129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	483695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	470141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	192201	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151228	53.084	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	106.160%
35) Dibromofluoromethane	7.634	113	156988	49.505	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.020%
50) Toluene-d8	10.109	98	601618	49.089	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.180%
62) 4-Bromofluorobenzene	12.407	95	206622	50.096	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.200%

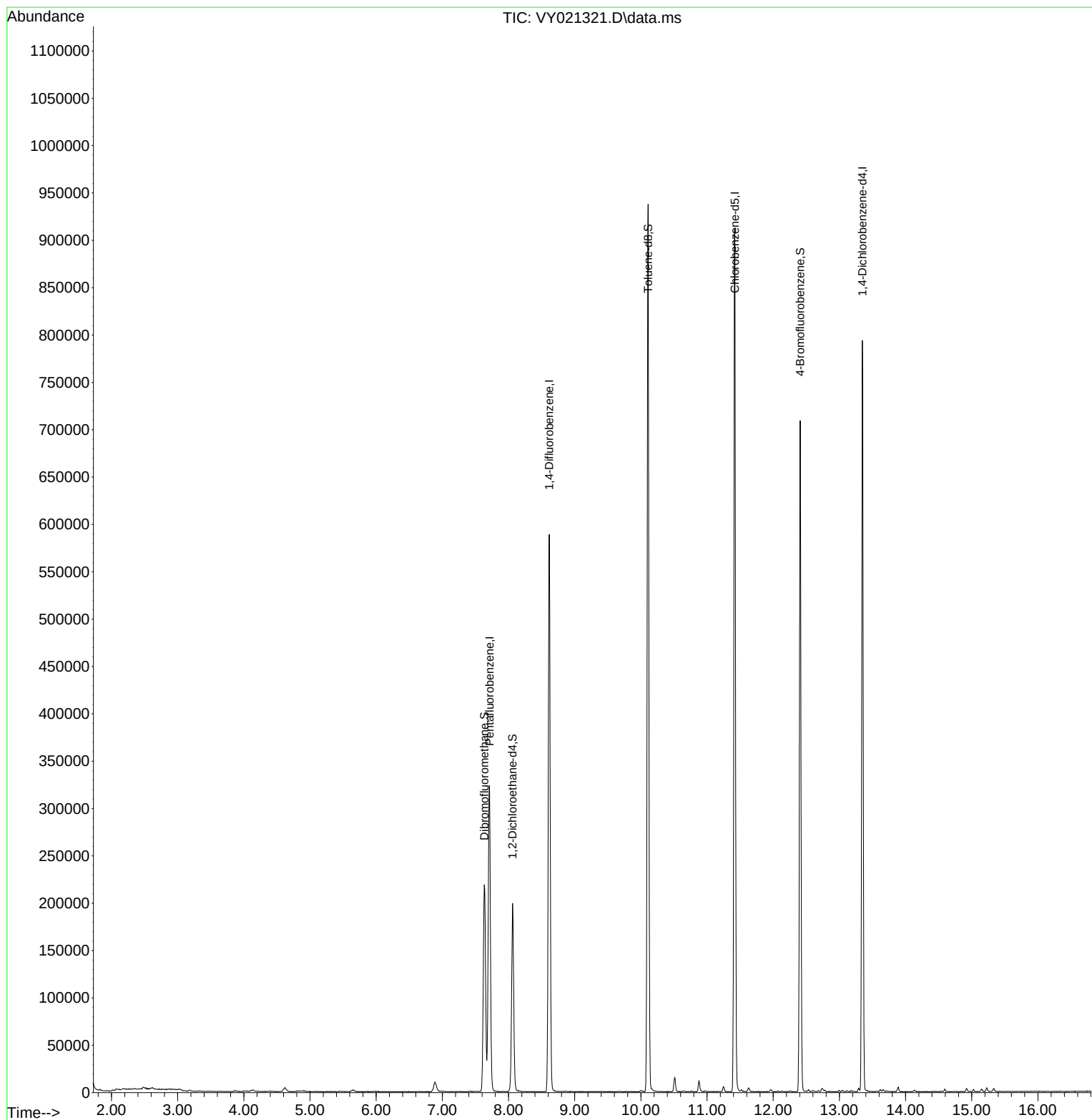
Target Compounds	Qvalue

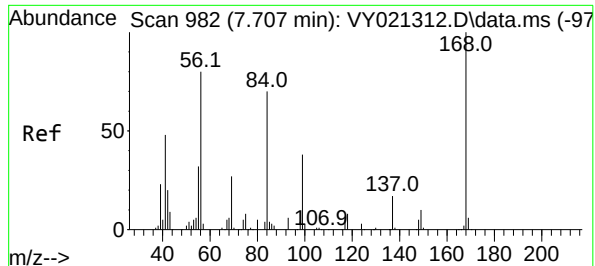
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

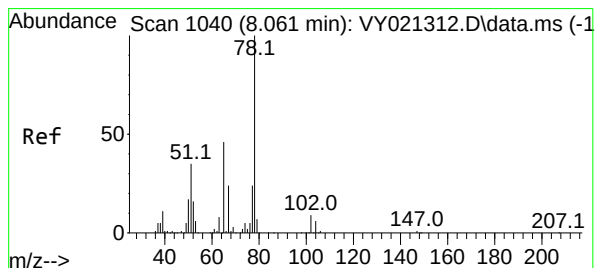
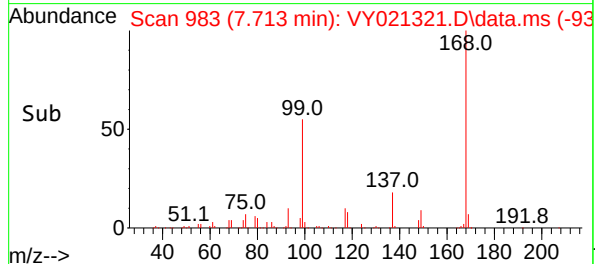
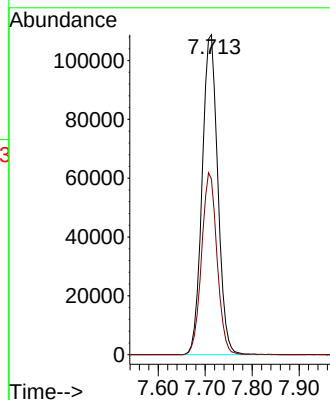
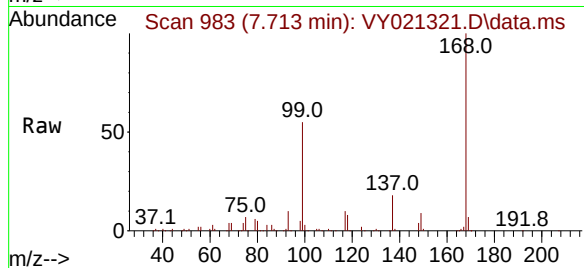




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

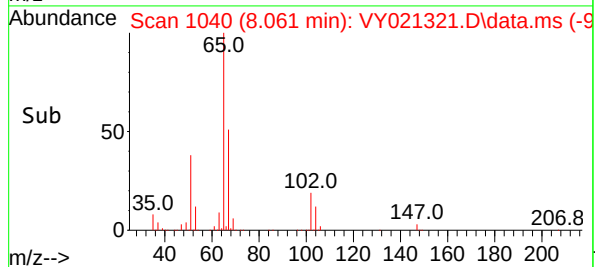
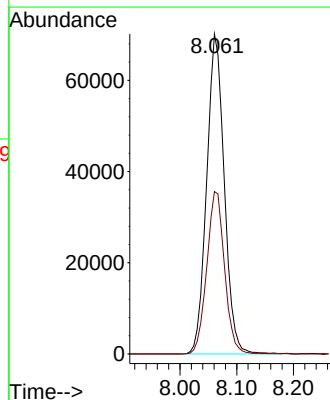
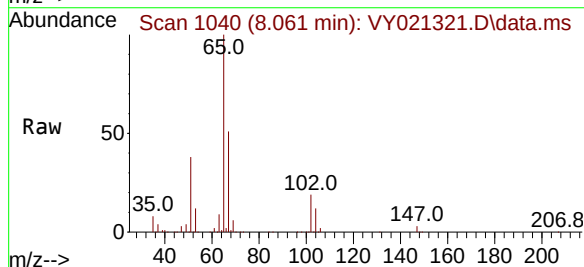
Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

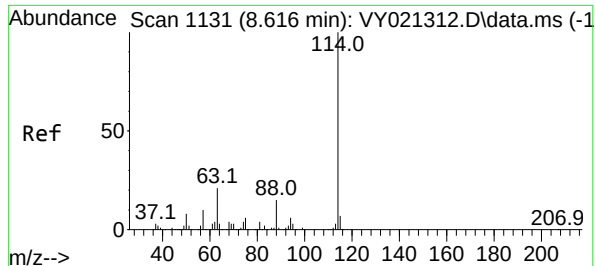
Tgt Ion:168 Resp: 251129
Ion Ratio Lower Upper
168 100
99 54.9 47.1 70.7



#33
1,2-Dichloroethane-d4
Concen: 53.084 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion: 65 Resp: 151228
Ion Ratio Lower Upper
65 100
67 51.4 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

Instrument :

MSVOA_Y

ClientSampleId :

VY0226SBL01

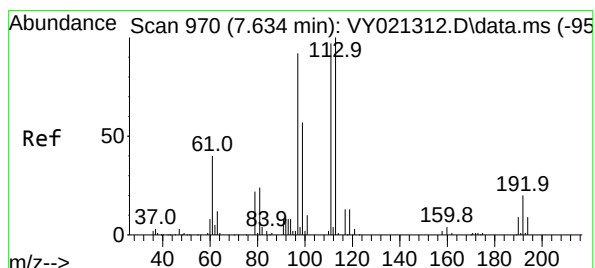
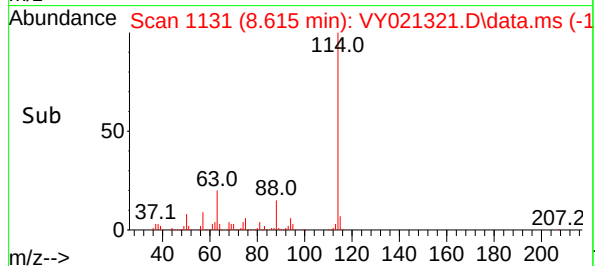
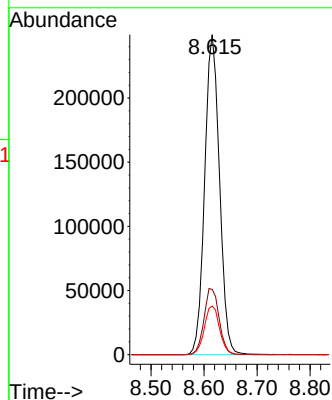
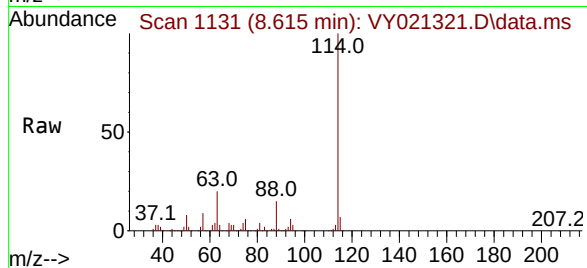
Tgt Ion:114 Resp: 483695

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.2

88 15.2 0.0 29.8



#35

Dibromofluoromethane

Concen: 49.505 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

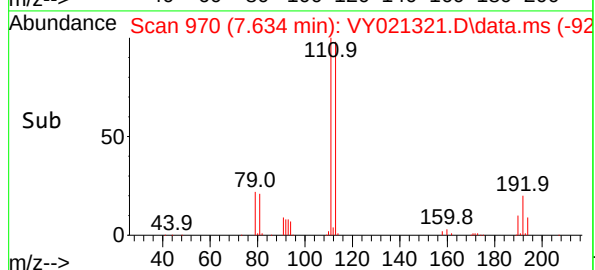
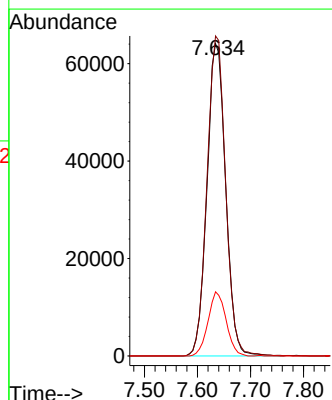
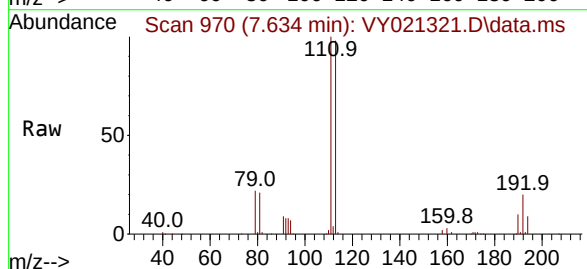
Tgt Ion:113 Resp: 156988

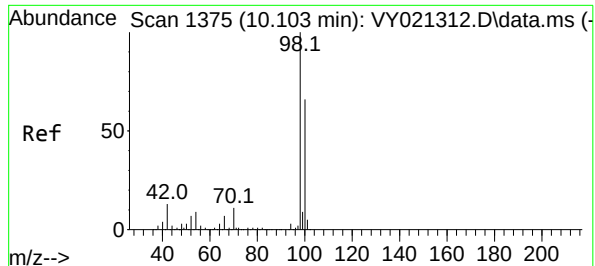
Ion Ratio Lower Upper

113 100

111 102.0 81.0 121.6

192 19.8 15.8 23.8





#50

Toluene-d8

Concen: 49.089 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

Instrument :

MSVOA_Y

ClientSampleId :

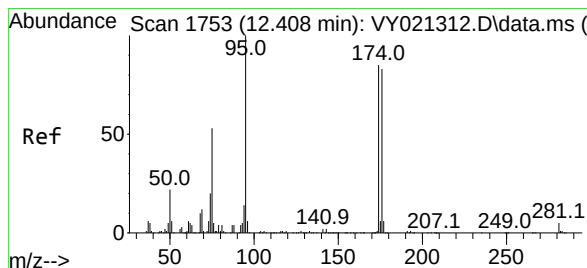
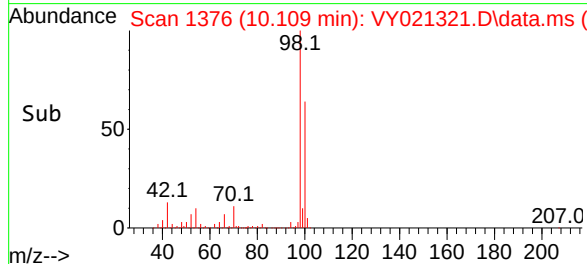
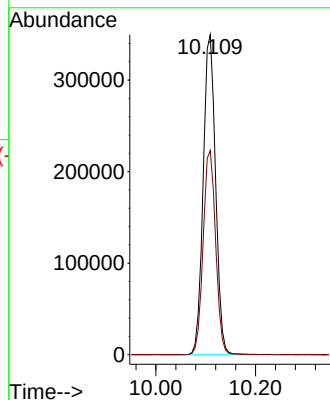
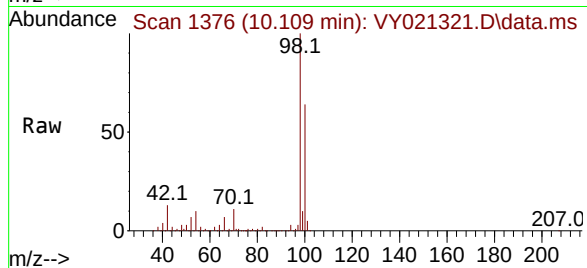
VY0226SBL01

Tgt Ion: 98 Resp: 601618

Ion Ratio Lower Upper

98 100

100 64.4 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 50.096 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

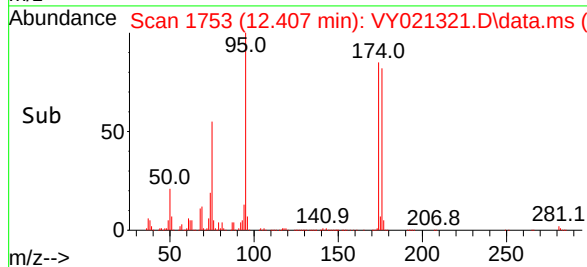
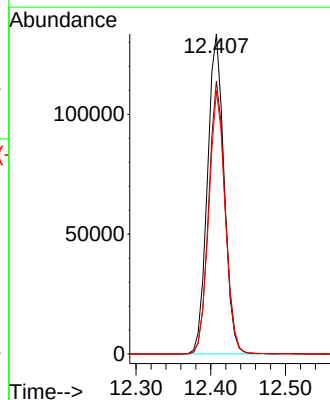
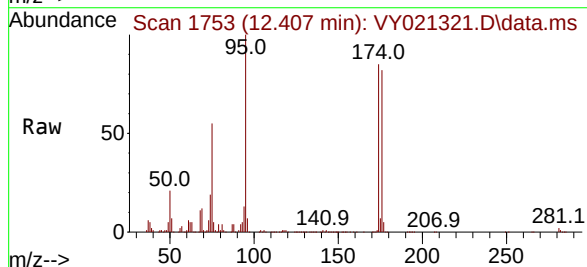
Tgt Ion: 95 Resp: 206622

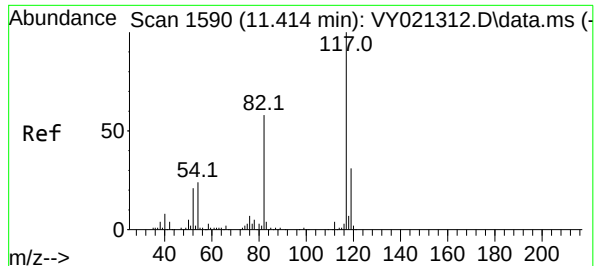
Ion Ratio Lower Upper

95 100

174 84.3 0.0 168.0

176 80.7 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

Instrument :

MSVOA_Y

ClientSampleId :

VY0226SBL01

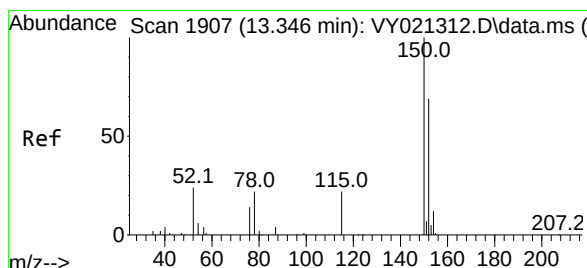
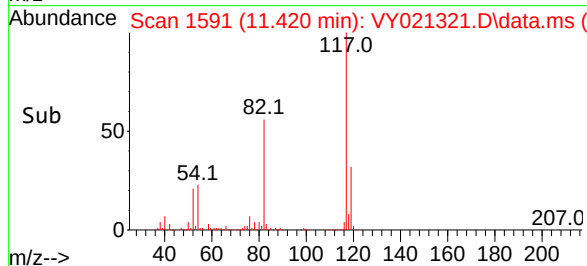
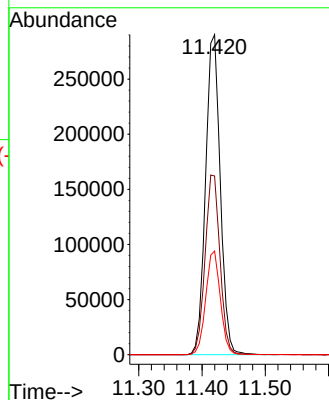
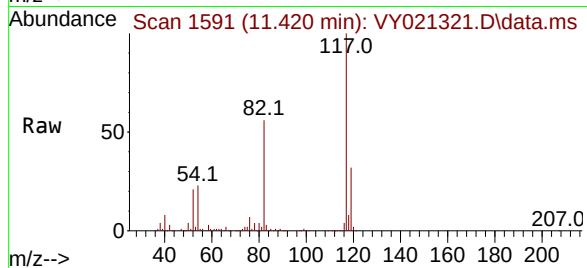
Tgt Ion:117 Resp: 470141

Ion Ratio Lower Upper

117 100

82 55.8 46.2 69.4

119 32.4 24.9 37.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY021321.D

Acq: 26 Feb 2025 10:50

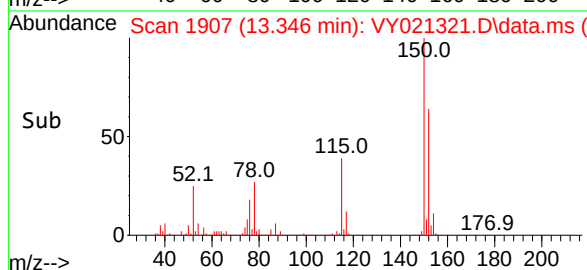
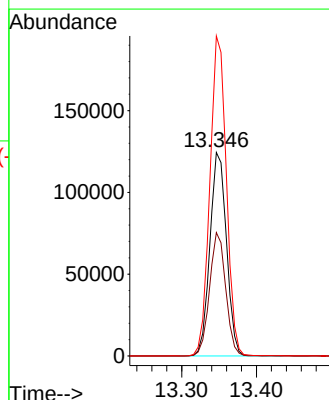
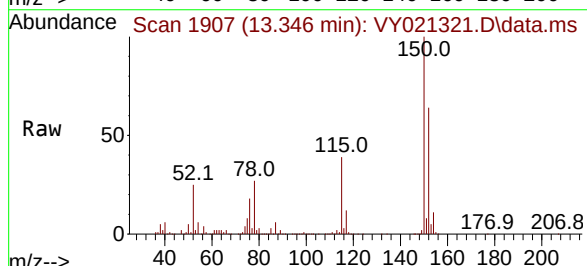
Tgt Ion:152 Resp: 192201

Ion Ratio Lower Upper

152 100

115 59.0 29.3 88.0

150 156.2 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M

Title : SW846 8260

Signal : TIC: VY021321.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	837	848	858	rBV	10339	32583	2.00%	0.388%
2	7.634	959	970	976	rBV	218621	526717	32.34%	6.272%
3	7.707	976	982	995	rVB	322770	750354	46.06%	8.935%
4	8.061	1027	1040	1053	rBV	199017	436262	26.78%	5.195%
5	8.615	1121	1131	1146	rBV	588653	1157316	71.05%	13.781%
6	10.109	1368	1376	1393	rBV	937010	1628919	100.00%	19.397%
7	10.511	1434	1442	1451	rVB2	14814	27683	1.70%	0.330%
8	10.877	1496	1502	1512	rVB	11354	19861	1.22%	0.237%
9	11.420	1583	1591	1603	rBV	912084	1502567	92.24%	17.893%
10	12.407	1746	1753	1765	rBV	708516	1114080	68.39%	13.266%
11	13.346	1901	1907	1918	rVB	792294	1201379	73.75%	14.306%

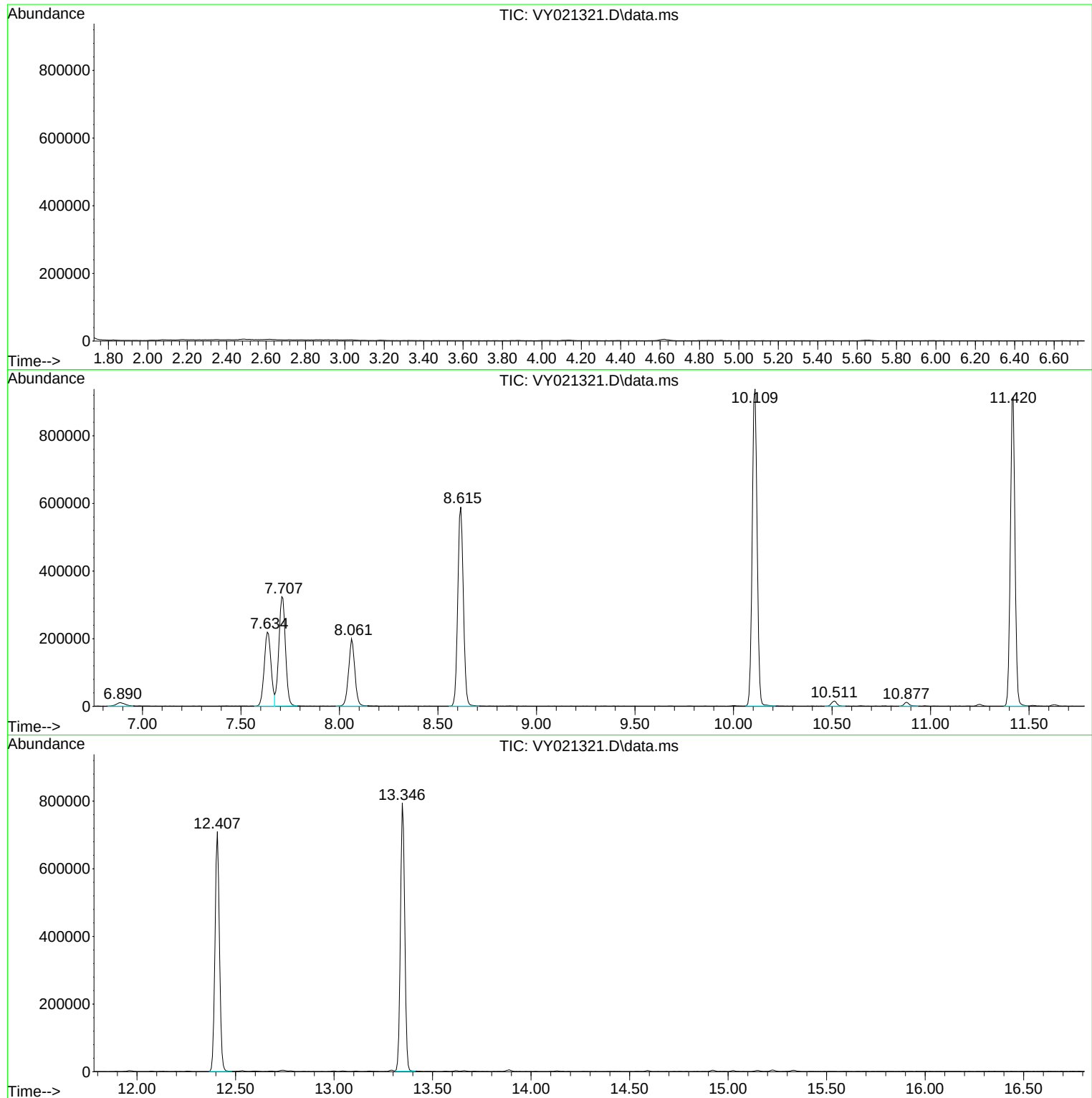
Sum of corrected areas: 8397721

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (29) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.707			
540-36-3	1,4-Difluorobenzene	264000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0227SBL01		SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01		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
VY021347.D	1		02/27/25 10:42	VY022725

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\VY022725\
 Data File : VY021347.D
 Acq On : 27 Feb 2025 10:42
 Operator : SY/MD
 Sample : VY0227SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	140233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	264026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	255103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	107368	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	94225	59.230	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.460%
35) Dibromofluoromethane	7.634	113	90944	52.539	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.080%
50) Toluene-d8	10.109	98	322284	48.176	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.360%
62) 4-Bromofluorobenzene	12.407	95	111519	49.533	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.060%

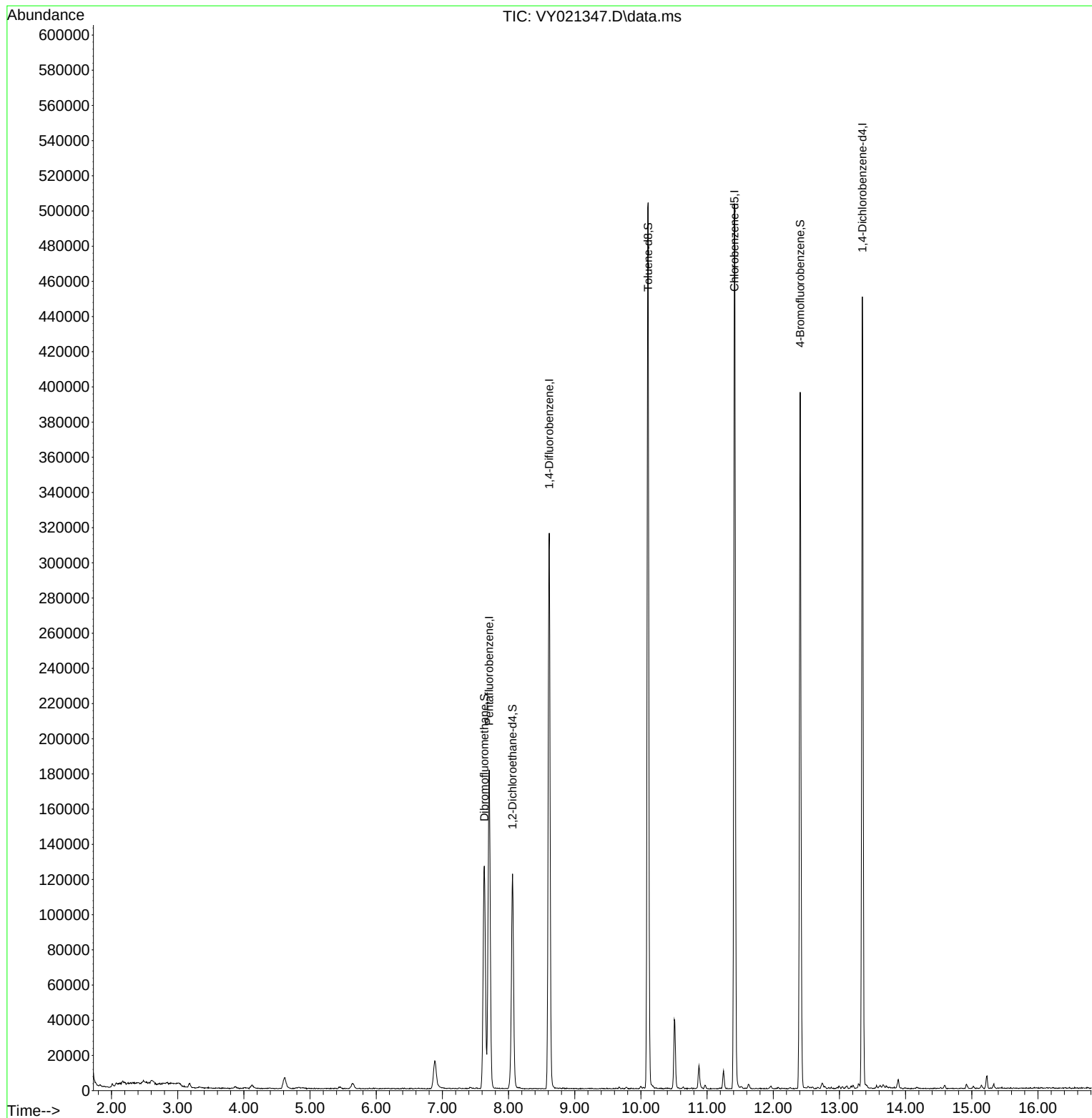
Target Compounds	Qvalue

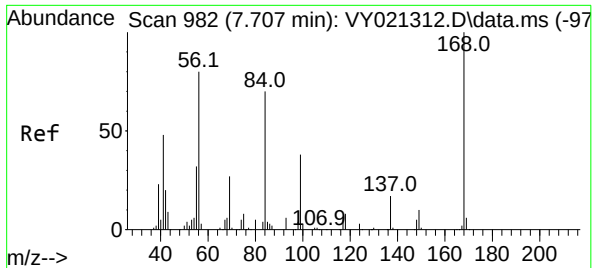
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

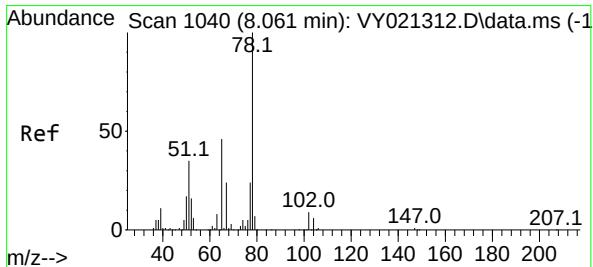
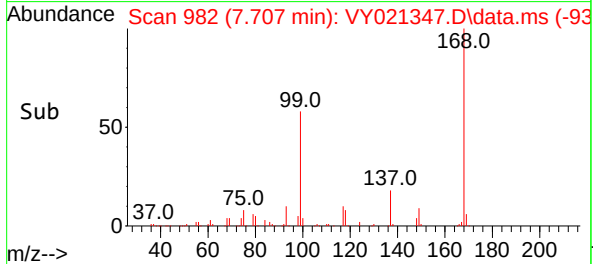
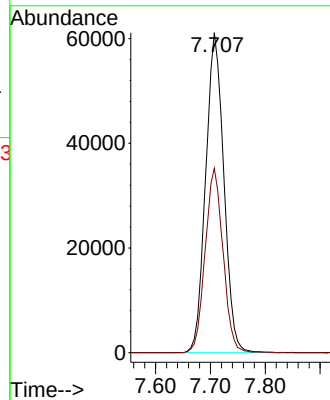
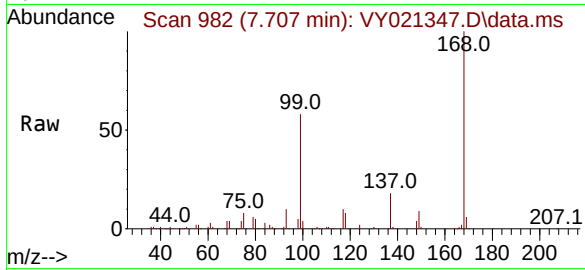




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

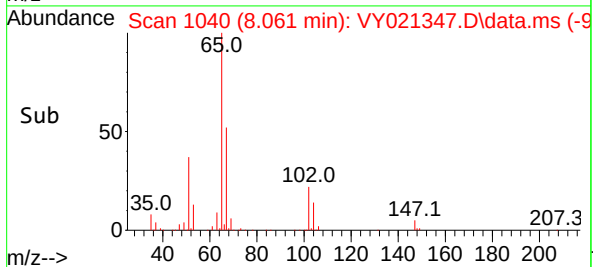
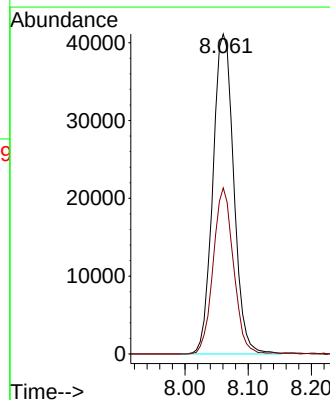
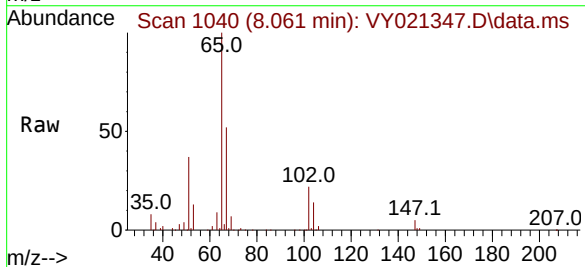
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

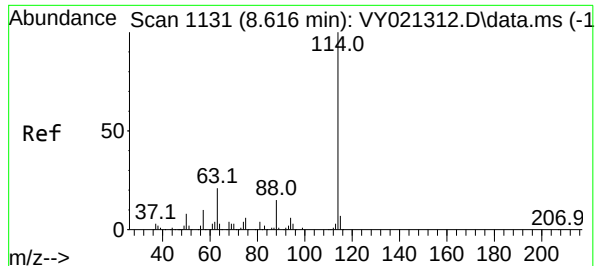
Tgt Ion:168 Resp: 140233
Ion Ratio Lower Upper
168 100
99 57.6 47.1 70.7



#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY021347.D

Acq: 27 Feb 2025 10:42

Instrument :

MSVOA_Y

ClientSampleId :

VY0227SBL01

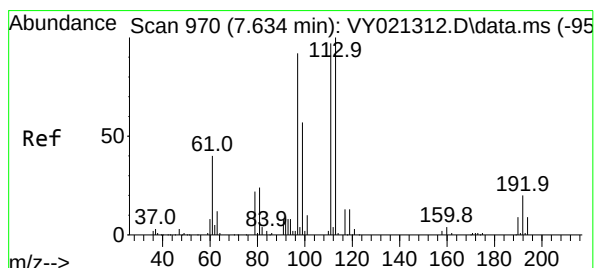
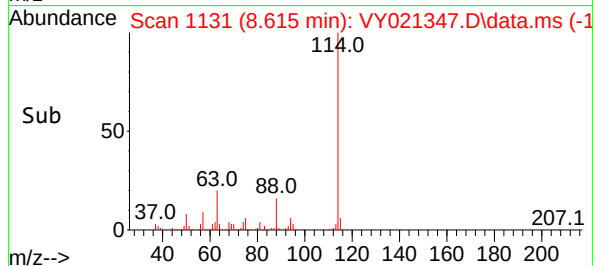
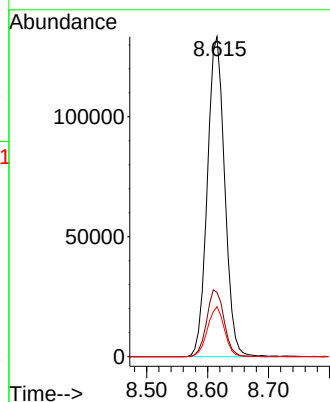
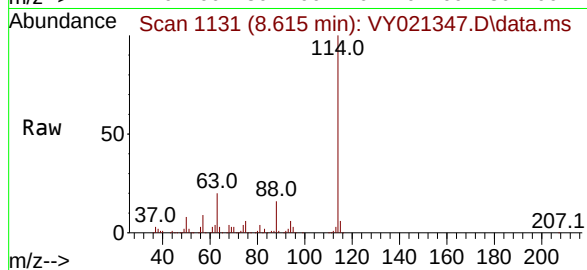
Tgt Ion:114 Resp: 264026

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.2

88 15.7 0.0 29.8



#35

Dibromofluoromethane

Concen: 52.539 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY021347.D

Acq: 27 Feb 2025 10:42

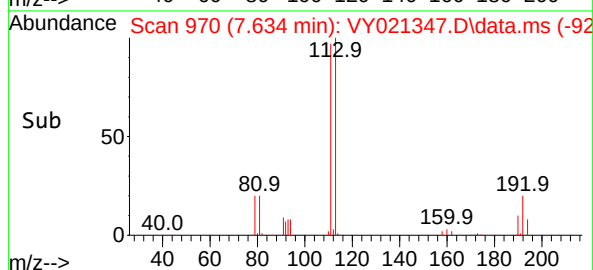
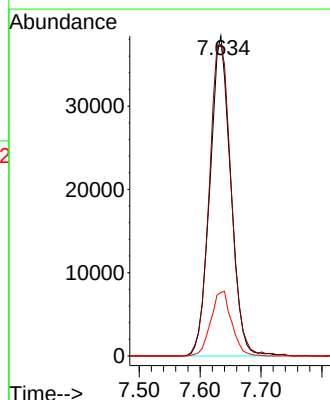
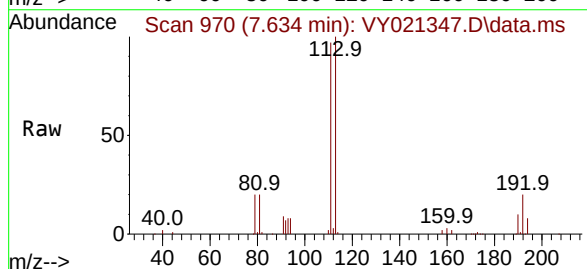
Tgt Ion:113 Resp: 90944

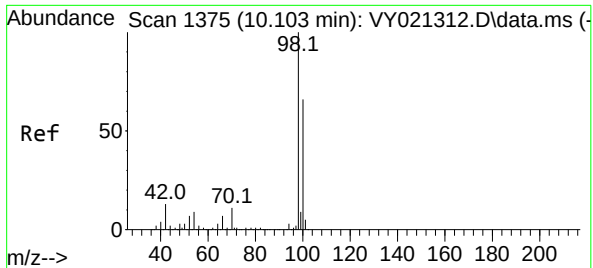
Ion Ratio Lower Upper

113 100

111 103.0 81.0 121.6

192 20.3 15.8 23.8

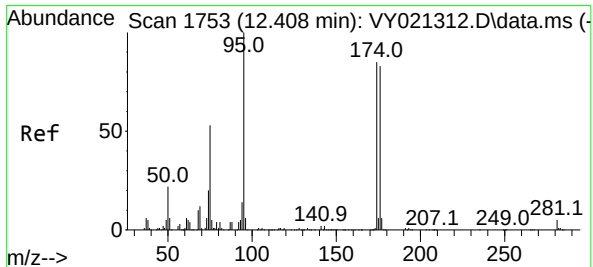
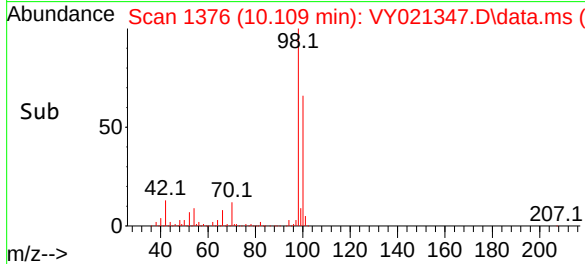
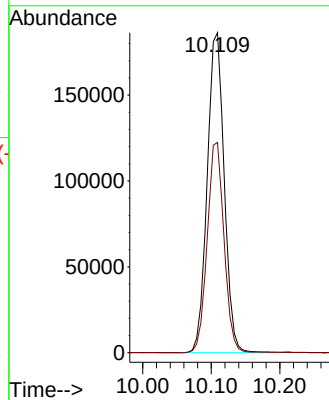
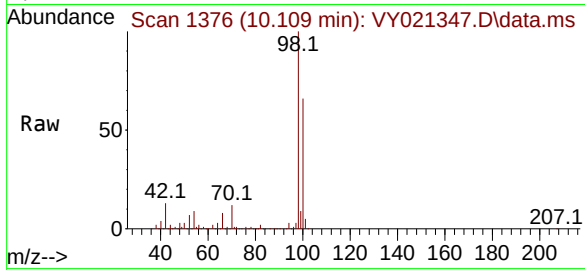




#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

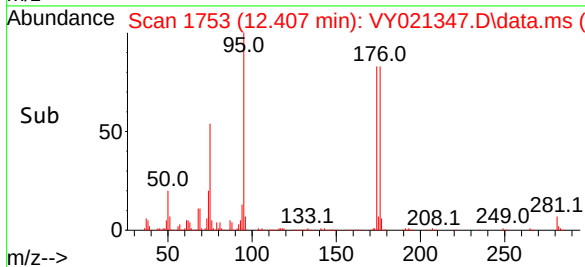
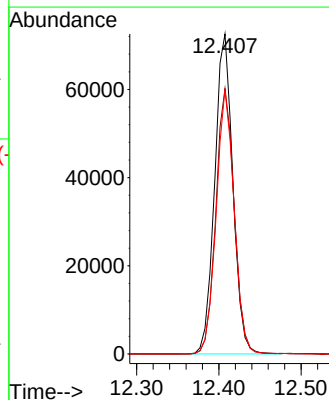
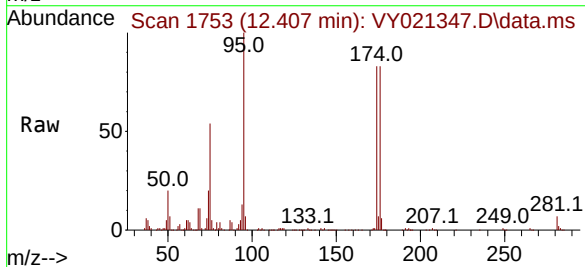
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

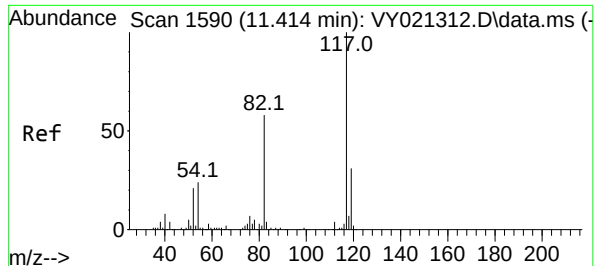
Tgt Ion: 98 Resp: 322284
Ion Ratio Lower Upper
98 100
100 65.0 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 95 Resp: 111519
Ion Ratio Lower Upper
95 100
174 83.8 0.0 168.0
176 81.7 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY021347.D

Acq: 27 Feb 2025 10:42

Instrument :

MSVOA_Y

ClientSampleId :

VY0227SBL01

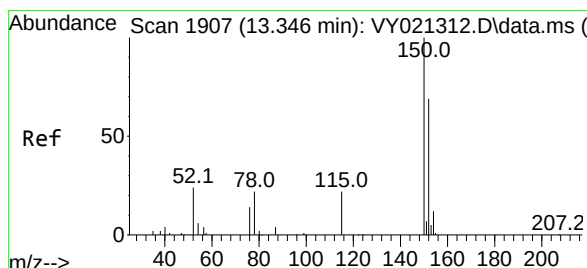
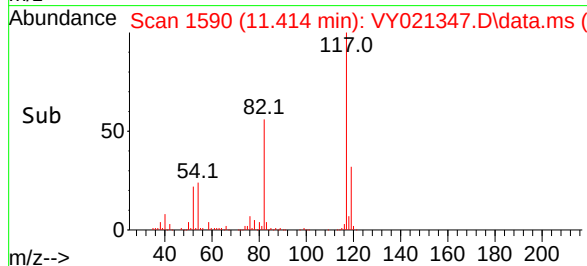
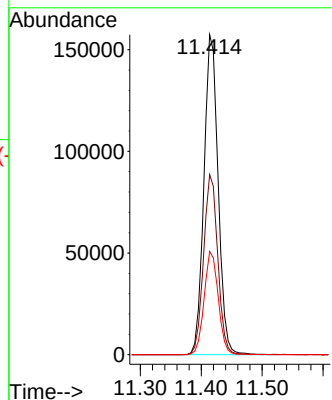
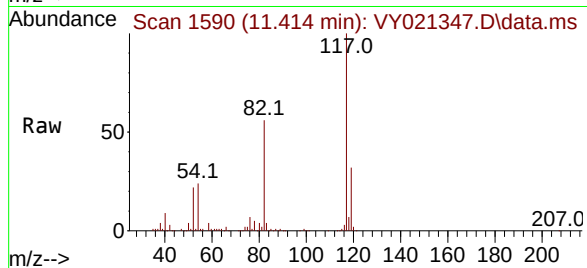
Tgt Ion:117 Resp: 255103

Ion Ratio Lower Upper

117 100

82 56.3 46.2 69.4

119 32.3 24.9 37.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY021347.D

Acq: 27 Feb 2025 10:42

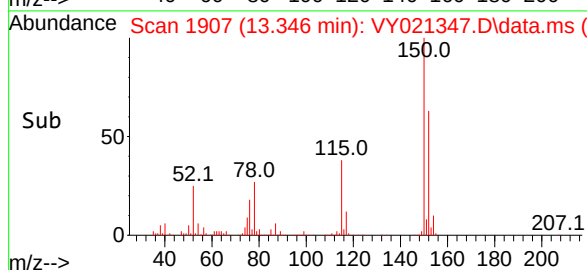
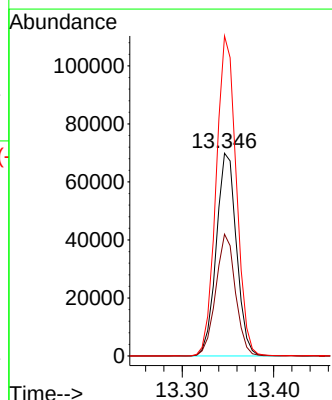
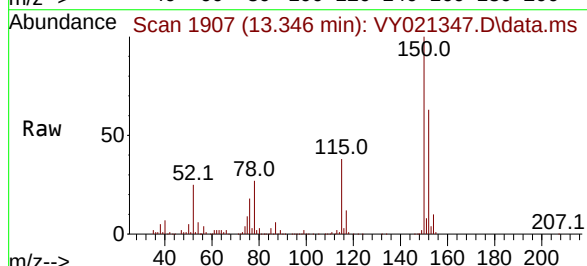
Tgt Ion:152 Resp: 107368

Ion Ratio Lower Upper

152 100

115 58.5 29.3 88.0

150 157.4 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021347.D
 Acq On : 27 Feb 2025 10:42
 Operator : SY/MD
 Sample : VY0227SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0227SBL01

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\82Y022525S.M
 Title : SW846 8260

Signal : TIC: VY021347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	467	475	492	rVB2	6284	21235	2.42%	0.437%
2	5.640	632	643	655	rBV5	3017	9750	1.11%	0.201%
3	6.884	837	847	865	rBV	15930	53856	6.14%	1.109%
4	7.634	960	970	976	rBV2	126557	309026	35.24%	6.363%
5	7.707	976	982	996	rVB	181083	418824	47.76%	8.623%
6	8.061	1027	1040	1051	rBV	122099	283283	32.30%	5.833%
7	8.615	1122	1131	1145	rBV	315845	630977	71.95%	12.992%
8	10.109	1368	1376	1392	rVB	503363	876938	100.00%	18.056%
9	10.505	1434	1441	1450	rBV	39488	72341	8.25%	1.489%
10	10.877	1492	1502	1510	rBV	13045	22855	2.61%	0.471%
11	11.249	1558	1563	1570	rVB	10227	16372	1.87%	0.337%
12	11.414	1583	1590	1603	rBV	503205	815091	92.95%	16.782%
13	12.407	1746	1753	1762	rBV2	395816	641394	73.14%	13.206%
14	13.346	1901	1907	1915	rBV	448635	672738	76.71%	13.851%
15	15.230	2210	2216	2220	rBV3	7340	12145	1.38%	0.250%

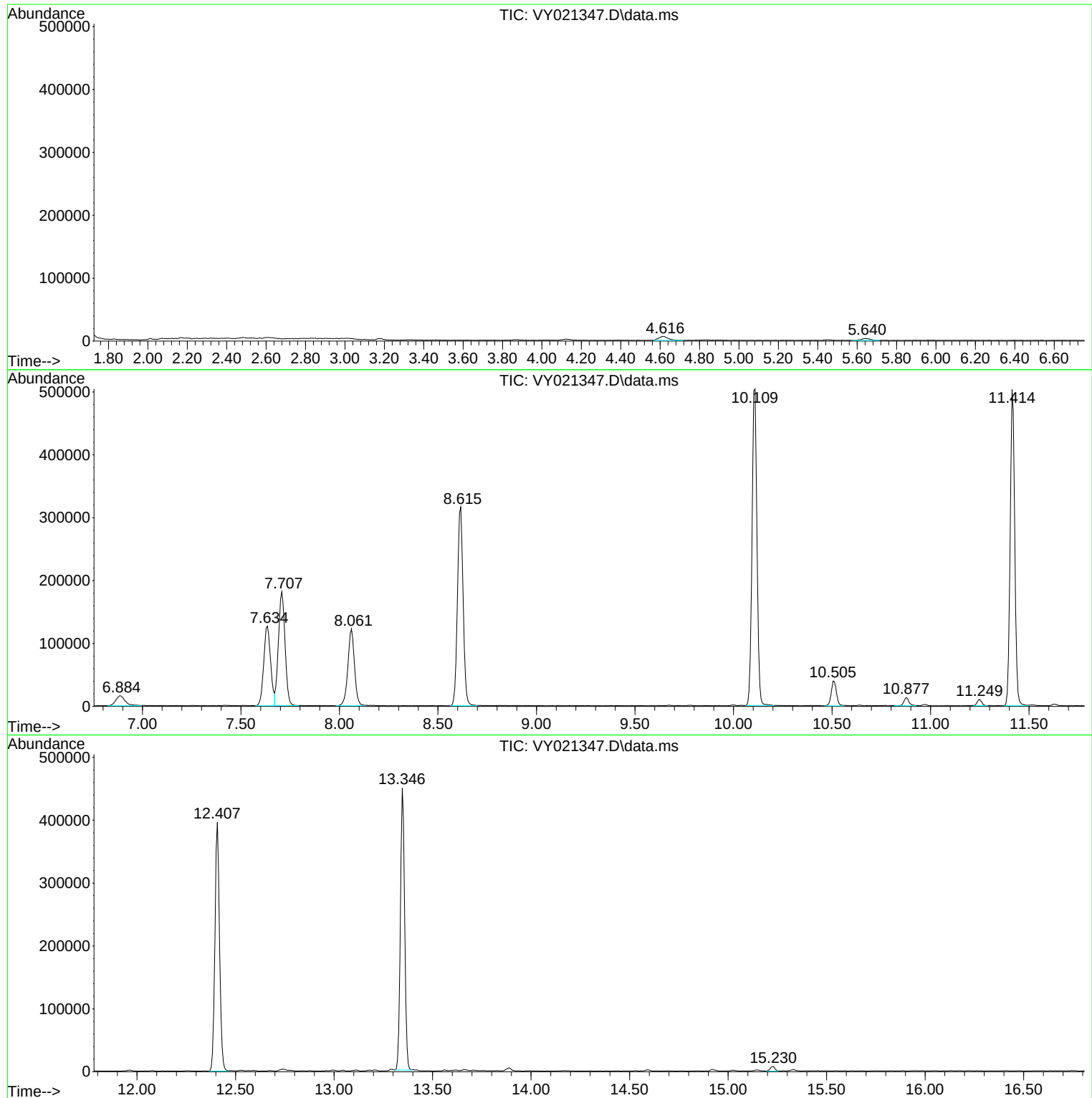
Sum of corrected areas: 4856825

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	19.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.9		0.18	1.00	ug/L
67-66-3	Chloroform	20.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VN0224WBS01			SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.6		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	49.4		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.224			
540-36-3	1,4-Difluorobenzene	436000	9.1			
3114-55-4	Chlorobenzene-d5	378000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VN0224WBS01		SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085832.D
 Acq On : 24 Feb 2025 13:03
 Operator : JC\MD
 Sample : VN0224WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	257358	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	436252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161971	48.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.080%		
35) Dibromofluoromethane	8.165	113	137284	48.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	10.565	98	512651	49.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.720%		
62) 4-Bromofluorobenzene	12.847	95	174876	51.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.200%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	69150	19.754	ug/l	100
3) Chloromethane	2.359	50	68791	19.584	ug/l	97
4) Vinyl Chloride	2.512	62	73012	19.631	ug/l	100
5) Bromomethane	2.953	94	46451	19.532	ug/l	97
6) Chloroethane	3.118	64	47196	19.158	ug/l	96
7) Trichlorofluoromethane	3.500	101	105770	19.642	ug/l	99
8) Diethyl Ether	3.959	74	34319	19.697	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	64634	20.765	ug/l	98
10) Methyl Iodide	4.589	142	73721	19.214	ug/l	95
11) Tert butyl alcohol	5.518	59	52251	127.326	ug/l	98
12) 1,1-Dichloroethene	4.342	96	54469	19.300	ug/l	92
13) Acrolein	4.183	56	62974	103.481	ug/l	95
14) Allyl chloride	5.024	41	80176	21.637	ug/l	87
15) Acrylonitrile	5.718	53	150940	113.141	ug/l	98
16) Acetone	4.424	43	115747	109.635	ug/l	96
17) Carbon Disulfide	4.718	76	153488	18.350	ug/l	97
18) Methyl Acetate	5.018	43	81482	22.439	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	173790	20.722	ug/l	100
20) Methylene Chloride	5.271	84	69243	20.395	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	58755	19.334	ug/l	95
22) Diisopropyl ether	6.671	45	180545	21.563	ug/l	96
23) Vinyl Acetate	6.600	43	583064	101.705	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116963	20.550	ug/l	99
25) 2-Butanone	7.483	43	178921	115.195	ug/l	98
26) 2,2-Dichloropropane	7.488	77	100657	19.888	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	69180	19.633	ug/l	98
28) Bromochloromethane	7.812	49	58338	24.937	ug/l	98
29) Tetrahydrofuran	7.841	42	120300	119.944	ug/l	98
30) Chloroform	7.965	83	123507	20.764	ug/l	96
31) Cyclohexane	8.253	56	88180	18.503	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	103967	19.652	ug/l	95
36) 1,1-Dichloropropene	8.371	75	78040	19.316	ug/l	99
37) Ethyl Acetate	7.559	43	74240	22.330	ug/l	97
38) Carbon Tetrachloride	8.359	117	94174	19.618	ug/l	97
39) Methylcyclohexane	9.600	83	70553	17.776	ug/l	95
40) Benzene	8.600	78	263157	20.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085832.D
 Acq On : 24 Feb 2025 13:03
 Operator : JC\MD
 Sample : VN0224WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	38988	21.936	ug/l	97
42) 1,2-Dichloroethane	8.665	62	83774	19.862	ug/l	98
43) Isopropyl Acetate	8.688	43	128897	21.783	ug/l	97
44) Trichloroethene	9.347	130	59592	18.744	ug/l	98
45) 1,2-Dichloropropane	9.618	63	64913	20.768	ug/l	95
46) Dibromomethane	9.706	93	46181	20.947	ug/l	99
47) Bromodichloromethane	9.888	83	97351	20.639	ug/l	97
48) Methyl methacrylate	9.677	41	52939	21.440	ug/l	99
49) 1,4-Dioxane	9.688	88	24332	518.211	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	379660	118.440	ug/l	98
52) Toluene	10.629	92	160367	21.128	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	88415	20.271	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	100164	20.943	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	63105	20.910	ug/l	94
56) Ethyl methacrylate	10.871	69	82410	20.627	ug/l	99
57) 1,3-Dichloropropane	11.159	76	105668	20.975	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	188414	128.915	ug/l	99
59) 2-Hexanone	11.194	43	270234	122.544	ug/l	99
60) Dibromochloromethane	11.359	129	74702	21.258	ug/l	99
61) 1,2-Dibromoethane	11.465	107	60711	21.292	ug/l	98
64) Tetrachloroethene	11.100	164	56809	19.393	ug/l	99
65) Chlorobenzene	11.888	112	173970	20.083	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	64531	20.726	ug/l	99
67) Ethyl Benzene	11.959	91	272303	20.068	ug/l	100
68) m/p-Xylenes	12.070	106	221861	43.044	ug/l	97
69) o-Xylene	12.394	106	101081	20.638	ug/l	99
70) Styrene	12.412	104	173747	20.539	ug/l	99
71) Bromoform	12.576	173	51137	22.103	ug/l #	97
73) Isopropylbenzene	12.694	105	249636	19.191	ug/l	98
74) N-amyl acetate	12.494	43	92165	20.092	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	92003	20.554	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	73556m	17.440	ug/l	
77) Bromobenzene	12.976	156	69907	19.892	ug/l	97
78) n-propylbenzene	13.035	91	302379	20.298	ug/l	99
79) 2-Chlorotoluene	13.123	91	194800	19.571	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	218142	20.587	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	32780	22.677	ug/l	93
82) 4-Chlorotoluene	13.217	91	197799	20.046	ug/l	100
83) tert-Butylbenzene	13.435	119	172236	19.330	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	221104	21.091	ug/l	98
85) sec-Butylbenzene	13.612	105	246640	19.591	ug/l	100
86) p-Isopropyltoluene	13.729	119	201013	18.730	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	126500	19.213	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	126841	18.796	ug/l	98
89) n-Butylbenzene	14.053	91	158686	17.753	ug/l	96
90) Hexachloroethane	14.329	117	45668	19.154	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	123530	19.510	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16177	19.681	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	51385	17.032	ug/l	98
94) Hexachlorobutadiene	15.500	225	30590	16.683	ug/l	97
95) Naphthalene	15.641	128	143702	17.349	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	53096	17.530	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

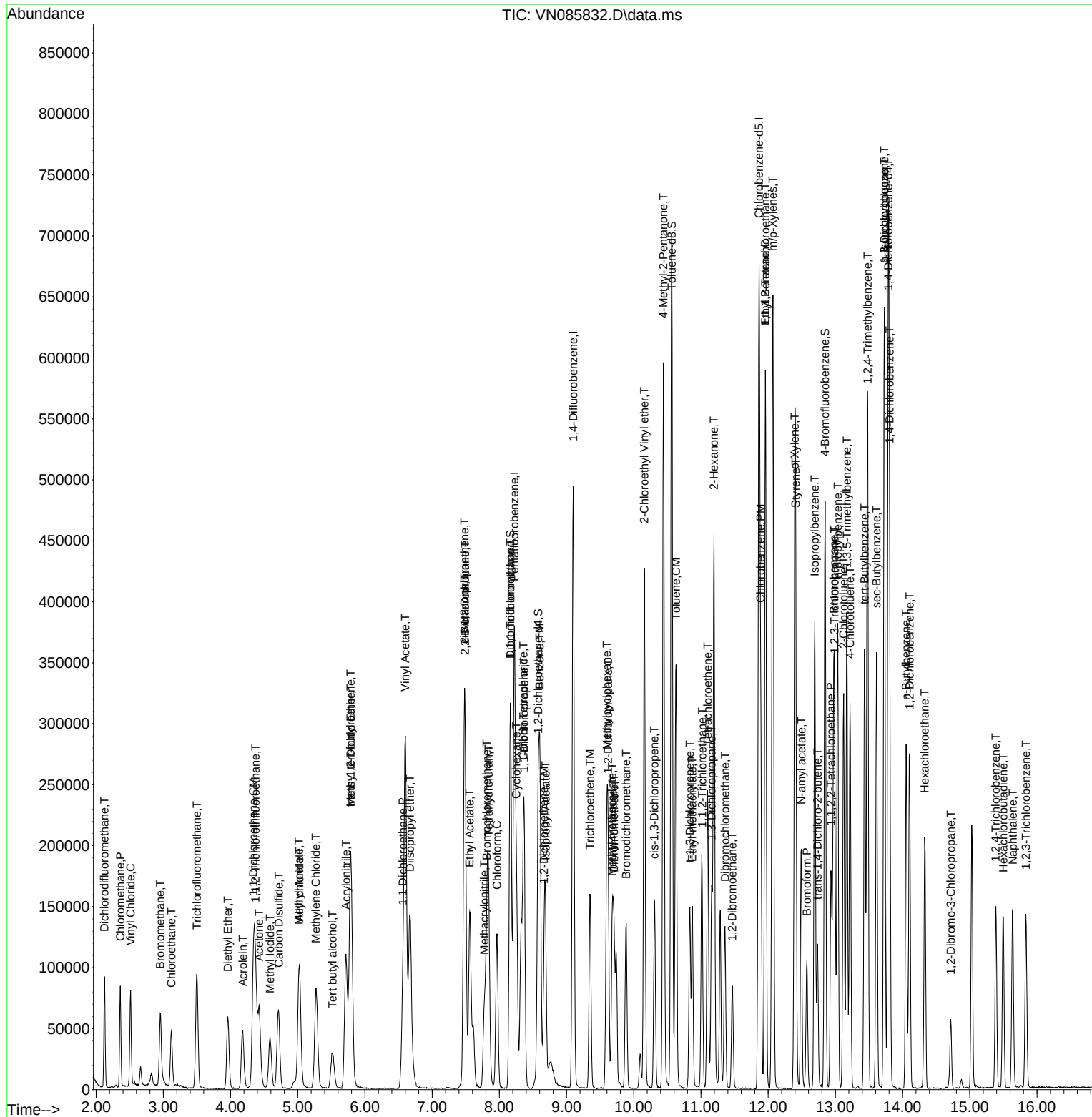
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085832.D
 Acq On : 24 Feb 2025 13:03
 Operator : JC\MD
 Sample : VN0224WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:51:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.21	1.00	ug/L
74-87-3	Chloromethane	19.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.5		0.18	1.00	ug/L
67-66-3	Chloroform	19.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.19	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	20.9		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.2		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.9		0.31	2.00	ug/L
95-47-6	o-Xylene	19.4		0.14	1.00	ug/L
100-42-5	Styrene	19.6		0.16	1.00	ug/L
75-25-2	Bromoform	21.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	8.224			
540-36-3	1,4-Difluorobenzene	438000	9.1			
3114-55-4	Chlorobenzene-d5	396000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.794			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VN0225WBS01		SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085850.D
 Acq On : 25 Feb 2025 12:14
 Operator : JC\MD
 Sample : VN0225WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 23:25:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	265043	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	437697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	395653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	197432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172269	50.134	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	8.165	113	148322	51.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.565	98	544780	52.280	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.560%			
62) 4-Bromofluorobenzene	12.847	95	184110	53.625	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.260%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	68544	19.013	ug/l	99
3) Chloromethane	2.359	50	68686	18.987	ug/l	98
4) Vinyl Chloride	2.512	62	71212	18.592	ug/l	100
5) Bromomethane	2.953	94	44318	18.095	ug/l	95
6) Chloroethane	3.118	64	45920	18.099	ug/l	96
7) Trichlorofluoromethane	3.494	101	104194	18.789	ug/l	99
8) Diethyl Ether	3.959	74	33122	18.459	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	63847	19.917	ug/l	98
10) Methyl Iodide	4.583	142	71951	18.209	ug/l	99
11) Tert butyl alcohol	5.518	59	52130	123.347	ug/l	97
12) 1,1-Dichloroethene	4.336	96	53755	18.494	ug/l	97
13) Acrolein	4.177	56	58917	94.007	ug/l	93
14) Allyl chloride	5.018	41	68034	17.828	ug/l	96
15) Acrylonitrile	5.712	53	157560	114.679	ug/l	99
16) Acetone	4.430	43	119579	109.981	ug/l	96
17) Carbon Disulfide	4.712	76	147385	17.110	ug/l	98
18) Methyl Acetate	5.024	43	85245	22.795	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	167881	19.437	ug/l	99
20) Methylene Chloride	5.271	84	66760	19.093	ug/l	97
21) trans-1,2-Dichloroethene	5.788	96	58887	18.816	ug/l	91
22) Diisopropyl ether	6.671	45	177222	20.553	ug/l	98
23) Vinyl Acetate	6.606	43	570225	96.582	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116398	19.857	ug/l	99
25) 2-Butanone	7.482	43	182994	114.401	ug/l	95
26) 2,2-Dichloropropane	7.488	77	99289	19.049	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	66321	18.276	ug/l	97
28) Bromochloromethane	7.812	49	54225	22.507	ug/l	96
29) Tetrahydrofuran	7.841	42	125088	121.101	ug/l	100
30) Chloroform	7.965	83	122120	19.936	ug/l	95
31) Cyclohexane	8.253	56	84430	17.203	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	105264	19.320	ug/l	98
36) 1,1-Dichloropropene	8.371	75	76675	18.916	ug/l	99
37) Ethyl Acetate	7.559	43	78448	23.517	ug/l	99
38) Carbon Tetrachloride	8.365	117	94107	19.539	ug/l	99
39) Methylcyclohexane	9.600	83	67293	16.899	ug/l	92
40) Benzene	8.606	78	256795	19.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085850.D
 Acq On : 25 Feb 2025 12:14
 Operator : JC\MD
 Sample : VN0225WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0225WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 23:25:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	39374	22.080	ug/l	96
42) 1,2-Dichloroethane	8.671	62	84230	19.905	ug/l	100
43) Isopropyl Acetate	8.688	43	127009	21.383	ug/l	99
44) Trichloroethene	9.347	130	58620	18.377	ug/l	97
45) 1,2-Dichloropropane	9.618	63	63306	20.187	ug/l	100
46) Dibromomethane	9.706	93	46442	20.996	ug/l	99
47) Bromodichloromethane	9.888	83	96402	20.371	ug/l	99
48) Methyl methacrylate	9.682	41	51937	20.965	ug/l	96
49) 1,4-Dioxane	9.694	88	25683	545.178	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	398075	123.775	ug/l	98
52) Toluene	10.629	92	158936	20.870	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	86836	19.844	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	95747	19.953	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	62995	20.805	ug/l	97
56) Ethyl methacrylate	10.871	69	82092	20.490	ug/l	98
57) 1,3-Dichloropropane	11.159	76	104501	20.675	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	198181	134.520	ug/l	98
59) 2-Hexanone	11.194	43	287511	129.948	ug/l	99
60) Dibromochloromethane	11.359	129	74709	21.189	ug/l	100
61) 1,2-Dibromoethane	11.470	107	60655	21.202	ug/l	100
64) Tetrachloroethene	11.100	164	56528	18.442	ug/l	94
65) Chlorobenzene	11.888	112	172945	19.081	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	65682	20.161	ug/l	97
67) Ethyl Benzene	11.965	91	270608	19.060	ug/l	98
68) m/p-Xylenes	12.070	106	220483	40.882	ug/l	99
69) o-Xylene	12.400	106	99401	19.396	ug/l	99
70) Styrene	12.412	104	173108	19.620	ug/l	98
71) Bromoform	12.576	173	52773	21.800	ug/l #	96
73) Isopropylbenzene	12.694	105	246196	18.202	ug/l	97
74) N-amyl acetate	12.494	43	97676	20.478	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	95820	20.587	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	79622m	18.155	ug/l	
77) Bromobenzene	12.982	156	68892	18.852	ug/l	95
78) n-propylbenzene	13.035	91	302759	19.545	ug/l	100
79) 2-Chlorotoluene	13.123	91	196280	18.965	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	220385	20.002	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	34079	22.673	ug/l	98
82) 4-Chlorotoluene	13.223	91	201651	19.653	ug/l	100
83) tert-Butylbenzene	13.435	119	174208	18.802	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	219405	20.127	ug/l	99
85) sec-Butylbenzene	13.617	105	244227	18.656	ug/l	100
86) p-Isopropyltoluene	13.729	119	199558	17.934	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	128639	18.789	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	128477	18.309	ug/l	99
89) n-Butylbenzene	14.053	91	156665	16.856	ug/l	97
90) Hexachloroethane	14.335	117	46787	18.871	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	123362	18.737	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17037	19.934	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	52483	16.729	ug/l	100
94) Hexachlorobutadiene	15.500	225	30326	15.906	ug/l	97
95) Naphthalene	15.641	128	141301	16.406	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	52062	16.530	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

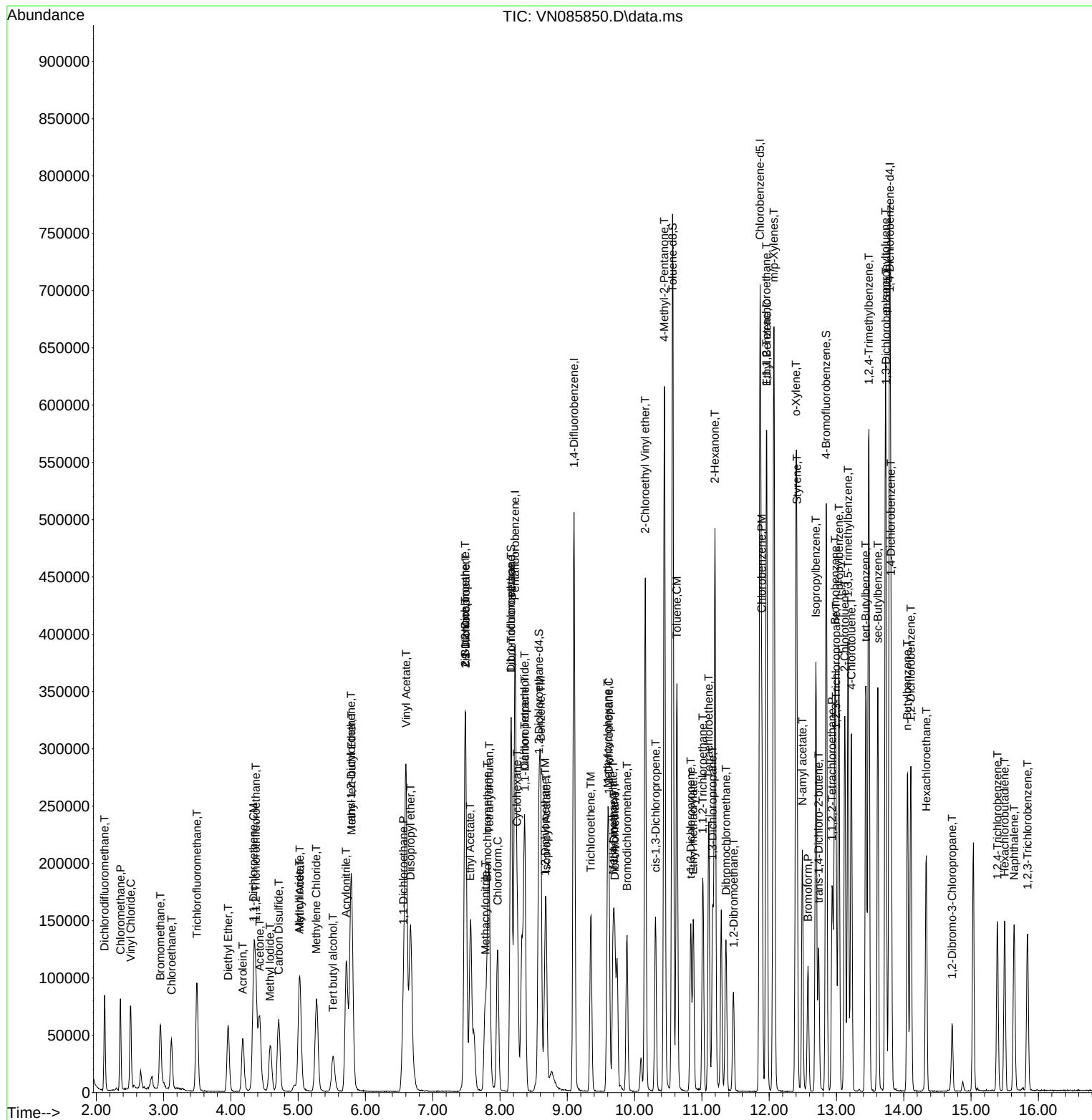
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	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
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		0.91	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	19.0		0.78	5.00	ug/Kg
67-64-1	Acetone	94.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.9		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.2		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	93.8		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.0		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.3		0.70	5.00	ug/Kg
100-42-5	Styrene	19.3		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.7		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		70 (50) - 130 (163)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (54) - 130 (147)	95%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	7.707			
540-36-3	1,4-Difluorobenzene	291000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.346			



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:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	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
VY021322.D	1		02/26/25 11:22	VY022625

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\VY022625\
 Data File : VY021322.D
 Acq On : 26 Feb 2025 11:22
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:35:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	184417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	291138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	254891	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	97685	46.693	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.380%		
35) Dibromofluoromethane	7.634	113	90492	47.410	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.820%		
50) Toluene-d8	10.109	98	351200	47.609	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.220%		
62) 4-Bromofluorobenzene	12.407	95	117404	47.291	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	94.580%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	34125	19.517	ug/l	97
3) Chloromethane	2.068	50	42771	18.941	ug/l	96
4) Vinyl Chloride	2.202	62	42765	19.295	ug/l	98
5) Bromomethane	2.592	94	28297	19.212	ug/l	100
6) Chloroethane	2.732	64	26124	19.007	ug/l	95
7) Trichlorofluoromethane	3.056	101	63673	19.022	ug/l	100
8) Diethyl Ether	3.452	74	19334	19.245	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	38299	19.763	ug/l	98
10) Methyl Iodide	4.007	142	37750	18.516	ug/l	99
11) Tert butyl alcohol	4.854	59	13942	86.641	ug/l #	90
12) 1,1-Dichloroethene	3.787	96	35305	19.026	ug/l	96
13) Acrolein	3.653	56	20005	162.231	ug/l	95
14) Allyl chloride	4.385	41	62973	19.141	ug/l	98
15) Acrylonitrile	5.061	53	42599	95.903	ug/l	99
16) Acetone	3.872	43	38073	94.873	ug/l	99
17) Carbon Disulfide	4.104	76	114721	18.619	ug/l	100
18) Methyl Acetate	4.385	43	18152	18.509	ug/l	96
19) Methyl tert-butyl Ether	5.110	73	93663	19.105	ug/l	100
20) Methylene Chloride	4.610	84	40120	18.488	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	38871	19.029	ug/l	97
22) Diisopropyl ether	6.018	45	134550	19.764	ug/l	100
23) Vinyl Acetate	5.957	43	386141	94.917	ug/l	98
24) 1,1-Dichloroethane	5.915	63	73384	19.125	ug/l	99
25) 2-Butanone	6.890	43	56272	92.910	ug/l	100
26) 2,2-Dichloropropane	6.884	77	66242	19.026	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	44795	19.204	ug/l	99
28) Bromochloromethane	7.244	49	30330	17.864	ug/l	99
29) Tetrahydrofuran	7.262	42	37274	94.152	ug/l	98
30) Chloroform	7.421	83	75017	19.294	ug/l	99
31) Cyclohexane	7.701	56	69642	18.881	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	67879	19.180	ug/l	99
36) 1,1-Dichloropropene	7.835	75	55184	19.247	ug/l	100
37) Ethyl Acetate	6.988	43	28035	19.657	ug/l	99
38) Carbon Tetrachloride	7.817	117	61214	18.991	ug/l	96
39) Methylcyclohexane	9.109	83	68527	18.897	ug/l	97
40) Benzene	8.079	78	163641	19.308	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021322.D
 Acq On : 26 Feb 2025 11:22
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:35:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	12920m	16.203	ug/l	
42) 1,2-Dichloroethane	8.158	62	46152	19.193	ug/l	100
43) Isopropyl Acetate	8.195	43	51417	18.626	ug/l	99
44) Trichloroethene	8.865	130	40770	19.214	ug/l	98
45) 1,2-Dichloropropane	9.140	63	39037	19.139	ug/l	95
46) Dibromomethane	9.231	93	21795	19.549	ug/l	97
47) Bromodichloromethane	9.420	83	56650	19.056	ug/l	97
48) Methyl methacrylate	9.219	41	25014	19.377	ug/l	99
49) 1,4-Dioxane	9.231	88	4576	369.128	ug/l	97
51) 4-Methyl-2-Pentanone	9.999	43	131838	93.298	ug/l	100
52) Toluene	10.170	92	101381	19.255	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	51842	19.034	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	61986	19.278	ug/l	96
55) 1,1,2-Trichloroethane	10.572	97	27740	19.099	ug/l	97
56) Ethyl methacrylate	10.438	69	37632	18.751	ug/l	99
57) 1,3-Dichloropropane	10.719	76	49393	19.380	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	87093	90.414	ug/l	100
59) 2-Hexanone	10.761	43	87008	93.755	ug/l	99
60) Dibromochloromethane	10.908	129	38212	19.318	ug/l	100
61) 1,2-Dibromoethane	11.011	107	25849	18.799	ug/l	96
64) Tetrachloroethene	10.646	164	36984	19.197	ug/l	97
65) Chlorobenzene	11.444	112	108578	18.977	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.517	131	39302	19.617	ug/l	98
67) Ethyl Benzene	11.517	91	192592	19.003	ug/l	100
68) m/p-Xylenes	11.627	106	147929	38.806	ug/l	100
69) o-Xylene	11.956	106	69071	19.342	ug/l	99
70) Styrene	11.969	104	114447	19.262	ug/l	99
71) Bromoform	12.133	173	21872	19.083	ug/l #	99
73) Isopropylbenzene	12.255	105	184435	19.058	ug/l	100
74) N-amyl acetate	12.072	43	44104	17.930	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	32169	18.835	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	20053m	15.563	ug/l	
77) Bromobenzene	12.529	156	42599	18.925	ug/l	98
78) n-propylbenzene	12.596	91	226845	19.317	ug/l	100
79) 2-Chlorotoluene	12.682	91	128526	19.070	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	155422	19.582	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	10066	17.364	ug/l	95
82) 4-Chlorotoluene	12.779	91	133936	19.171	ug/l	100
83) tert-Butylbenzene	12.999	119	136788	19.079	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	152431	19.310	ug/l	99
85) sec-Butylbenzene	13.176	105	204066	19.486	ug/l	100
86) p-Isopropyltoluene	13.291	119	167856	19.195	ug/l	100
87) 1,3-Dichlorobenzene	13.291	146	85257	19.148	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	84570	19.226	ug/l	99
89) n-Butylbenzene	13.621	91	155625	18.911	ug/l	100
90) Hexachloroethane	13.883	117	34224	18.736	ug/l	100
91) 1,2-Dichlorobenzene	13.663	146	73256	18.778	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5025	18.599	ug/l	93
93) 1,2,4-Trichlorobenzene	14.925	180	42148	17.702	ug/l	99
94) Hexachlorobutadiene	15.023	225	27956	18.650	ug/l	99
95) Naphthalene	15.151	128	68106	17.269	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	36072	17.931	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

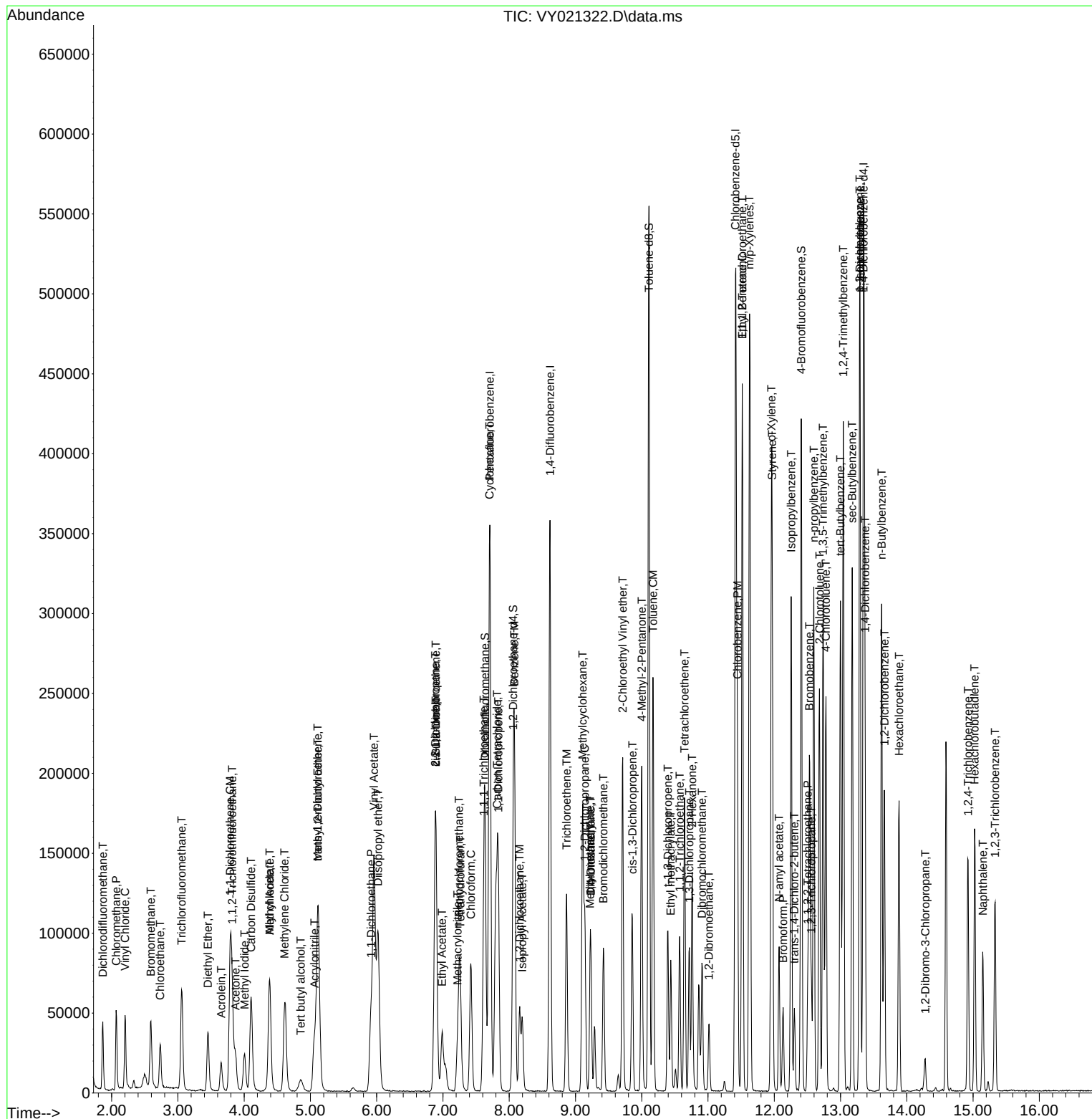
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021322.D
 Acq On : 26 Feb 2025 11:22
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Quant Time: Feb 27 00:35:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	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
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		0.91	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	19.9		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.0		4.40	25.0	ug/Kg
108-88-3	Toluene	20.2		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	312000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0227SBS01		SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01		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
VY021348.D	1		02/27/25 11:18	VY022725

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\VY022725\
 Data File : VY021348.D
 Acq On : 27 Feb 2025 11:18
 Operator : SY/MD
 Sample : VY0227SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0227SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
 Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:40:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						02/28/2025
1) Pentafluorobenzene	7.707	168	199987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	311959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138215	50.000	ug/l	0.00
System Monitoring Compounds						02/28/2025
33) 1,2-Dichloroethane-d4	8.061	65	116027	51.143	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.280%	
35) Dibromofluoromethane	7.628	113	106867	52.252	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.500%	
50) Toluene-d8	10.103	98	413664	52.334	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.660%	
62) 4-Bromofluorobenzene	12.408	95	139307	52.368	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 104.740%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	37086	19.559	ug/l	97
3) Chloromethane	2.068	50	45372	18.528	ug/l	98
4) Vinyl Chloride	2.202	62	46452	19.327	ug/l	97
5) Bromomethane	2.586	94	30476	19.081	ug/l	99
6) Chloroethane	2.733	64	29673	19.908	ug/l	98
7) Trichlorofluoromethane	3.056	101	73497	20.248	ug/l	99
8) Diethyl Ether	3.452	74	20917	19.199	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	42936	20.431	ug/l	99
10) Methyl Iodide	4.001	142	41447	18.746	ug/l	100
11) Tert butyl alcohol	4.860	59	15512	88.893	ug/l	97
12) 1,1-Dichloroethene	3.787	96	39988	19.872	ug/l	94
13) Acrolein	3.647	56	22410	167.586	ug/l	95
14) Allyl chloride	4.379	41	67291	18.861	ug/l	99
15) Acrylonitrile	5.055	53	44168	91.694	ug/l	98
16) Acetone	3.866	43	46430	106.690	ug/l	99
17) Carbon Disulfide	4.104	76	123567	18.493	ug/l	100
18) Methyl Acetate	4.385	43	19413	18.253	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	101763	19.141	ug/l	99
20) Methylene Chloride	4.616	84	46825	19.898	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	43373	19.580	ug/l	97
22) Diisopropyl ether	6.019	45	143470	19.433	ug/l	98
23) Vinyl Acetate	5.958	43	413611	93.754	ug/l	99
24) 1,1-Dichloroethane	5.909	63	81302	19.539	ug/l	98
25) 2-Butanone	6.890	43	63968	97.394	ug/l	99
26) 2,2-Dichloropropane	6.878	77	75215	19.921	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	49301	19.490	ug/l	99
28) Bromochloromethane	7.244	49	34908	18.960	ug/l	99
29) Tetrahydrofuran	7.262	42	39410	91.797	ug/l	99
30) Chloroform	7.421	83	84823	20.118	ug/l	98
31) Cyclohexane	7.701	56	74866	18.717	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76848	20.024	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60971	19.846	ug/l	99
37) Ethyl Acetate	6.988	43	28033	18.344	ug/l	97
38) Carbon Tetrachloride	7.817	117	68822	19.927	ug/l	98
39) Methylcyclohexane	9.109	83	74844	19.261	ug/l	97
40) Benzene	8.079	78	180639	19.891	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
 Data File : VY021348.D
 Acq On : 27 Feb 2025 11:18
 Operator : SY/MD
 Sample : VY0227SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0227SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
 Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:40:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l	99
42) 1,2-Dichloroethane	8.158	62	52273	20.288	ug/l	99
43) Isopropyl Acetate	8.195	43	54717	18.499	ug/l	99
44) Trichloroethene	8.866	130	45500	20.012	ug/l	97
45) 1,2-Dichloropropane	9.140	63	43265	19.796	ug/l	96
46) Dibromomethane	9.231	93	23940	20.039	ug/l	100
47) Bromodichloromethane	9.420	83	64230	20.164	ug/l	97
48) Methyl methacrylate	9.219	41	24954	18.041	ug/l	97
49) 1,4-Dioxane	9.225	88	4987	375.432	ug/l	94
51) 4-Methyl-2-Pentanone	9.999	43	139296	91.997	ug/l	99
52) Toluene	10.170	92	114108	20.226	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	56809	19.466	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	66736	19.370	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	31323	20.127	ug/l	98
56) Ethyl methacrylate	10.438	69	41028	19.079	ug/l	97
57) 1,3-Dichloropropane	10.713	76	54720	20.037	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	96301	93.300	ug/l	99
59) 2-Hexanone	10.762	43	95328	95.864	ug/l	100
60) Dibromochloromethane	10.914	129	41937	19.786	ug/l	99
61) 1,2-Dibromoethane	11.012	107	28803	19.549	ug/l	98
64) Tetrachloroethene	10.646	164	40978	19.901	ug/l	97
65) Chlorobenzene	11.438	112	121107	19.805	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43712	20.415	ug/l	100
67) Ethyl Benzene	11.518	91	217521	20.082	ug/l	98
68) m/p-Xylenes	11.627	106	164558	40.391	ug/l	100
69) o-Xylene	11.956	106	75583	19.803	ug/l	99
70) Styrene	11.969	104	125803	19.811	ug/l	99
71) Bromoform	12.133	173	24353	19.881	ug/l #	99
73) Isopropylbenzene	12.255	105	206205	19.845	ug/l	99
74) N-amyl acetate	12.072	43	47320	17.916	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34737	18.942	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	25901m	18.722	ug/l	99
77) Bromobenzene	12.530	156	47735	19.751	ug/l	97
78) n-propylbenzene	12.597	91	251702	19.962	ug/l	100
79) 2-Chlorotoluene	12.682	91	142369	19.674	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	170506	20.007	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	11755	18.885	ug/l	99
82) 4-Chlorotoluene	12.780	91	149541	19.935	ug/l	99
83) tert-Butylbenzene	12.999	119	154147	20.024	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	170349	20.098	ug/l	100
85) sec-Butylbenzene	13.176	105	225031	20.012	ug/l	99
86) p-Isopropyltoluene	13.292	119	187791	20.000	ug/l	100
87) 1,3-Dichlorobenzene	13.292	146	95671	20.011	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	93607	19.820	ug/l	98
89) n-Butylbenzene	13.621	91	175070	19.813	ug/l	100
90) Hexachloroethane	13.883	117	38407	19.583	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	82275	19.642	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5427	18.707	ug/l	98
93) 1,2,4-Trichlorobenzene	14.925	180	46899	18.345	ug/l	99
94) Hexachlorobutadiene	15.029	225	31841	19.783	ug/l	100
95) Naphthalene	15.145	128	73424	17.339	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	40776	18.878	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

02/28/2025
Supervised By :Semsettin
Yesilyurt

02/28/2025

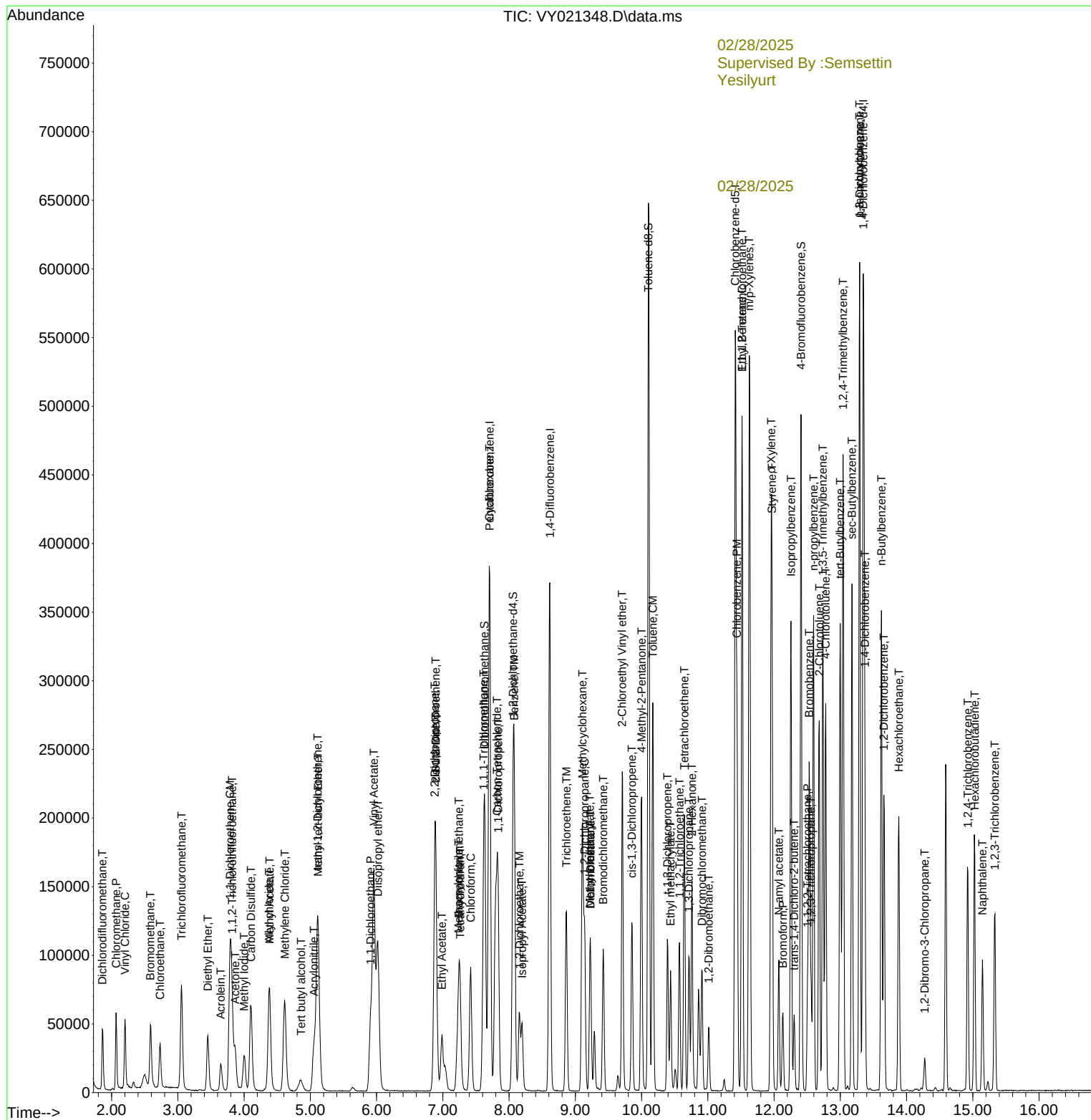
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY02275BS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		0.21	1.00	ug/L
74-87-3	Chloromethane	19.9		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.26	1.00	ug/L
67-64-1	Acetone	120		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	25.0		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	1.00	ug/L
71-43-2	Benzene	20.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	VN0224WBSD01			SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01			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:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.3		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	8.224			
540-36-3	1,4-Difluorobenzene	420000	9.1			
3114-55-4	Chlorobenzene-d5	373000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VN0224WBSD01		SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01		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:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085833.D
 Acq On : 24 Feb 2025 13:36
 Operator : JC\MD
 Sample : VN0224WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:52:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	254490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	420351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161563	48.968	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.940%		
35) Dibromofluoromethane	8.165	113	136434	49.602	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.200%		
50) Toluene-d8	10.565	98	500928	50.056	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.120%		
62) 4-Bromofluorobenzene	12.847	95	171801	52.105	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	104.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	67546	19.513	ug/l	100
3) Chloromethane	2.359	50	69293	19.949	ug/l	96
4) Vinyl Chloride	2.512	62	70256	19.103	ug/l	100
5) Bromomethane	2.959	94	44608	18.969	ug/l	95
6) Chloroethane	3.118	64	46079	18.915	ug/l	94
7) Trichlorofluoromethane	3.495	101	102673	19.282	ug/l	94
8) Diethyl Ether	3.959	74	34433	19.985	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	61837	20.090	ug/l	98
10) Methyl Iodide	4.589	142	74336	19.593	ug/l	97
11) Tert butyl alcohol	5.518	59	52556	129.512	ug/l	99
12) 1,1-Dichloroethene	4.342	96	55272	19.805	ug/l	94
13) Acrolein	4.177	56	65668	109.124	ug/l	97
14) Allyl chloride	5.018	41	68902	18.804	ug/l	96
15) Acrylonitrile	5.718	53	155867	118.151	ug/l	98
16) Acetone	4.424	43	120571	115.491	ug/l	93
17) Carbon Disulfide	4.712	76	146999	17.772	ug/l	100
18) Methyl Acetate	5.018	43	84210	23.452	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	173460	20.916	ug/l	98
20) Methylene Chloride	5.277	84	67489	20.102	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	57869	19.257	ug/l	98
22) Diisopropyl ether	6.665	45	176742	21.347	ug/l	96
23) Vinyl Acetate	6.600	43	593068	104.616	ug/l	99
24) 1,1-Dichloroethane	6.571	63	114160	20.283	ug/l	99
25) 2-Butanone	7.477	43	183586	119.531	ug/l	98
26) 2,2-Dichloropropane	7.488	77	97025	19.386	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	68278	19.596	ug/l	97
28) Bromochloromethane	7.812	49	57799	24.985	ug/l	96
29) Tetrahydrofuran	7.835	42	124442	125.472	ug/l	99
30) Chloroform	7.965	83	118725	20.185	ug/l	92
31) Cyclohexane	8.253	56	85444	18.131	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	101538	19.409	ug/l	97
36) 1,1-Dichloropropene	8.371	75	77066	19.797	ug/l	99
37) Ethyl Acetate	7.559	43	75890	23.689	ug/l	98
38) Carbon Tetrachloride	8.359	117	91756	19.837	ug/l	99
39) Methylcyclohexane	9.600	83	69336	18.130	ug/l	95
40) Benzene	8.606	78	255468	20.476	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
 Data File : VN085833.D
 Acq On : 24 Feb 2025 13:36
 Operator : JC\MD
 Sample : VN0224WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0224WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/25/2025
 Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:52:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	37867	22.112	ug/l	94
42) 1,2-Dichloroethane	8.671	62	82936	20.408	ug/l	100
43) Isopropyl Acetate	8.688	43	132861	23.340	ug/l	98
44) Trichloroethene	9.347	130	58457	19.082	ug/l	99
45) 1,2-Dichloropropane	9.618	63	62593	20.784	ug/l	95
46) Dibromomethane	9.706	93	45573	21.453	ug/l	99
47) Bromodichloromethane	9.882	83	94873	20.875	ug/l	100
48) Methyl methacrylate	9.677	41	53084	22.312	ug/l	98
49) 1,4-Dioxane	9.688	88	23894	528.132	ug/l #	97
51) 4-Methyl-2-Pentanone	10.441	43	384206	124.392	ug/l	100
52) Toluene	10.629	92	154597	21.138	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	91440	21.758	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	95689	20.764	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	64471	22.171	ug/l	94
56) Ethyl methacrylate	10.871	69	82880	21.466	ug/l	98
57) 1,3-Dichloropropane	11.159	76	102761	21.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	194148	136.927	ug/l	100
59) 2-Hexanone	11.194	43	276584	130.168	ug/l	99
60) Dibromochloromethane	11.359	129	74225	21.921	ug/l	99
61) 1,2-Dibromoethane	11.465	107	60464	22.007	ug/l	98
64) Tetrachloroethene	11.100	164	55733	19.305	ug/l	93
65) Chlorobenzene	11.888	112	169493	19.854	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	64196	20.921	ug/l	99
67) Ethyl Benzene	11.959	91	264854	19.806	ug/l	98
68) m/p-Xylenes	12.070	106	215709	42.466	ug/l	98
69) o-Xylene	12.394	106	98161	20.336	ug/l	99
70) Styrene	12.412	104	170947	20.508	ug/l	99
71) Bromoform	12.576	173	50313	22.067	ug/l #	99
73) Isopropylbenzene	12.694	105	243501	19.486	ug/l	100
74) N-amyl acetate	12.494	43	94407	21.423	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	91358	21.245	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	84006m	20.733	ug/l	
77) Bromobenzene	12.976	156	67340	19.946	ug/l	95
78) n-propylbenzene	13.035	91	294534	20.580	ug/l	100
79) 2-Chlorotoluene	13.123	91	189193	19.786	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	210864	20.715	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	32945	23.724	ug/l	90
82) 4-Chlorotoluene	13.217	91	193783	20.443	ug/l	100
83) tert-Butylbenzene	13.435	119	165247	19.304	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	212701	21.120	ug/l	99
85) sec-Butylbenzene	13.617	105	241530	19.970	ug/l	100
86) p-Isopropyltoluene	13.729	119	197164	19.099	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	126447	19.991	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	125945	19.427	ug/l	100
89) n-Butylbenzene	14.053	91	155594	18.120	ug/l	97
90) Hexachloroethane	14.329	117	44767	19.544	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	122292	20.105	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16882	21.380	ug/l	100
93) 1,2,4-Trichlorobenzene	15.394	180	53723	18.536	ug/l	98
94) Hexachlorobutadiene	15.500	225	30704	17.431	ug/l	95
95) Naphthalene	15.641	128	153679	19.313	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	55549	19.091	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

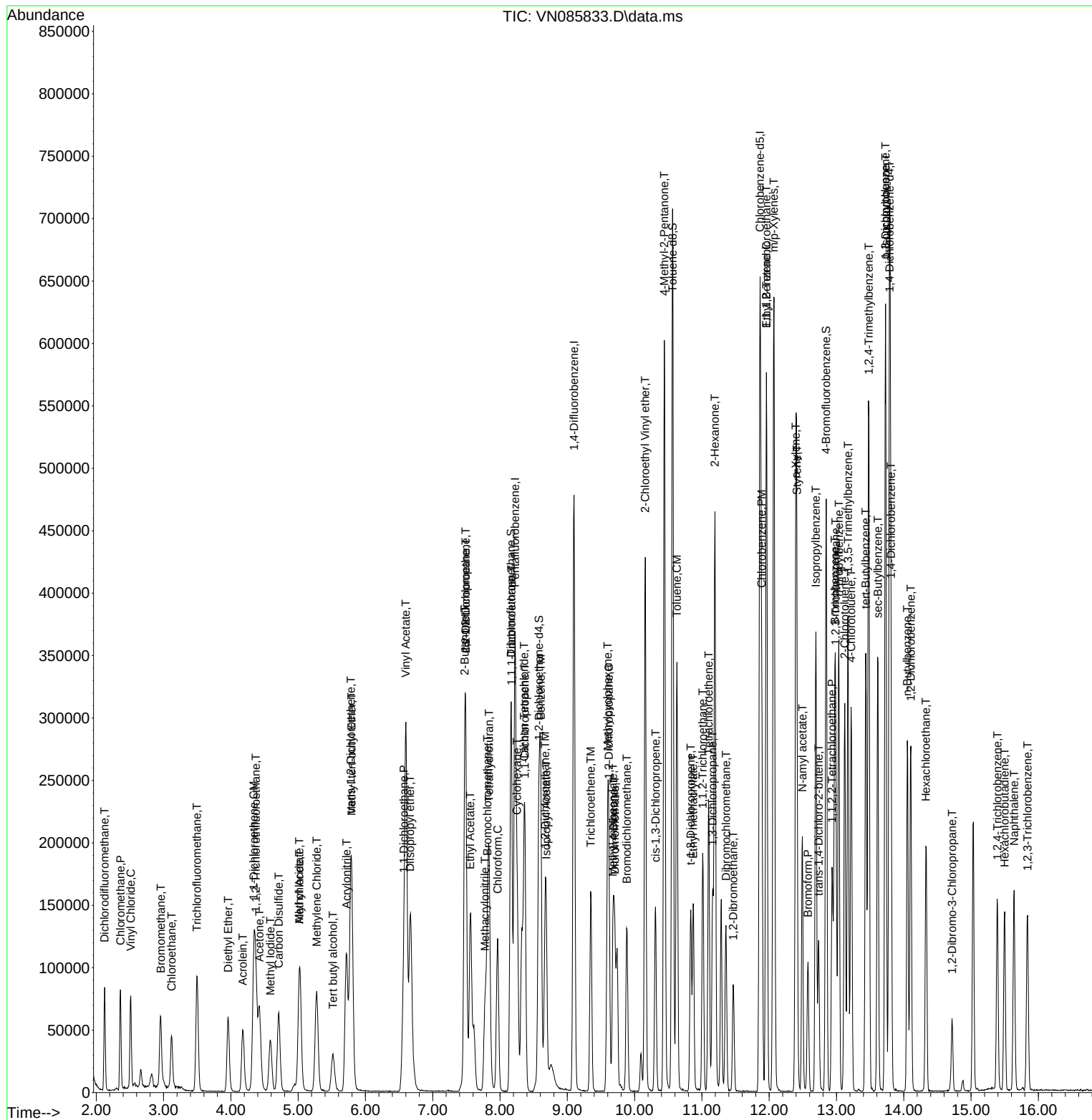

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\  
Data File : VN085833.D  
Acq On    : 24 Feb 2025  13:36  
Operator  : JC\MD  
Sample    : VN0224WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 7   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.2		0.78	5.00	ug/Kg
67-64-1	Acetone	91.3		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.5		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.2		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	94.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.8		4.40	25.0	ug/Kg
108-88-3	Toluene	19.7		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	96.5		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	7.707			
540-36-3	1,4-Difluorobenzene	292000	8.615			
3114-55-4	Chlorobenzene-d5	259000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	
Client Sample ID:	VY0226SBSD01		SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01		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
VY021323.D	1		02/26/25 11:44	VY022625

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\VY022625\
 Data File : VY021323.D
 Acq On : 26 Feb 2025 11:44
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:36:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	186200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	292071	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	258744	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	129829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	102341	48.451	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.900%		
35) Dibromofluoromethane	7.634	113	94057	49.120	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.240%		
50) Toluene-d8	10.103	98	369458	49.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.840%		
62) 4-Bromofluorobenzene	12.408	95	125203	50.271	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	100.540%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	33929	19.219	ug/l	98
3) Chloromethane	2.068	50	44643	19.581	ug/l	94
4) Vinyl Chloride	2.202	62	43431	19.408	ug/l	95
5) Bromomethane	2.586	94	28875	19.417	ug/l	91
6) Chloroethane	2.732	64	27157	19.569	ug/l	98
7) Trichlorofluoromethane	3.056	101	64725	19.152	ug/l	98
8) Diethyl Ether	3.452	74	19301	19.028	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	39047	19.956	ug/l	99
10) Methyl Iodide	4.000	142	38731	18.815	ug/l	99
11) Tert butyl alcohol	4.848	59	15317	94.274	ug/l	97
12) 1,1-Dichloroethene	3.787	96	35945	19.186	ug/l	98
13) Acrolein	3.647	56	22337	179.408	ug/l	96
14) Allyl chloride	4.385	41	64619	19.454	ug/l	99
15) Acrylonitrile	5.049	53	42848	95.540	ug/l	99
16) Acetone	3.866	43	36994	91.302	ug/l	96
17) Carbon Disulfide	4.104	76	119697	19.240	ug/l	99
18) Methyl Acetate	4.378	43	19000	19.188	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	96512	19.498	ug/l	98
20) Methylene Chloride	4.616	84	41428	18.908	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	39986	19.387	ug/l	97
22) Diisopropyl ether	6.018	45	136570	19.868	ug/l	97
23) Vinyl Acetate	5.957	43	400683	97.548	ug/l	98
24) 1,1-Dichloroethane	5.915	63	75455	19.476	ug/l	100
25) 2-Butanone	6.896	43	57737	94.416	ug/l	100
26) 2,2-Dichloropropane	6.884	77	67846	19.300	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	46880	19.905	ug/l	98
28) Bromochloromethane	7.238	49	34082	19.882	ug/l	99
29) Tetrahydrofuran	7.262	42	39639	99.167	ug/l	97
30) Chloroform	7.421	83	76696	19.537	ug/l	98
31) Cyclohexane	7.701	56	71145	19.104	ug/l #	94
32) 1,1,1-Trichloroethane	7.610	97	68700	19.226	ug/l	99
36) 1,1-Dichloropropene	7.835	75	57651	20.043	ug/l	99
37) Ethyl Acetate	6.982	43	28136	19.665	ug/l	100
38) Carbon Tetrachloride	7.817	117	63336	19.587	ug/l	99
39) Methylcyclohexane	9.109	83	71099	19.543	ug/l	99
40) Benzene	8.079	78	169384	19.922	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021323.D
 Acq On : 26 Feb 2025 11:44
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:36:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	16363	20.455	ug/l #	73
42) 1,2-Dichloroethane	8.158	62	47566	19.718	ug/l	100
43) Isopropyl Acetate	8.195	43	54330	19.618	ug/l	99
44) Trichloroethene	8.865	130	41805	19.638	ug/l	97
45) 1,2-Dichloropropane	9.140	63	40089	19.592	ug/l	99
46) Dibromomethane	9.231	93	21727	19.425	ug/l	100
47) Bromodichloromethane	9.420	83	58116	19.487	ug/l	100
48) Methyl methacrylate	9.219	41	23787	18.368	ug/l	94
49) 1,4-Dioxane	9.225	88	4464	358.943	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	138572	97.751	ug/l	99
52) Toluene	10.170	92	104255	19.738	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	53978	19.755	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	62124	19.260	ug/l	95
55) 1,1,2-Trichloroethane	10.572	97	28227	19.373	ug/l	96
56) Ethyl methacrylate	10.438	69	39319	19.530	ug/l	99
57) 1,3-Dichloropropane	10.713	76	51397	20.102	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	90024	93.158	ug/l	100
59) 2-Hexanone	10.761	43	89865	96.524	ug/l	99
60) Dibromochloromethane	10.914	129	39272	19.790	ug/l	98
61) 1,2-Dibromoethane	11.018	107	26713	19.365	ug/l	96
64) Tetrachloroethene	10.646	164	38493	19.682	ug/l	99
65) Chlorobenzene	11.444	112	113821	19.597	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	39353	19.350	ug/l	98
67) Ethyl Benzene	11.517	91	197780	19.225	ug/l	100
68) m/p-Xylenes	11.627	106	149341	38.593	ug/l	98
69) o-Xylene	11.956	106	70486	19.444	ug/l	99
70) Styrene	11.969	104	119367	19.791	ug/l	99
71) Bromoform	12.133	173	22170	19.055	ug/l #	100
73) Isopropylbenzene	12.255	105	192163	19.688	ug/l	99
74) N-amyl acetate	12.072	43	47929	19.319	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	33436	19.410	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	19345m	14.886	ug/l	
77) Bromobenzene	12.529	156	44137	19.442	ug/l	99
78) n-propylbenzene	12.596	91	231519	19.547	ug/l	100
79) 2-Chlorotoluene	12.682	91	132259	19.457	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	157749	19.706	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	10784	18.445	ug/l	95
82) 4-Chlorotoluene	12.779	91	136654	19.394	ug/l	100
83) tert-Butylbenzene	12.999	119	139478	19.288	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	156482	19.655	ug/l	100
85) sec-Butylbenzene	13.176	105	207160	19.613	ug/l	99
86) p-Isopropyltoluene	13.291	119	172280	19.534	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	88325	19.668	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	87772	19.784	ug/l	99
89) n-Butylbenzene	13.621	91	162070	19.527	ug/l	100
90) Hexachloroethane	13.883	117	35761	19.411	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	76555	19.457	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4895	17.963	ug/l	95
93) 1,2,4-Trichlorobenzene	14.925	180	45740	19.047	ug/l	100
94) Hexachlorobutadiene	15.023	225	28899	19.115	ug/l	98
95) Naphthalene	15.145	128	73713	18.532	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	38421	18.936	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

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

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

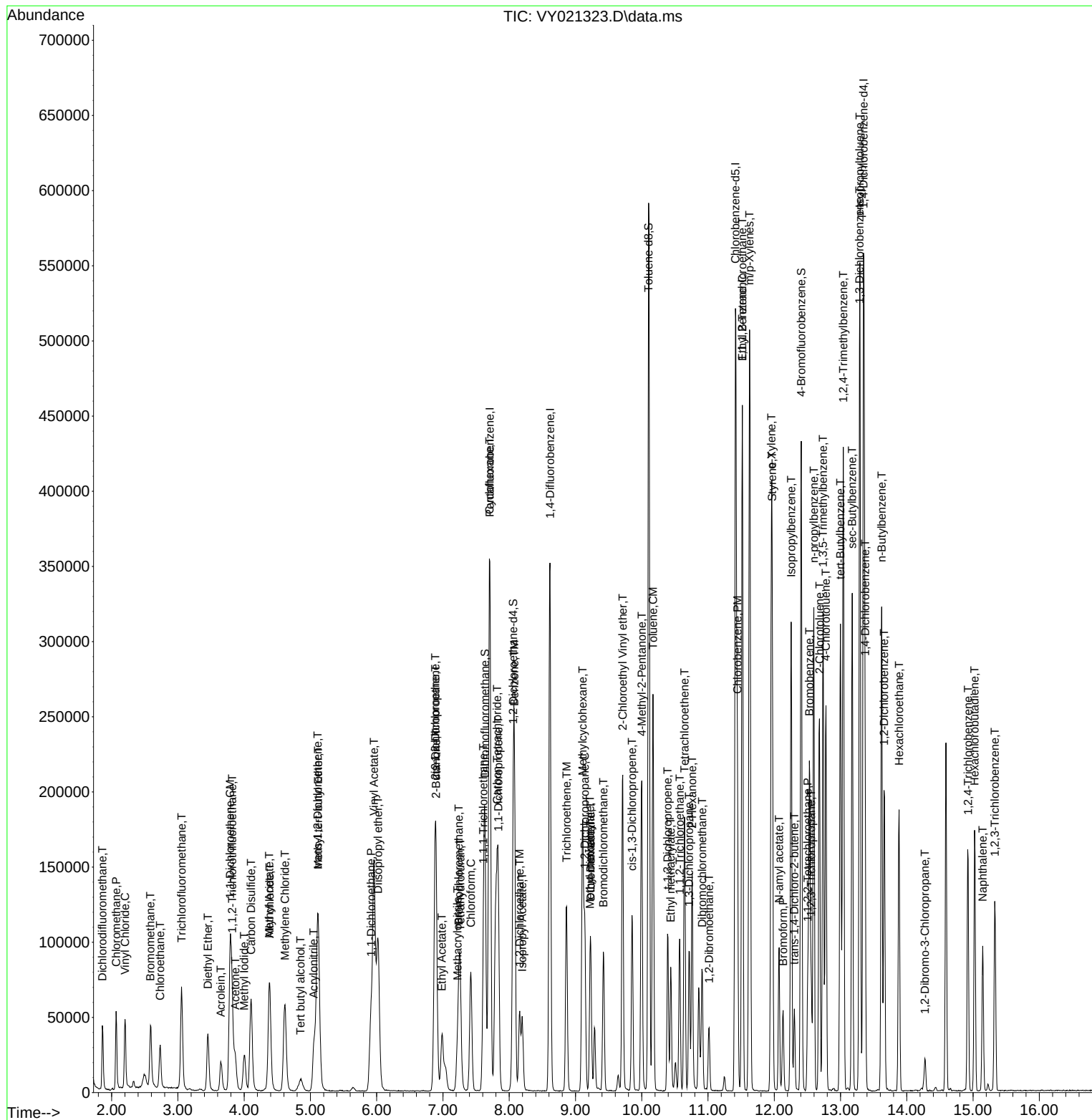
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
 Data File : VY021323.D
 Acq On : 26 Feb 2025 11:44
 Operator : SY/MD
 Sample : VY0226SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/soil
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:36:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 26 02:09:13 2025
 Response via : Initial Calibration



Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VN021825

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn022425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085829.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:52 AM	MMDadoda	2/25/2025 2:29:16 PM	Peak Integrated by Software
VN0224WBS01	VN085832.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:56 AM	MMDadoda	2/25/2025 2:29:13 PM	Peak Integrated by Software
VN0224WBSD01	VN085833.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:00 AM	MMDadoda	2/25/2025 2:29:12 PM	Peak Integrated by Software
VSTDCCC050	VN085845.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:17 AM	MMDadoda	2/25/2025 2:29:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN022525

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085847.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:17 AM	MMDadoda	2/26/2025 1:46:18 PM	Peak Integrated by Software
VN0225WBS01	VN085850.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:22 AM	MMDadoda	2/26/2025 1:46:20 PM	Peak Integrated by Software
VSTDCCC050	VN085860.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:36 AM	MMDadoda	2/26/2025 1:46:25 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY022525

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021309.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC005	VY021309.D	Methacrylonitrile	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC010	VY021310.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:29 AM	MMDadoda	2/26/2025 1:44:32 PM	Peak Integrated by Software
VSTDICC020	VY021311.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:33 AM	MMDadoda	2/26/2025 1:44:34 PM	Peak Integrated by Software
VSTDICCC050	VY021312.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:52 AM	MMDadoda	2/26/2025 1:44:36 PM	Peak Integrated by Software
VSTDICC150	VY021314.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:40 AM	MMDadoda	2/26/2025 1:44:39 PM	Peak Integrated by Software
VSTDICC100	VY021316.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:43 AM	MMDadoda	2/26/2025 1:44:41 PM	Peak Integrated by Software
VSTDICV050	VY021317.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:47 AM	MMDadoda	2/26/2025 1:44:42 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY022625

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021320.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:03 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	Methacrylonitrile	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBSD01	VY021323.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:54 AM	MMDadoda	2/27/2025 12:12:28 PM	Peak Integrated by Software
Q1415-04	VY021337.D	Tert butyl alcohol	Romaben	2/27/2025 9:35:51 AM	MMDadoda	2/27/2025 12:12:29 PM	Peak Integrated by Software
VSTDCCC050	VY021344.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:17 AM	MMDadoda	2/27/2025 12:12:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY022725

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021346.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:30 AM	SAM	2/28/2025 11:10:54 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	Methacrylonitrile	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VSTDCCC050	VY021373.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:40 AM	SAM	2/28/2025 11:10:58 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133068		
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP133076		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Maresh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133126		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085828.D	24 Feb 2025 10:50	JC\MD	Ok
2	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	JC\MD	Ok,M
3	VN0224MBL01	VN085830.D	24 Feb 2025 12:15	JC\MD	Ok
4	VN0224WBL01	VN085831.D	24 Feb 2025 12:39	JC\MD	Ok
5	VN0224WBS01	VN085832.D	24 Feb 2025 13:03	JC\MD	Ok,M
6	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36	JC\MD	Ok,M
7	Q1405-02DL	VN085834.D	24 Feb 2025 14:00	JC\MD	Ok
8	Q1405-03	VN085835.D	24 Feb 2025 14:24	JC\MD	Ok
9	Q1405-04	VN085836.D	24 Feb 2025 14:49	JC\MD	Ok,M
10	Q1405-05	VN085837.D	24 Feb 2025 15:13	JC\MD	Ok
11	Q1405-11	VN085838.D	24 Feb 2025 15:37	JC\MD	Ok
12	Q1415-05	VN085839.D	24 Feb 2025 16:01	JC\MD	ReRun
13	Q1405-07	VN085840.D	24 Feb 2025 16:26	JC\MD	Ok
14	Q1405-08	VN085841.D	24 Feb 2025 16:50	JC\MD	Ok
15	Q1405-09	VN085842.D	24 Feb 2025 17:14	JC\MD	Ok
16	Q1405-10	VN085843.D	24 Feb 2025 17:38	JC\MD	Ok
17	Q1415-06	VN085844.D	24 Feb 2025 18:02	JC\MD	Ok
18	VSTDCCC050	VN085845.D	24 Feb 2025 18:26	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:46:27 PM
SubDirectory	VN022525	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133142		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133144,VP133145		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085846.D	25 Feb 2025 10:11	JC\MD	Ok
2	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	JC\MD	Ok,M
3	VN0225MBL01	VN085848.D	25 Feb 2025 11:19	JC\MD	Ok
4	VN0225WBL01	VN085849.D	25 Feb 2025 11:43	JC\MD	Ok
5	VN0225WBS01	VN085850.D	25 Feb 2025 12:14	JC\MD	Ok,M
6	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48	JC\MD	Ok,M
7	IBLK	VN085852.D	25 Feb 2025 13:12	JC\MD	Ok
8	Q1415-05	VN085853.D	25 Feb 2025 13:36	JC\MD	Ok
9	VN0225MBS01	VN085854.D	25 Feb 2025 14:00	JC\MD	Ok,M
10	Q1395-01	VN085855.D	25 Feb 2025 14:24	JC\MD	Dilution
11	IBLK	VN085856.D	25 Feb 2025 14:49	JC\MD	Ok
12	IBLK	VN085857.D	25 Feb 2025 15:13	JC\MD	Ok
13	Q1395-01DL	VN085858.D	25 Feb 2025 15:37	JC\MD	Ok
14	IBLK	VN085859.D	25 Feb 2025 16:15	JC\MD	Ok
15	VSTDCCC050	VN085860.D	25 Feb 2025 16:42	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133154			
Initial Calibration Stds		VP133137,VP133140,VP133143,VP133146,VP133147,VP133149			
CCC					
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133150			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021308.D	25 Feb 2025 12:10	SY/MD	Ok
2	VSTDICC005	VY021309.D	25 Feb 2025 12:40	SY/MD	Ok,M
3	VSTDICC010	VY021310.D	25 Feb 2025 13:03	SY/MD	Ok,M
4	VSTDICC020	VY021311.D	25 Feb 2025 13:26	SY/MD	Ok,M
5	VSTDICCC050	VY021312.D	25 Feb 2025 14:48	SY/MD	Ok,M
6	VSTDICC100	VY021313.D	25 Feb 2025 15:34	SY/MD	Not Ok
7	VSTDICC150	VY021314.D	25 Feb 2025 15:57	SY/MD	Ok,M
8	VIBLK	VY021315.D	25 Feb 2025 16:24	SY/MD	Ok
9	VSTDICC100	VY021316.D	25 Feb 2025 16:49	SY/MD	Ok,M
10	VSTDICV050	VY021317.D	25 Feb 2025 17:31	SY/MD	Ok,M
11	VIBLK	VY021318.D	25 Feb 2025 17:54	SY/MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133161			
CCC		VP133162,VP133163			
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	VY021319.D	26 Feb 2025 09:12	SY/MD	Ok
2	VSTDCCC050	VY021320.D	26 Feb 2025 10:11	SY/MD	Ok,M
3	VY0226SBL01	VY021321.D	26 Feb 2025 10:50	SY/MD	Ok
4	VY0226SBS01	VY021322.D	26 Feb 2025 11:22	SY/MD	Ok,M
5	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44	SY/MD	Ok,M
6	Q1416-01	VY021324.D	26 Feb 2025 12:20	SY/MD	ReRun
7	Q1413-02	VY021325.D	26 Feb 2025 12:43	SY/MD	ReRun
8	Q1418-01	VY021326.D	26 Feb 2025 13:07	SY/MD	Ok
9	Q1413-02RE	VY021327.D	26 Feb 2025 13:30	SY/MD	Confirms
10	Q1401-07	VY021328.D	26 Feb 2025 13:54	SY/MD	Ok
11	Q1401-08	VY021329.D	26 Feb 2025 14:17	SY/MD	Ok
12	Q1401-09	VY021330.D	26 Feb 2025 14:40	SY/MD	Ok
13	Q1382-19	VY021331.D	26 Feb 2025 15:04	SY/MD	Ok
14	Q1383-09	VY021332.D	26 Feb 2025 15:27	SY/MD	Ok
15	Q1411-03	VY021333.D	26 Feb 2025 15:51	SY/MD	Ok
16	Q1411-01	VY021334.D	26 Feb 2025 16:14	SY/MD	Not Ok
17	Q1415-02	VY021335.D	26 Feb 2025 16:37	SY/MD	Ok
18	Q1415-01	VY021336.D	26 Feb 2025 17:01	SY/MD	Ok
19	Q1415-04	VY021337.D	26 Feb 2025 17:24	SY/MD	Ok,M
20	Q1415-03	VY021338.D	26 Feb 2025 17:48	SY/MD	Ok
21	Q1420-07	VY021339.D	26 Feb 2025 18:11	SY/MD	ReRun

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133161			
CCC		VP133162,VP133163			
Internal Standard/PEM		VP131783			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1420-03	VY021340.D	26 Feb 2025 18:34	SY/MD	Ok
23	Q1427-01	VY021341.D	26 Feb 2025 18:58	SY/MD	ReRun
24	Q1380-07MS	VY021342.D	26 Feb 2025 19:21	SY/MD	Ok,M
25	Q1380-08MSD	VY021343.D	26 Feb 2025 19:43	SY/MD	Ok,M
26	VSTDCCC050	VY021344.D	26 Feb 2025 20:06	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM
SubDirectory	VY022725	HP Acquire Method	HP Processing Method 82y022225s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP133167		
Initial Calibration Stds	VP133165,VP133166		
CCC			
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021345.D	27 Feb 2025 09:41	SY/MD	Ok
2	VSTDCCC050	VY021346.D	27 Feb 2025 10:13	SY/MD	Ok,M
3	VY0227SBL01	VY021347.D	27 Feb 2025 10:42	SY/MD	Ok
4	VY0227SBS01	VY021348.D	27 Feb 2025 11:18	SY/MD	Ok,M
5	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40	SY/MD	Ok,M
6	Q1428-01	VY021350.D	27 Feb 2025 12:04	SY/MD	ReRun
7	Q1442-03	VY021351.D	27 Feb 2025 12:28	SY/MD	Ok
8	Q1416-01RE	VY021352.D	27 Feb 2025 12:51	SY/MD	Confirms
9	Q1428-01RE	VY021353.D	27 Feb 2025 13:14	SY/MD	Confirms
10	Q1418-01	VY021354.D	27 Feb 2025 13:38	SY/MD	Not Ok
11	Q1415-03RE	VY021355.D	27 Feb 2025 14:01	SY/MD	Confirms
12	Q1422-02	VY021356.D	27 Feb 2025 14:25	SY/MD	ReRun
13	Q1422-01	VY021357.D	27 Feb 2025 14:48	SY/MD	ReRun
14	Q1421-08	VY021358.D	27 Feb 2025 15:12	SY/MD	Not Ok
15	Q1421-07	VY021359.D	27 Feb 2025 15:35	SY/MD	ReRun
16	Q1421-01	VY021360.D	27 Feb 2025 15:58	SY/MD	Ok
17	Q1427-01RE	VY021361.D	27 Feb 2025 16:22	SY/MD	Confirms
18	Q1420-07	VY021362.D	27 Feb 2025 16:45	SY/MD	Ok
19	Q1411-03	VY021363.D	27 Feb 2025 17:09	SY/MD	Not Ok
20	Q1411-01	VY021364.D	27 Feb 2025 17:32	SY/MD	Ok
21	Q1440-01	VY021365.D	27 Feb 2025 17:55	SY/MD	ReRun

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY022725

Review By	Maresh Dadoda	Review On	2/28/2025 11:07:46 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM
SubDirectory	VY022725	HP Acquire Method	HP Processing Method 82y022225s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP133167		
Initial Calibration Stds	VP133165,VP133166		
CCC			
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1448-01	VY021366.D	27 Feb 2025 18:19	SY/MD	ReRun
23	Q1448-02	VY021367.D	27 Feb 2025 18:42	SY/MD	ReRun
24	Q1448-03	VY021368.D	27 Feb 2025 19:06	SY/MD	ReRun
25	Q1448-04	VY021369.D	27 Feb 2025 19:29	SY/MD	Dilution
26	Q1448-05	VY021370.D	27 Feb 2025 19:52	SY/MD	ReRun
27	Q1421-02MS	VY021371.D	27 Feb 2025 20:15	SY/MD	Ok,M
28	Q1421-03MSD	VY021372.D	27 Feb 2025 20:38	SY/MD	Ok,M
29	VSTDCCC050	VY021373.D	27 Feb 2025 21:01	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133068 VP133070,VP133071,VP133072,VP133073,VP133074,VP133075 VP133076

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Maresh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133126
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085828.D	24 Feb 2025 10:50		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	V13516	JC\MD	Ok,M
3	VN0224MBL01	VN0224MBL01	VN085830.D	24 Feb 2025 12:15		JC\MD	Ok
4	VN0224WBL01	VN0224WBL01	VN085831.D	24 Feb 2025 12:39		JC\MD	Ok
5	VN0224WBS01	VN0224WBS01	VN085832.D	24 Feb 2025 13:03		JC\MD	Ok,M
6	VN0224WBSD01	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36		JC\MD	Ok,M
7	Q1405-02DL	MW-04-021325DL	VN085834.D	24 Feb 2025 14:00	vial B pH<2	JC\MD	Ok
8	Q1405-03	MW-20D-021325	VN085835.D	24 Feb 2025 14:24	vial B pH<2	JC\MD	Ok
9	Q1405-04	MW-20D-FD-021325	VN085836.D	24 Feb 2025 14:49	vial B pH<2	JC\MD	Ok,M
10	Q1405-05	MW-22-021925	VN085837.D	24 Feb 2025 15:13	vial B pH<2	JC\MD	Ok
11	Q1405-11	TB-02-021325	VN085838.D	24 Feb 2025 15:37	vial A pH<2 TB	JC\MD	Ok
12	Q1415-05	FB02222025	VN085839.D	24 Feb 2025 16:01	vial A pH<2 FB;hit of com.#16	JC\MD	ReRun
13	Q1405-07	MW-26-021825	VN085840.D	24 Feb 2025 16:26	vial A pH<2	JC\MD	Ok
14	Q1405-08	MOS-11R-021325	VN085841.D	24 Feb 2025 16:50	vial A pH<2	JC\MD	Ok
15	Q1405-09	MOS-13-021925	VN085842.D	24 Feb 2025 17:14	vial A pH<2	JC\MD	Ok
16	Q1405-10	MW-30S-021825	VN085843.D	24 Feb 2025 17:38	vial A pH<2	JC\MD	Ok
17	Q1415-06	B-173-GW01	VN085844.D	24 Feb 2025 18:02	vial A pH<2	JC\MD	Ok
18	VSTDCCC050	VSTDCCC050EC	VN085845.D	24 Feb 2025 18:26		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM
SubDirectory	VN022425	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133126		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133127,VP133128		

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:46:27 PM
SubDirectory	VN022525	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133142		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133144,VP133145		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085846.D	25 Feb 2025 10:11		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	V13516	JC\MD	Ok,M
3	VN0225MBL01	VN0225MBL01	VN085848.D	25 Feb 2025 11:19		JC\MD	Ok
4	VN0225WBL01	VN0225WBL01	VN085849.D	25 Feb 2025 11:43		JC\MD	Ok
5	VN0225WBS01	VN0225WBS01	VN085850.D	25 Feb 2025 12:14		JC\MD	Ok,M
6	VN0225WBSD01	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48		JC\MD	Ok,M
7	IBLK	IBLK	VN085852.D	25 Feb 2025 13:12		JC\MD	Ok
8	Q1415-05	FB02222025	VN085853.D	25 Feb 2025 13:36	vial B pH<2 FB	JC\MD	Ok
9	VN0225MBS01	VN0225MBS01	VN085854.D	25 Feb 2025 14:00		JC\MD	Ok,M
10	Q1395-01	BEL-25-0005	VN085855.D	25 Feb 2025 14:24	Need 10X	JC\MD	Dilution
11	IBLK	IBLK	VN085856.D	25 Feb 2025 14:49		JC\MD	Ok
12	IBLK	IBLK	VN085857.D	25 Feb 2025 15:13		JC\MD	Ok
13	Q1395-01DL	BEL-25-0005DL	VN085858.D	25 Feb 2025 15:37		JC\MD	Ok
14	IBLK	IBLK	VN085859.D	25 Feb 2025 16:15		JC\MD	Ok
15	VSTDCCC050	VSTDCCC050EC	VN085860.D	25 Feb 2025 16:42		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY022525

Review By	Maresh Dadoda	Review On	2/26/2025 1:45:35 PM
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y HP Processing Method 82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY021311.D	25 Feb 2025 13:26	Acrolein fail for method	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021312.D	25 Feb 2025 14:48		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDIC150	VSTDIC150	VY021314.D	25 Feb 2025 15:57		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021315.D	25 Feb 2025 16:24		SY/MD	Ok
9	VSTDIC100	VSTDIC100	VY021316.D	25 Feb 2025 16:49		SY/MD	Ok,M
10	VSTDICV050	ICVVY022525	VY021317.D	25 Feb 2025 17:31	ICV Failed for comp. #10	SY/MD	Ok,M
11	VIBLK	VIBLK	VY021318.D	25 Feb 2025 17:54		SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY022625

Review By	Maresh Dadoda	Review On	2/27/2025 12:12:40 PM
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y HP Processing Method 82Y022525S.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133161
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133162,VP133163 VP131783

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021319.D	26 Feb 2025 09:12		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021320.D	26 Feb 2025 10:11		SY/MD	Ok,M
3	VY0226SBL01	VY0226SBL01	VY021321.D	26 Feb 2025 10:50		SY/MD	Ok
4	VY0226SBS01	VY0226SBS01	VY021322.D	26 Feb 2025 11:22		SY/MD	Ok,M
5	VY0226SBSD01	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44		SY/MD	Ok,M
6	Q1416-01	OK-01-022425	VY021324.D	26 Feb 2025 12:20	vial-A ISTD Fail	SY/MD	ReRun
7	Q1413-02	BU-2-022125	VY021325.D	26 Feb 2025 12:43	vial-A ISTD Fail	SY/MD	ReRun
8	Q1418-01	TR-06-02242025	VY021326.D	26 Feb 2025 13:07	vial-A ISTD Fail	SY/MD	Ok
9	Q1413-02RE	BU-2-022125RE	VY021327.D	26 Feb 2025 13:30	vial-B ISTD Fail	SY/MD	Confirms
10	Q1401-07	BP-VPB-192-GW-825-8	VY021328.D	26 Feb 2025 13:54	vial-A	SY/MD	Ok
11	Q1401-08	BP-VPB-192-GW-860-8	VY021329.D	26 Feb 2025 14:17	vial-A	SY/MD	Ok
12	Q1401-09	BP-VPB-192-GW-880-8	VY021330.D	26 Feb 2025 14:40	vial-A	SY/MD	Ok
13	Q1382-19	OU4-PCS-TC-10-02172	VY021331.D	26 Feb 2025 15:04	vial-A	SY/MD	Ok
14	Q1383-09	OU4-PCS-TC-15-02172	VY021332.D	26 Feb 2025 15:27	vial-B	SY/MD	Ok
15	Q1411-03	HR-03-02212025	VY021333.D	26 Feb 2025 15:51	vial-A	SY/MD	Ok
16	Q1411-01	HR-02-02212025	VY021334.D	26 Feb 2025 16:14	vial-A NOT PURGE	SY/MD	Not Ok
17	Q1415-02	B-172-SB01	VY021335.D	26 Feb 2025 16:37	vial-A	SY/MD	Ok
18	Q1415-01	B-163-SB01	VY021336.D	26 Feb 2025 17:01	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY022625

Review By	Maresh Dadoda	Review On	2/27/2025 12:12:40 PM
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y HP Processing Method 82Y022525S.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133161		
CCC	VP133162,VP133163		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1415-04	B-172-SB02	VY021337.D	26 Feb 2025 17:24	vial-A	SY/MD	Ok,M
20	Q1415-03	B-163-SB02	VY021338.D	26 Feb 2025 17:48	vial-A Internal Standard Fail	SY/MD	Ok
21	Q1420-07	TP-2-WC-VOC	VY021339.D	26 Feb 2025 18:11	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q1420-03	TP-1-WC-VOC	VY021340.D	26 Feb 2025 18:34	vial-A	SY/MD	Ok
23	Q1427-01	VNJ-227	VY021341.D	26 Feb 2025 18:58	vial-A Surrogate Fail	SY/MD	ReRun
24	Q1380-07MS	BP-VPB-192-GW-725-7	VY021342.D	26 Feb 2025 19:21	vial-B	SY/MD	Ok,M
25	Q1380-08MSD	BP-VPB-192-GW-725-7	VY021343.D	26 Feb 2025 19:43	vial-B Internal Standard Fail	SY/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VY021344.D	26 Feb 2025 20:06		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM
SubDirectory	VY022725	HP Acquire Method	HP Processing Method 82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133167 VP133165,VP133166

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021345.D	27 Feb 2025 09:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021346.D	27 Feb 2025 10:13		SY/MD	Ok,M
3	VY0227SBL01	VY0227SBL01	VY021347.D	27 Feb 2025 10:42		SY/MD	Ok
4	VY0227SBS01	VY0227SBS01	VY021348.D	27 Feb 2025 11:18		SY/MD	Ok,M
5	VY0227SBSD01	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40		SY/MD	Ok,M
6	Q1428-01	NB-07-022525	VY021350.D	27 Feb 2025 12:04	Vial-A ISTD Fail	SY/MD	ReRun
7	Q1442-03	351	VY021351.D	27 Feb 2025 12:28	Vial-A	SY/MD	Ok
8	Q1416-01RE	OK-01-022425RE	VY021352.D	27 Feb 2025 12:51	Vial-B ISTD Fail	SY/MD	Confirms
9	Q1428-01RE	NB-07-022525RE	VY021353.D	27 Feb 2025 13:14	Vial-B Internal Standard Fail	SY/MD	Confirms
10	Q1418-01	TR-06-02242025	VY021354.D	27 Feb 2025 13:38	Vial-B Not purge	SY/MD	Not Ok
11	Q1415-03RE	B-163-SB02RE	VY021355.D	27 Feb 2025 14:01	Vial-B Internal standard fail;Not match for com.#20	SY/MD	Confirms
12	Q1422-02	B-154-SB02	VY021356.D	27 Feb 2025 14:25	Vial-A Internal standard fail	SY/MD	ReRun
13	Q1422-01	B-154-SB01	VY021357.D	27 Feb 2025 14:48	Vial-A Internal standard fail	SY/MD	ReRun
14	Q1421-08	P001-CLAY-CF01-02	VY021358.D	27 Feb 2025 15:12	Vial-B Typo	SY/MD	Not Ok
15	Q1421-07	P001-CLAY-CF01-02	VY021359.D	27 Feb 2025 15:35	Vial-A Internal standard fail	SY/MD	ReRun
16	Q1421-01	P001-CLAY-CF01-01	VY021360.D	27 Feb 2025 15:58	Vial-A Internal standard fail	SY/MD	Ok
17	Q1427-01RE	VNJ-227RE	VY021361.D	27 Feb 2025 16:22	Vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY022725

Review By	Maresh Dadoda	Review On	2/28/2025 11:07:46 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM
SubDirectory	VY022725	HP Acquire Method	HP Processing Method 82y022225s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP133167		
Initial Calibration Stds	VP133165,VP133166		
CCC			
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q1420-07	TP-2-WC-VOC	VY021362.D	27 Feb 2025 16:45	Vial-B	SY/MD	Ok
19	Q1411-03	HR-03-02212025	VY021363.D	27 Feb 2025 17:09	Vial-B Not purge	SY/MD	Not Ok
20	Q1411-01	HR-02-02212025	VY021364.D	27 Feb 2025 17:32	Vial-B Internal standard fail	SY/MD	Ok
21	Q1440-01	OR-02-022625	VY021365.D	27 Feb 2025 17:55	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1448-01	PSP1	VY021366.D	27 Feb 2025 18:19	Vial-A Internal standard fail	SY/MD	ReRun
23	Q1448-02	P1	VY021367.D	27 Feb 2025 18:42	Vial-A Internal standard fail	SY/MD	ReRun
24	Q1448-03	P2	VY021368.D	27 Feb 2025 19:06	Vial-A Internal standard fail	SY/MD	ReRun
25	Q1448-04	P3	VY021369.D	27 Feb 2025 19:29	Vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
26	Q1448-05	P4	VY021370.D	27 Feb 2025 19:52	Vial-A Internal standard fail	SY/MD	ReRun
27	Q1421-02MS	P001-CLAY-CF01-01M	VY021371.D	27 Feb 2025 20:15	Vial-A Internal standard fail	SY/MD	Ok,M
28	Q1421-03MSD	P001-CLAY-CF01-01M	VY021372.D	27 Feb 2025 20:38	Vial-A Internal standard fail	SY/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VY021373.D	27 Feb 2025 21:01		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Baldev
Analyst: Nilesch
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134780

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
Q1401-07	BP-VPB-192-GW-825-827	1	1.15	8.83	9.98	2.04	10.1	sludge sample
Q1401-08	BP-VPB-192-GW-860-862	2	1.13	8.65	9.78	1.93	9.2	sludge sample
Q1401-09	BP-VPB-192-GW-880-882	3	1.13	8.68	9.81	1.64	5.9	sludge sample
Q1403-05	SVOC-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1403-06	PEST-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q1403-07	PEST-GPC-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q1403-08	PCB-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1403-09	PCB-GPC-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1403-10	SVOC-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1403-11	PEST-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
Q1403-12	PEST-GPC2-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
Q1403-13	PCB-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q1403-14	PCB-GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q1407-01	022125	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1411-01	HR-02-02212025	15	1.16	8.48	9.64	9.09	93.5	
Q1411-02	HR-02-02212025-E2	16	1.15	8.70	9.85	9.12	91.6	
Q1411-03	HR-03-02212025	17	1.15	8.81	9.96	9.2	91.4	
Q1411-04	HR-03-02212025-E2	18	1.14	8.43	9.57	8.93	92.4	
Q1412-01	GAS-FUEL-ISLAND-MAT	19	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1413-01	BU-2-022125	20	1.18	8.58	9.76	9.28	94.4	
Q1413-02	BU-2-022125	21	1.19	8.45	9.64	9.22	95.0	
Q1414-01	BUR-1316	22	1.12	8.78	9.9	6.68	63.3	
Q1415-01	B-163-SB01	23	1.15	8.80	9.95	8.94	88.5	
Q1415-02	B-172-SB01	24	1.17	8.60	9.77	8.62	86.6	
Q1415-03	B-163-SB02	25	1.13	8.85	9.98	7.54	72.4	
Q1415-04	B-172-SB02	26	1.18	8.77	9.95	9.05	89.7	
Q1416-01	OK-01-022425	27	1.15	8.48	9.63	8.58	87.6	
Q1416-02	OK-01-022425-E2	28	1.16	8.69	9.85	8.77	87.6	

PERCENT SOLID

Supervisor: Baldev
Analyst: Nilesch
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134780

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
Q1418-01	TR-06-02242025	35	1.15	8.71	9.86	8.87	88.6	
Q1418-02	TR-06-02242025-E2	36	1.12	8.75	9.87	8.76	87.3	
Q1420-01	TP-1-WC	29	1.15	8.82	9.97	9.04	89.5	
Q1420-02	TP-1-WC-EPH	30	1.12	8.76	9.88	8.96	89.5	
Q1420-03	TP-1-WC-VOC	31	1.14	8.85	9.99	9.18	90.8	
Q1420-05	TP-2-WC	32	1.15	8.62	9.77	8.79	88.6	
Q1420-06	TP-2-WC-EPH	33	1.15	8.40	9.55	8.63	89.0	
Q1420-07	TP-2-WC-VOC	34	1.14	8.85	9.99	9.00	88.8	
Q1421-01	P001-CLAY-CF01-01	37	1.17	8.60	9.77	7.22	70.3	
Q1421-02	Q1421-01MS	38	1.17	8.60	9.77	7.22	70.3	
Q1421-03	Q1421-01MSD	39	1.17	8.60	9.77	7.22	70.3	
Q1421-04	P001-CLAY-CF01-01	40	1.00	9.00	10.00	1.00	0.0	
Q1421-05	Q1421-04MS	41	1.00	9.00	10.00	1.00	0.0	
Q1421-06	Q1421-04MSD	42	1.00	9.00	10.00	1.00	0.0	
Q1421-07	P001-CLAY-CF01-02	43	1.12	8.55	9.67	7.55	75.2	
Q1421-08	P001-CLAY-CF01-02	44	1.00	9.00	10.00	1.00	0.0	
Q1421-09	P001-CLAY-CF02-01	45	1.11	8.74	9.85	7.96	78.4	
Q1421-10	P001-CLAY-CF02-01	46	1.00	9.00	10.00	1.00	0.0	

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

WORKLIST(Hardcopy Internal Chain)

134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1401-07	BP-VPB-192-GW-825-827	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-08	BP-VPB-192-GW-860-862	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-09	BP-VPB-192-GW-880-882	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1403-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1407-01	022125	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1411-01	HR-02-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG03	H23	02/21/2025	Chemtech -SO
Q1411-02	HR-02-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-03	HR-03-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-04	HR-03-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1412-01	GAS-FUEL-ISLAND-MAT	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1413-01	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1413-02	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO

Date/Time 02/24/25 15:25
 Raw Sample Received by: JR wpc
 Raw Sample Relinquished by: JR wpc
 Date/Time 02/24/25 17:10
 Raw Sample Received by: JR wpc
 Raw Sample Relinquished by: JR wpc

WORKLIST(Hardcopy Internal Chain)

134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1414-01	BUR-1316	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1415-01	B-163-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-02	B-172-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-03	B-163-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-04	B-172-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1416-01	OK-01-022425	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/22/2025	Chemtech -SO
Q1416-02	OK-01-022425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1418-01	TR-06-02242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1418-02	TR-06-02242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1420-01	TP-1-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-02	TP-1-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-03	TP-1-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-05	TP-2-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-06	TP-2-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-07	TP-2-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1421-01	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-02	Q1421-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-03	Q1421-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-04	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-05	Q1421-04MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-06	Q1421-04MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:23
 Raw Sample Received by: SP WDC
 Raw Sample Relinquished by: SP WDC
 Date/Time 02/24/25 17:10
 Raw Sample Received by: SP
 Raw Sample Relinquished by: SP WDC

WORKLIST(Hardcopy Internal Chain)

2134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-07	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-08	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-09	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-10	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25
 Raw Sample Received by: SPW
 Raw Sample Relinquished by: SPW



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Gannett Fleming
ADDRESS: 1010 Abrams Ave
CITY: Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupinski
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Antrak replacement of SB
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupinski
e-mail: QALC@bernsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Sandra Boasy PHONE: 908-789-3148

ANALYSIS

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

1. TCL VOC+H0
2. TCL PAHs
3. Gr LIII
4. Gr LVI
5. TAL metals
6. BPH
7. PCBS
8. PCBS
9. PCBS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-163-SB01	S		X	2/22/25	334	6	X	X	+	X	X	X	X				
2.	B-172-SB01	S		X		400	6	X	X									
3.	B-163-SB02	S		X		426	6	X	X									
4.	B-172-SB02	S		X		730	6	X	X									
5.	FB02222025	DIW		X		830	7	X	X									
6.	B-173-GW01	GW		X		745	8	X	X									
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <u>Mue...</u>	DATE/TIME: <u>2/22/25 11:00</u>	RECEIVED BY: <u>[Signature]</u> <u>2-21-25</u> <u>0700</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>4.7°C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415	PORT06	Order Date : 2/24/2025 10:32:00 AM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 2/24/2025 7:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1415-01	B-163-SB01	Solid	02/22/2025	15:34	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-02	B-172-SB01	Solid	02/22/2025	16:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-03	B-163-SB02	Solid	02/22/2025	16:26	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-04	B-172-SB02	Solid	02/22/2025	19:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-05	FB02222025	Water	02/22/2025	20:30	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1415-06	B-173-GW01	Water	02/22/2025	19:45	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415 **PORT06**

Order Date : 2/24/2025 10:32:00 AM

Project Mgr :

Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 2/24/2025 7:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :

Hard Copy Date :

Invoice Contact : Joseph Krupansky

Date Signoff :

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

Relinquished By : CP

Date / Time : 2-24-25 11:05

Received By : ph

Date / Time : 2-24-25

Storage Area : VOA Refridgerator Room