284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q1422

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1422-01	B-154-SB01
Q1422-02	B-154-SB02

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

Signature : _____

Date: 3/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1422**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **NILESH PRAJAPATI** **Date:** **03/01/2025**

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/27/25	
Q1422-01RE	**B-154-SB01RE**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**B-154-SB01**									
Q1422-01	B-154-SB01	SOIL	Acetone		18.3		J	8.00	32.0	ug/Kg
			Total Voc :			18.3				
Q1422-01	B-154-SB01	SOIL	Propene	*	13.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	1-Propene, 2-methyl-	*	17.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Cyclopentane	*	16.6		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	22.4		J	0	0	ug/Kg
			Total Tics :			69.8				
			Total Concentration:			88.1				
Client ID:	**B-154-SB02**									
Q1422-02	B-154-SB02	SOIL	Benzeneethanamine, N-[(penta	*	4.20		J	0	0	ug/Kg
			Total Tics :			4.20				
			Total Concentration:			4.20				

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1422-01	B-154-SB01	1,2-Dichloroethane-d4	50	57.4	115		70 (50)	130 (163)
		Dibromofluoromethane	50	55.9	112		70 (54)	130 (147)
		Toluene-d8	50	46.9	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	25.9	52	*	70 (29)	130 (146)
Q1422-01RE	B-154-SB01RE	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	51.9	104		70 (70)	130 (134)
		Toluene-d8	50	46.3	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.8	74		70 (38)	130 (136)
Q1422-02	B-154-SB02	1,2-Dichloroethane-d4	50	56.0	112		70 (63)	130 (155)
		Dibromofluoromethane	50	53.9	108		70 (70)	130 (134)
		Toluene-d8	50	47.5	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.2	82		70 (38)	130 (136)
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)
VY0227SBSD01	VY0227SBSD01	1,2-Dichloroethane-d4	50	45.2	90		70 (50)	130 (163)
		Dibromofluoromethane	50	45.6	91		70 (54)	130 (147)
		Toluene-d8	50	45.3	91		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.3	91		70 (29)	130 (146)
VY0228SBL01	VY0228SBL01	1,2-Dichloroethane-d4	50	52.2	104		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	47.1	94		70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.7	81		70 (38)	130 (136)
VY0228SBS01	VY0228SBS01	1,2-Dichloroethane-d4	50	43.2	86		70 (63)	130 (155)
		Dibromofluoromethane	50	45.7	91		70 (70)	130 (134)
		Toluene-d8	50	44.4	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	43.7	87		70 (38)	130 (136)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits 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)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	Dichlorodifluoromethane	20	18.7	ug/Kg	94	4		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.3	ug/Kg	92	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	4		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.6	ug/Kg	93	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.7	ug/Kg	99	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.5	ug/Kg	98	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.5	ug/Kg	98	2		70 (79)	130 (121)	30 (20)
	Acetone	100	100	ug/Kg	100	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.4	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100	4		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.4	ug/Kg	97	5		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.8	ug/Kg	104	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.3	ug/Kg	97	1		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.2	ug/Kg	91	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	3		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.8	ug/Kg	99	1		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.1	ug/Kg	101	6		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.9	ug/Kg	100	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.2	ug/Kg	96	1		70 (77)	130 (123)	30 (20)
	Benzene	20	19.8	ug/Kg	99	1		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.4	ug/Kg	102	0		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.0	ug/Kg	100	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.2	ug/Kg	101	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	99.2	ug/Kg	99	7		40 (70)	160 (135)	30 (20)
	Toluene	20	19.9	ug/Kg	100	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98	1		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	99.7	ug/Kg	100	4		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	4		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.7	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	39.4	ug/Kg	99	2		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.9	ug/Kg	100	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.3	ug/Kg	102	7		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	1		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99	1		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104	10		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	0		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	Dichlorodifluoromethane	20	18.6	ug/Kg	93			40 (64)	160 (136)	
	Chloromethane	20	17.7	ug/Kg	89			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.1	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	20.1	ug/Kg	101			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.8	ug/Kg	94			70 (79)	130 (121)	
	Acetone	100	77.6	ug/Kg	78			40 (60)	160 (131)	
	Carbon disulfide	20	17.4	ug/Kg	87			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			70 (77)	130 (129)	
	Methyl Acetate	20	18.4	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.1	ug/Kg	96			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.4	ug/Kg	92			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.2	ug/Kg	91			70 (82)	130 (123)	
	Cyclohexane	20	17.1	ug/Kg	86			70 (76)	130 (122)	
	2-Butanone	100	83.5	ug/Kg	84			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.5	ug/Kg	98			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.7	ug/Kg	94			70 (82)	130 (123)	
	Bromochloromethane	20	17.8	ug/Kg	89			70 (80)	130 (127)	
	Chloroform	20	18.9	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.1	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.1	ug/Kg	91			70 (77)	130 (123)	
	Benzene	20	19.1	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.5	ug/Kg	98			70 (81)	130 (126)	
	Trichloroethene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.0	ug/Kg	95			70 (83)	130 (122)	
	Bromodichloromethane	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.3	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.6	ug/Kg	93			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	18.7	ug/Kg	94			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			70 (82)	130 (125)	
	2-Hexanone	100	91.3	ug/Kg	91			40 (66)	160 (138)	
	Dibromochloromethane	20	20.4	ug/Kg	102			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	20.4	ug/Kg	102			70 (83)	130 (125)	
	Chlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	m/p-Xylenes	40	39.2	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.6	ug/Kg	98			70 (82)	130 (124)	
	Bromoform	20	20.2	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	18.9	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.7	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

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
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025
B-154-SB01	Q1422-01	VY021357.D	02/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0228SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021376.D Lab Sample ID: VY0228SBL01

Date Analyzed: 02/28/2025 Time Analyzed: 10:59

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
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025
B-154-SB02	Q1422-02	VY021381.D	02/28/2025

COMMENTS:

Raw Data: **VY021308.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

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
VSTDICC005	VSTDICC005	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

Raw Data: **VY021345.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

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
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025	11:40
B-154-SB01	Q1422-01	VY021357.D	02/27/2025	14:48

Raw Data: **VY021374.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021374.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:03

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	22.7
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.4 (1.6) 1
174	50.0 - 100.0% of mass 95	84
175	5.0 - 9.0% of mass 174	6.5 (7.7) 1
176	95.0 - 101.0% of mass 174	80.5 (95.9) 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	VY021375.D	02/28/2025	09:44
VY0228SBL01	VY0228SBL01	VY021376.D	02/28/2025	10:59
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025	11:32
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025	13:20
B-154-SB02	Q1422-02	VY021381.D	02/28/2025	15:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

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-154-SB01	96952	*	7.71	160918	*	8.62	115865	*	11.41
VY0227SBL01	140233		7.71	264026		8.62	255103		11.41
VY0227SBS01	199987		7.71	311959		8.62	272418		11.41
VY0227SBSD01	198659		7.71	310671		8.61	272052		11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

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-154-SB01	27807	*	13.35				
VY0227SBL01	107368		13.35				
VY0227SBS01	138215		13.35				
VY0227SBSD01	137933		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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	170466	7.71	255493	8.62	227302	11.42
UPPER LIMIT	340932	8.207	510986	9.116	454604	11.92
LOWER LIMIT	85233	7.207	127747	8.116	113651	10.92
EPA SAMPLE NO.						
B-154-SB01RE	101641	7.71	171514	8.62	143270	11.41
B-154-SB02	137587	7.71	246433	8.62	216935	11.42
VY0228SBL01	105534	7.71	180558	8.62	159029	11.42
VY0228SBS01	168970	7.71	257471	8.62	224033	11.42

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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

	IS4 AREA #		RT #				
12 HOUR STD	113605		13.353				
UPPER LIMIT	227210		13.853				
LOWER LIMIT	56802.5		12.853				
EPA SAMPLE NO.							
B-154-SB01RE	51974	*	13.35				
B-154-SB02	82177		13.35				
VY0228SBL01	59388		13.35				
VY0228SBS01	115456		13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VY021357.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.40	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.40	ug/Kg
75-01-4	Vinyl Chloride	0.99	U	0.99	6.40	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.40	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	6.40	ug/Kg
67-64-1	Acetone	18.3	J	8.00	32.0	ug/Kg
75-15-0	Carbon Disulfide	1.60	U	1.60	6.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.86	U	0.86	6.40	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.40	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	6.40	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	6.40	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	32.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	6.40	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.40	ug/Kg
67-66-3	Chloroform	0.86	U	0.86	6.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	6.40	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.40	ug/Kg
71-43-2	Benzene	0.92	U	0.92	6.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	6.40	ug/Kg
79-01-6	Trichloroethene	0.96	U	0.96	6.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.40	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	6.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.60	U	5.60	32.0	ug/Kg
108-88-3	Toluene	0.86	U	0.86	6.40	ug/Kg

Raw Data: **VY021357.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	6.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.73	6.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.40	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	32.0	ug/Kg
124-48-1	Dibromochloromethane	0.83	U	0.83	6.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.40	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	6.40	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	6.40	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.8	ug/Kg
95-47-6	o-Xylene	0.90	U	0.90	6.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	6.40	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.40	ug/Kg
98-82-8	Isopropylbenzene	0.86	U	0.86	6.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.95	U	0.95	6.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.76	U	0.76	6.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	55.9		70 (54) - 130 (147)	112%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	25.8	*	70 (29) - 130 (146)	52%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97000	7.707			
540-36-3	1,4-Difluorobenzene	161000	8.616			
3114-55-4	Chlorobenzene-d5	116000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	27800	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021357.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000115-07-1	Propene	13.4	J		1.82	ug/Kg
000115-11-7	1-Propene, 2-methyl-	17.4	J		2.17	ug/Kg
000287-92-3	Cyclopentane	16.6	J		4.71	ug/Kg
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	22.4	J		13.9	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\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 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	96952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	160918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	115865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	27807	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	63167	57.433	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.860%			
35) Dibromofluoromethane	7.634	113	58988	55.913	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 111.820%			
50) Toluene-d8	10.103	98	191349	46.931	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.860%			
62) 4-Bromofluorobenzene	12.408	95	35465	25.846	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 51.700%			
Target Compounds						Qvalue
16) Acetone	3.866	43	3021	14.319	ug/l	97

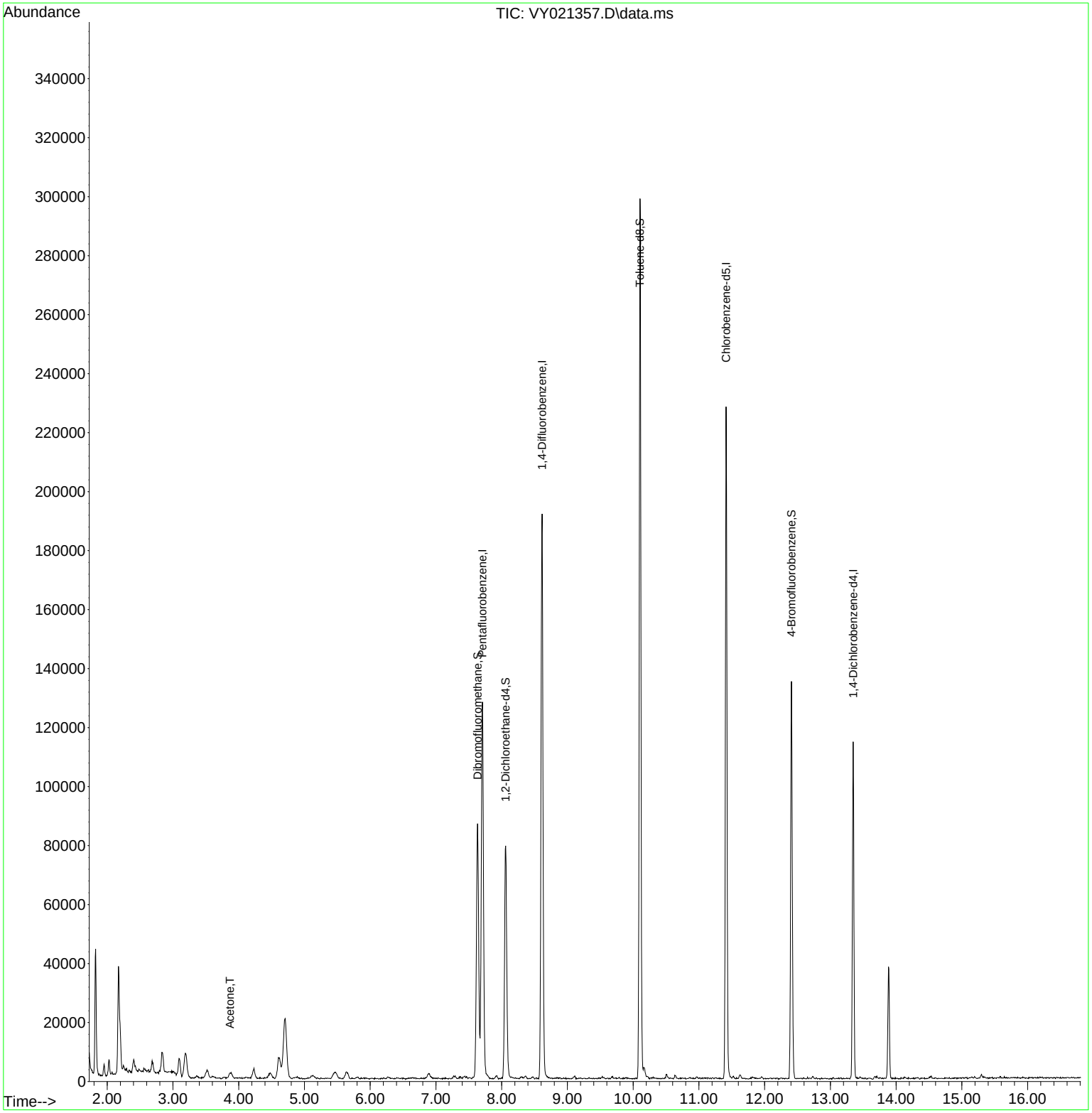
(#) = qualifier out of range (m) = manual integration (+) = signals summed

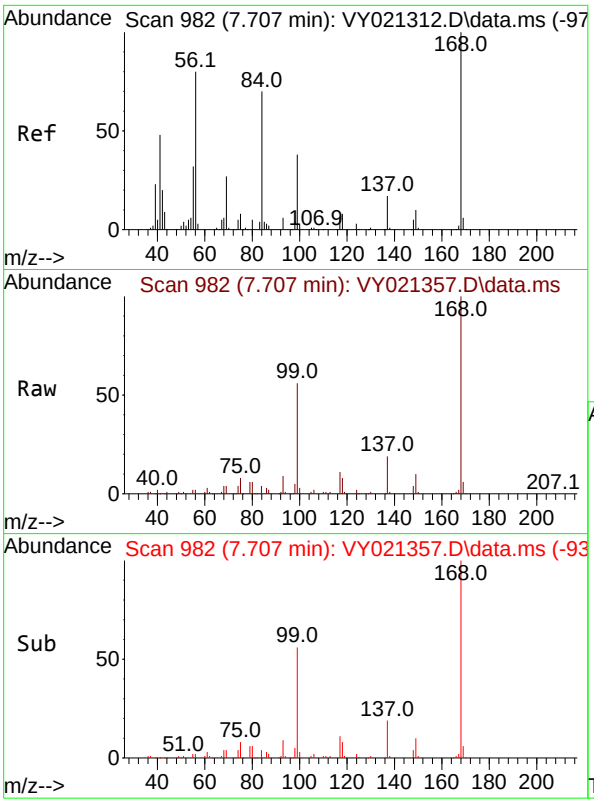
Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 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



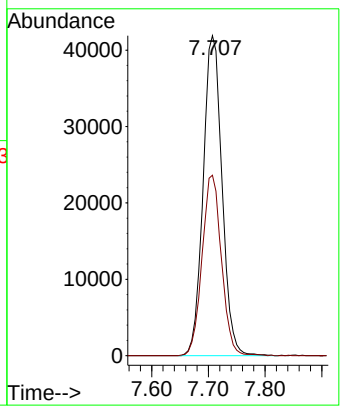


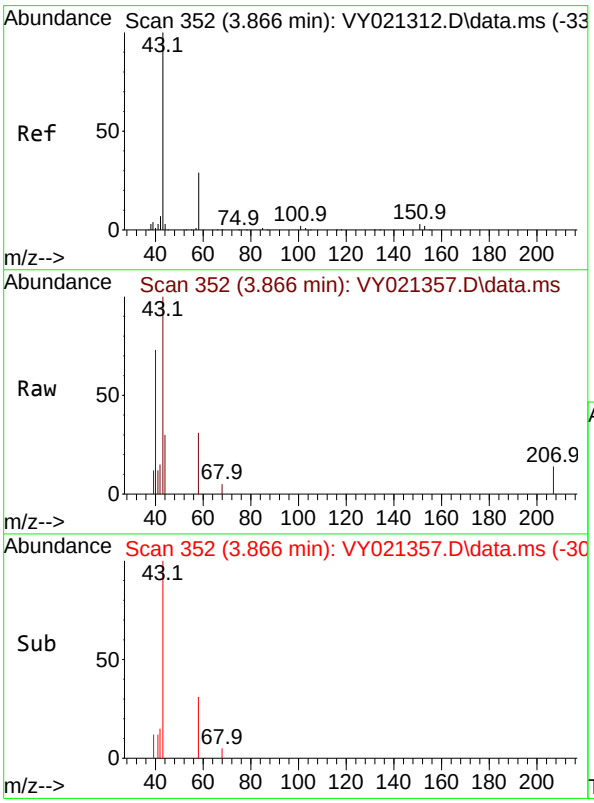
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:168 Resp: 96952

Ion	Ratio	Lower	Upper
168	100		
99	56.4	47.1	70.7

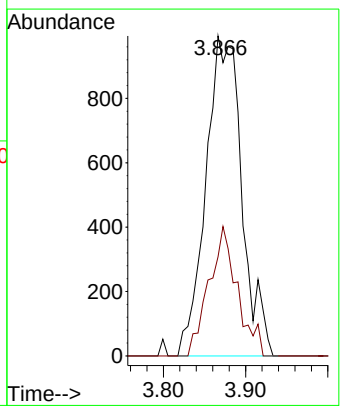


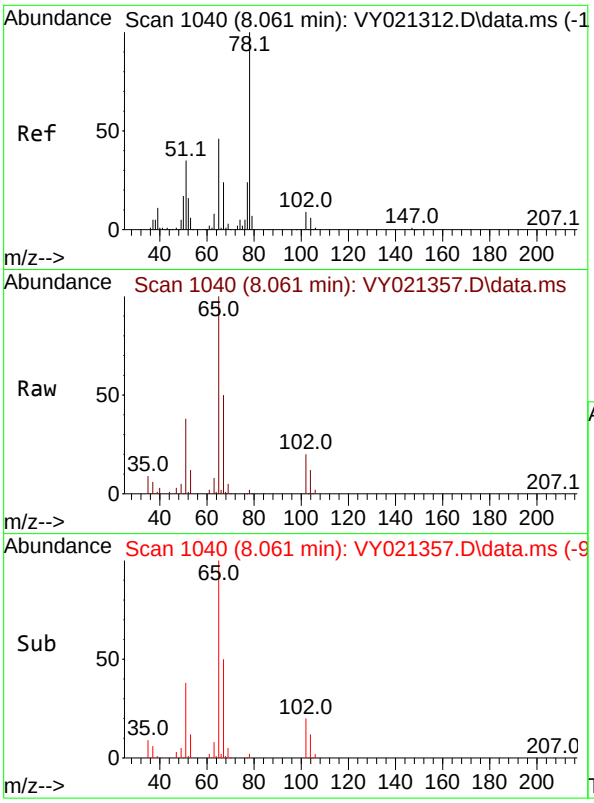


#16
Acetone
Concen: 14.319 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 43 Resp: 3021

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.5	35.3



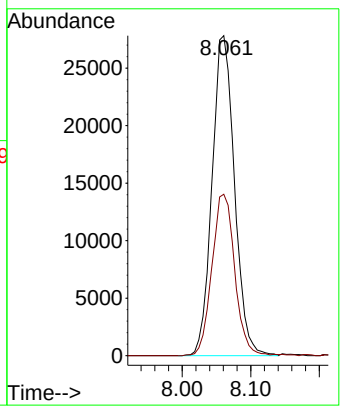


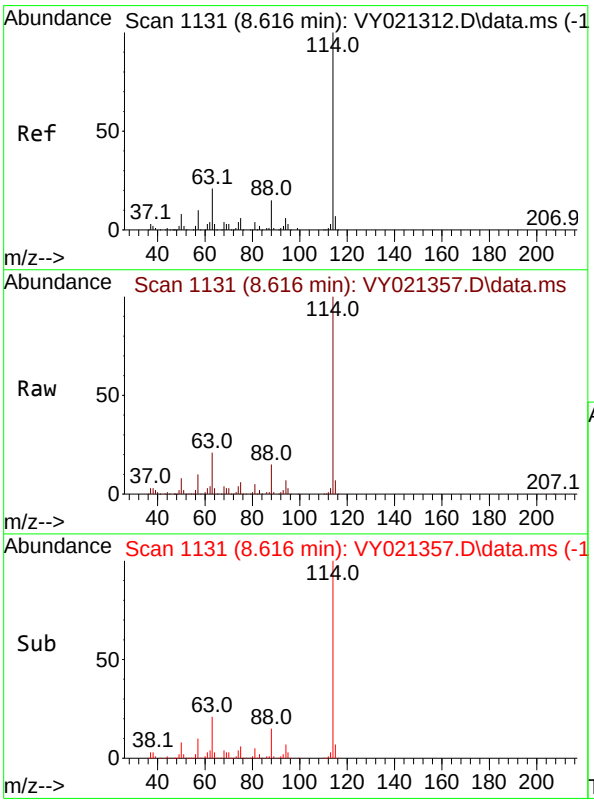
#33
1,2-Dichloroethane-d4
Concen: 57.433 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion: 65 Resp: 63167

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6

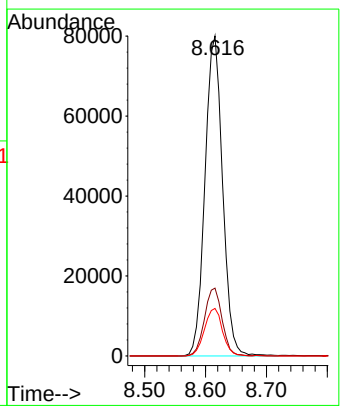


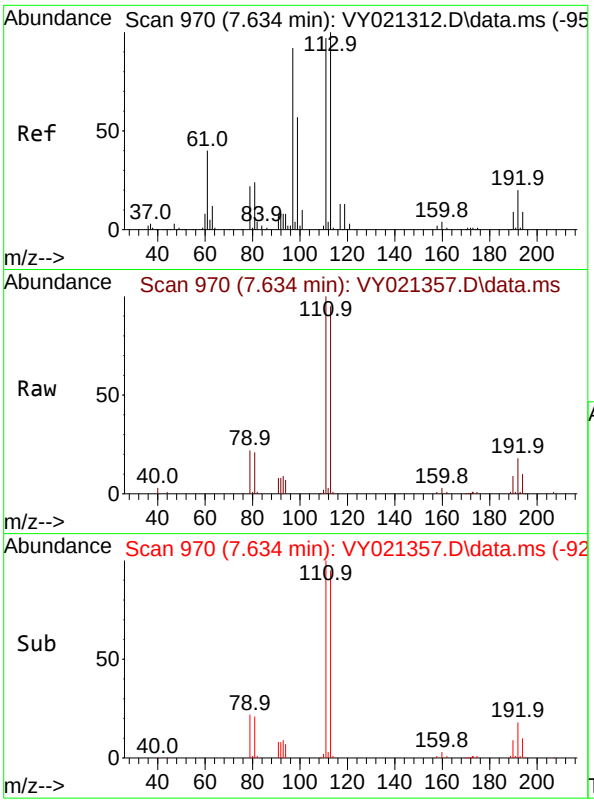


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:114 Resp: 160918

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.2
88	14.9	0.0	29.8



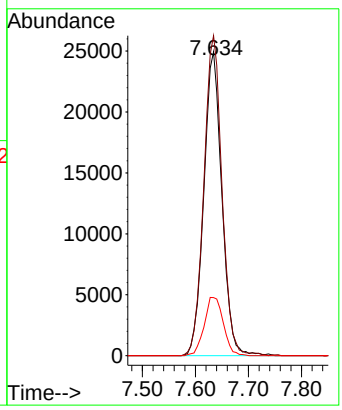


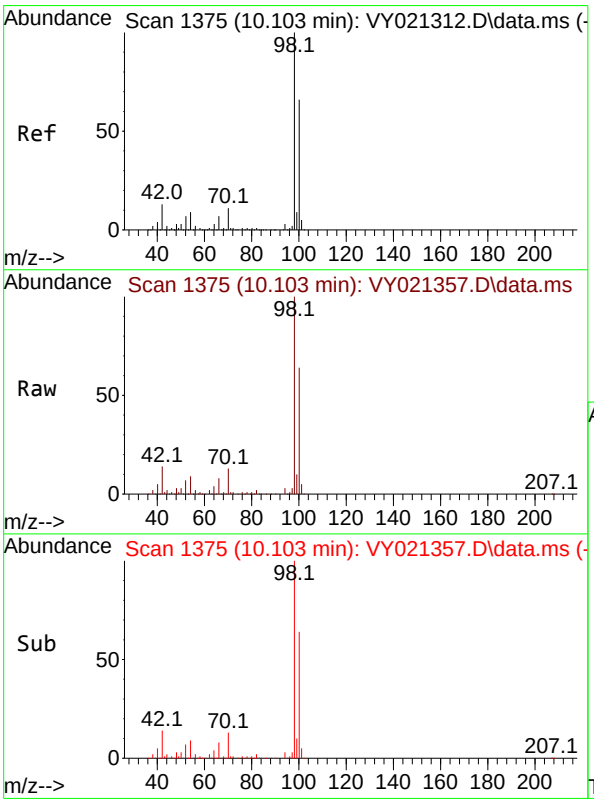
#35
Dibromofluoromethane
Concen: 55.913 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:113 Resp: 58988

Ion	Ratio	Lower	Upper
113	100		
111	105.7	81.0	121.6
192	20.3	15.8	23.8

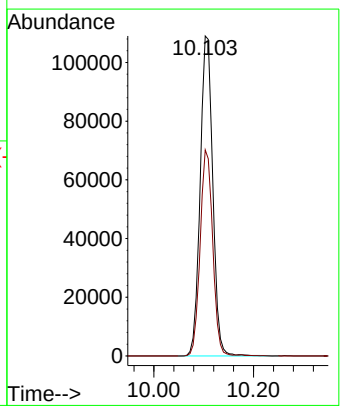


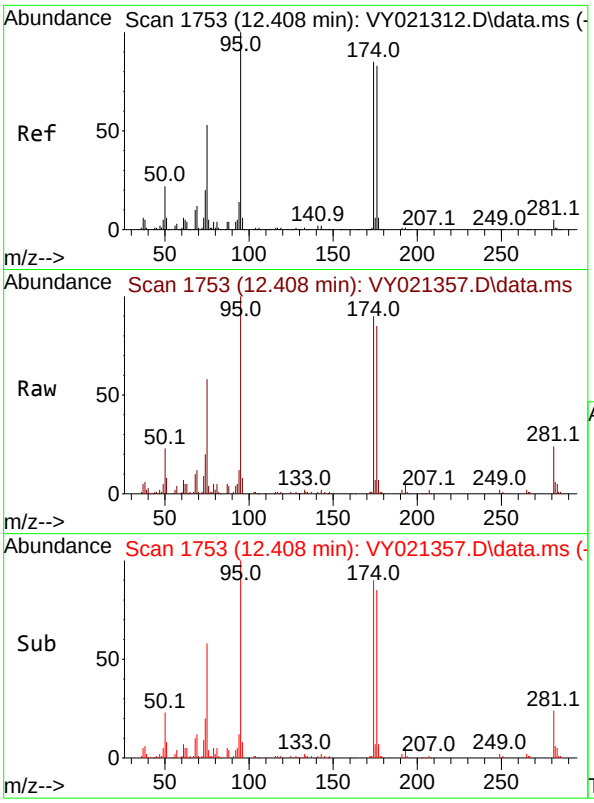


#50
Toluene-d8
Concen: 46.931 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 98 Resp: 191349

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.4	78.6



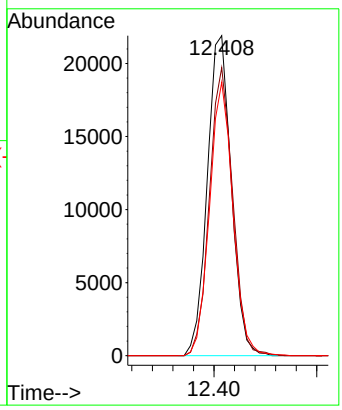


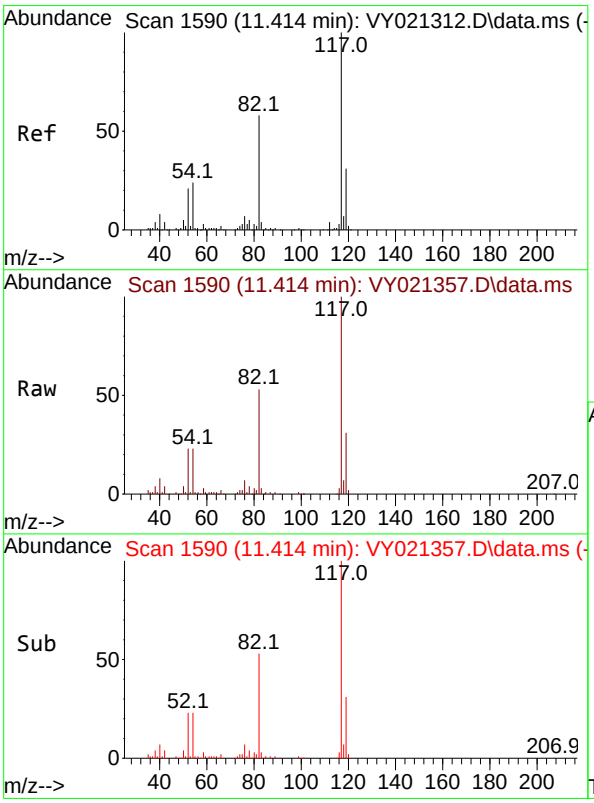
#62
4-Bromofluorobenzene
Concen: 25.846 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion: 95 Resp: 35465

Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	168.0
176	83.2	0.0	162.6

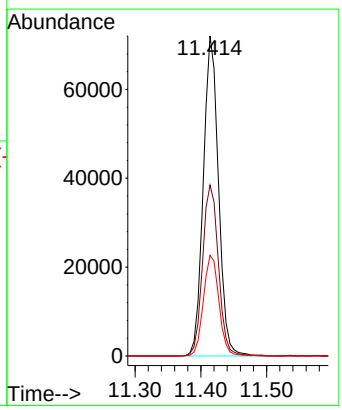


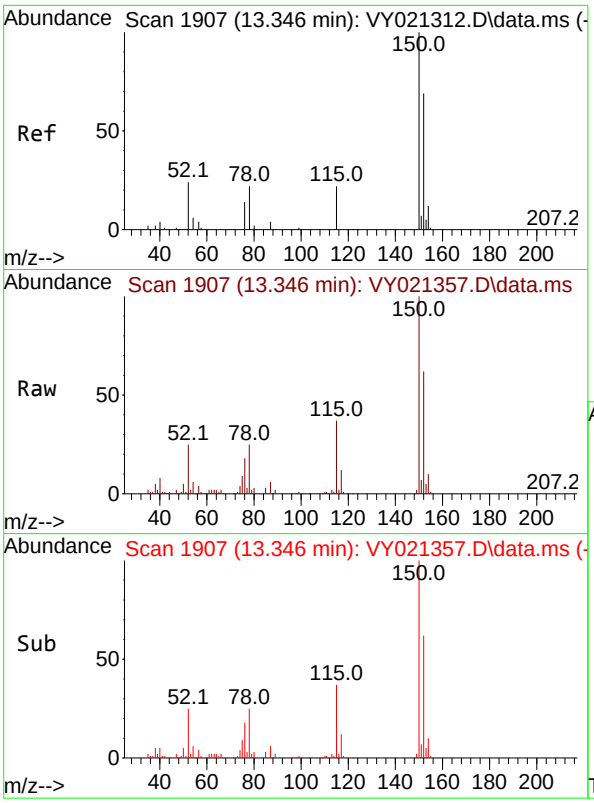


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:117 Resp: 115865

Ion	Ratio	Lower	Upper
117	100		
82	53.4	46.2	69.4
119	31.5	24.9	37.3



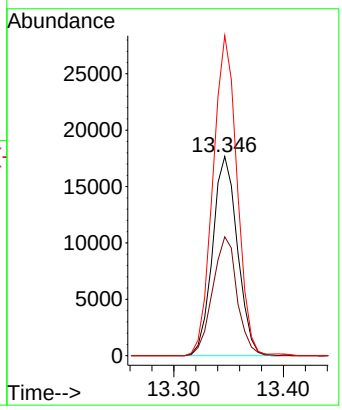


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:152 Resp: 27807

Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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: VY021357.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	11	17	24	rVB	42677	61208	11.72%	2.191%
2	1.952	33	38	43	rVB2	4032	5626	1.08%	0.201%
3	2.025	45	50	55	rBV2	5368	8387	1.61%	0.300%
4	2.172	66	74	84	rBV2	36626	79223	15.17%	2.836%
5	2.403	107	112	115	rBV4	4501	8561	1.64%	0.306%
6	2.684	153	158	168	rVB3	4172	8646	1.66%	0.309%
7	2.830	178	182	189	rVB3	6569	14055	2.69%	0.503%
8	3.092	218	225	232	rVB6	6219	14806	2.84%	0.530%
9	3.190	232	241	255	rVB4	8511	28480	5.45%	1.019%
10	3.519	287	295	304	rVB6	2656	7189	1.38%	0.257%
11	4.232	404	412	420	rVB3	3544	8613	1.65%	0.308%
12	4.604	463	473	480	rBV3	7131	23801	4.56%	0.852%
13	4.708	480	490	507	rVB2	20475	75397	14.44%	2.699%
14	5.640	634	643	650	rBV7	2405	7899	1.51%	0.283%
15	7.634	959	970	976	rBV	86022	204047	39.08%	7.304%
16	7.707	976	982	994	rVB	126697	291244	55.78%	10.425%
17	8.061	1032	1040	1052	rBV	78794	182237	34.91%	6.523%
18	8.616	1122	1131	1147	rBV	191641	393162	75.31%	14.074%
19	10.103	1368	1375	1383	rBV	298382	522091	100.00%	18.689%
20	10.158	1383	1384	1391	rVB3	3193	5623	1.08%	0.201%
21	11.414	1583	1590	1600	rBV	227776	370476	70.96%	13.261%
22	12.408	1747	1753	1763	rBV2	134670	234116	44.84%	8.380%
23	13.346	1898	1907	1915	rBV	114295	176852	33.87%	6.331%
24	13.883	1989	1995	2003	rVB	38016	61886	11.85%	2.215%

Sum of corrected areas: 2793625

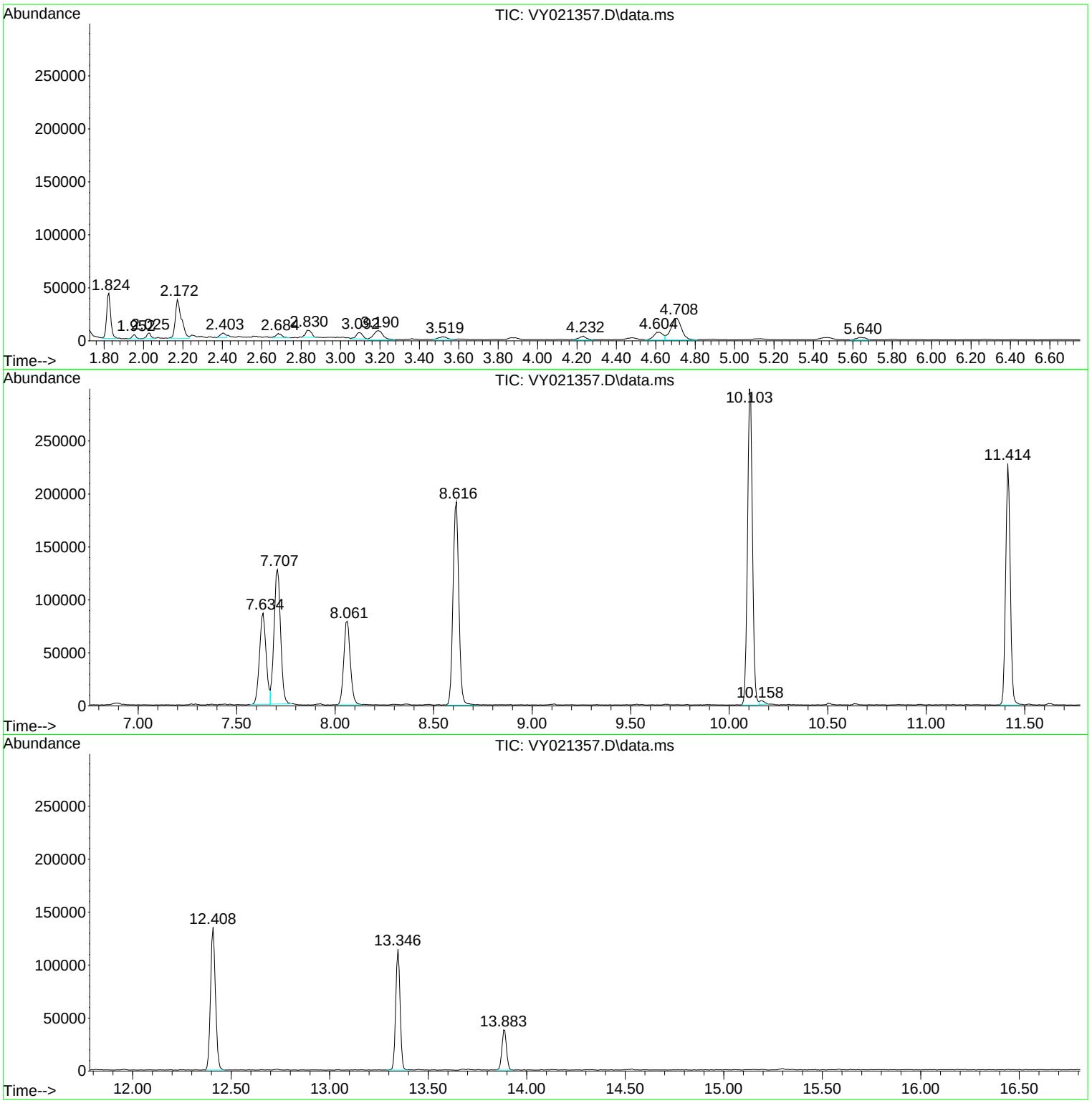
Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

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

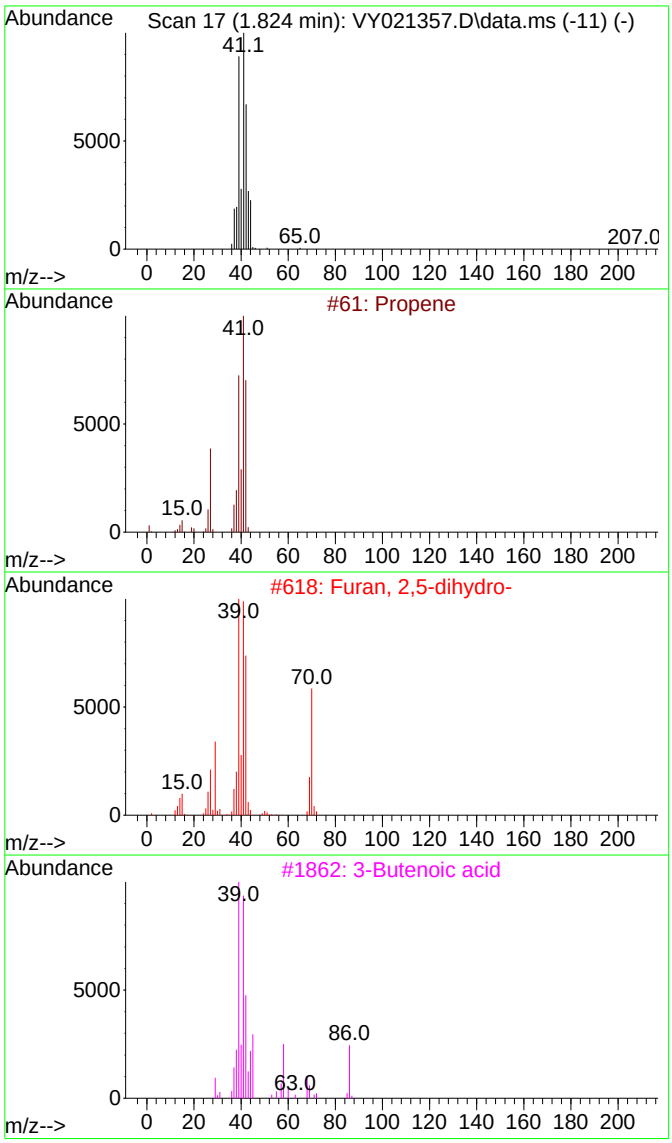
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

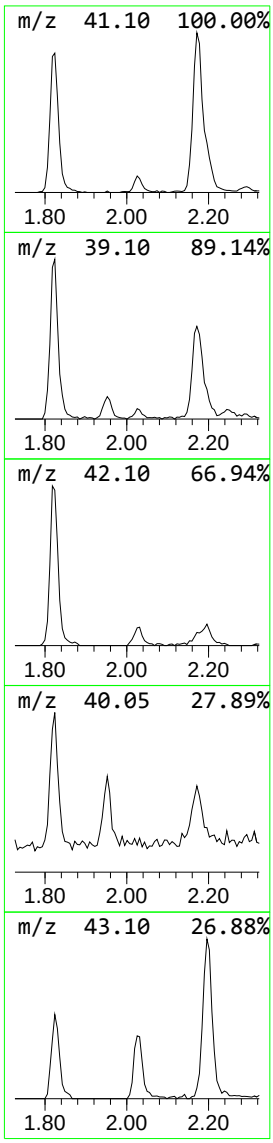
****

Peak Number 1 Propene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.824	10.51 ug/l	61208	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Furan, 2,5-dihydro-	70	C4H6O	001708-29-8	83
3	3-Butenoic acid	86	C4H6O2	000625-38-7	78
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	74
5	2-Butenal, (E)-	70	C4H6O	000123-73-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

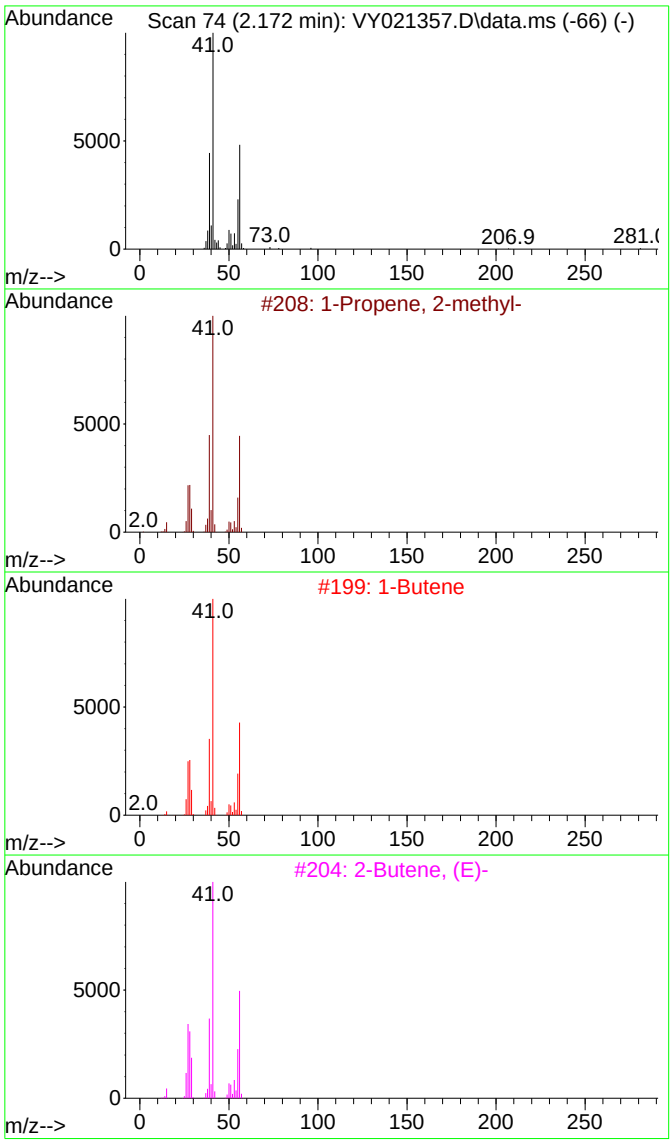
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

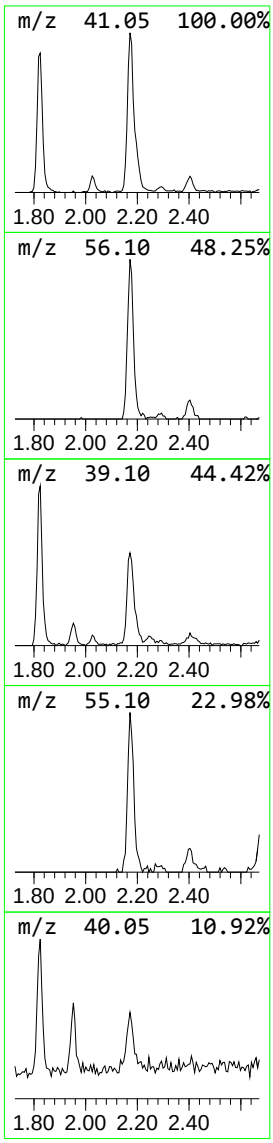
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.172	13.60 ug/l	79223	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2	1-Butene	56	C4H8	000106-98-9	87
3	2-Butene, (E)-	56	C4H8	000624-64-6	80
4	2-Butene, (Z)-	56	C4H8	000590-18-1	80
5	2-Butene	56	C4H8	000107-01-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

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

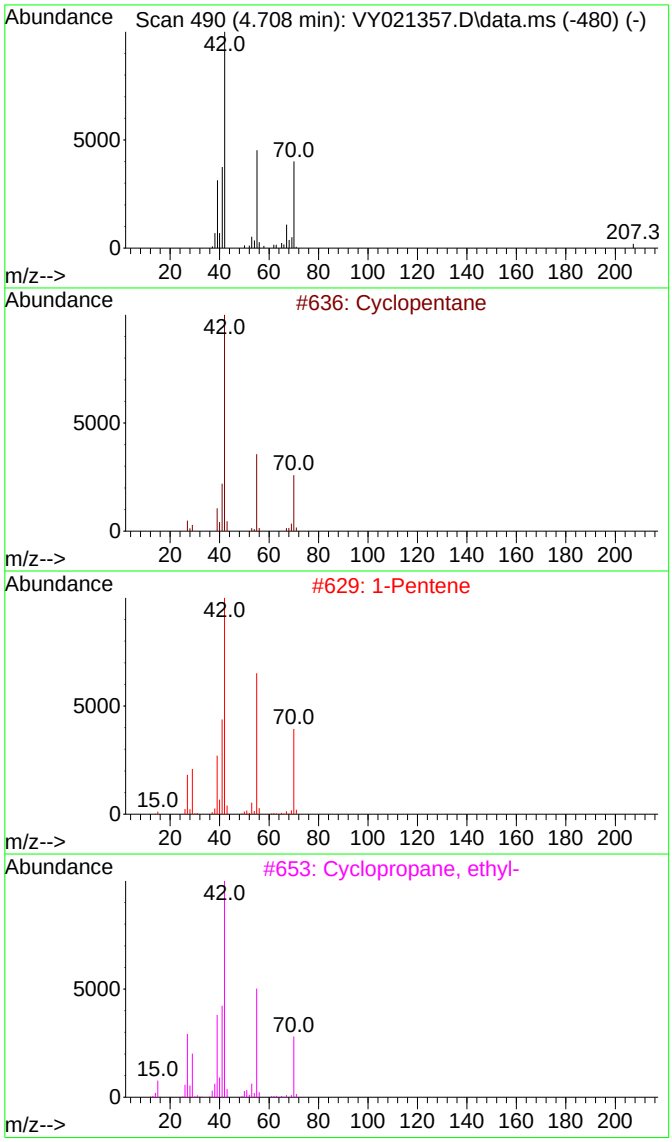
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

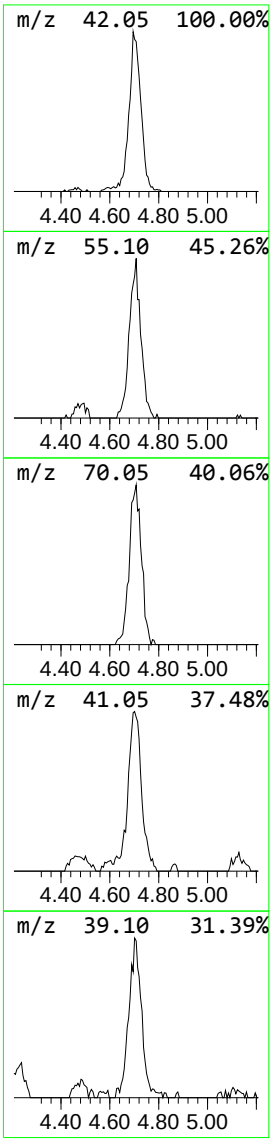
****

Peak Number 3 Cyclopentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	12.94 ug/l	75397	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	72
2	1-Pentene	70	C5H10	000109-67-1	59
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	59
4	2(3H)-Furanone, dihydro-3,5-dime...	114	C6H10O2	005145-01-7	17
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

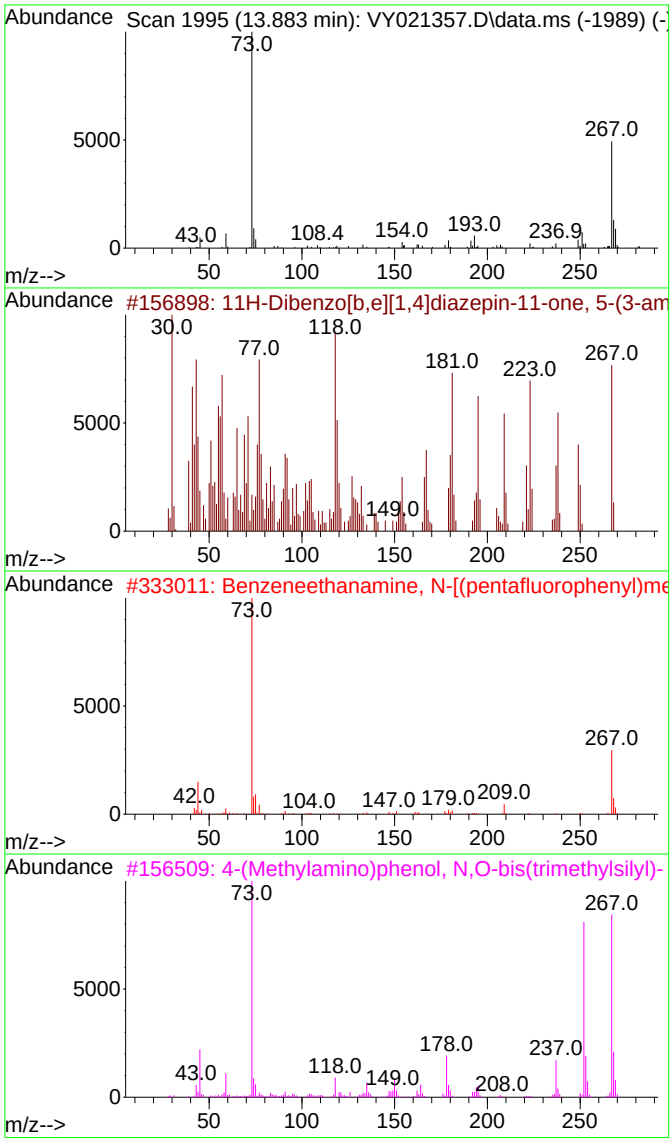
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

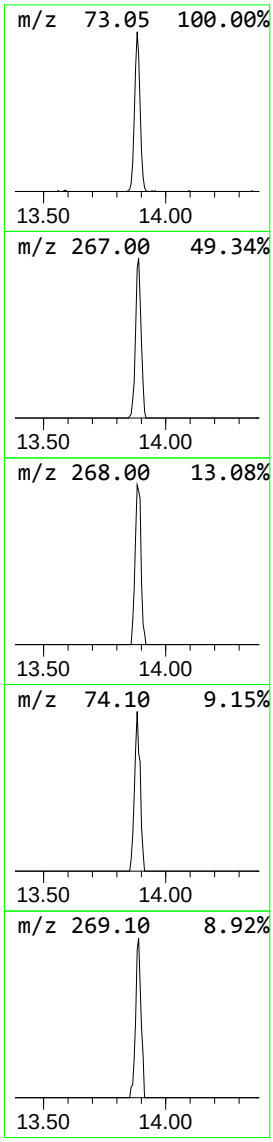
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.883	17.50 ug/l	61886	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	53
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	50
3	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50
4	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	45
5	9-Acridinol, trimethylsilyl ether	267	C16H17NOSi	1000463-65-5	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Propene	1.824	10.5	ug/l	61208	1	7.707	291244	50.0
1-Propene, 2-me...	2.172	13.6	ug/l	79223	1	7.707	291244	50.0
Cyclopentane	4.708	12.9	ug/l	75397	1	7.707	291244	50.0
11H-Dibenzo[b,e...	13.883	17.5	ug/l	61886	4	13.346	176852	50.0

Raw Data: **VY021380.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.40	U	2.40	7.40	ug/Kg
74-87-3	Chloromethane	1.70	U	1.70	7.40	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.40	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.40	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	7.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	7.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	U	1.60	7.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
67-64-1	Acetone	9.20	U	9.20	37.0	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	7.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.99	U	0.99	7.40	ug/Kg
79-20-9	Methyl Acetate	2.70	U	2.70	7.40	ug/Kg
75-09-2	Methylene Chloride	5.00	U	5.00	14.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.93	U	0.93	7.40	ug/Kg
110-82-7	Cyclohexane	1.00	U	1.00	7.40	ug/Kg
78-93-3	2-Butanone	8.40	U	8.40	37.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	7.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	7.40	ug/Kg
74-97-5	Bromochloromethane	3.60	U	3.60	7.40	ug/Kg
67-66-3	Chloroform	0.99	U	0.99	7.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.40	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.90	U	0.90	7.40	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	7.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.98	U	0.98	7.40	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	7.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.40	U	6.40	37.0	ug/Kg
108-88-3	Toluene	0.99	U	0.99	7.40	ug/Kg

Raw Data: **VY021380.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.89	U	0.89	7.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.84	U	0.84	7.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
591-78-6	2-Hexanone	7.10	U	7.10	37.0	ug/Kg
124-48-1	Dibromochloromethane	0.96	U	0.96	7.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	7.40	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	7.40	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	7.40	ug/Kg
100-41-4	Ethyl Benzene	0.92	U	0.92	7.40	ug/Kg
179601-23-1	m/p-Xylenes	2.00	U	2.00	14.8	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	7.40	ug/Kg
100-42-5	Styrene	0.89	U	0.89	7.40	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	7.40	ug/Kg
98-82-8	Isopropylbenzene	0.99	U	0.99	7.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.60	U	1.60	7.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.10	U	1.10	7.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	7.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.87	U	0.87	7.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	7.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		70 (38) - 130 (136)	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	102000	7.707			
540-36-3	1,4-Difluorobenzene	172000	8.616			
3114-55-4	Chlorobenzene-d5	143000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	52000	13.347			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

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\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 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	101641	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	171514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	143270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	51974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55863	48.449	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.634	113	58329	51.873	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.740%			
50) Toluene-d8	10.103	98	201390	46.342	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.680%			
62) 4-Bromofluorobenzene	12.408	95	53808	36.791	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.580%			

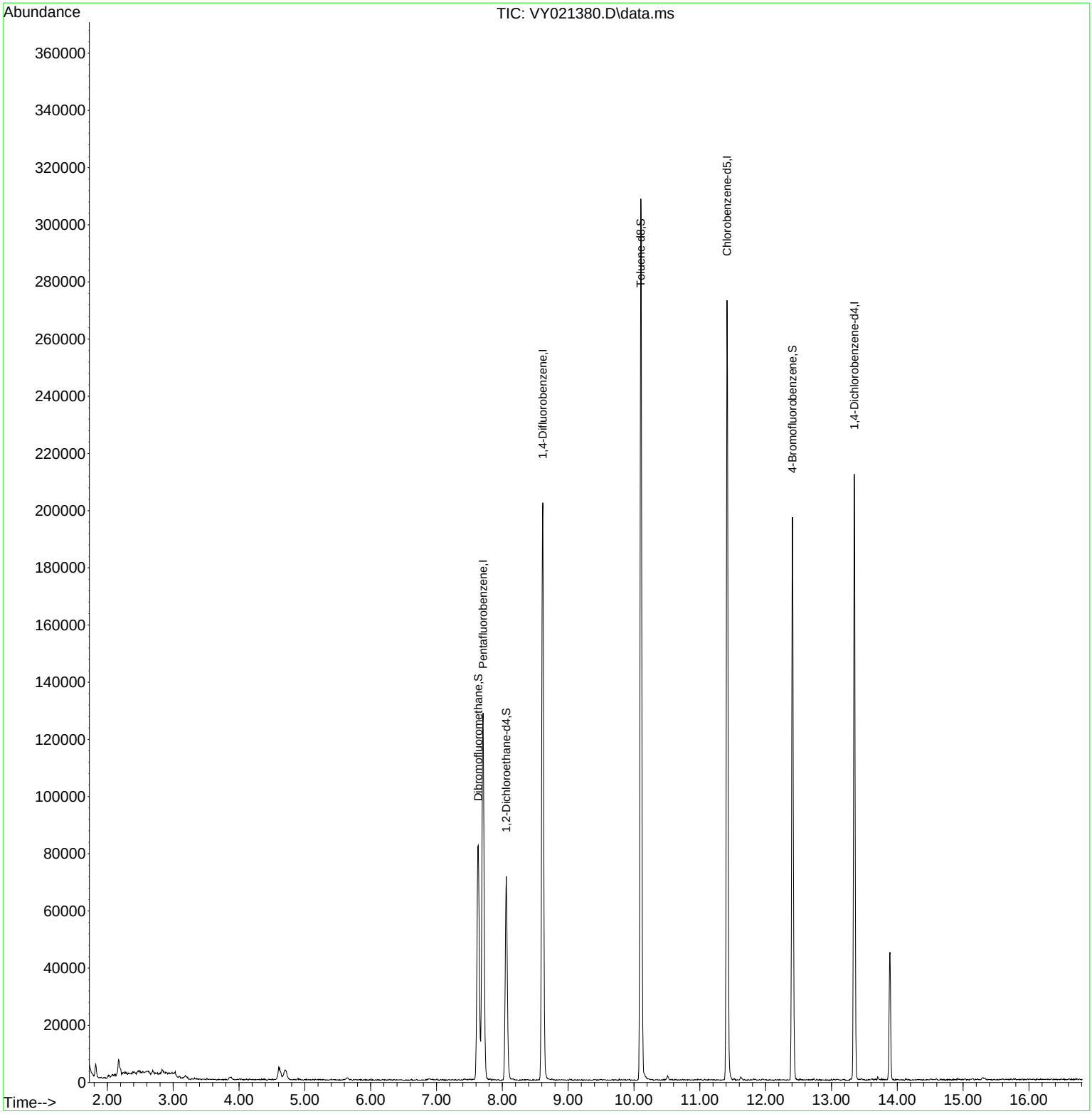
Target Compounds Qvalue

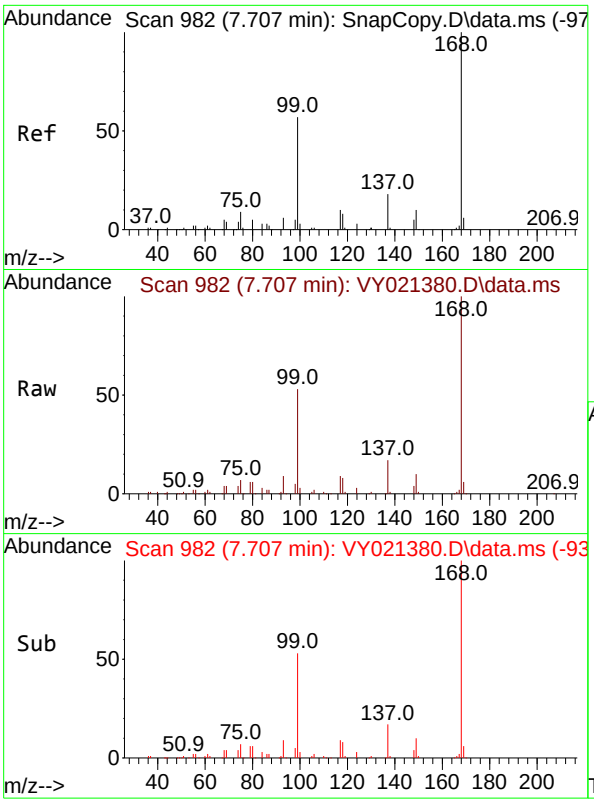
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 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



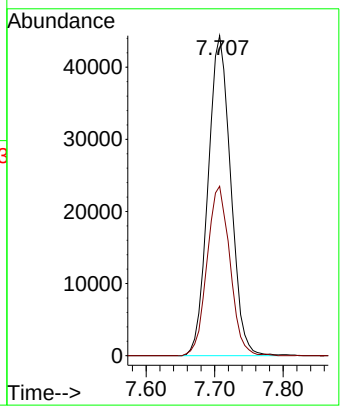


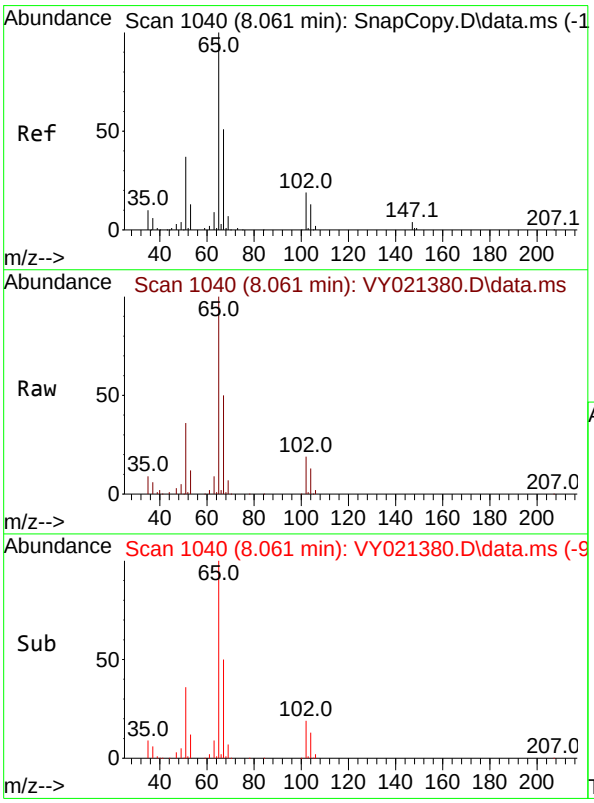
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:168 Resp: 101641

Ion	Ratio	Lower	Upper
168	100		
99	52.9	47.1	70.7

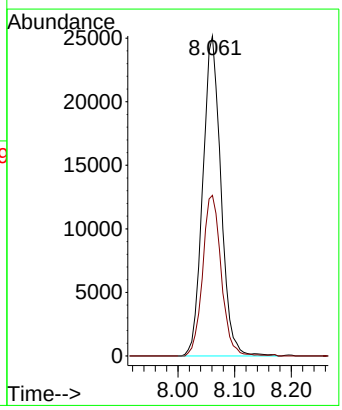


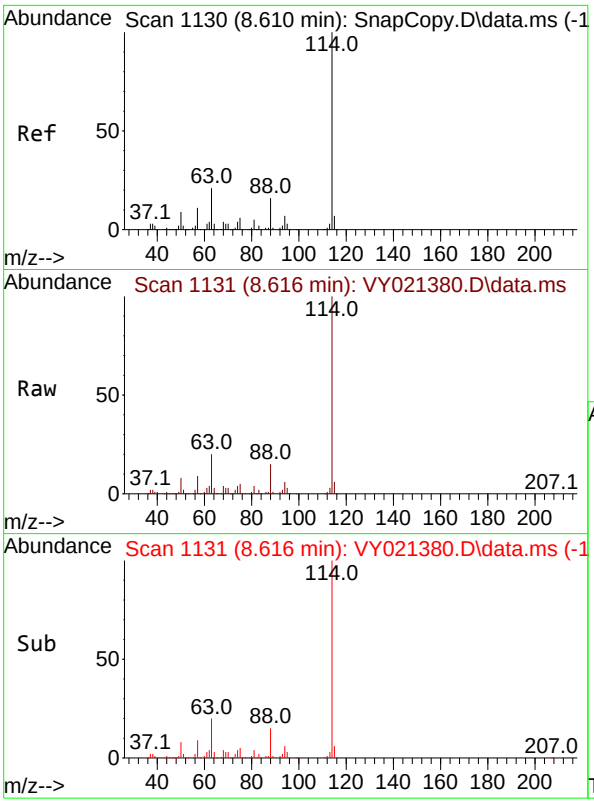


#33
1,2-Dichloroethane-d4
Concen: 48.449 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 65 Resp: 55863

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6



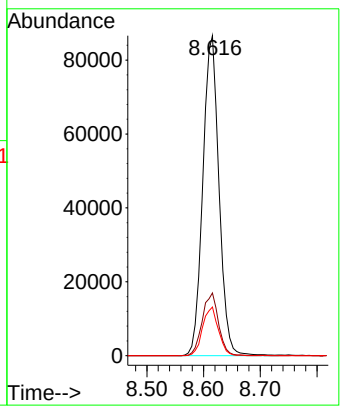


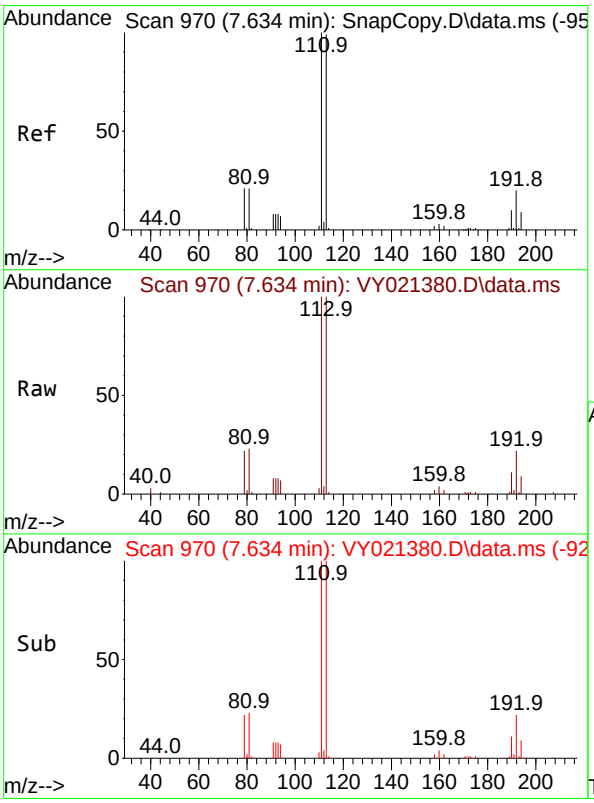
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:114 Resp: 171514

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.2
88	15.2	0.0	29.8

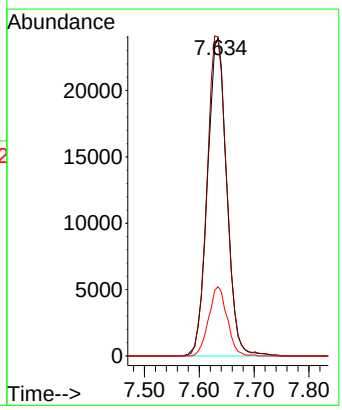


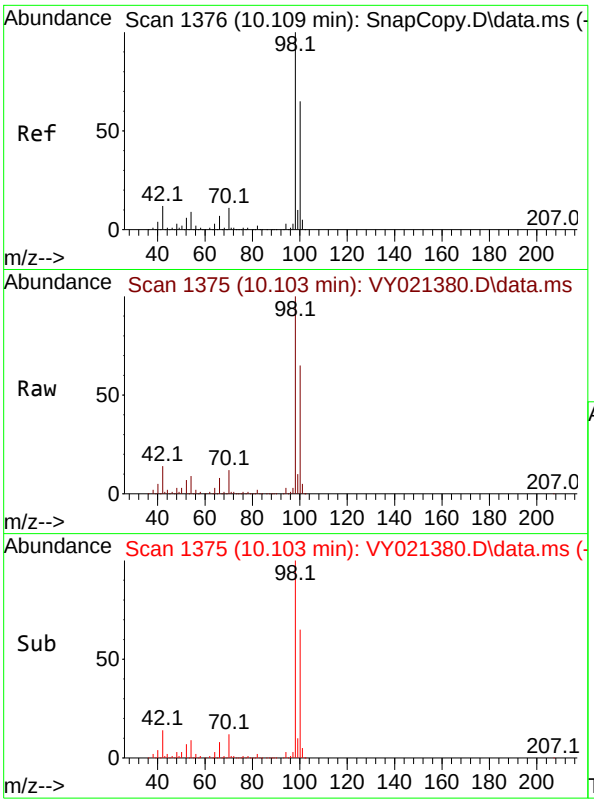


#35
Dibromofluoromethane
Concen: 51.873 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:113 Resp: 58329

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	20.9	15.8	23.8



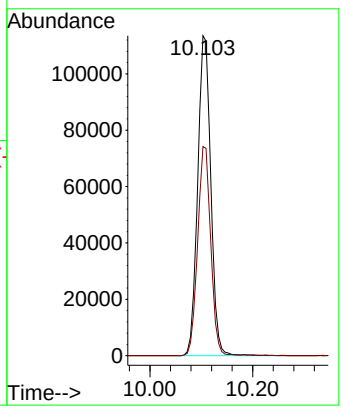


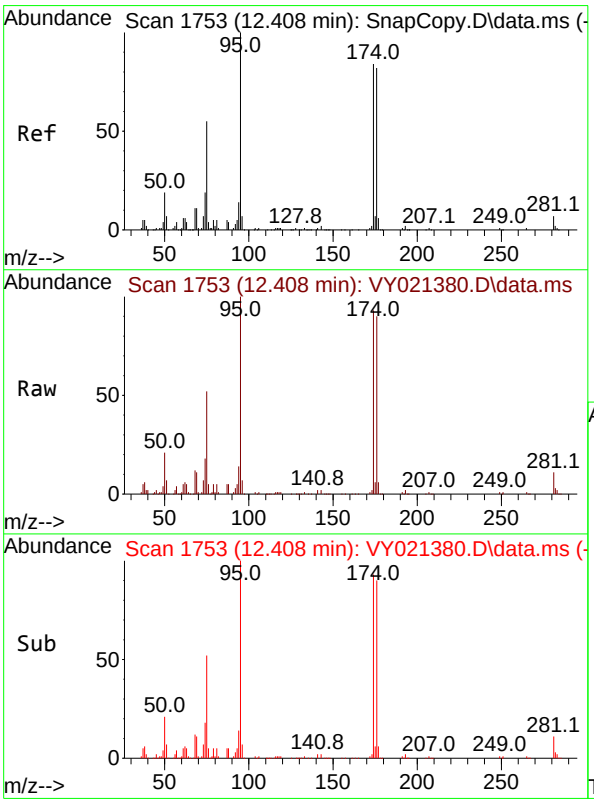
#50
Toluene-d8
Concen: 46.342 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion: 98 Resp: 201390

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

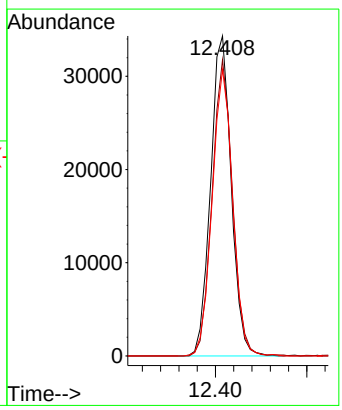


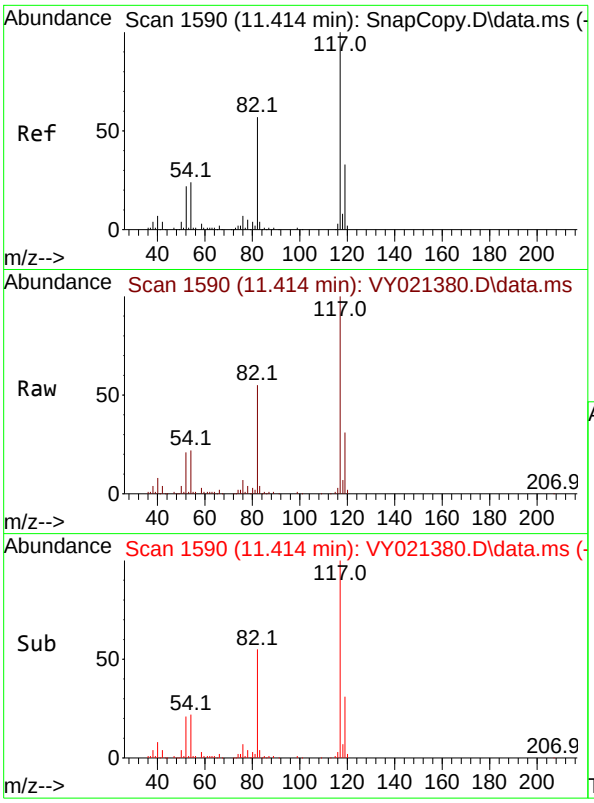


#62
4-Bromofluorobenzene
Concen: 36.791 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 95 Resp: 53808

Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	168.0
176	89.2	0.0	162.6



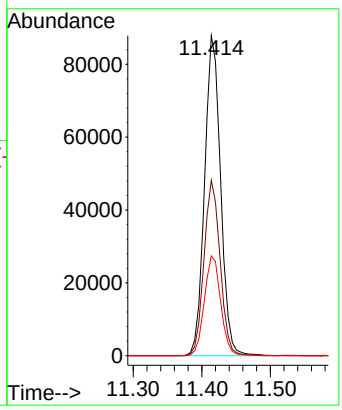


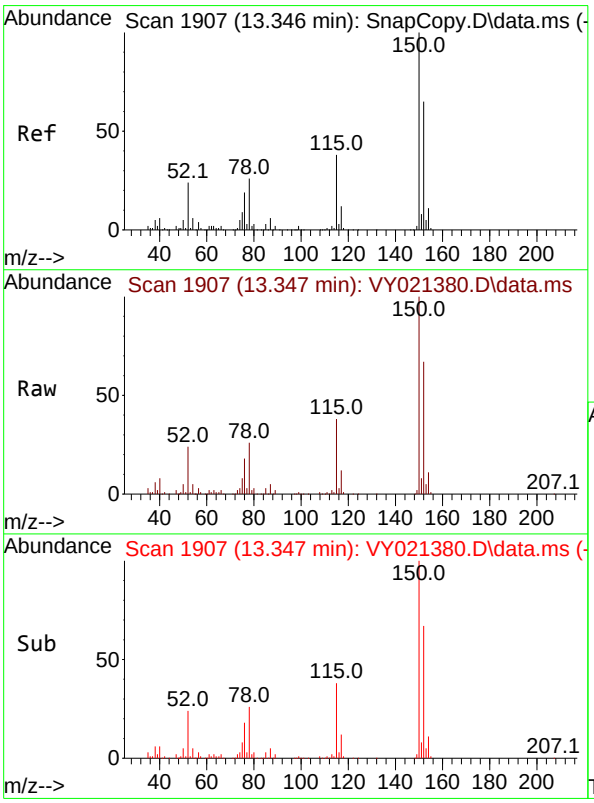
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:117 Resp: 143270

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.2	69.4
119	31.2	24.9	37.3

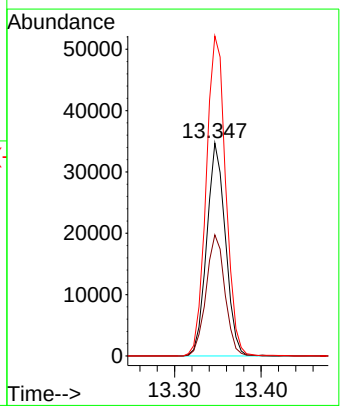




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:152 Resp: 51974

Ion	Ratio	Lower	Upper
152	100		
115	57.4	29.3	88.0
150	157.0	0.0	347.4



Raw Data: **VY021381.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	3.20	ug/Kg
74-87-3	Chloromethane	0.74	U	0.74	3.20	ug/Kg
75-01-4	Vinyl Chloride	0.49	U	0.49	3.20	ug/Kg
74-83-9	Bromomethane	0.66	U	0.66	3.20	ug/Kg
75-00-3	Chloroethane	0.65	U	0.65	3.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.58	U	0.58	3.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.69	U	0.69	3.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.50	U	0.50	3.20	ug/Kg
67-64-1	Acetone	4.00	U	4.00	16.0	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.43	U	0.43	3.20	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.20	ug/Kg
75-09-2	Methylene Chloride	2.20	U	2.20	6.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.54	U	0.54	3.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.40	U	0.40	3.20	ug/Kg
110-82-7	Cyclohexane	0.44	U	0.44	3.20	ug/Kg
78-93-3	2-Butanone	3.60	U	3.60	16.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.56	U	0.56	3.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.39	U	0.39	3.20	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	3.20	ug/Kg
67-66-3	Chloroform	0.43	U	0.43	3.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	3.20	ug/Kg
108-87-2	Methylcyclohexane	0.56	U	0.56	3.20	ug/Kg
71-43-2	Benzene	0.46	U	0.46	3.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.39	U	0.39	3.20	ug/Kg
79-01-6	Trichloroethene	0.48	U	0.48	3.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	0.42	3.20	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	0.36	3.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	16.0	ug/Kg
108-88-3	Toluene	0.43	U	0.43	3.20	ug/Kg

Raw Data: **VY021381.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.38	U	0.38	3.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.37	U	0.37	3.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.54	U	0.54	3.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	16.0	ug/Kg
124-48-1	Dibromochloromethane	0.42	U	0.42	3.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.51	U	0.51	3.20	ug/Kg
127-18-4	Tetrachloroethene	0.57	U	0.57	3.20	ug/Kg
108-90-7	Chlorobenzene	0.47	U	0.47	3.20	ug/Kg
100-41-4	Ethyl Benzene	0.40	U	0.40	3.20	ug/Kg
179601-23-1	m/p-Xylenes	0.86	U	0.86	6.40	ug/Kg
95-47-6	o-Xylene	0.45	U	0.45	3.20	ug/Kg
100-42-5	Styrene	0.38	U	0.38	3.20	ug/Kg
75-25-2	Bromoform	0.52	U	0.52	3.20	ug/Kg
98-82-8	Isopropylbenzene	0.43	U	0.43	3.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.70	U	0.70	3.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.47	U	0.47	3.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.51	U	0.51	3.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.38	U	0.38	3.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	1.00	3.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.51	U	0.51	3.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	3.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (63) - 130 (155)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		70 (70) - 130 (134)	108%	SPK: 50
2037-26-5	Toluene-d8	47.4		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (38) - 130 (136)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	7.707			
540-36-3	1,4-Difluorobenzene	246000	8.615			
3114-55-4	Chlorobenzene-d5	217000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	82200	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021381.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
055429-85-1	Benzeneethanamine, N-[(pentafluoro	4.20	J		13.9	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\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 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

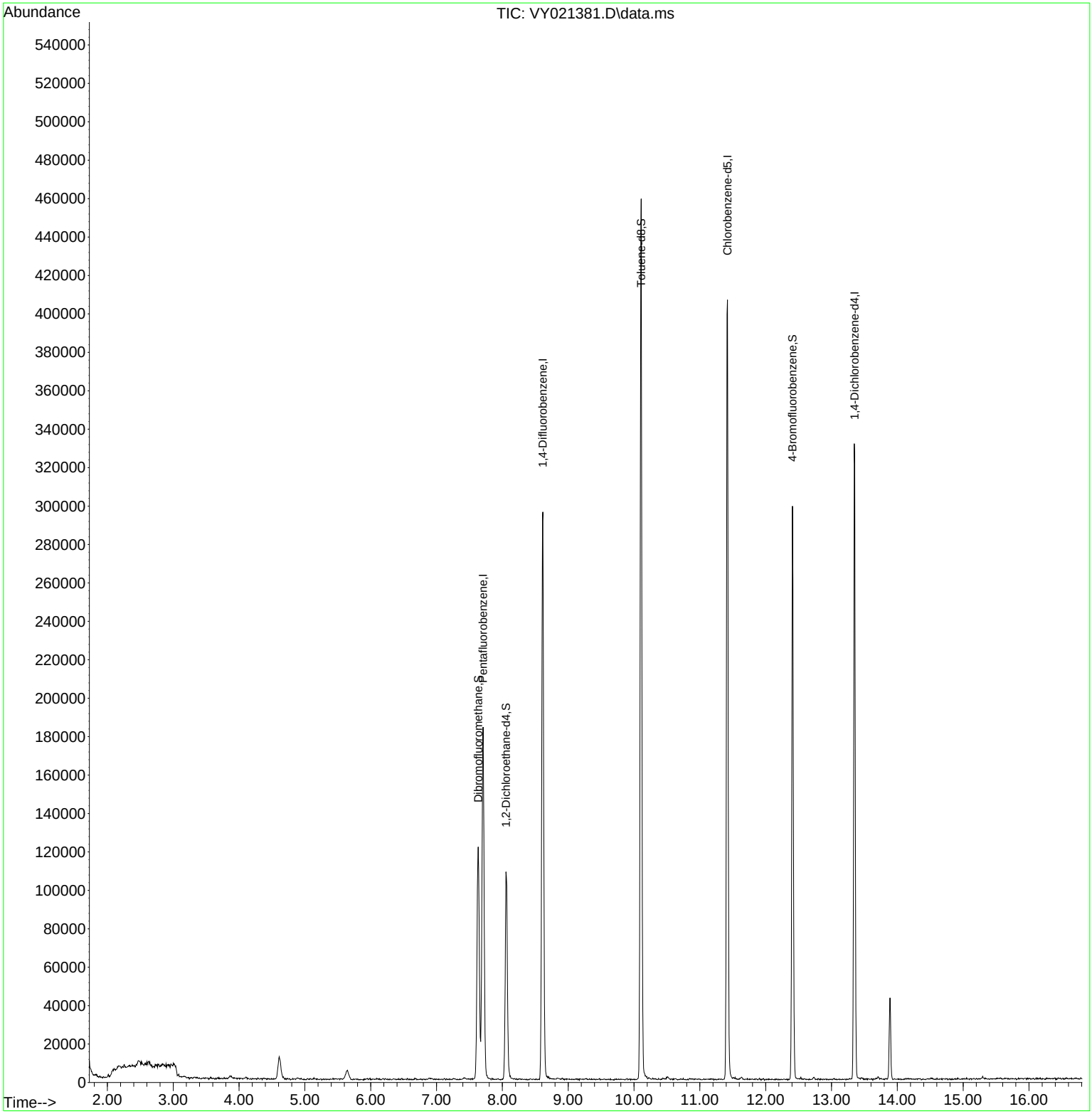
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	137587	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	246433	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	216935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	82177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	87320	55.946	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.900%			
35) Dibromofluoromethane	7.634	113	87068	53.891	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.780%			
50) Toluene-d8	10.109	98	296249	47.445	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.900%			
62) 4-Bromofluorobenzene	12.407	95	86661	41.240	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.480%			
Target Compounds						Qvalue

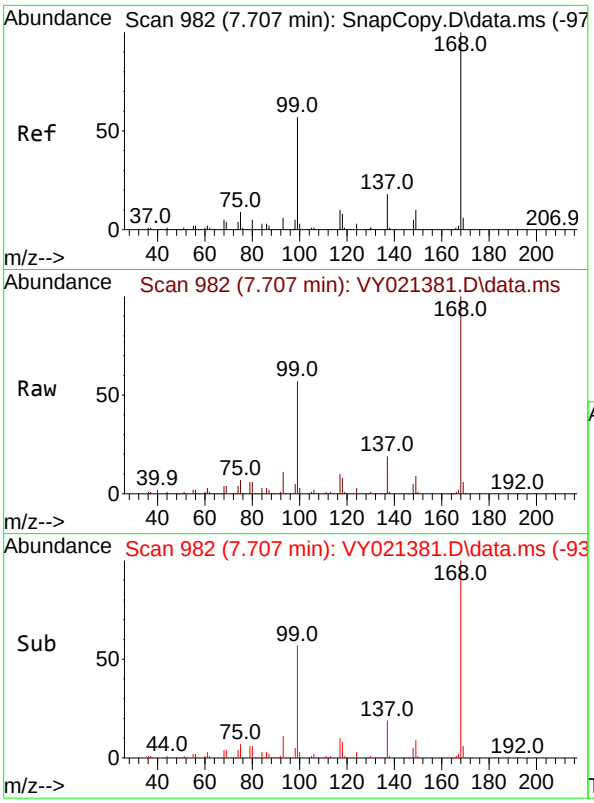
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 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



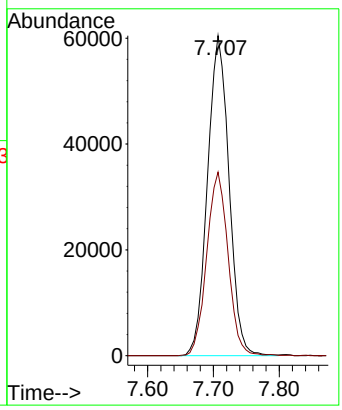


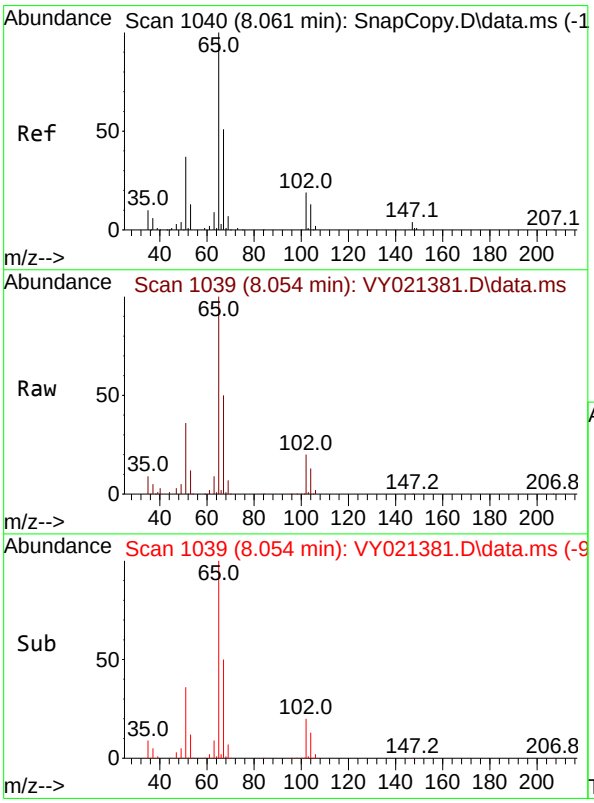
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:168 Resp: 137587

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

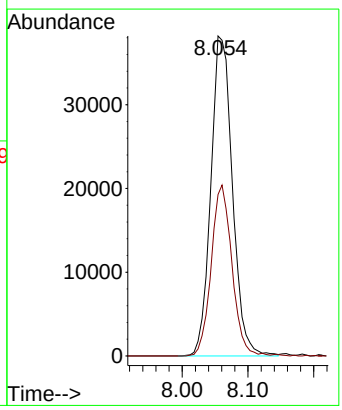


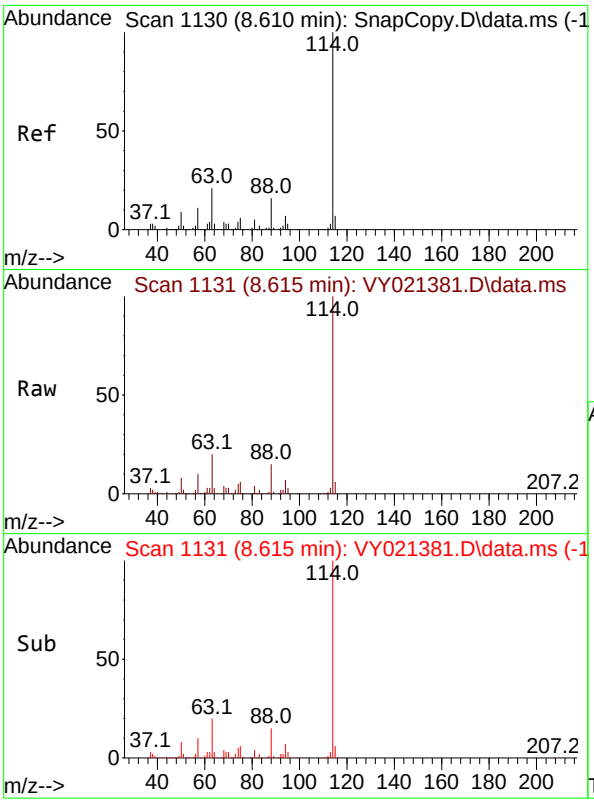


#33
1,2-Dichloroethane-d4
Concen: 55.946 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 65 Resp: 87320

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.6



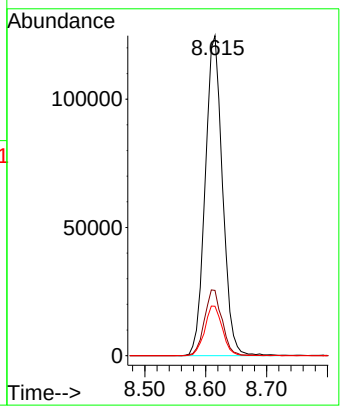


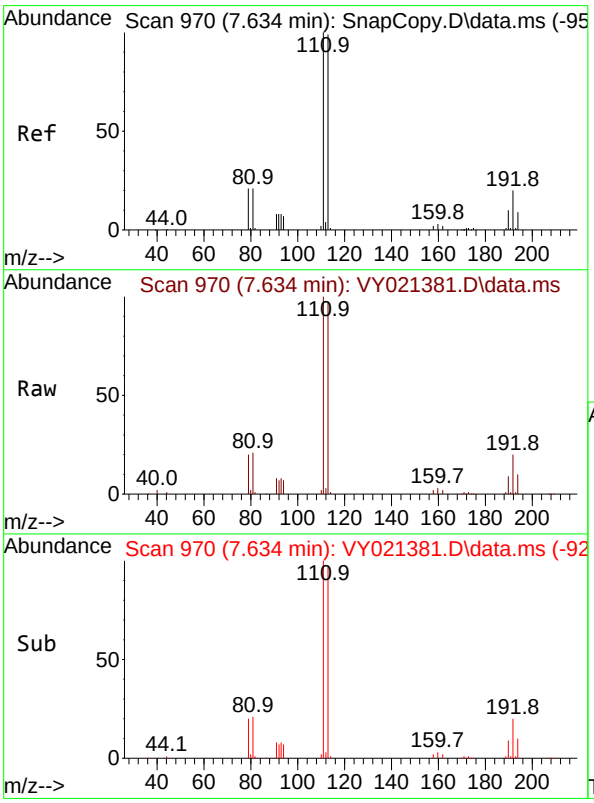
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:114 Resp: 246433

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	15.4	0.0	29.8

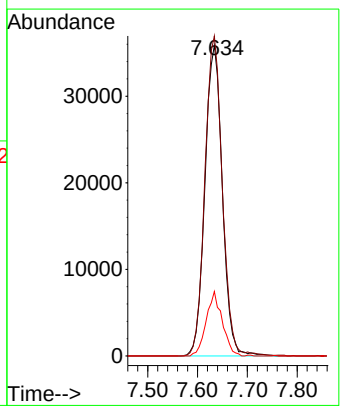


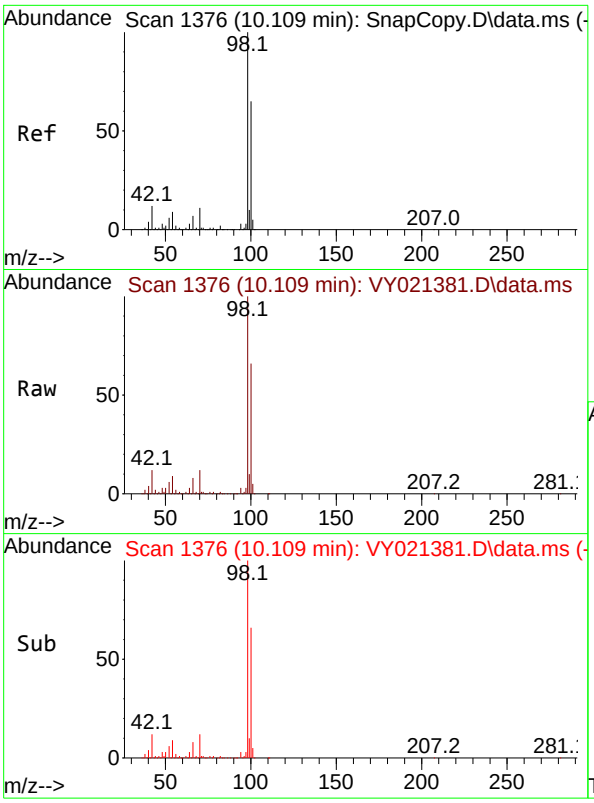


#35
Dibromofluoromethane
Concen: 53.891 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:113 Resp: 87068

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.6
192	19.1	15.8	23.8



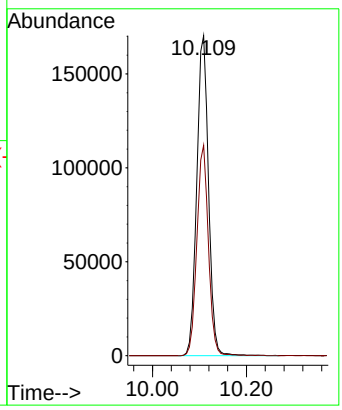


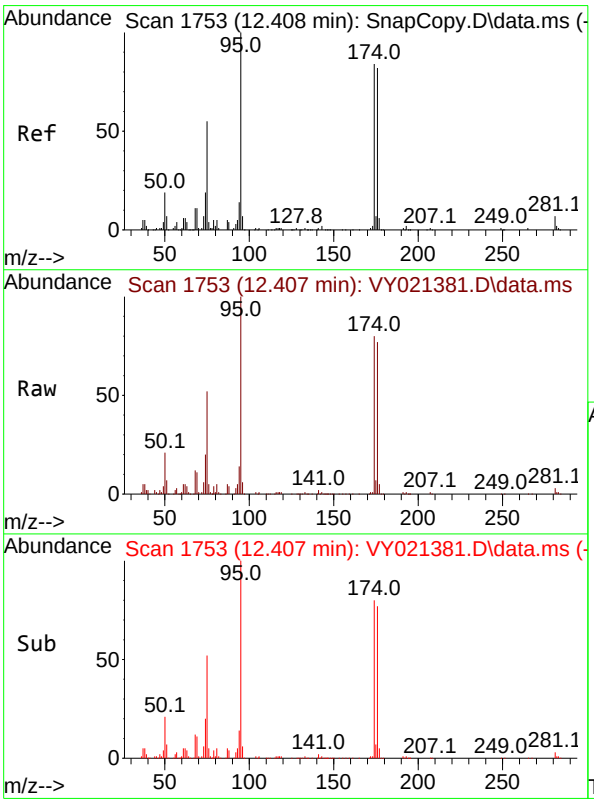
#50
Toluene-d8
Concen: 47.445 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion: 98 Resp: 296249

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.4	78.6

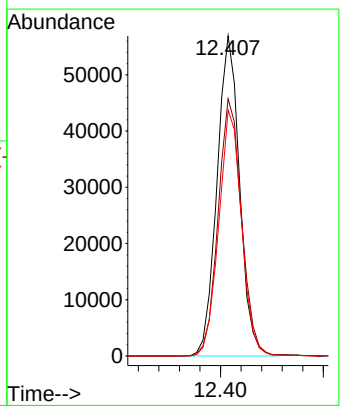


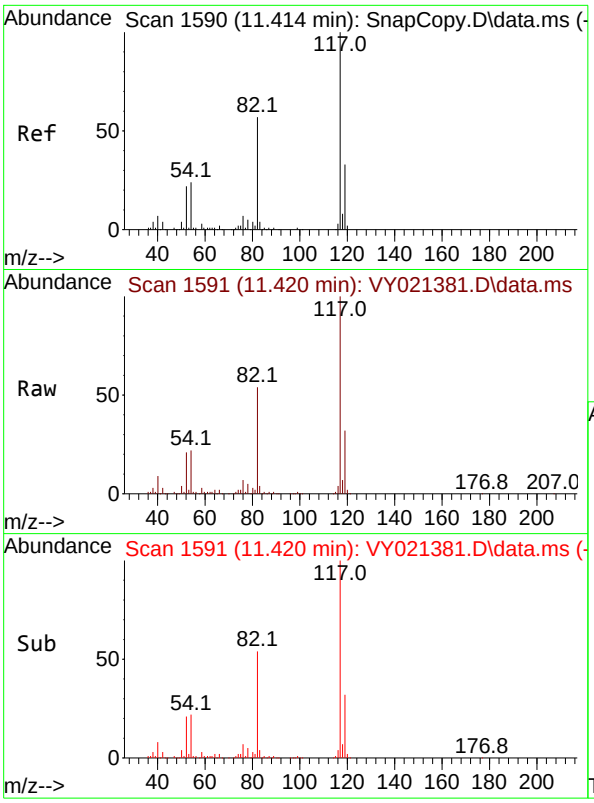


#62
4-Bromofluorobenzene
Concen: 41.240 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 95 Resp: 86661

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	168.0
176	77.6	0.0	162.6



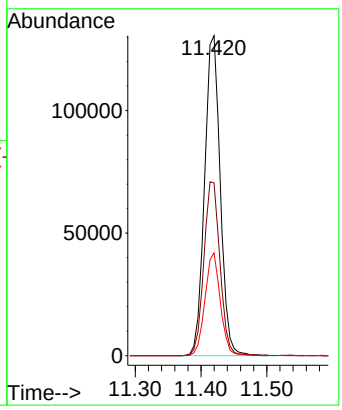


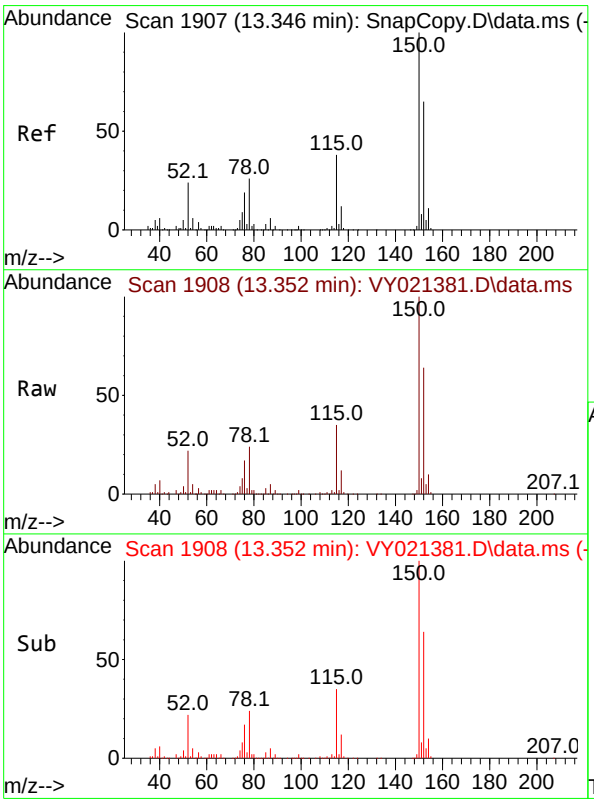
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:117 Resp: 216935

Ion	Ratio	Lower	Upper
117	100		
82	54.0	46.2	69.4
119	32.2	24.9	37.3

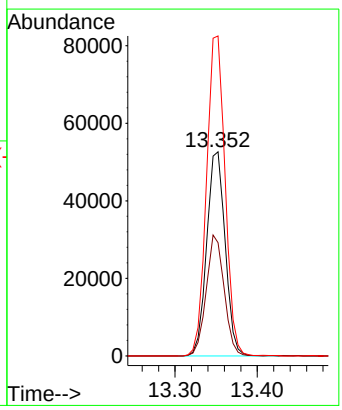




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:152 Resp: 82177

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.3	88.0
150	157.2	0.0	347.4



Sample Results: **VY021381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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: VY021381.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	465	474	483	rBV3	11650	35266	4.38%	0.847%
2	5.646	632	644	654	rVB6	4938	17162	2.13%	0.412%
3	7.634	958	970	976	rBV	120861	296244	36.79%	7.118%
4	7.707	976	982	994	rVB	182741	413606	51.36%	9.938%
5	8.054	1031	1039	1053	rBV	108052	247094	30.68%	5.937%
6	8.615	1122	1131	1142	rBV	295481	594714	73.85%	14.290%
7	10.109	1364	1376	1389	rBV	458408	805288	100.00%	19.350%
8	11.420	1583	1591	1604	rBV	405639	686233	85.22%	16.489%
9	12.407	1744	1753	1762	rBV	298576	479579	59.55%	11.523%
10	13.346	1900	1907	1916	rBV	330689	518132	64.34%	12.450%
11	13.889	1989	1996	2003	rVB2	42557	68454	8.50%	1.645%

Sum of corrected areas: 4161772

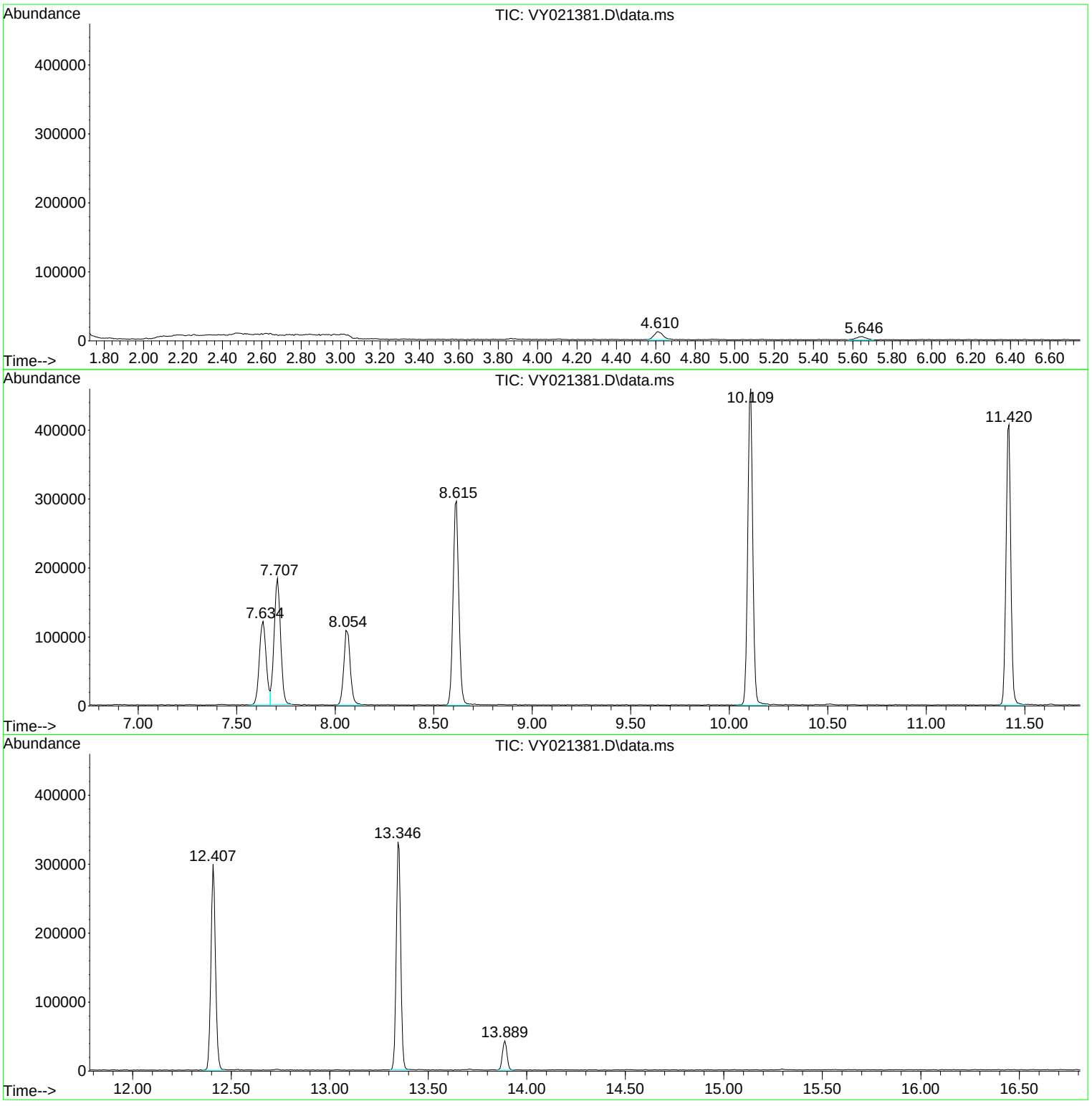
Sample Results: **VY021381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

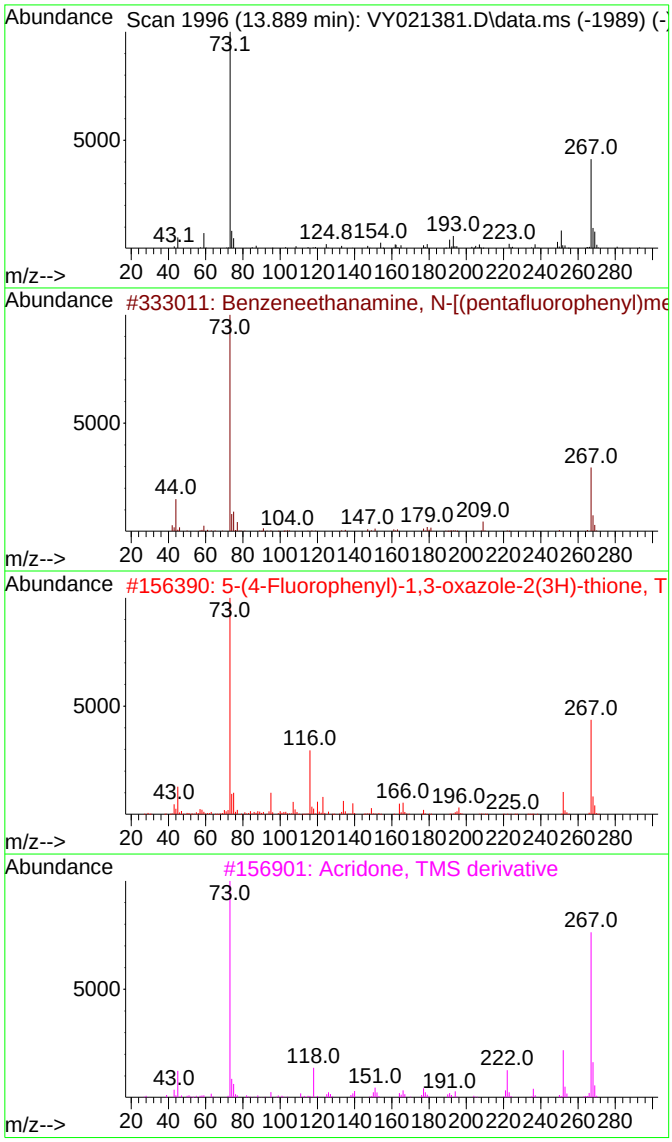
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

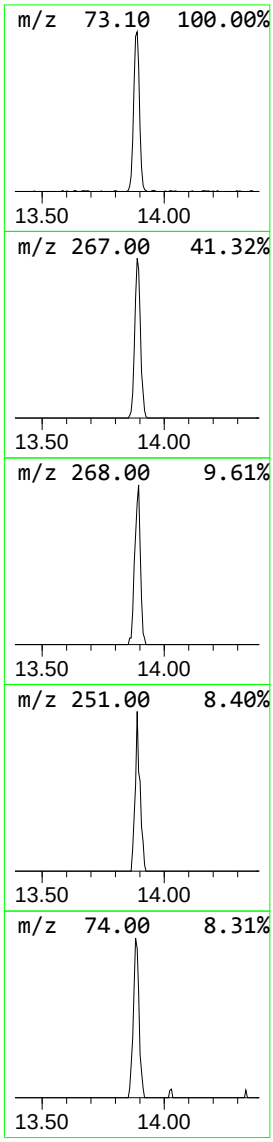
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzeneethanamine, N-[(pent... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	6.61 ug/l	68454	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	64
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	64
3	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	59
4	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	50
5	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzeneethanami...	13.889	6.6	ug/l	68454	4	13.352	518132	50.0

CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

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	$\overline{RRF}$	% 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.

Raw Data

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

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	$\overline{RRF}$	% 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.

Response Factor Report GCVOA_Y

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

Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

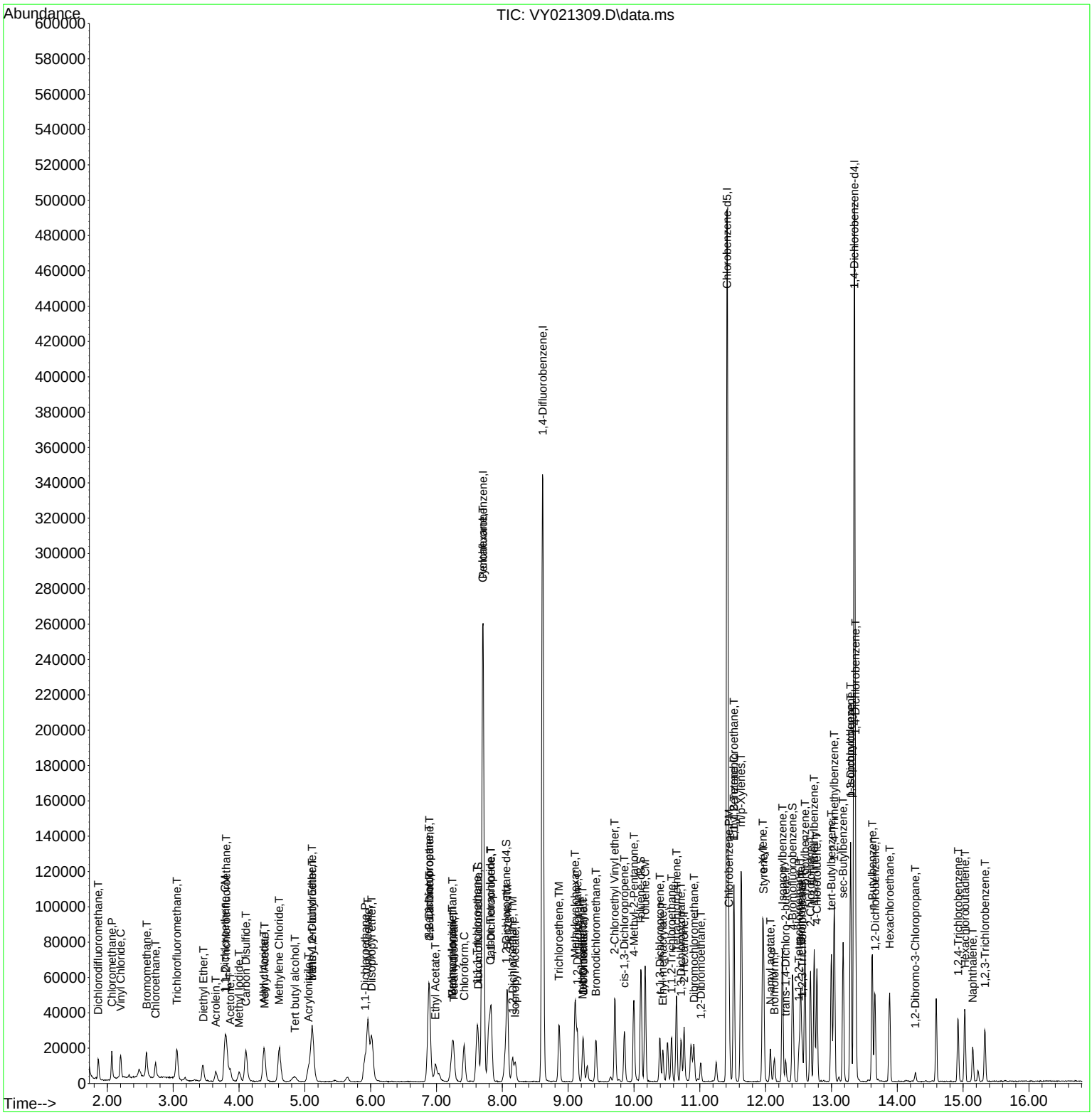
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021309.D
Acq On : 25 Feb 2025 12:40
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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)
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

ICAL Form

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

ICAL Form

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

ICAL Form

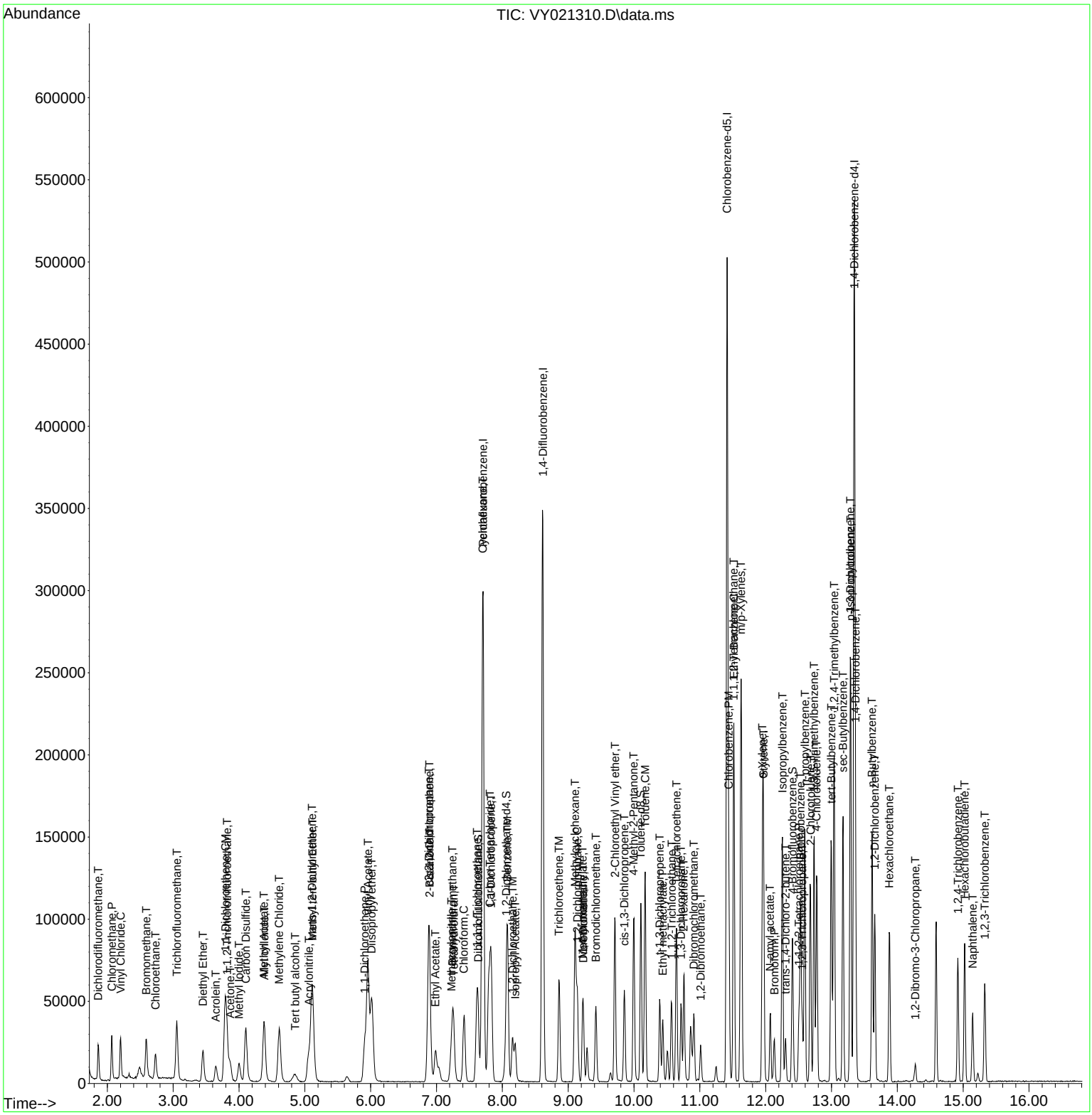
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021310.D
Acq On : 25 Feb 2025 13:03
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

ICAL Form

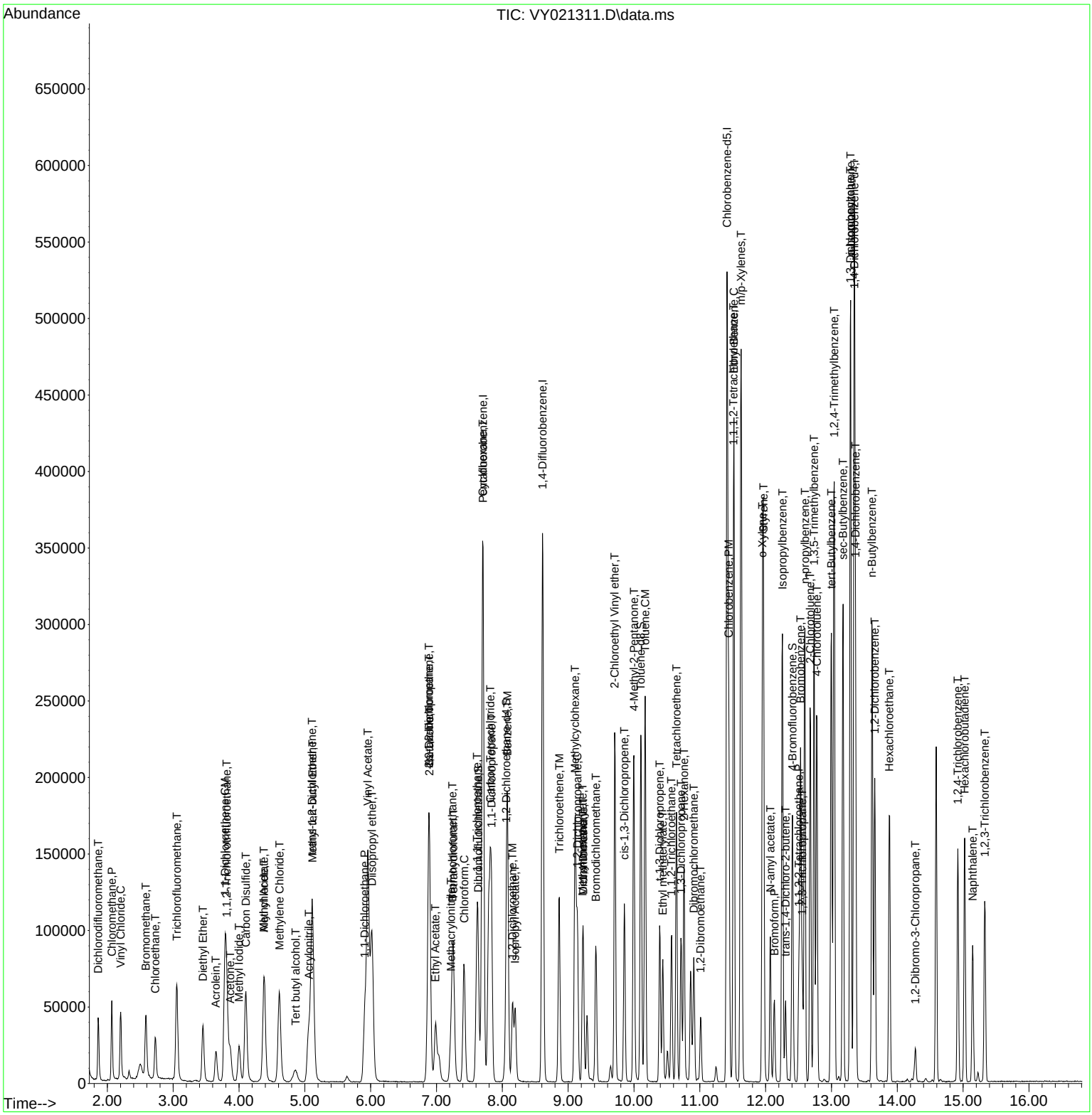
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021311.D
Acq On : 25 Feb 2025 13:26
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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	
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

ICAL Form

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

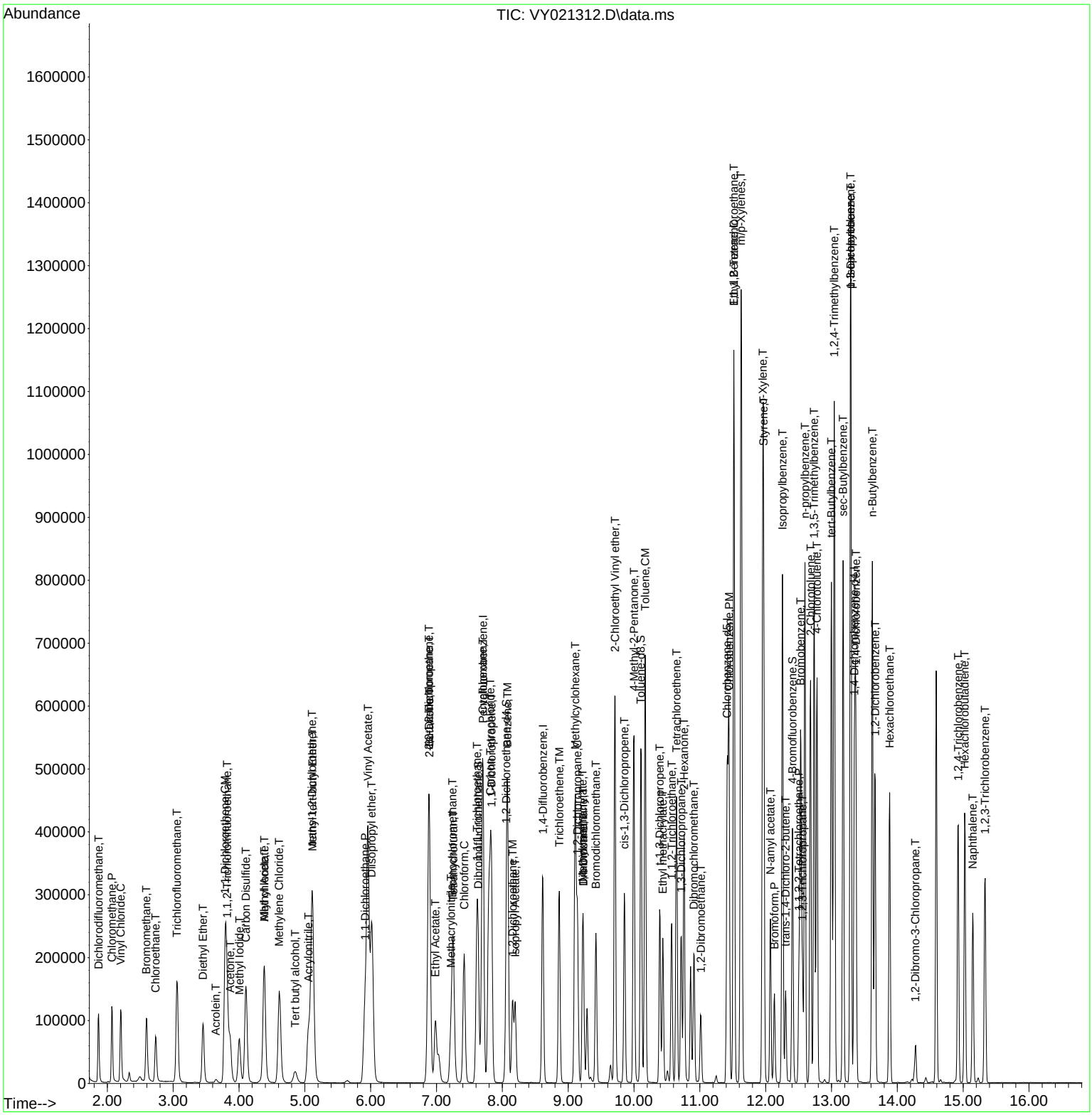
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021312.D
Acq On : 25 Feb 2025 14:48
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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

ICAL Form

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

ICAL Form

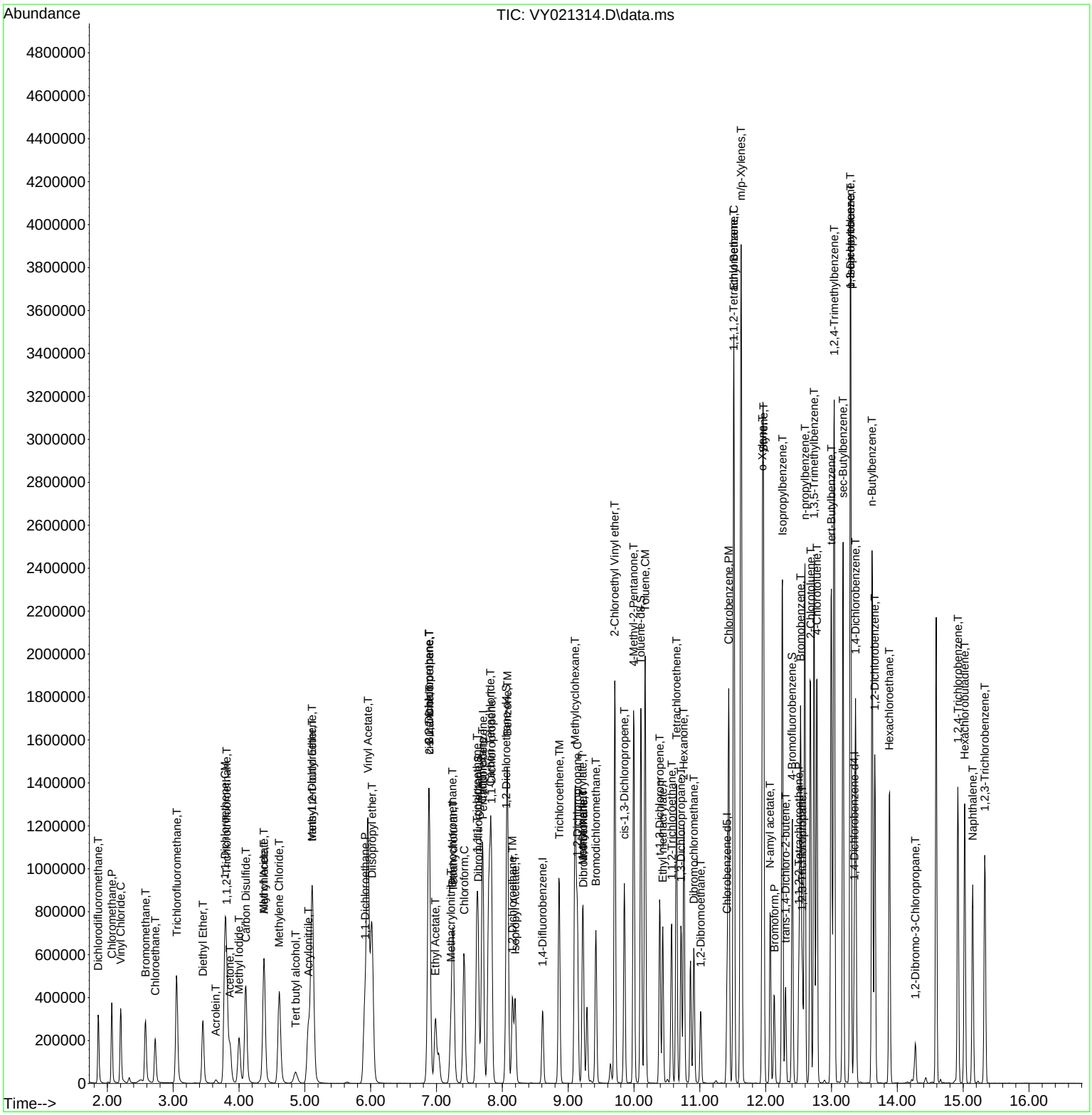
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021314.D
Acq On : 25 Feb 2025 15:57
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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)
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

ICAL Form

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

ICAL Form

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

ICAL Form

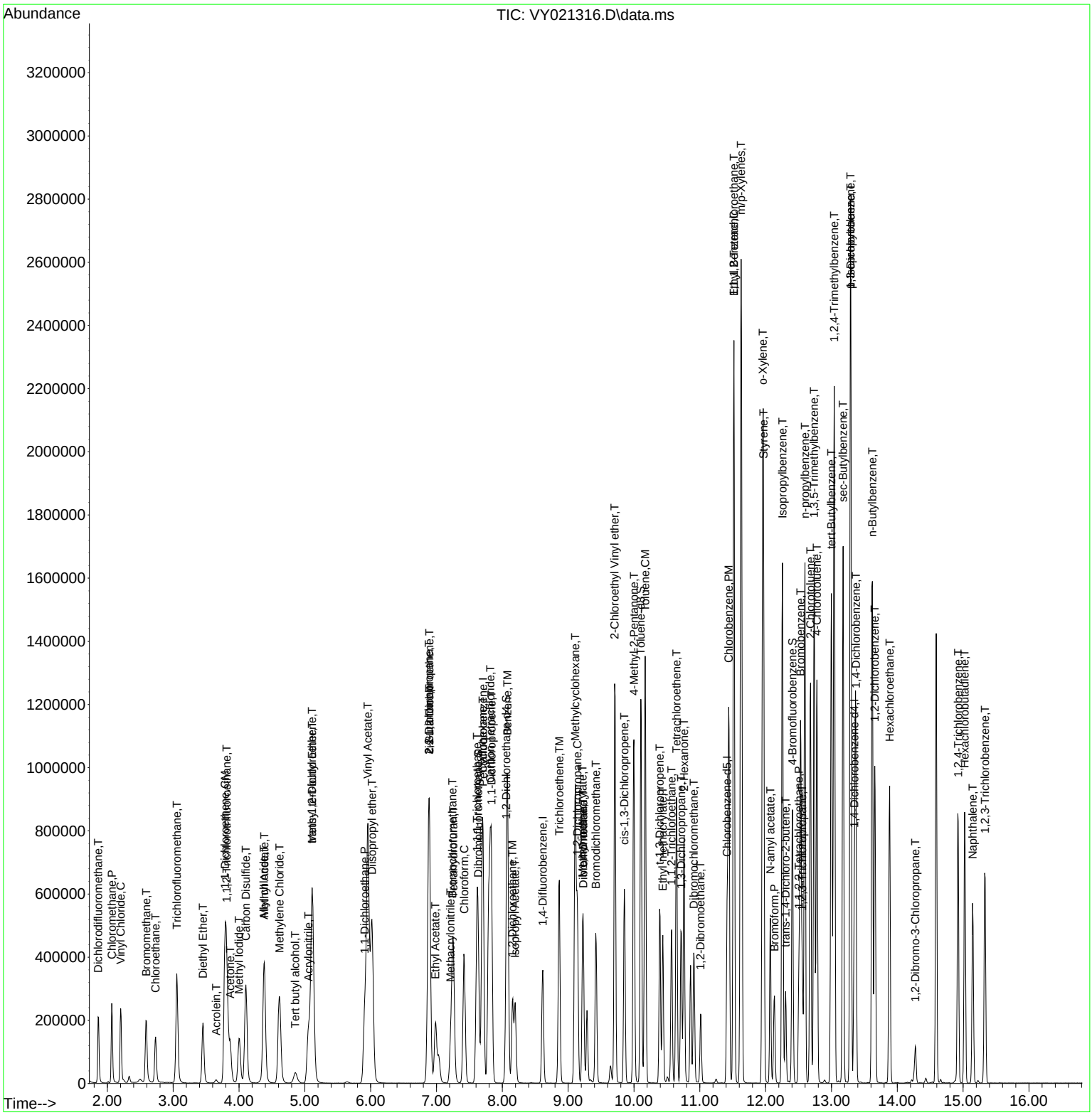
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021316.D
Acq On : 25 Feb 2025 16:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

ICAL Form

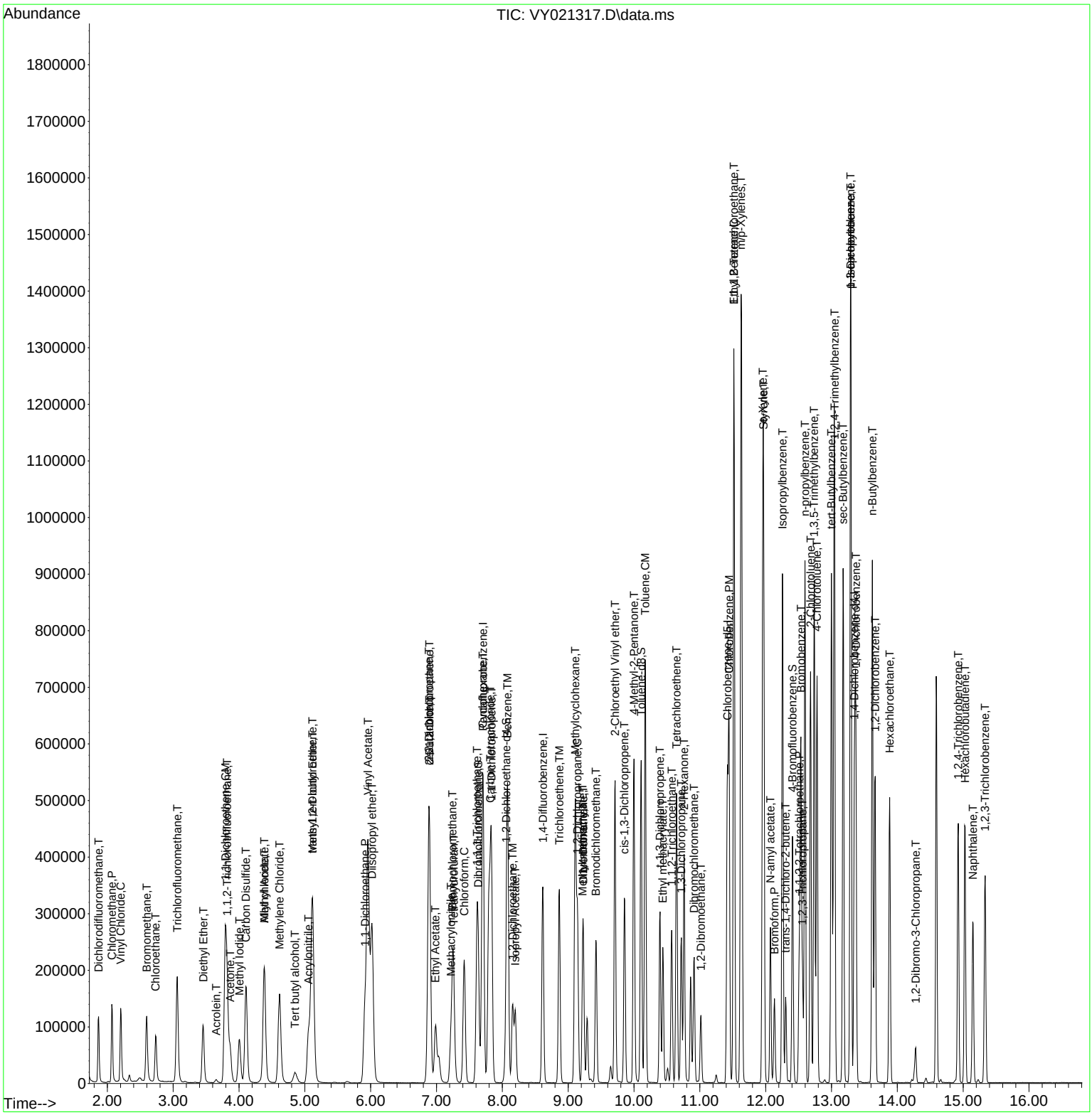
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021317.D
Acq On : 25 Feb 2025 17:31
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY022525

Manual Integrations APPROVED

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



Evaluate Continuing Calibration Report

ICAL Form

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

ICAL Form

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)
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

ICAL Form

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

Evaluate Continuing Calibration Report

ICAL Form

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)
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

ICAL Form

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)
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

ICAL Form

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

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

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.

Raw Data: **VY021346.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

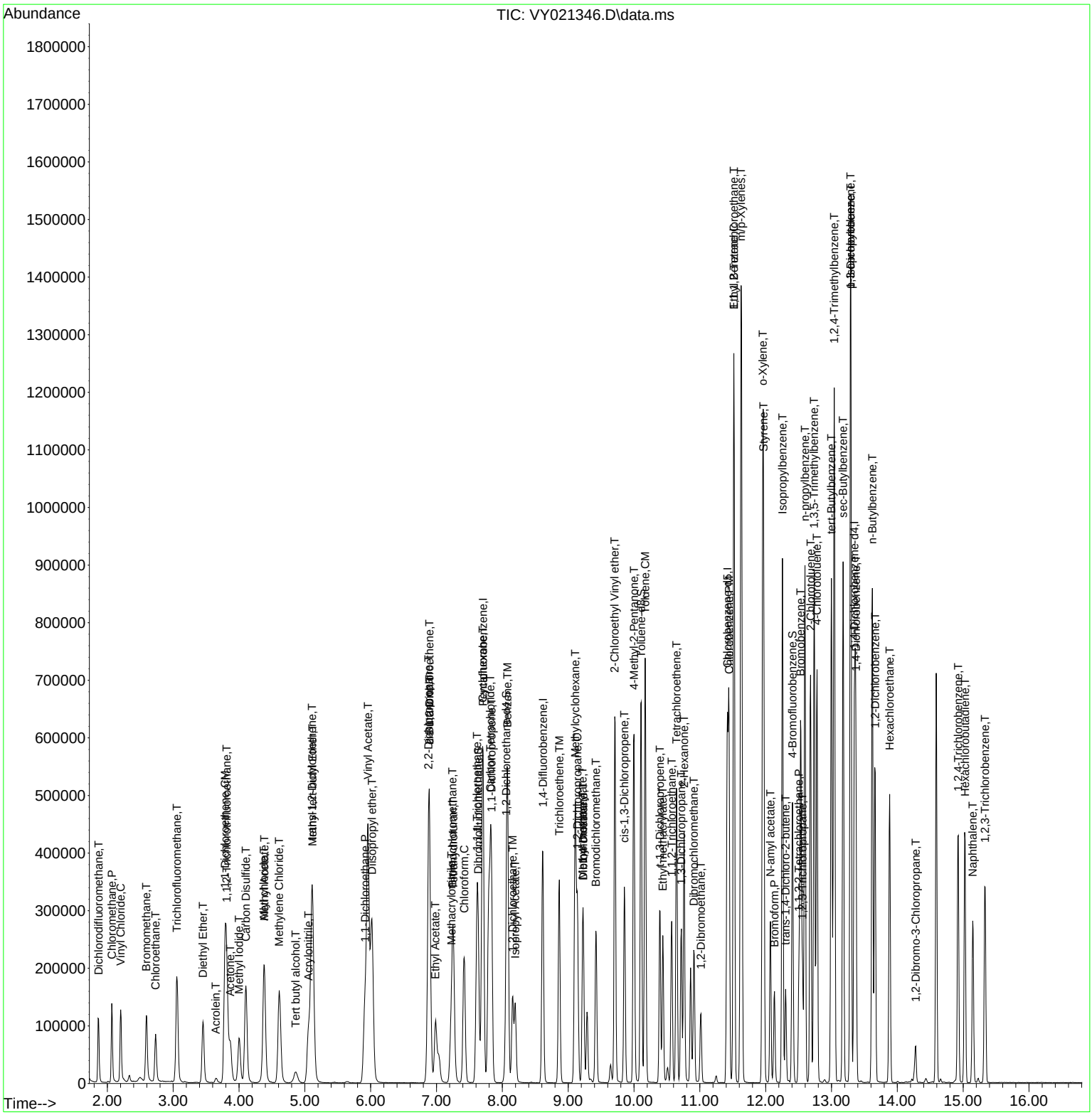
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021346.D
Acq On : 27 Feb 2025 10:13
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



Sample Results: **VY021346.D**

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

Sample Results: **VY021346.D**

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

Sample Results: **VY021346.D**

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

Sample Results: **VY021346.D**

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

Sample Results: **VY021346.D**

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

Sample Results: **VY021346.D**

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

Raw Data: **VY021375.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.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	0.440		-7.17	20
Chloromethane	0.612	0.566	0.1	-7.52	20
Vinyl Chloride	0.601	0.616		2.5	20
Bromomethane	0.399	0.411		3.01	20
Chloroethane	0.373	0.400		7.24	20
Trichlorofluoromethane	0.908	0.936		3.08	20
1,1,2-Trichlorotrifluoroethane	0.525	0.511		-2.67	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.132		21.1	20
Carbon Disulfide	1.671	1.585		-5.15	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.247		-7.14	20
Methylene Chloride	0.588	0.547		-6.97	20
trans-1,2-Dichloroethene	0.554	0.549		-0.9	20
1,1-Dichloroethane	1.040	1.009	0.1	-2.98	20
Cyclohexane	1.000	0.868		-13.2	20
2-Butanone	0.164	0.166		1.22	20
Carbon Tetrachloride	0.554	0.578		4.33	20
cis-1,2-Dichloroethene	0.632	0.635		0.47	20
Bromochloromethane	0.460	0.462		0.44	20
Chloroform	1.054	1.043		-1.04	20
1,1,1-Trichloroethane	0.960	0.951		-0.94	20
Methylcyclohexane	0.623	0.607		-2.57	20
Benzene	1.456	1.487		2.13	20
1,2-Dichloroethane	0.413	0.436		5.57	20
Trichloroethene	0.364	0.375		3.02	20
1,2-Dichloropropane	0.350	0.356		1.71	20
Bromodichloromethane	0.511	0.537		5.09	20
4-Methyl-2-Pentanone	0.243	0.242		-0.41	20
Toluene	0.904	0.955		5.64	20
t-1,3-Dichloropropene	0.468	0.488		4.27	20
cis-1,3-Dichloropropene	0.552	0.565		2.36	20
1,1,2-Trichloroethane	0.249	0.254		2.01	20
2-Hexanone	0.159	0.168		5.66	20
Dibromochloromethane	0.340	0.362		6.47	20
1,2-Dibromoethane	0.236	0.241		2.12	20
Tetrachloroethene	0.378	0.394		4.23	20
Chlorobenzene	1.122	1.154	0.3	2.85	20

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

Raw Data: **VY021375.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.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	2.041		2.67	20
m/p-Xylenes	0.748	0.775		3.61	20
o-Xylene	0.701	0.722		3	20
Styrene	1.166	1.235		5.92	20
Bromoform	0.225	0.232	0.1	3.11	20
Isopropylbenzene	3.759	3.861		2.71	20
1,1,2,2-Tetrachloroethane	0.663	0.654	0.3	-1.36	20
1,3-Dichlorobenzene	1.730	1.775		2.6	20
1,4-Dichlorobenzene	1.709	1.709		0	20
1,2-Dichlorobenzene	1.515	1.525		0.66	20
1,2-Dibromo-3-Chloropropane	0.105	0.101		-3.81	20
1,2,4-Trichlorobenzene	0.925	0.898		-2.92	20
1,2,3-Trichlorobenzene	0.781	0.738		-5.51	20
1,2-Dichloroethane-d4	0.567	0.567		0	20
Dibromofluoromethane	0.328	0.351		7.01	20
Toluene-d8	1.267	1.327		4.74	20
4-Bromofluorobenzene	0.426	0.441		3.52	20

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

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 22:17:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	170466	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	255493	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	227302	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	113605	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96586	49.947	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.900%			
35) Dibromofluoromethane	7.634	113	89708	53.556	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.120%			
50) Toluene-d8	10.109	98	339126	52.386	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.780%			
62) 4-Bromofluorobenzene	12.408	95	112745	51.750	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	75054	46.438	ug/l	96
3) Chloromethane	2.074	50	96481	46.223	ug/l	98
4) Vinyl Chloride	2.208	62	105085	51.293	ug/l	97
5) Bromomethane	2.598	94	70059	51.460	ug/l	98
6) Chloroethane	2.739	64	68130	53.626	ug/l	98
7) Trichlorofluoromethane	3.062	101	159574	51.575	ug/l	98
8) Diethyl Ether	3.458	74	45896	49.423	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	87137	48.644	ug/l	99
10) Methyl Iodide	4.007	142	102242	54.252	ug/l	100
11) Tert butyl alcohol	4.860	59	28013	188.331	ug/l	99
12) 1,1-Dichloroethene	3.793	96	82975	48.376	ug/l	96
13) Acrolein	3.647	56	5316	46.638	ug/l	96
14) Allyl chloride	4.391	41	138693	45.608	ug/l	95
15) Acrylonitrile	5.061	53	96955	236.139	ug/l	99
16) Acetone	3.867	43	112372	302.934	ug/l	100
17) Carbon Disulfide	4.110	76	270242	47.448	ug/l	99
18) Methyl Acetate	4.385	43	42108	46.449	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	222369	49.070	ug/l	98
20) Methylene Chloride	4.622	84	93282	46.504	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	93555	49.547	ug/l	93
22) Diisopropyl ether	6.019	45	301755	47.952	ug/l	99
23) Vinyl Acetate	5.964	43	896702	238.456	ug/l	100
24) 1,1-Dichloroethane	5.915	63	171936	48.476	ug/l	99
25) 2-Butanone	6.896	43	141900	253.463	ug/l	94
26) 2,2-Dichloropropane	6.890	77	157120	48.821	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	108215	50.189	ug/l	98
28) Bromochloromethane	7.244	49	78777	50.196	ug/l	97
29) Tetrahydrofuran	7.262	42	83194	227.342	ug/l	97
30) Chloroform	7.421	83	177778	49.466	ug/l	100
31) Cyclohexane	7.707	56	147922	43.387	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	162031	49.532	ug/l	99
36) 1,1-Dichloropropene	7.835	75	127843	50.810	ug/l	99
37) Ethyl Acetate	6.982	43	59548	47.578	ug/l	100
38) Carbon Tetrachloride	7.817	117	147719	52.223	ug/l	99
39) Methylcyclohexane	9.109	83	155039	48.718	ug/l	99
40) Benzene	8.079	78	379868	51.073	ug/l	100

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 22:17:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	34886	49.854	ug/l		97
42) 1,2-Dichloroethane	8.158	62	111336	52.760	ug/l		100
43) Isopropyl Acetate	8.201	43	117081	48.330	ug/l	#	86
44) Trichloroethene	8.866	130	95880	51.489	ug/l		99
45) 1,2-Dichloropropane	9.146	63	90953	50.814	ug/l		99
46) Dibromomethane	9.231	93	50657	51.775	ug/l		98
47) Bromodichloromethane	9.426	83	137097	52.552	ug/l		97
48) Methyl methacrylate	9.225	41	55255	48.776	ug/l		94
49) 1,4-Dioxane	9.231	88	10744	987.591	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	309430	249.526	ug/l		100
52) Toluene	10.170	92	243944	52.795	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	124583	52.124	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	144293	51.138	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	64837	50.869	ug/l		97
56) Ethyl methacrylate	10.445	69	91017	51.680	ug/l		99
57) 1,3-Dichloropropane	10.719	76	115030	51.430	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	218026	257.917	ug/l		98
59) 2-Hexanone	10.762	43	214799	263.746	ug/l		99
60) Dibromochloromethane	10.914	129	92375	53.214	ug/l		100
61) 1,2-Dibromoethane	11.018	107	61490	50.958	ug/l		98
64) Tetrachloroethene	10.646	164	89648	52.180	ug/l		95
65) Chlorobenzene	11.444	112	262227	51.394	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	93678	52.434	ug/l		99
67) Ethyl Benzene	11.524	91	463868	51.326	ug/l		100
68) m/p-Xylenes	11.633	106	352476	103.688	ug/l		100
69) o-Xylene	11.957	106	164095	51.528	ug/l		99
70) Styrene	11.975	104	280622	52.962	ug/l		99
71) Bromoform	12.133	173	52761	51.622	ug/l	#	98
73) Isopropylbenzene	12.255	105	438599	51.354	ug/l		99
74) N-amyl acetate	12.072	43	105812	48.742	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	74349	49.325	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	48460m	42.616	ug/l		
77) Bromobenzene	12.536	156	103195	51.947	ug/l		95
78) n-propylbenzene	12.597	91	526975	50.847	ug/l		99
79) 2-Chlorotoluene	12.682	91	298498	50.185	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	357472	51.032	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	24043	46.995	ug/l		93
82) 4-Chlorotoluene	12.780	91	306178	49.658	ug/l		99
83) tert-Butylbenzene	12.999	119	314049	49.632	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	354550	50.892	ug/l		99
85) sec-Butylbenzene	13.176	105	460459	49.819	ug/l		100
86) p-Isopropyltoluene	13.292	119	389522	50.472	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	201633	51.311	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	194197	50.025	ug/l		100
89) n-Butylbenzene	13.621	91	364238	50.152	ug/l		99
90) Hexachloroethane	13.883	117	78439	48.657	ug/l		98
91) 1,2-Dichlorobenzene	13.664	146	173292	50.334	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	11525	48.334	ug/l		95
93) 1,2,4-Trichlorobenzene	14.926	180	101991	48.537	ug/l		99
94) Hexachlorobutadiene	15.029	225	65020	49.149	ug/l		99
95) Naphthalene	15.151	128	168433	48.393	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	83821	47.212	ug/l		99

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 22:17:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

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

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

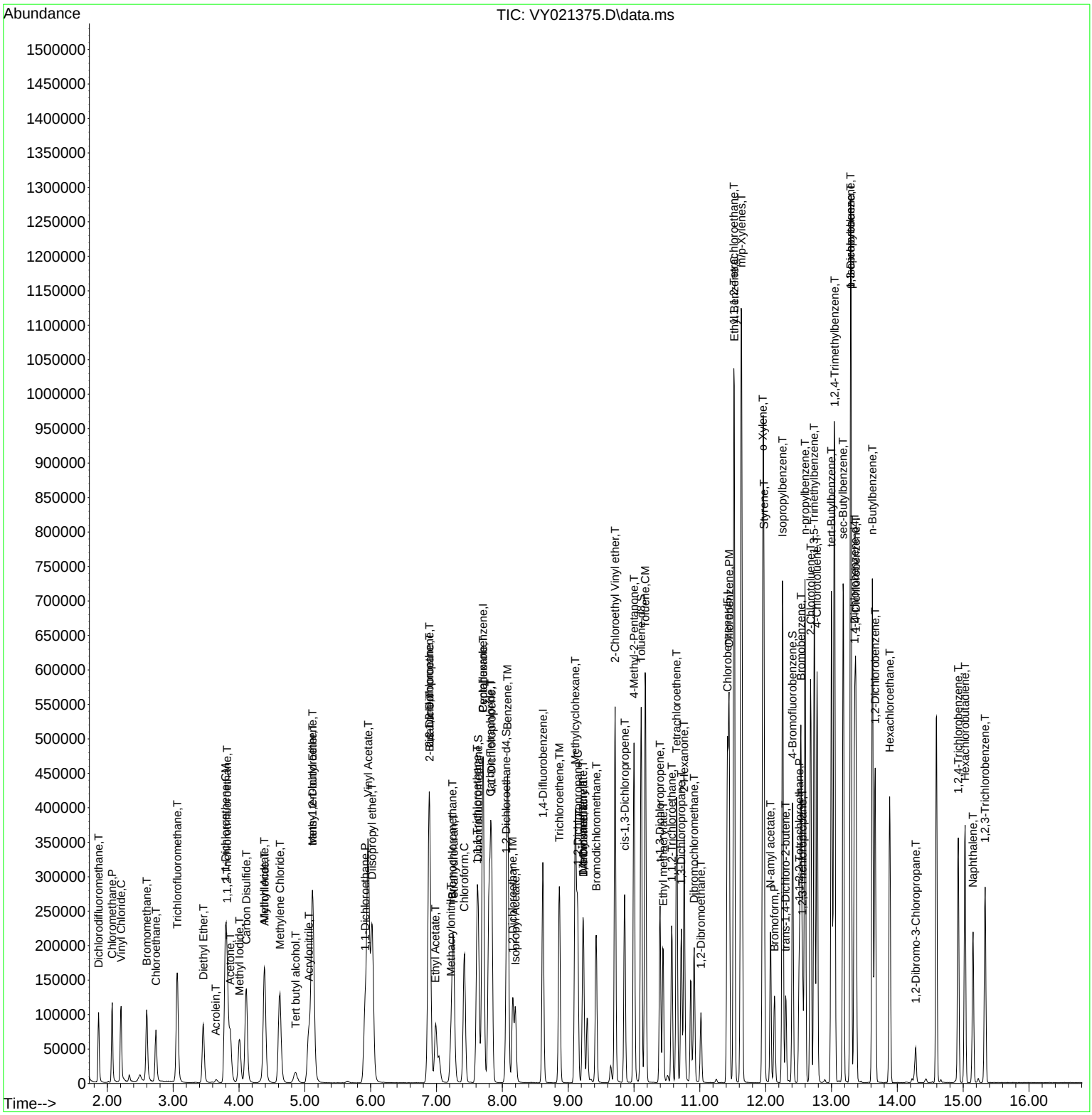
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 28 22:17:26 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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025



Evaluate Continuing Calibration Report

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	97	0.00
2	T	Dichlorodifluoromethane	0.474	0.440	7.2	87	0.00
3	P	Chloromethane	0.612	0.566	7.5	91	0.00
4	C	Vinyl Chloride	0.601	0.616	-2.5#	96	0.00
5	T	Bromomethane	0.399	0.411	-3.0	103	0.00
6	T	Chloroethane	0.373	0.400	-7.2	100	0.00
7	T	Trichlorofluoromethane	0.908	0.936	-3.1	97	0.00
8	T	Diethyl Ether	0.272	0.269	1.1	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.525	0.511	2.7	93	0.00
10	T	Methyl Iodide	0.553	0.600	-8.5	92	0.00
11	T	Tert butyl alcohol	0.044	0.033	25.0	79	0.00
12	CM	1,1-Dichloroethene	0.503	0.487	3.2#	92	0.00
13	T	Acrolein	0.033	0.006	81.8#	91	0.00
14	T	Allyl chloride	0.892	0.814	8.7	85	0.00
15	T	Acrylonitrile	0.120	0.114	5.0	87	0.00
16	T	Acetone	0.109	0.132	-21.1	100	0.00
17	T	Carbon Disulfide	1.671	1.585	5.1	89	0.00
18	T	Methyl Acetate	0.266	0.247	7.1	87	0.00
19	T	Methyl tert-butyl Ether	1.329	1.304	1.9	90	0.00
20	T	Methylene Chloride	0.588	0.547	7.0	91	0.01
21	T	trans-1,2-Dichloroethene	0.554	0.549	0.9	93	0.00
22	T	Diisopropyl ether	1.846	1.770	4.1	88	0.00
23	T	Vinyl Acetate	1.103	1.052	4.6	86	0.00
24	P	1,1-Dichloroethane	1.040	1.009	3.0	91	0.00
25	T	2-Butanone	0.164	0.166	-1.2	89	0.00
26	T	2,2-Dichloropropane	0.944	0.922	2.3	92	0.00
27	T	cis-1,2-Dichloroethene	0.632	0.635	-0.5	93	0.00
28	T	Bromochloromethane	0.460	0.462	-0.4	99	0.00
29	T	Tetrahydrofuran	0.107	0.098	8.4	83	0.00
30	C	Chloroform	1.054	1.043	1.0#	93	0.00
31	T	Cyclohexane	1.000	0.868	13.2	85	0.00
32	T	1,1,1-Trichloroethane	0.960	0.951	0.9	94	0.00
33	S	1,2-Dichloroethane-d4	0.567	0.567	0.0	100	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.328	0.351	-7.0	101	0.00
36	T	1,1-Dichloropropene	0.492	0.500	-1.6	91	0.00
37	T	Ethyl Acetate	0.245	0.233	4.9	85	0.00
38	T	Carbon Tetrachloride	0.554	0.578	-4.3	93	0.00
39	T	Methylcyclohexane	0.623	0.607	2.6	86	0.00
40	TM	Benzene	1.456	1.487	-2.1	91	0.00
41	T	Methacrylonitrile	0.137	0.137	0.0	87	0.00
42	TM	1,2-Dichloroethane	0.413	0.436	-5.6	94	0.00
43	T	Isopropyl Acetate	0.474	0.458	3.4	84	0.00
44	TM	Trichloroethene	0.364	0.375	-3.0	92	0.00
45	C	1,2-Dichloropropane	0.350	0.356	-1.7#	90	0.00
46	T	Dibromomethane	0.191	0.198	-3.7	91	0.00
47	T	Bromodichloromethane	0.511	0.537	-5.1	93	0.00
48	T	Methyl methacrylate	0.222	0.216	2.7	82	0.00

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	88	0.00
50	S	Toluene-d8	1.267	1.327	-4.7	99	0.00
51	T	4-Methyl-2-Pentanone	0.243	0.242	0.4	85	0.00
52	CM	Toluene	0.904	0.955	-5.6#	93	0.00
53	T	t-1,3-Dichloropropene	0.468	0.488	-4.3	89	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.565	-2.4	90	0.00
55	T	1,1,2-Trichloroethane	0.249	0.254	-2.0	89	0.00
56	T	Ethyl methacrylate	0.345	0.356	-3.2	85	0.00
57	T	1,3-Dichloropropane	0.438	0.450	-2.7	90	0.00
58	T	2-Chloroethyl Vinyl ether	0.165	0.171	-3.6	84	0.00
59	T	2-Hexanone	0.159	0.168	-5.7	86	0.00
60	T	Dibromochloromethane	0.340	0.362	-6.5	92	0.00
61	T	1,2-Dibromoethane	0.236	0.241	-2.1	89	0.00
62	S	4-Bromofluorobenzene	0.426	0.441	-3.5	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.378	0.394	-4.2	96	0.00
65	PM	Chlorobenzene	1.122	1.154	-2.9	93	0.00
66	T	1,1,1,2-Tetrachloroethane	0.393	0.412	-4.8	94	0.00
67	C	Ethyl Benzene	1.988	2.041	-2.7#	91	0.00
68	T	m/p-Xylenes	0.748	0.775	-3.6	92	0.00
69	T	o-Xylene	0.701	0.722	-3.0	90	0.00
70	T	Styrene	1.166	1.235	-5.9	92	0.00
71	P	Bromoform	0.225	0.232	-3.1	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73	T	Isopropylbenzene	3.759	3.861	-2.7	91	0.00
74	T	N-amyl acetate	0.955	0.931	2.5	82	0.00
75	P	1,1,2,2-Tetrachloroethane	0.663	0.654	1.4	88	0.00
76	T	1,2,3-Trichloropropane	0.500	0.427	14.6	76	0.00
77	T	Bromobenzene	0.874	0.908	-3.9	93	0.00
78	T	n-propylbenzene	4.561	4.639	-1.7	90	0.00
79	T	2-Chlorotoluene	2.618	2.628	-0.4	90	0.00
80	T	1,3,5-Trimethylbenzene	3.083	3.147	-2.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.225	0.212	5.8	81	0.00
82	T	4-Chlorotoluene	2.714	2.695	0.7	89	0.00
83	T	tert-Butylbenzene	2.785	2.764	0.8	89	0.00
84	T	1,2,4-Trimethylbenzene	3.066	3.121	-1.8	90	0.00
85	T	sec-Butylbenzene	4.068	4.053	0.4	89	0.00
86	T	p-Isopropyltoluene	3.397	3.429	-0.9	89	0.00
87	T	1,3-Dichlorobenzene	1.730	1.775	-2.6	92	0.00
88	T	1,4-Dichlorobenzene	1.709	1.709	0.0	91	0.00
89	T	n-Butylbenzene	3.196	3.206	-0.3	87	0.00
90	T	Hexachloroethane	0.710	0.690	2.8	89	0.00
91	T	1,2-Dichlorobenzene	1.515	1.525	-0.7	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.105	0.101	3.8	84	0.00
93	T	1,2,4-Trichlorobenzene	0.925	0.898	2.9	87	0.00
94	T	Hexachlorobutadiene	0.582	0.572	1.7	90	0.00
95	T	Naphthalene	1.532	1.483	3.2	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	0.738	5.5	84	0.00

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

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	97	0.00
2	T	Dichlorodifluoromethane	50.000	46.438	7.1	87	0.00
3	P	Chloromethane	50.000	46.223	7.6	91	0.00
4	C	Vinyl Chloride	50.000	51.293	-2.6#	96	0.00
5	T	Bromomethane	50.000	51.460	-2.9	103	0.00
6	T	Chloroethane	50.000	53.626	-7.3	100	0.00
7	T	Trichlorofluoromethane	50.000	51.575	-3.2	97	0.00
8	T	Diethyl Ether	50.000	49.423	1.2	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.644	2.7	93	0.00
10	T	Methyl Iodide	50.000	54.252	-8.5	92	0.00
11	T	Tert butyl alcohol	250.000	188.331	24.7	79	0.00
12	CM	1,1-Dichloroethene	50.000	48.376	3.2#	92	0.00
13	T	Acrolein	250.000	46.638	81.3#	91	0.00
14	T	Allyl chloride	50.000	45.608	8.8	85	0.00
15	T	Acrylonitrile	250.000	236.139	5.5	87	0.00
16	T	Acetone	250.000	302.934	-21.2	100	0.00
17	T	Carbon Disulfide	50.000	47.448	5.1	89	0.00
18	T	Methyl Acetate	50.000	46.449	7.1	87	0.00
19	T	Methyl tert-butyl Ether	50.000	49.070	1.9	90	0.00
20	T	Methylene Chloride	50.000	46.504	7.0	91	0.01
21	T	trans-1,2-Dichloroethene	50.000	49.547	0.9	93	0.00
22	T	Diisopropyl ether	50.000	47.952	4.1	88	0.00
23	T	Vinyl Acetate	250.000	238.456	4.6	86	0.00
24	P	1,1-Dichloroethane	50.000	48.476	3.0	91	0.00
25	T	2-Butanone	250.000	253.463	-1.4	89	0.00
26	T	2,2-Dichloropropane	50.000	48.821	2.4	92	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.189	-0.4	93	0.00
28	T	Bromochloromethane	50.000	50.196	-0.4	99	0.00
29	T	Tetrahydrofuran	250.000	227.342	9.1	83	0.00
30	C	Chloroform	50.000	49.466	1.1#	93	0.00
31	T	Cyclohexane	50.000	43.387	13.2	85	0.00
32	T	1,1,1-Trichloroethane	50.000	49.532	0.9	94	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.947	0.1	100	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	53.556	-7.1	101	0.00
36	T	1,1-Dichloropropene	50.000	50.810	-1.6	91	0.00
37	T	Ethyl Acetate	50.000	47.578	4.8	85	0.00
38	T	Carbon Tetrachloride	50.000	52.223	-4.4	93	0.00
39	T	Methylcyclohexane	50.000	48.718	2.6	86	0.00
40	TM	Benzene	50.000	51.073	-2.1	91	0.00
41	T	Methacrylonitrile	50.000	49.854	0.3	87	0.00
42	TM	1,2-Dichloroethane	50.000	52.760	-5.5	94	0.00
43	T	Isopropyl Acetate	50.000	48.330	3.3	84	0.00
44	TM	Trichloroethene	50.000	51.489	-3.0	92	0.00
45	C	1,2-Dichloropropane	50.000	50.814	-1.6#	90	0.00
46	T	Dibromomethane	50.000	51.775	-3.5	91	0.00
47	T	Bromodichloromethane	50.000	52.552	-5.1	93	0.00
48	T	Methyl methacrylate	50.000	48.776	2.4	82	0.00

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	987.591	1.2	88	0.00
50	S	Toluene-d8	50.000	52.386	-4.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	249.526	0.2	85	0.00
52	CM	Toluene	50.000	52.795	-5.6#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	52.124	-4.2	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.138	-2.3	90	0.00
55	T	1,1,2-Trichloroethane	50.000	50.869	-1.7	89	0.00
56	T	Ethyl methacrylate	50.000	51.680	-3.4	85	0.00
57	T	1,3-Dichloropropane	50.000	51.430	-2.9	90	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	257.917	-3.2	84	0.00
59	T	2-Hexanone	250.000	263.746	-5.5	86	0.00
60	T	Dibromochloromethane	50.000	53.214	-6.4	92	0.00
61	T	1,2-Dibromoethane	50.000	50.958	-1.9	89	0.00
62	S	4-Bromofluorobenzene	50.000	51.750	-3.5	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	52.180	-4.4	96	0.00
65	PM	Chlorobenzene	50.000	51.394	-2.8	93	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.434	-4.9	94	0.00
67	C	Ethyl Benzene	50.000	51.326	-2.7#	91	0.00
68	T	m/p-Xylenes	100.000	103.688	-3.7	92	0.00
69	T	o-Xylene	50.000	51.528	-3.1	90	0.00
70	T	Styrene	50.000	52.962	-5.9	92	0.00
71	P	Bromoform	50.000	51.622	-3.2	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	51.354	-2.7	91	0.00
74	T	N-amyl acetate	50.000	48.742	2.5	82	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.325	1.3	88	0.00
76	T	1,2,3-Trichloropropane	50.000	42.616	14.8	76	0.00
77	T	Bromobenzene	50.000	51.947	-3.9	93	0.00
78	T	n-propylbenzene	50.000	50.847	-1.7	90	0.00
79	T	2-Chlorotoluene	50.000	50.185	-0.4	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.032	-2.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.995	6.0	81	0.00
82	T	4-Chlorotoluene	50.000	49.658	0.7	89	0.00
83	T	tert-Butylbenzene	50.000	49.632	0.7	89	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.892	-1.8	90	0.00
85	T	sec-Butylbenzene	50.000	49.819	0.4	89	0.00
86	T	p-Isopropyltoluene	50.000	50.472	-0.9	89	0.00
87	T	1,3-Dichlorobenzene	50.000	51.311	-2.6	92	0.00
88	T	1,4-Dichlorobenzene	50.000	50.025	-0.0	91	0.00
89	T	n-Butylbenzene	50.000	50.152	-0.3	87	0.00
90	T	Hexachloroethane	50.000	48.657	2.7	89	0.00
91	T	1,2-Dichlorobenzene	50.000	50.334	-0.7	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.334	3.3	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.537	2.9	87	0.00
94	T	Hexachlorobutadiene	50.000	49.149	1.7	90	0.00
95	T	Naphthalene	50.000	48.393	3.2	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	47.212	5.6	84	0.00

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

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	97	0.00
2	T	Dichlorodifluoromethane	50.000	46.438	7.1	87	0.00
3	P	Chloromethane	50.000	46.223	7.6	91	0.00
4	C	Vinyl Chloride	50.000	51.293	-2.6#	96	0.00
5	T	Bromomethane	50.000	51.460	-2.9	103	0.00
6	T	Chloroethane	50.000	53.626	-7.3	100	0.00
7	T	Trichlorofluoromethane	50.000	51.575	-3.2	97	0.00
8	T	Diethyl Ether	50.000	49.423	1.2	91	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.644	2.7	93	0.00
10	T	Methyl Iodide	50.000	54.252	-8.5	92	0.00
11	T	Tert butyl alcohol	250.000	188.331	24.7	79	0.00
12	CM	1,1-Dichloroethene	50.000	48.376	3.2#	92	0.00
13	T	Acrolein	250.000	46.638	81.3#	91	0.00
14	T	Allyl chloride	50.000	45.608	8.8	85	0.00
15	T	Acrylonitrile	250.000	236.139	5.5	87	0.00
16	T	Acetone	250.000	302.934	-21.2	100	0.00
17	T	Carbon Disulfide	50.000	47.448	5.1	89	0.00
18	T	Methyl Acetate	50.000	46.449	7.1	87	0.00
19	T	Methyl tert-butyl Ether	50.000	49.070	1.9	90	0.00
20	T	Methylene Chloride	50.000	46.504	7.0	91	0.01
21	T	trans-1,2-Dichloroethene	50.000	49.547	0.9	93	0.00
22	T	Diisopropyl ether	50.000	47.952	4.1	88	0.00
23	T	Vinyl Acetate	250.000	238.456	4.6	86	0.00
24	P	1,1-Dichloroethane	50.000	48.476	3.0	91	0.00
25	T	2-Butanone	250.000	253.463	-1.4	89	0.00
26	T	2,2-Dichloropropane	50.000	48.821	2.4	92	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.189	-0.4	93	0.00
28	T	Bromochloromethane	50.000	50.196	-0.4	99	0.00
29	T	Tetrahydrofuran	250.000	227.342	9.1	83	0.00
30	C	Chloroform	50.000	49.466	1.1#	93	0.00
31	T	Cyclohexane	50.000	43.387	13.2	85	0.00
32	T	1,1,1-Trichloroethane	50.000	49.532	0.9	94	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.947	0.1	100	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	53.556	-7.1	101	0.00
36	T	1,1-Dichloropropene	50.000	50.810	-1.6	91	0.00
37	T	Ethyl Acetate	50.000	47.578	4.8	85	0.00
38	T	Carbon Tetrachloride	50.000	52.223	-4.4	93	0.00
39	T	Methylcyclohexane	50.000	48.718	2.6	86	0.00
40	TM	Benzene	50.000	51.073	-2.1	91	0.00
41	T	Methacrylonitrile	50.000	49.854	0.3	87	0.00
42	TM	1,2-Dichloroethane	50.000	52.760	-5.5	94	0.00
43	T	Isopropyl Acetate	50.000	48.330	3.3	84	0.00
44	TM	Trichloroethene	50.000	51.489	-3.0	92	0.00
45	C	1,2-Dichloropropane	50.000	50.814	-1.6#	90	0.00
46	T	Dibromomethane	50.000	51.775	-3.5	91	0.00
47	T	Bromodichloromethane	50.000	52.552	-5.1	93	0.00
48	T	Methyl methacrylate	50.000	48.776	2.4	82	0.00

Sample Results: **VY021375.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	987.591	1.2	88	0.00
50	S	Toluene-d8	50.000	52.386	-4.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	249.526	0.2	85	0.00
52	CM	Toluene	50.000	52.795	-5.6#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	52.124	-4.2	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.138	-2.3	90	0.00
55	T	1,1,2-Trichloroethane	50.000	50.869	-1.7	89	0.00
56	T	Ethyl methacrylate	50.000	51.680	-3.4	85	0.00
57	T	1,3-Dichloropropane	50.000	51.430	-2.9	90	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	257.917	-3.2	84	0.00
59	T	2-Hexanone	250.000	263.746	-5.5	86	0.00
60	T	Dibromochloromethane	50.000	53.214	-6.4	92	0.00
61	T	1,2-Dibromoethane	50.000	50.958	-1.9	89	0.00
62	S	4-Bromofluorobenzene	50.000	51.750	-3.5	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	52.180	-4.4	96	0.00
65	PM	Chlorobenzene	50.000	51.394	-2.8	93	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.434	-4.9	94	0.00
67	C	Ethyl Benzene	50.000	51.326	-2.7#	91	0.00
68	T	m/p-Xylenes	100.000	103.688	-3.7	92	0.00
69	T	o-Xylene	50.000	51.528	-3.1	90	0.00
70	T	Styrene	50.000	52.962	-5.9	92	0.00
71	P	Bromoform	50.000	51.622	-3.2	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73	T	Isopropylbenzene	50.000	51.354	-2.7	91	0.00
74	T	N-amyl acetate	50.000	48.742	2.5	82	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.325	1.3	88	0.00
76	T	1,2,3-Trichloropropane	50.000	42.616	14.8	76	0.00
77	T	Bromobenzene	50.000	51.947	-3.9	93	0.00
78	T	n-propylbenzene	50.000	50.847	-1.7	90	0.00
79	T	2-Chlorotoluene	50.000	50.185	-0.4	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.032	-2.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.995	6.0	81	0.00
82	T	4-Chlorotoluene	50.000	49.658	0.7	89	0.00
83	T	tert-Butylbenzene	50.000	49.632	0.7	89	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.892	-1.8	90	0.00
85	T	sec-Butylbenzene	50.000	49.819	0.4	89	0.00
86	T	p-Isopropyltoluene	50.000	50.472	-0.9	89	0.00
87	T	1,3-Dichlorobenzene	50.000	51.311	-2.6	92	0.00
88	T	1,4-Dichlorobenzene	50.000	50.025	-0.0	91	0.00
89	T	n-Butylbenzene	50.000	50.152	-0.3	87	0.00
90	T	Hexachloroethane	50.000	48.657	2.7	89	0.00
91	T	1,2-Dichlorobenzene	50.000	50.334	-0.7	90	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.334	3.3	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.537	2.9	87	0.00
94	T	Hexachlorobutadiene	50.000	49.149	1.7	90	0.00
95	T	Naphthalene	50.000	48.393	3.2	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021375.D
Acq On : 28 Feb 2025 09:44
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 22:17:26 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	47.212	5.6	84	0.00

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

QC SAMPLE DATA

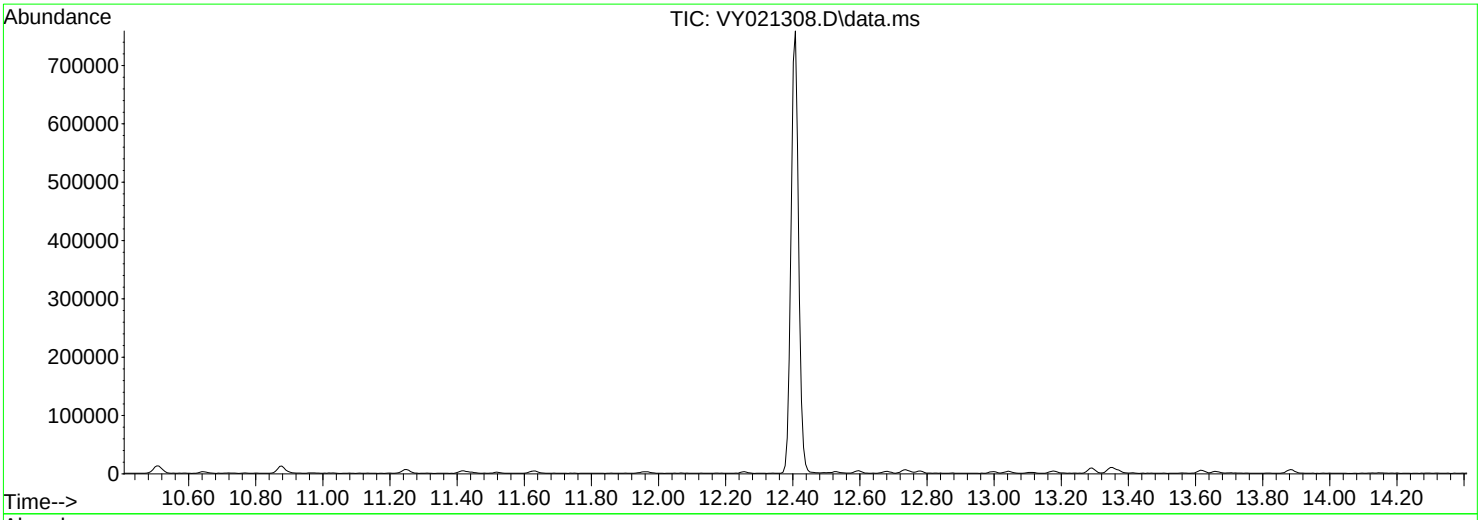
Sample Results: **VY021308.D**

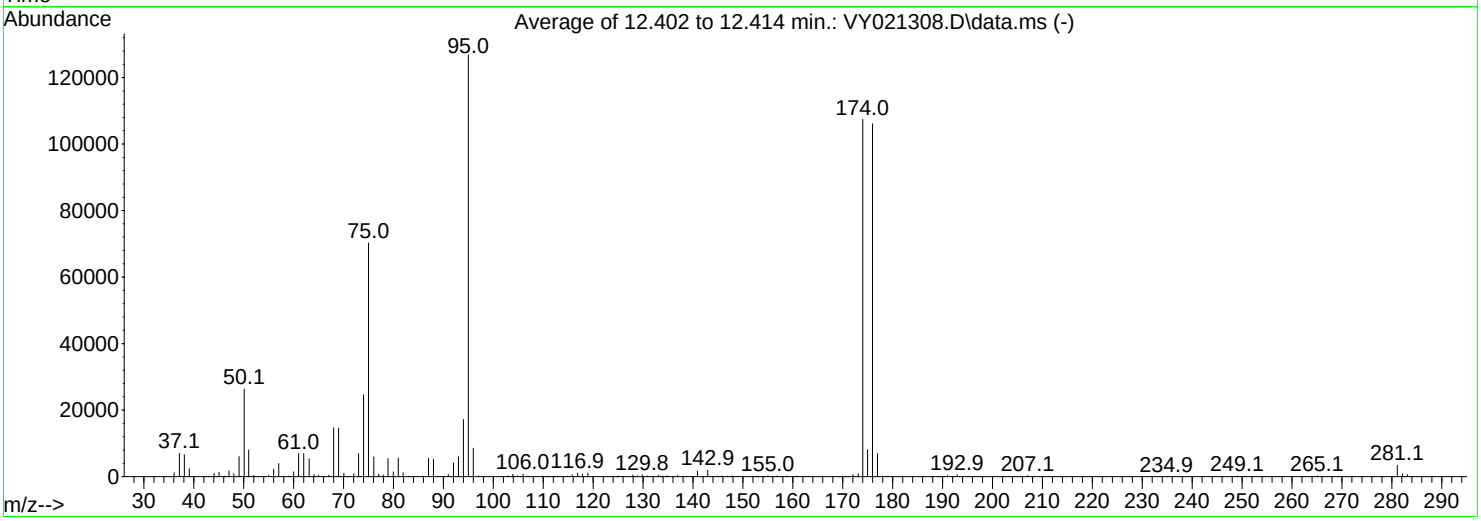
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022525\
Data File : VY021308.D
Acq On : 25 Feb 2025 12:10
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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

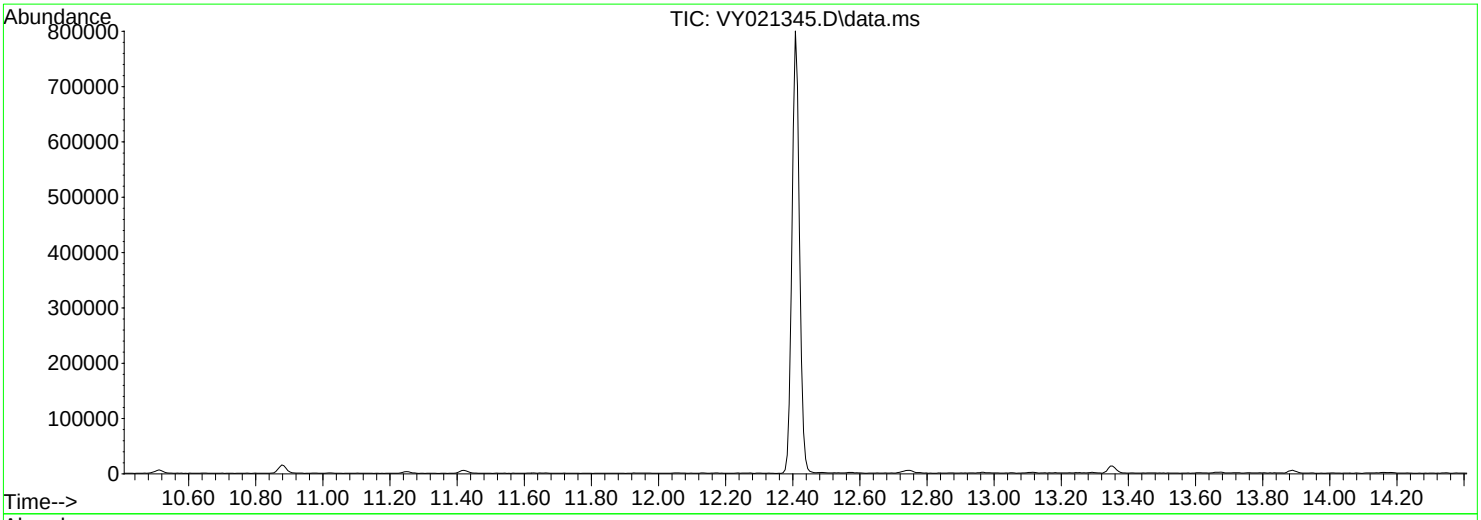
Sample Results: **VY021345.D**

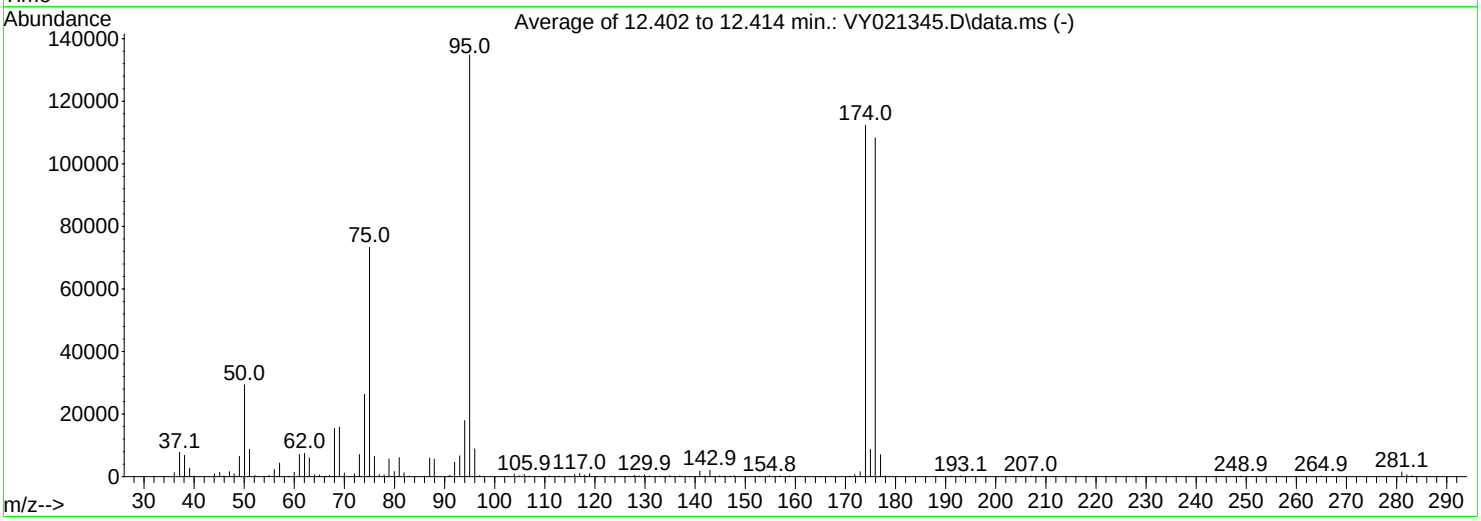
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021345.D
Acq On : 27 Feb 2025 09:41
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

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 Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result 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

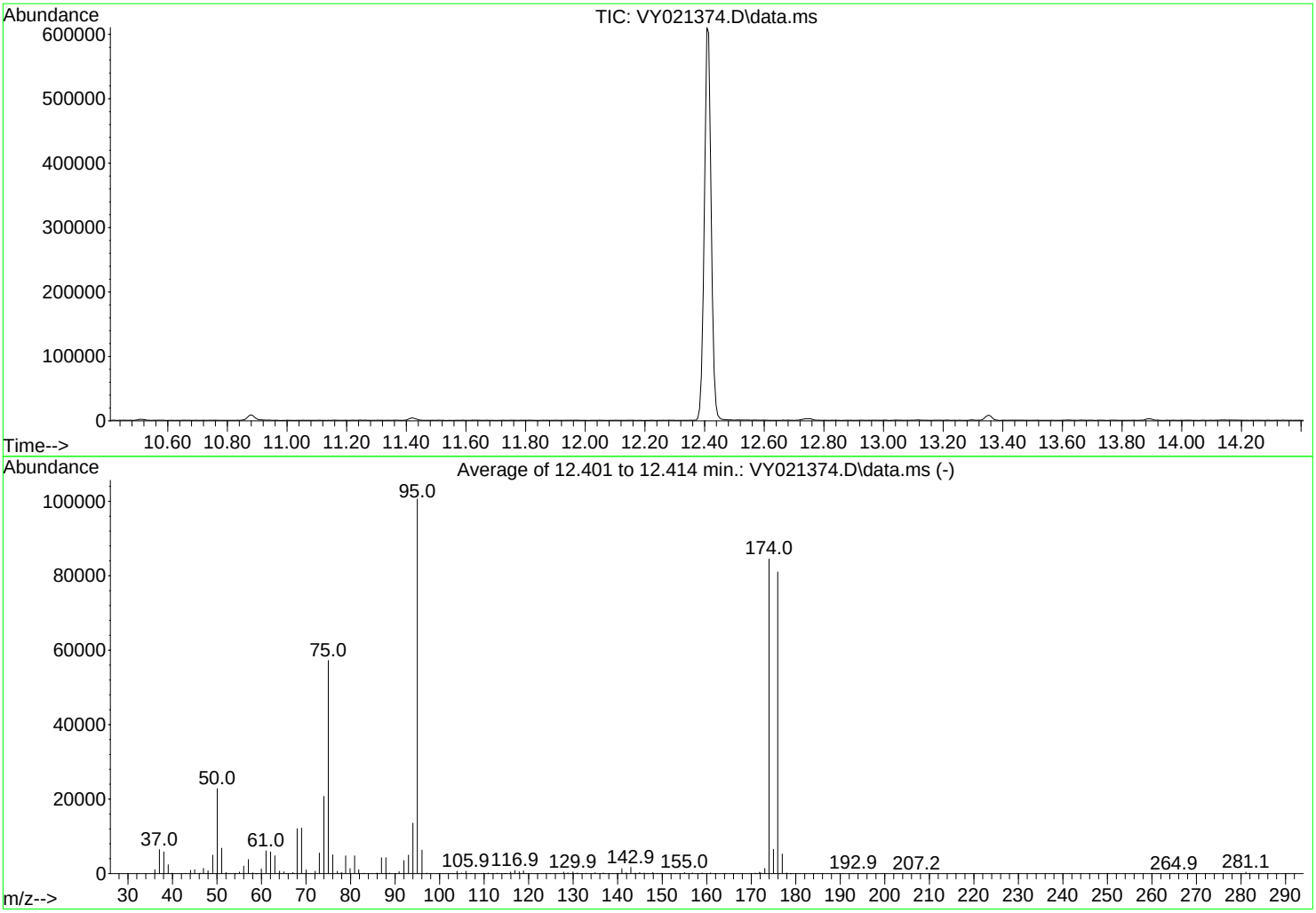
Sample Results: **VY021374.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021374.D
Acq On : 28 Feb 2025 09:03
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\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	22.7	22835	PASS
75	95	30	60	56.9	57275	PASS
95	95	100	100	100.0	100624	PASS
96	95	5	9	6.3	6358	PASS
173	174	0.00	2	1.6	1366	PASS
174	95	50	100	84.0	84512	PASS
175	174	5	9	7.7	6516	PASS
176	174	95	101	95.9	81021	PASS
177	176	5	9	6.5	5274	PASS

Raw Data: **VY021347.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
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(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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
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(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			

Raw Data: **VY021347.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1422
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%			

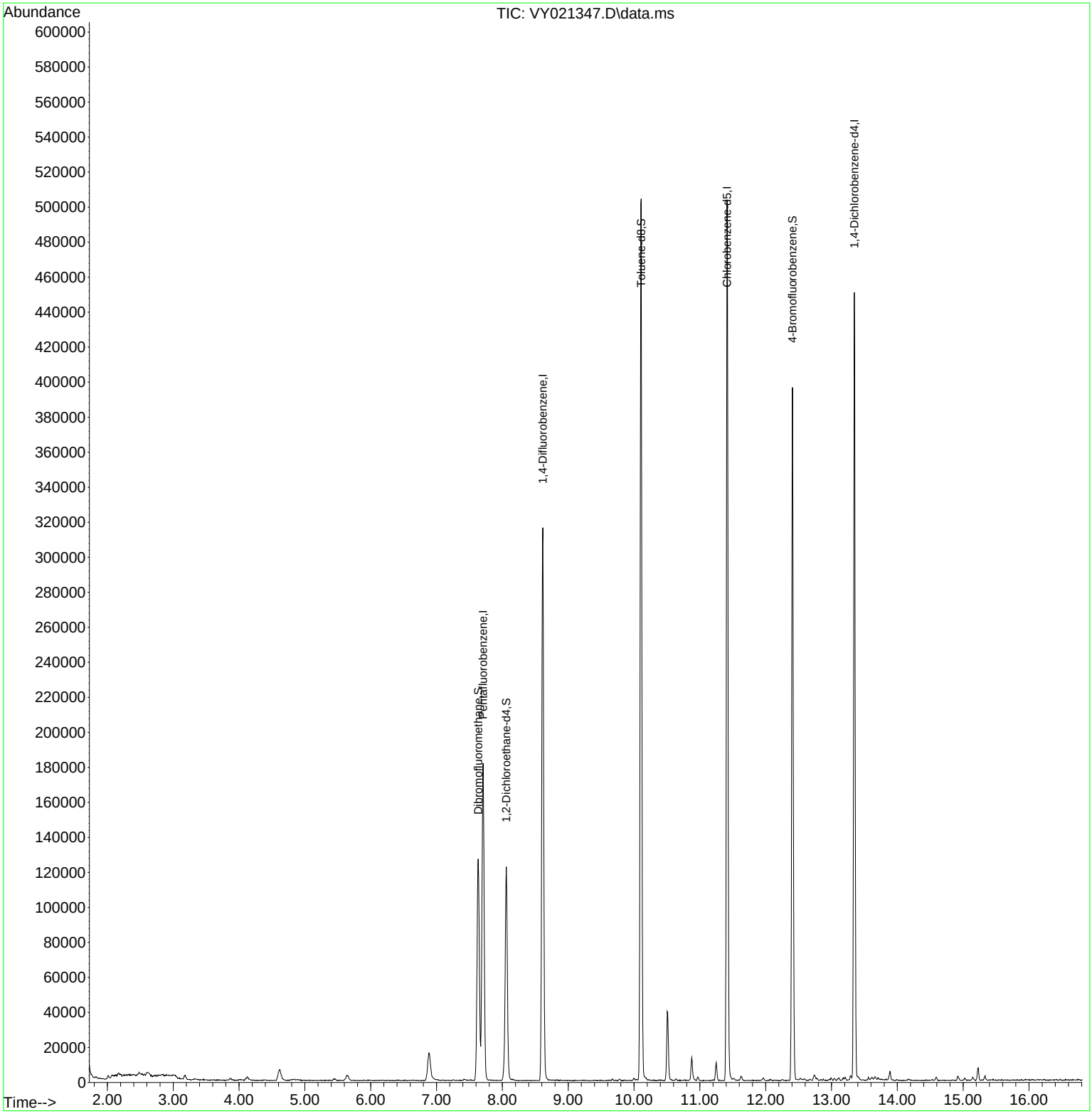
Target Compounds Qvalue

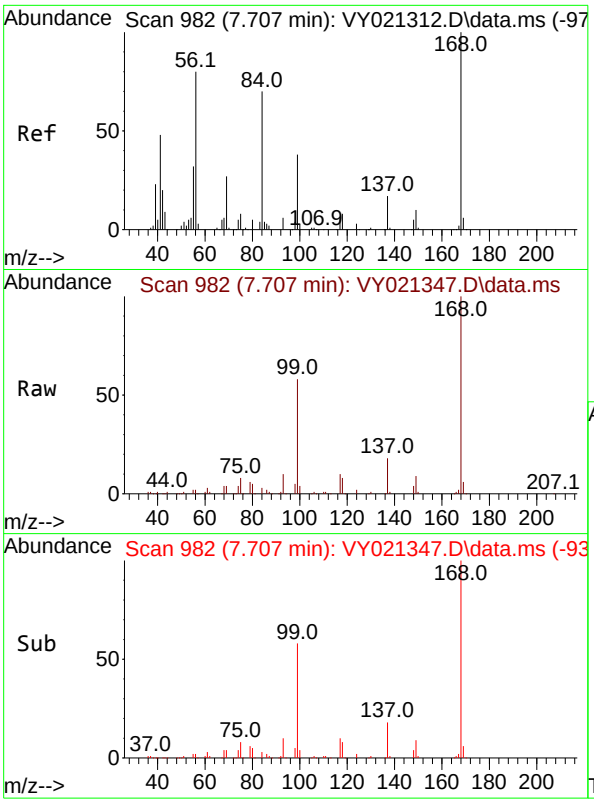
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



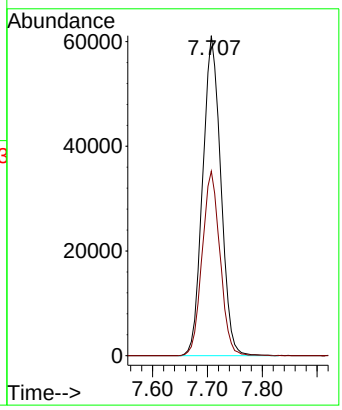


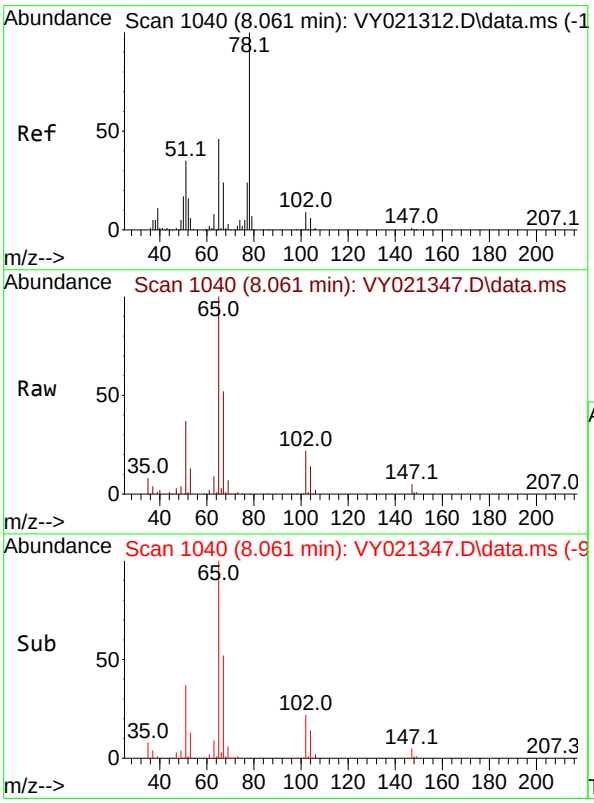
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:168 Resp: 140233

Ion	Ratio	Lower	Upper
168	100		
99	57.6	47.1	70.7

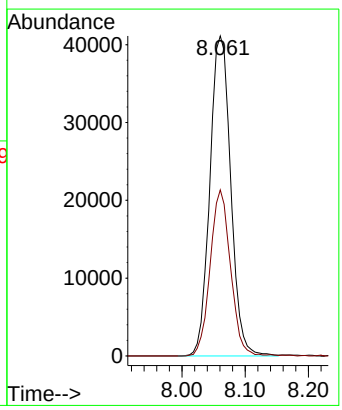


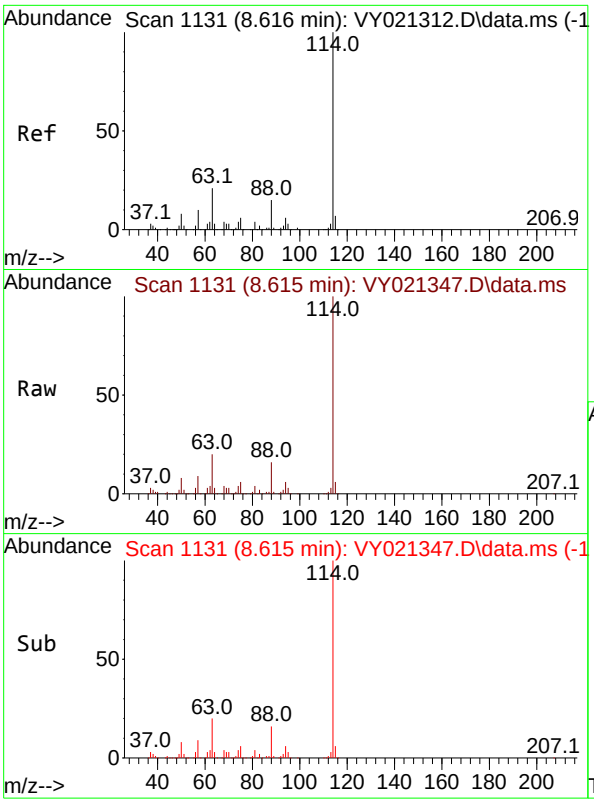


#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	103.6



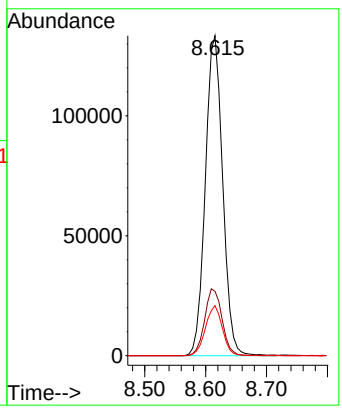


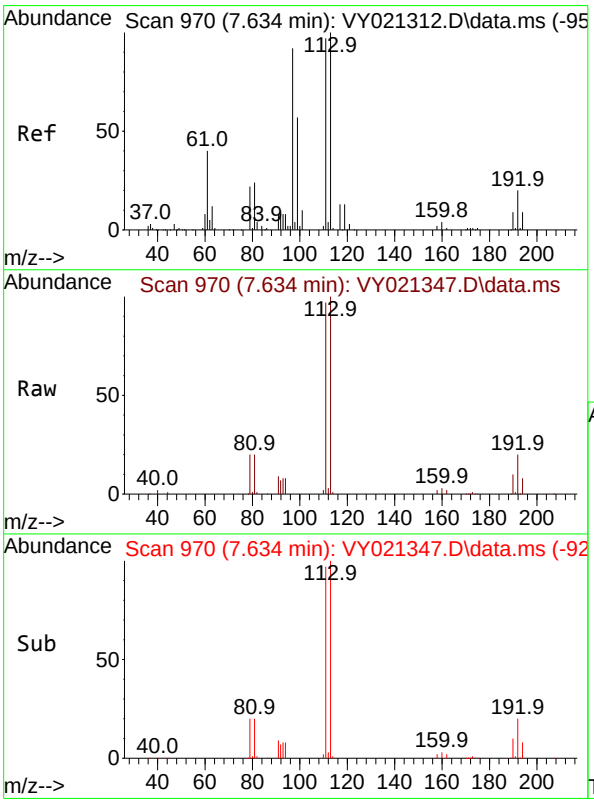
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

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

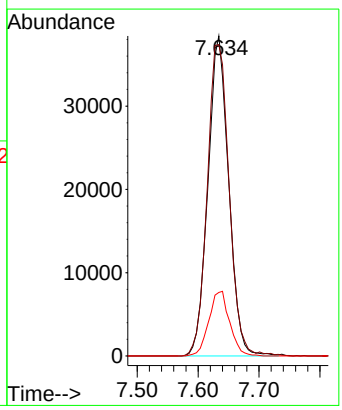


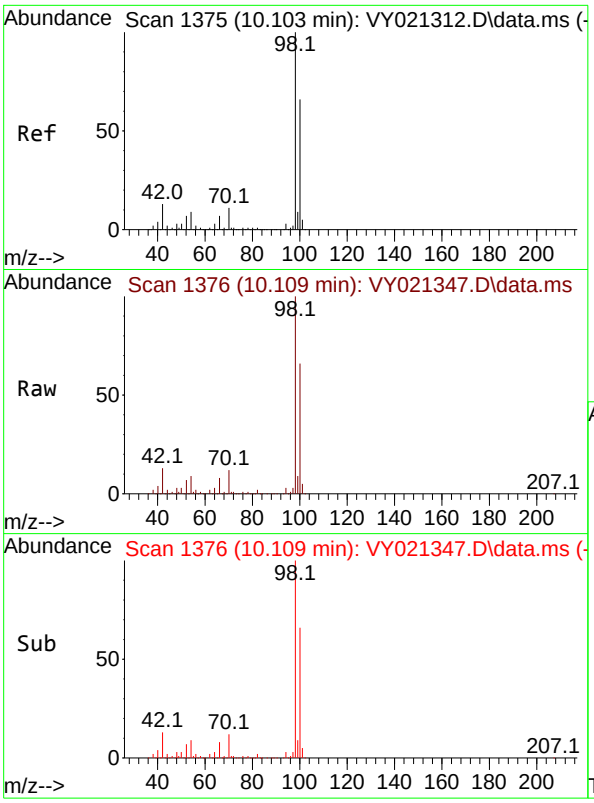


#35
Dibromofluoromethane
Concen: 52.539 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

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



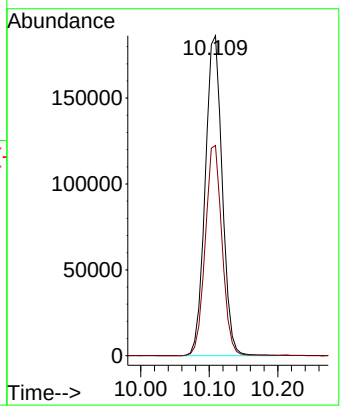


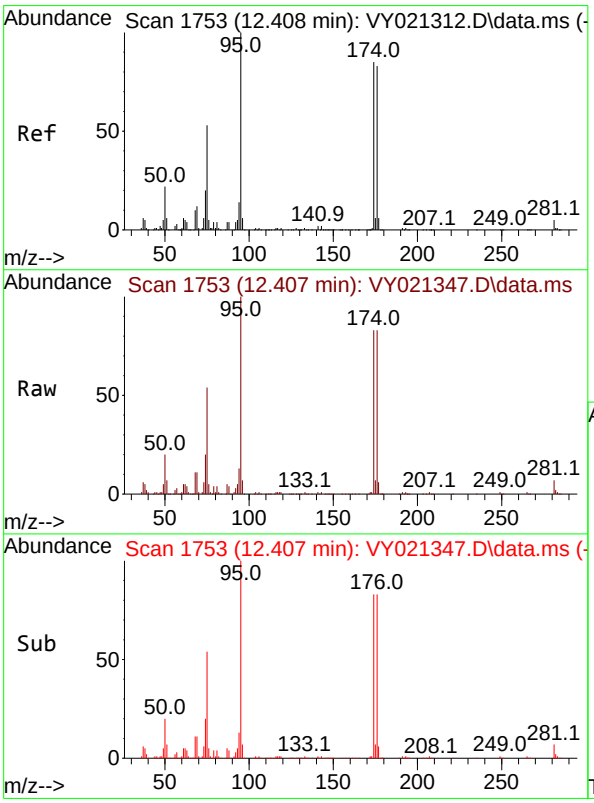
#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion: 98 Resp: 322284

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

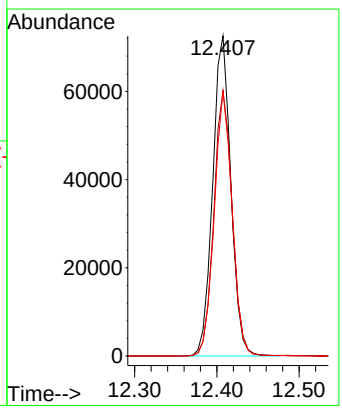


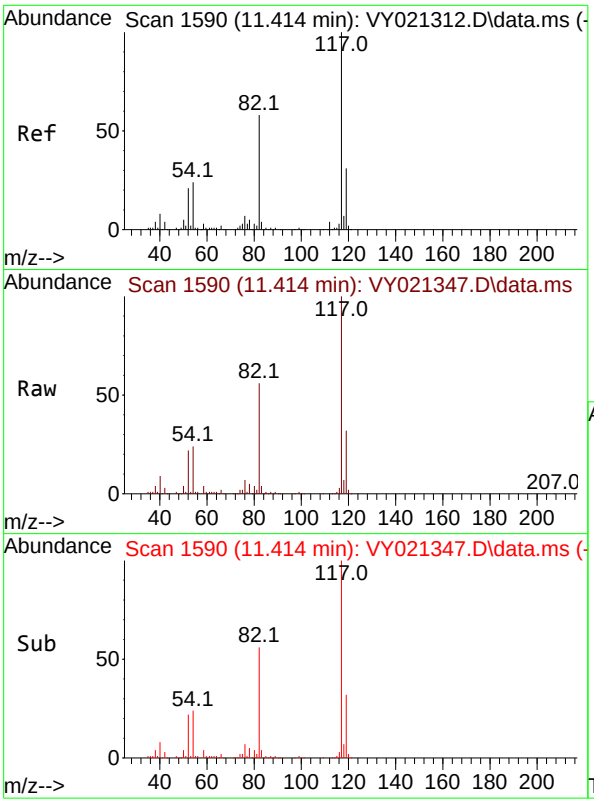


#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

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



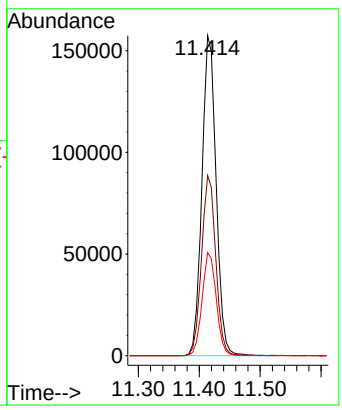


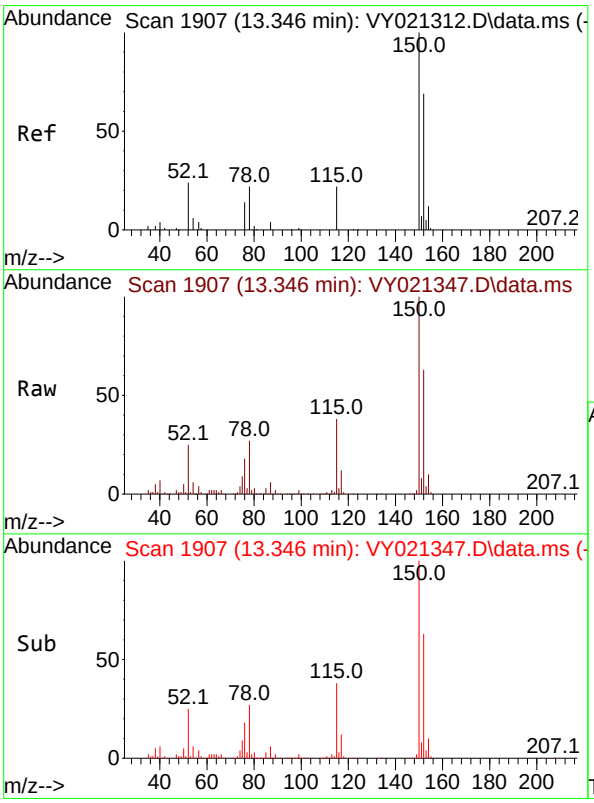
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

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

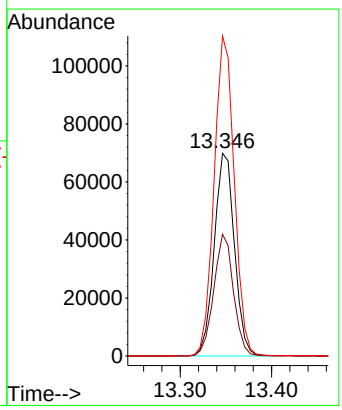




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

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



Sample Results: **VY021347.D**

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	% of 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

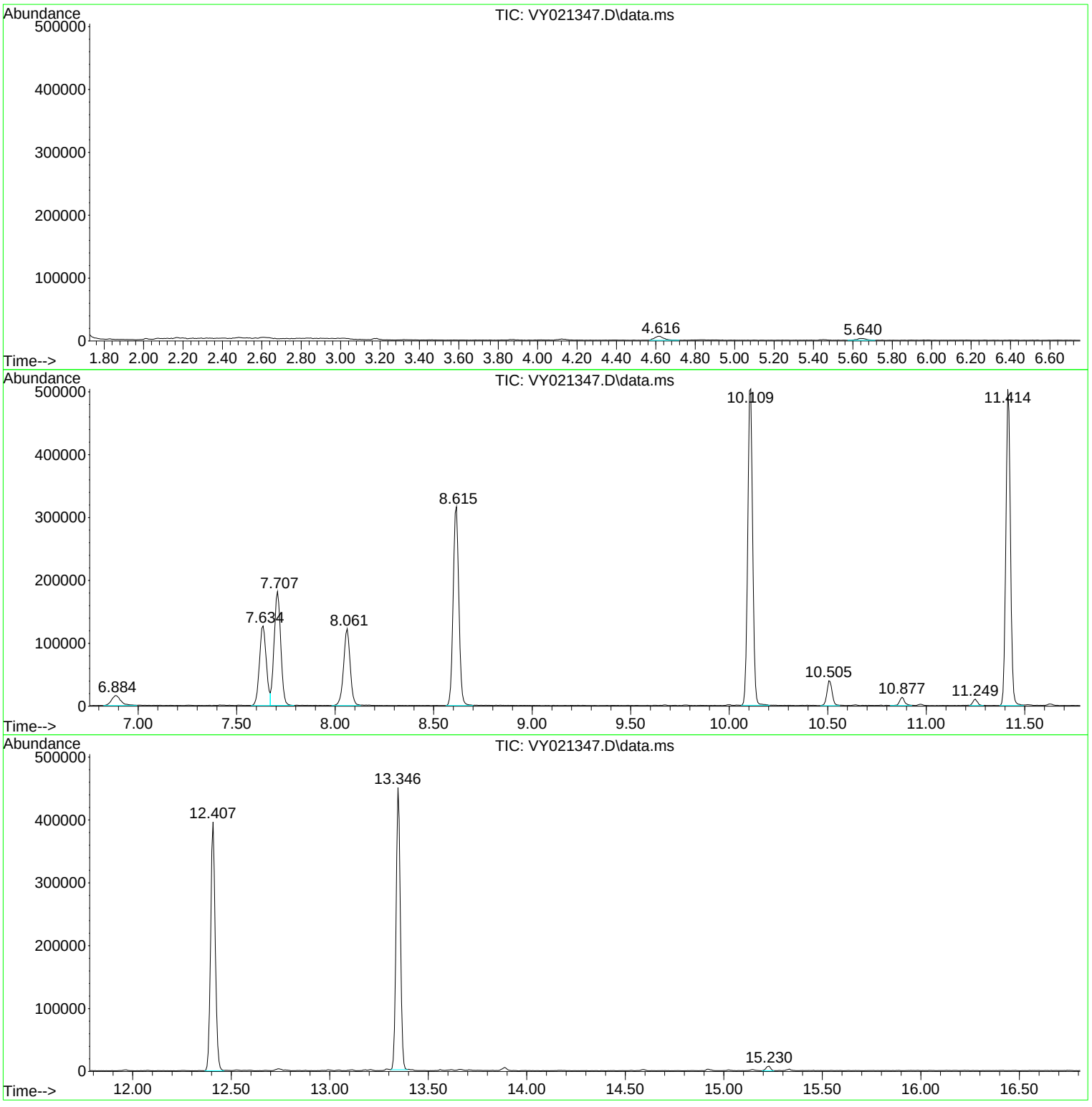
Sample Results: **VY021347.D**

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



Library Search Compound Report

Sample Results: **VY021347.D**

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\NIST20.L
TIC Integration Parameters: LSCINT.P

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

Raw Data: **VY021376.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

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

Raw Data: **VY021376.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

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	52.2		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (74) - 130 (123)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.7		70 (38) - 130 (136)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	7.713			
540-36-3	1,4-Difluorobenzene	181000	8.616			
3114-55-4	Chlorobenzene-d5	159000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	59400	13.353			

Raw Data: **VY021376.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 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	7.713	168	105534	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	180558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	159029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	59388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	62494	52.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.400%			
35) Dibromofluoromethane	7.634	113	61564	52.007	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.020%			
50) Toluene-d8	10.109	98	215695	47.148	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.300%			
62) 4-Bromofluorobenzene	12.408	95	62690	40.717	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.440%			

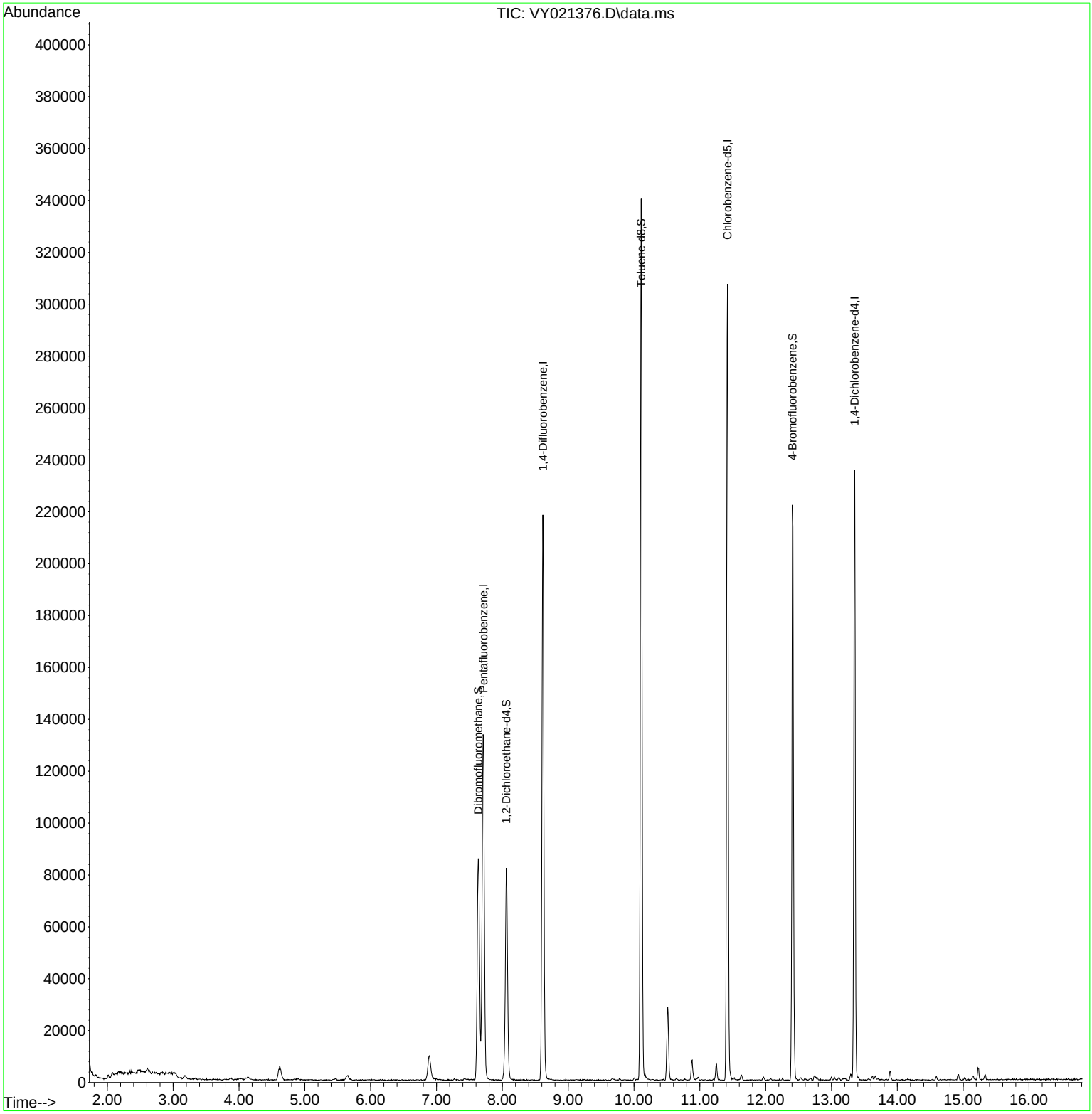
Target Compounds Qvalue

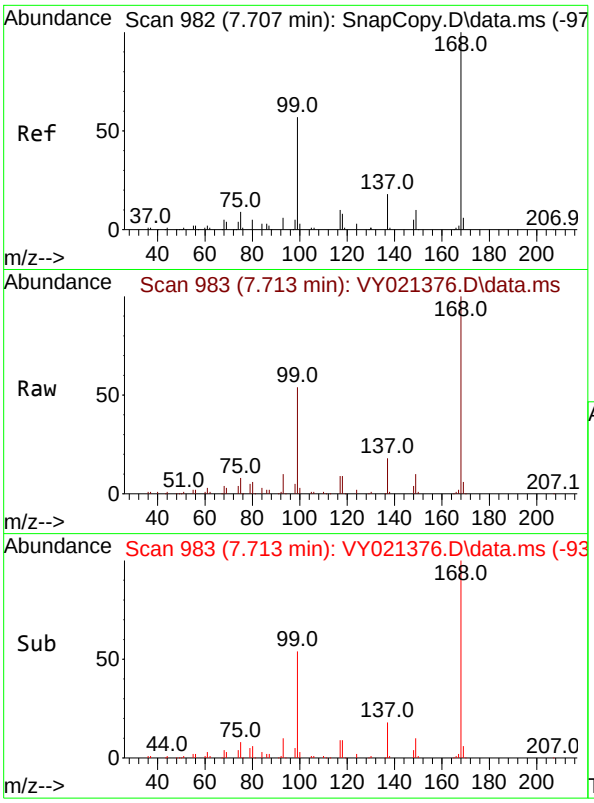
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 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



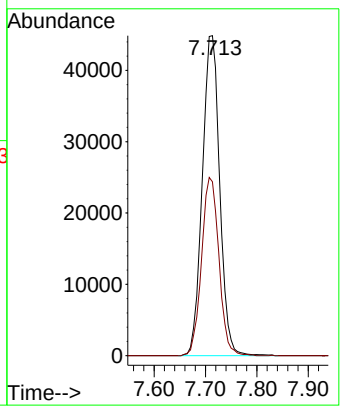


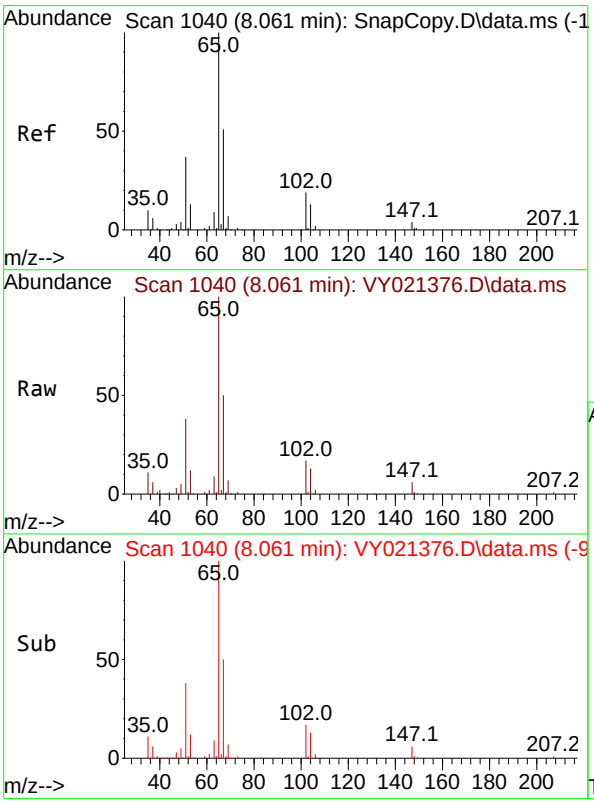
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:168 Resp: 105534

Ion	Ratio	Lower	Upper
168	100		
99	54.4	47.1	70.7

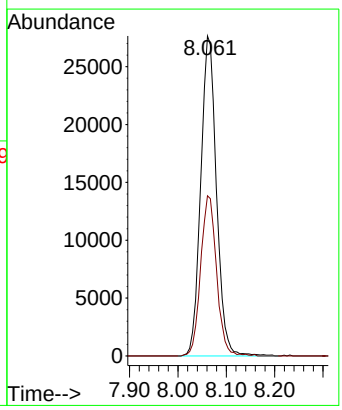


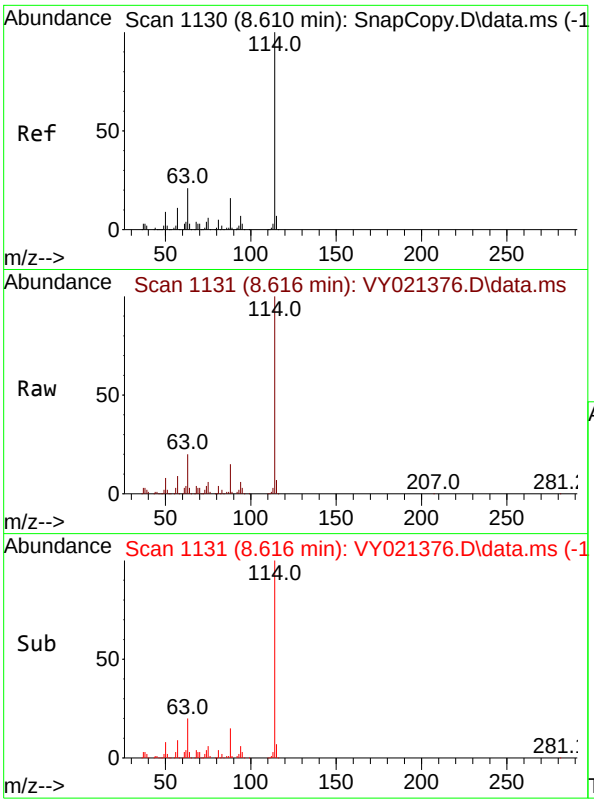


#33
1,2-Dichloroethane-d4
Concen: 52.201 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 65 Resp: 62494

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.6



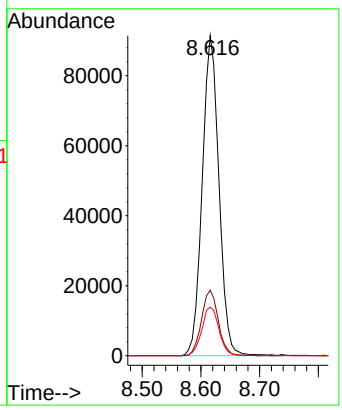


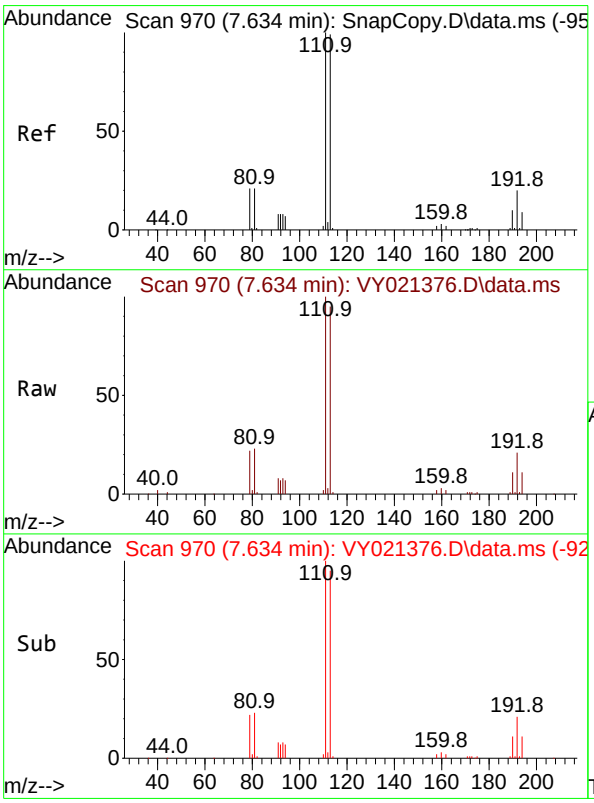
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:114 Resp: 180558

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.2
88	15.2	0.0	29.8

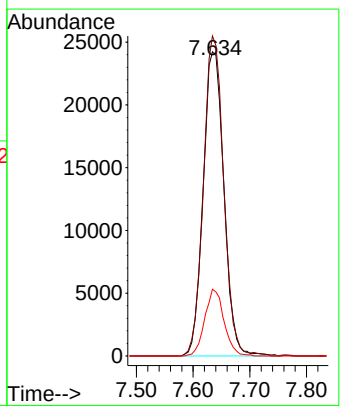


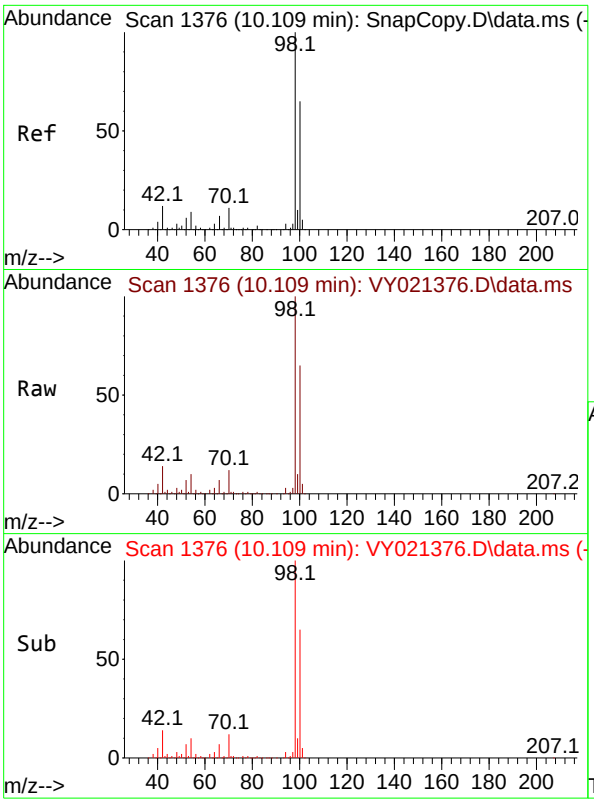


#35
Dibromofluoromethane
Concen: 52.007 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:113 Resp: 61564

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	20.3	15.8	23.8



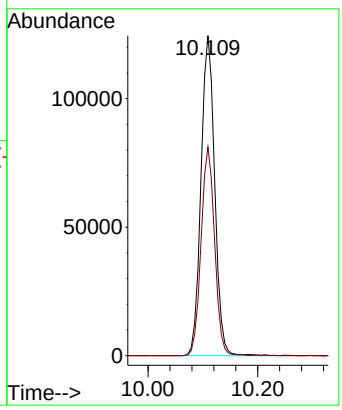


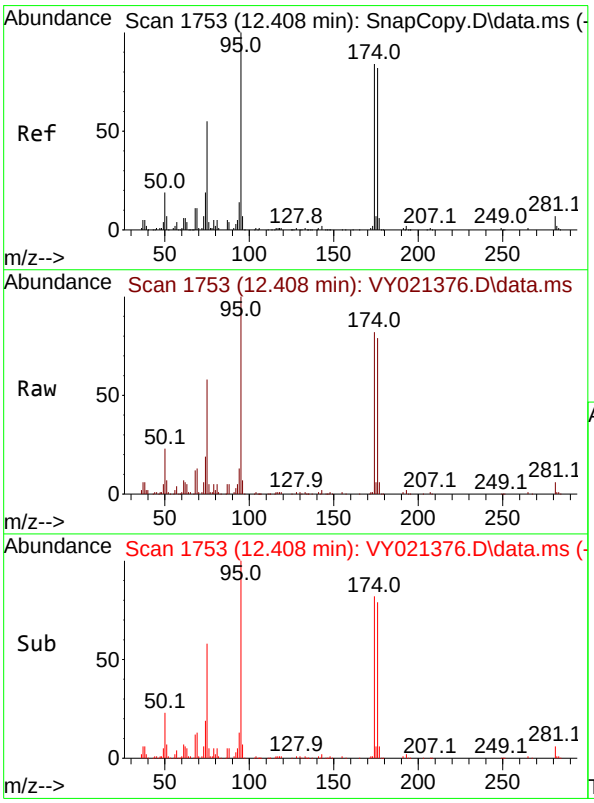
#50
Toluene-d8
Concen: 47.148 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion: 98 Resp: 215695

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6

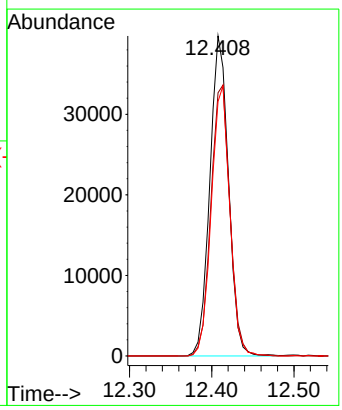


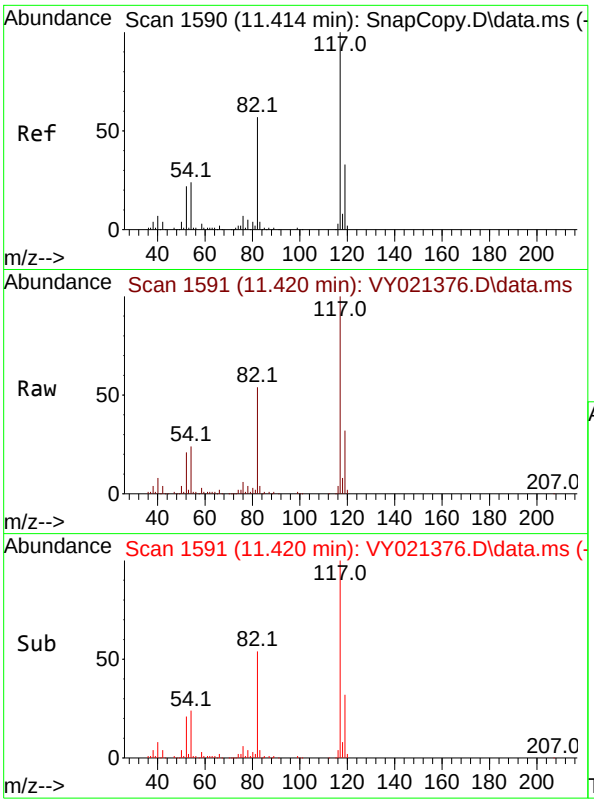


#62
4-Bromofluorobenzene
Concen: 40.717 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 95 Resp: 62690

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	168.0
176	83.6	0.0	162.6



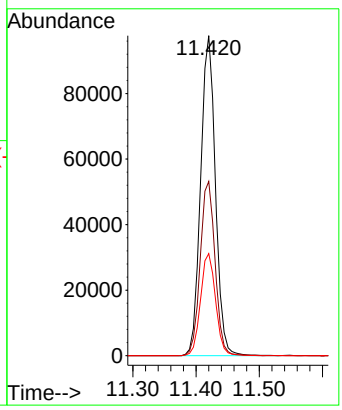


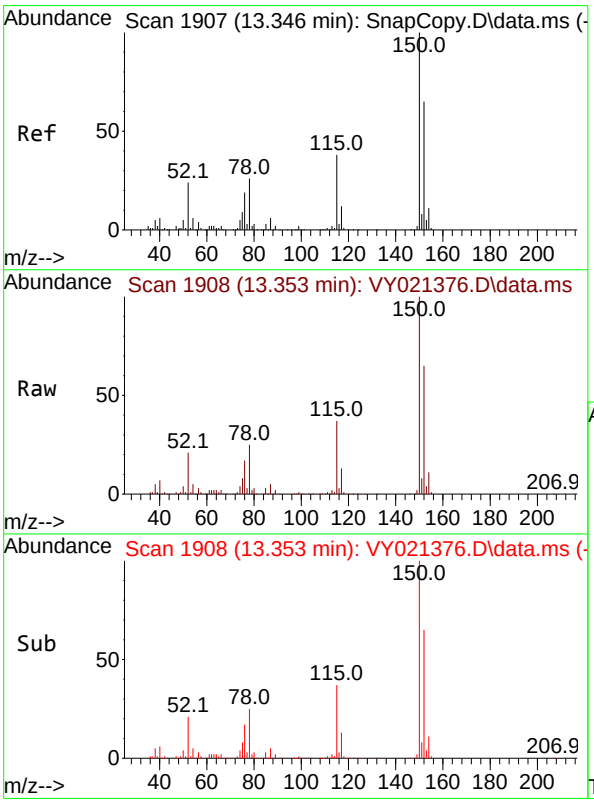
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:117 Resp: 159029

Ion	Ratio	Lower	Upper
117	100		
82	54.5	46.2	69.4
119	31.9	24.9	37.3

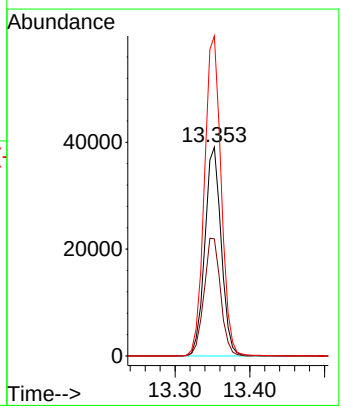




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:152 Resp: 59388

Ion	Ratio	Lower	Upper
152	100		
115	57.1	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021376.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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: VY021376.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	466	475	486	rVB3	5259	16483	2.83%	0.528%
2	6.890	839	848	859	rBV2	9298	29328	5.04%	0.939%
3	7.634	961	970	976	rBV	85357	209625	35.99%	6.709%
4	7.707	976	982	995	rVB	132816	312807	53.71%	10.012%
5	8.061	1027	1040	1055	rBV3	81941	194530	33.40%	6.226%
6	8.616	1123	1131	1145	rBV	217850	433719	74.47%	13.882%
7	10.109	1368	1376	1385	rBV	339535	582391	100.00%	18.641%
8	10.512	1435	1442	1449	rBV	28352	52264	8.97%	1.673%
9	10.884	1495	1503	1508	rBV3	7886	14332	2.46%	0.459%
10	11.249	1558	1563	1569	rBV2	6342	10537	1.81%	0.337%
11	11.420	1583	1591	1602	rBV	307053	509322	87.45%	16.302%
12	12.408	1747	1753	1765	rBV2	221809	372790	64.01%	11.932%
13	13.353	1901	1908	1916	rVV	234724	372159	63.90%	11.912%
14	13.889	1990	1996	2004	rVB3	3626	6380	1.10%	0.204%
15	15.224	2210	2215	2221	rBV2	4691	7662	1.32%	0.245%

Sum of corrected areas: 3124329

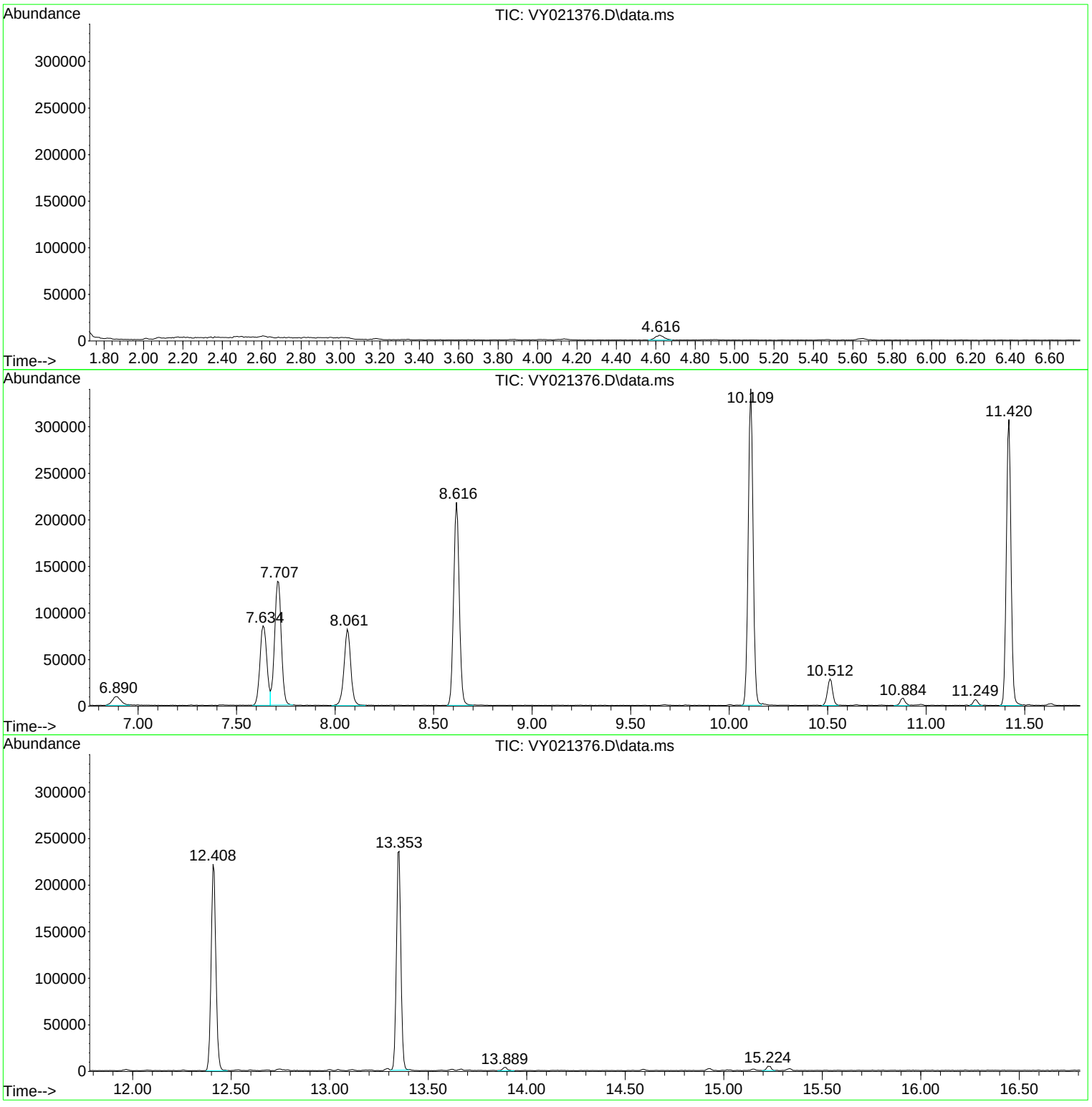
Sample Results: **VY021376.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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



Sample Results: **VY021376.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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

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

Raw Data: **VY021348.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
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)
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			

Raw Data: **VY021348.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1422
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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

02/28/2025
Supervised By :Semsettin Yesilyurt

02/28/2025

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l		
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		
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

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 : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

02/28/2025
Supervised By :Semsettin Yesilyurt

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

02/28/2025

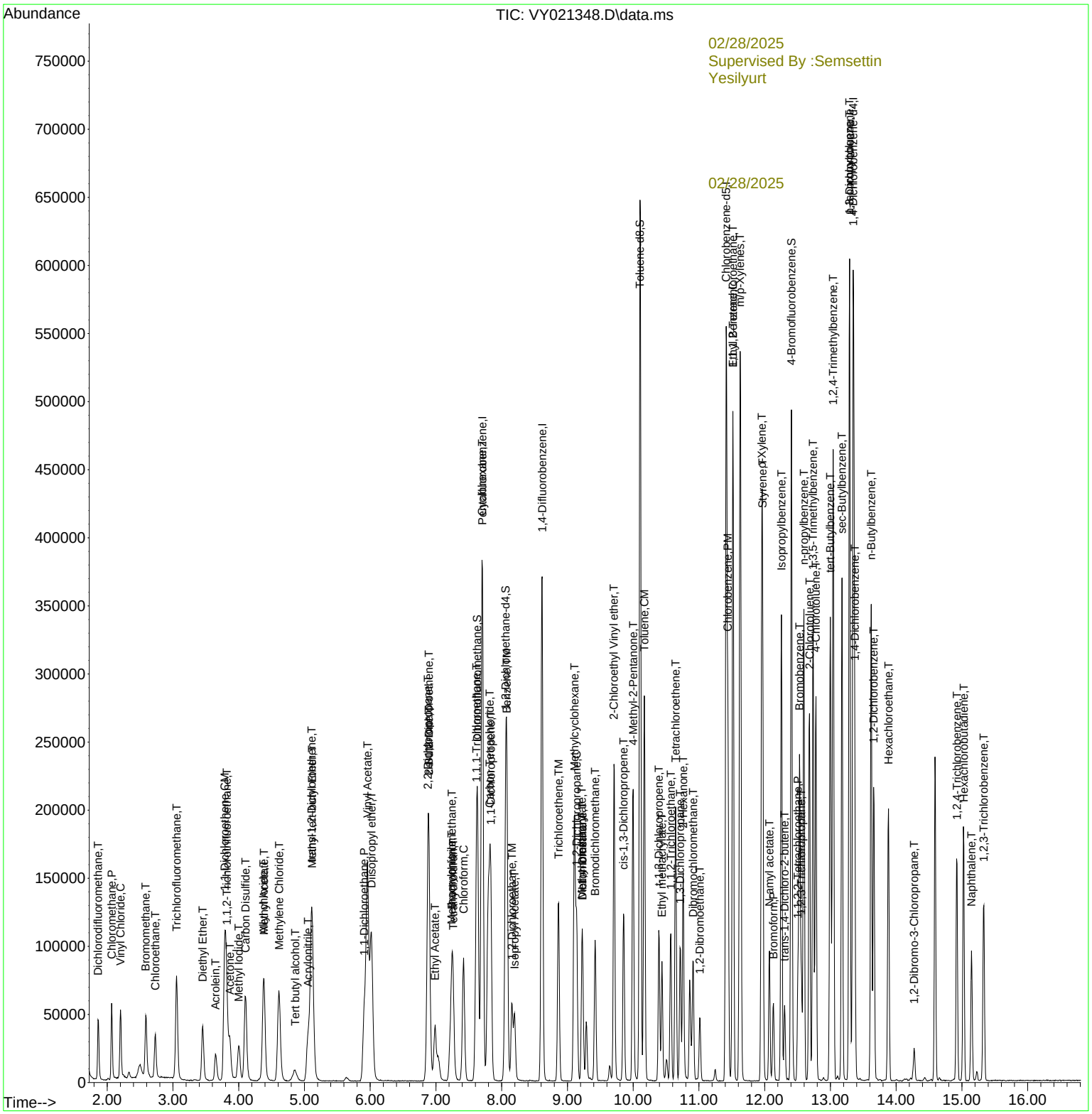
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		0.78	5.00	ug/Kg
67-64-1	Acetone	77.6		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	83.5		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.5		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.8		2.40	5.00	ug/Kg
67-66-3	Chloroform	18.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.1		0.87	5.00	ug/Kg
71-43-2	Benzene	19.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

Raw Data: **VY021377.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	91.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		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	18.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.7		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.2		70 (63) - 130 (155)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		70 (70) - 130 (134)	91%	SPK: 50
2037-26-5	Toluene-d8	44.3		70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		70 (38) - 130 (136)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	257000	8.616			
3114-55-4	Chlorobenzene-d5	224000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.346			

Raw Data: **VY021377.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

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\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	168970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	257471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	224033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	115456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	82743	43.167	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.340%			
35) Dibromofluoromethane	7.640	113	77212	45.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.480%			
50) Toluene-d8	10.109	98	289320	44.349	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 88.700%			
62) 4-Bromofluorobenzene	12.408	95	95946	43.701	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	29723	18.553	ug/l	95
3) Chloromethane	2.068	50	36553	17.667	ug/l	99
4) Vinyl Chloride	2.202	62	39280	19.343	ug/l	93
5) Bromomethane	2.592	94	27186	20.145	ug/l	99
6) Chloroethane	2.732	64	25258	20.057	ug/l	98
7) Trichlorofluoromethane	3.056	101	61224	19.963	ug/l	96
8) Diethyl Ether	3.452	74	17417	18.921	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	34990	19.706	ug/l	100
10) Methyl Iodide	4.007	142	34422	18.427	ug/l	99
11) Tert butyl alcohol	4.866	59	12120	82.204	ug/l	99
12) 1,1-Dichloroethene	3.793	96	31916	18.772	ug/l	91
13) Acrolein	3.647	56	16459	145.677	ug/l	97
14) Allyl chloride	4.385	41	49721	16.495	ug/l	96
15) Acrylonitrile	5.061	53	36749	90.297	ug/l	99
16) Acetone	3.872	43	28550	77.647	ug/l	94
17) Carbon Disulfide	4.104	76	98237	17.401	ug/l	97
18) Methyl Acetate	4.385	43	16534	18.400	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	84448	18.800	ug/l	100
20) Methylene Chloride	4.616	84	37924	19.074	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	34397	18.378	ug/l	96
22) Diisopropyl ether	6.018	45	110995	17.794	ug/l	97
23) Vinyl Acetate	5.964	43	324772	87.130	ug/l	98
24) 1,1-Dichloroethane	5.915	63	63844	18.160	ug/l	99
25) 2-Butanone	6.890	43	46319	83.468	ug/l	97
26) 2,2-Dichloropropane	6.890	77	56022	17.561	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	39898	18.668	ug/l	96
28) Bromochloromethane	7.244	49	27733	17.828	ug/l	92
29) Tetrahydrofuran	7.262	42	31461	86.734	ug/l	97
30) Chloroform	7.421	83	67278	18.886	ug/l	97
31) Cyclohexane	7.701	56	57900	17.133	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	61837	19.070	ug/l	100
36) 1,1-Dichloropropene	7.835	75	47878	18.883	ug/l	99
37) Ethyl Acetate	6.988	43	22949	18.195	ug/l	98
38) Carbon Tetrachloride	7.817	117	55703	19.541	ug/l	99
39) Methylcyclohexane	9.109	83	58155	18.134	ug/l	97
40) Benzene	8.079	78	143523	19.148	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	12586m	17.848	ug/l		
42) 1,2-Dichloroethane	8.158	62	41428	19.481	ug/l		97
43) Isopropyl Acetate	8.195	43	44479	18.220	ug/l		99
44) Trichloroethene	8.865	130	36816	19.619	ug/l		96
45) 1,2-Dichloropropane	9.140	63	34360	19.049	ug/l		99
46) Dibromomethane	9.231	93	19456	19.733	ug/l		97
47) Bromodichloromethane	9.426	83	51835	19.717	ug/l		98
48) Methyl methacrylate	9.219	41	19952	17.477	ug/l		94
49) 1,4-Dioxane	9.231	88	4114	375.255	ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	115289	92.255	ug/l		100
52) Toluene	10.170	92	89754	19.276	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	44692	18.555	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	53051	18.657	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	25241	19.651	ug/l		98
56) Ethyl methacrylate	10.438	69	33119	18.661	ug/l		98
57) 1,3-Dichloropropane	10.719	76	44249	19.632	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	75597	88.741	ug/l		97
59) 2-Hexanone	10.761	43	74950	91.322	ug/l		100
60) Dibromochloromethane	10.914	129	35624	20.364	ug/l		98
61) 1,2-Dibromoethane	11.011	107	23736	19.519	ug/l		97
64) Tetrachloroethene	10.646	164	34526	20.389	ug/l		98
65) Chlorobenzene	11.444	112	99308	19.747	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	35523	20.173	ug/l		100
67) Ethyl Benzene	11.524	91	170306	19.119	ug/l		99
68) m/p-Xylenes	11.633	106	131250	39.173	ug/l		98
69) o-Xylene	11.956	106	61033	19.445	ug/l		98
70) Styrene	11.969	104	102541	19.635	ug/l		99
71) Bromoform	12.133	173	20397	20.248	ug/l	#	99
73) Isopropylbenzene	12.255	105	164175	18.914	ug/l		100
74) N-amyl acetate	12.072	43	37786	17.127	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	29422	19.206	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	22194m	19.205	ug/l		
77) Bromobenzene	12.536	156	39235	19.434	ug/l		94
78) n-propylbenzene	12.597	91	196454	18.652	ug/l		98
79) 2-Chlorotoluene	12.682	91	113116	18.713	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	136074	19.114	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	8873	17.065	ug/l		96
82) 4-Chlorotoluene	12.779	91	115393	18.415	ug/l		98
83) tert-Butylbenzene	12.999	119	119869	18.640	ug/l		100
84) 1,2,4-Trimethylbenzene	13.048	105	135274	19.106	ug/l		99
85) sec-Butylbenzene	13.176	105	176579	18.799	ug/l		99
86) p-Isopropyltoluene	13.292	119	148920	18.987	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	77744	19.467	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	76272	19.333	ug/l		99
89) n-Butylbenzene	13.621	91	136569	18.503	ug/l		98
90) Hexachloroethane	13.883	117	30423	18.570	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	68082	19.458	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4491	18.532	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	39259	18.384	ug/l		99
94) Hexachlorobutadiene	15.029	225	25857	19.232	ug/l		99
95) Naphthalene	15.151	128	61755	17.459	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	33733	18.696	ug/l		98

Sample Results: **VY021377.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

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

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

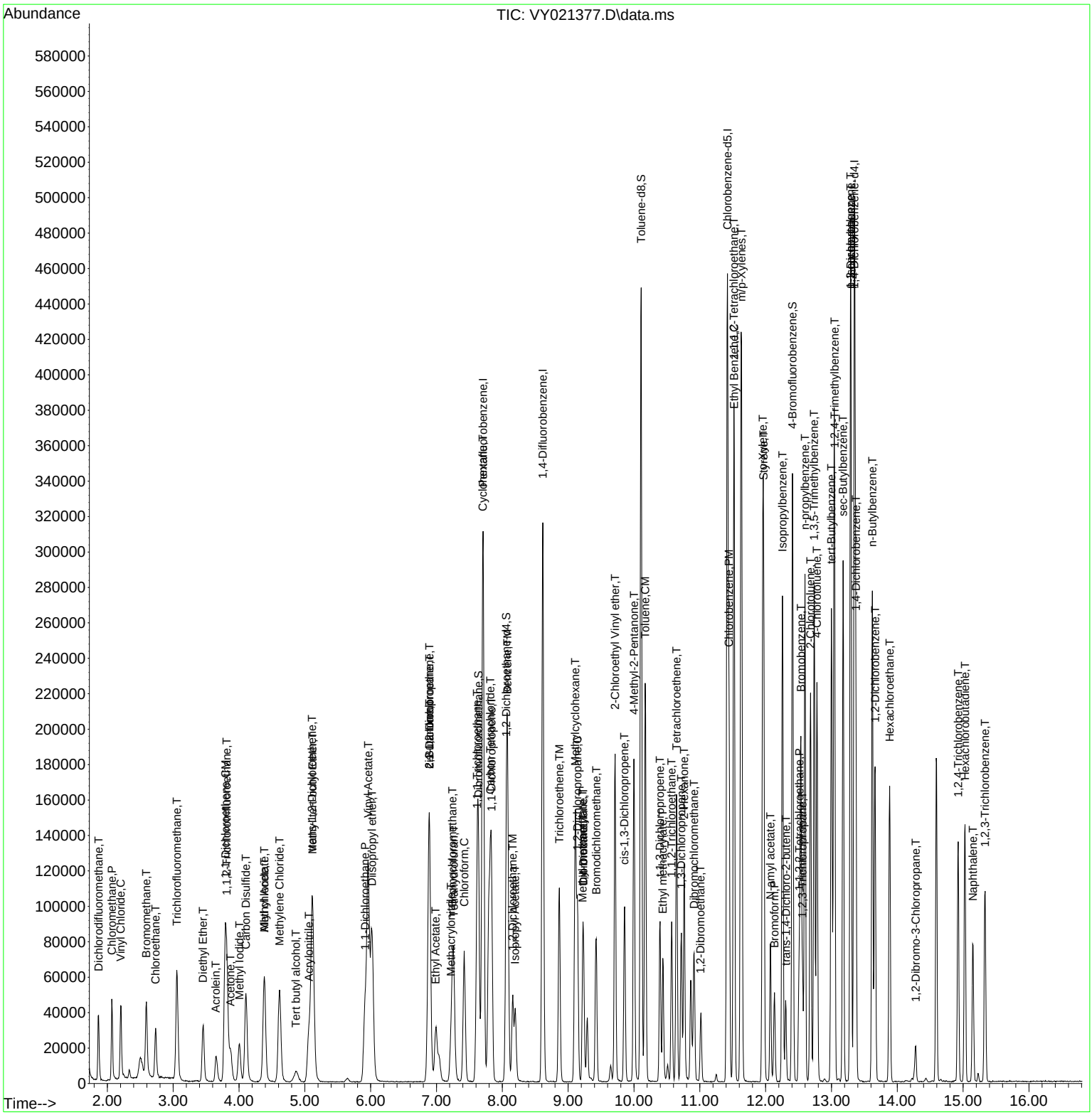
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025



Raw Data: **VY021349.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.5		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		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	19.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.2		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		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	99.2		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		0.67	5.00	ug/Kg

Raw Data: **VY021349.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	99.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		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	19.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.3		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	19.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		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	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		70 (50) - 130 (163)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		70 (54) - 130 (147)	91%	SPK: 50
2037-26-5	Toluene-d8	45.3		70 (58) - 130 (134)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	199000	7.707			
540-36-3	1,4-Difluorobenzene	311000	8.61			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.347			

Raw Data: **VY021349.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	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 : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Quant Time: Feb 28 00:40:42 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	198659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	310671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	137933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101944	45.236	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.480%			
35) Dibromofluoromethane	7.634	113	92849	45.586	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.180%			
50) Toluene-d8	10.103	98	356688	45.313	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.620%			
62) 4-Bromofluorobenzene	12.402	95	119898	45.259	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	35262	18.721	ug/l	98
3) Chloromethane	2.068	50	44619	18.343	ug/l	97
4) Vinyl Chloride	2.202	62	44508	18.642	ug/l	99
5) Bromomethane	2.586	94	29567	18.635	ug/l	100
6) Chloroethane	2.733	64	29123	19.670	ug/l	98
7) Trichlorofluoromethane	3.056	101	70391	19.522	ug/l	99
8) Diethyl Ether	3.452	74	21878	20.216	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	42182	20.206	ug/l	98
10) Methyl Iodide	4.001	142	43590	19.847	ug/l	99
11) Tert butyl alcohol	4.848	59	16710m	96.398	ug/l	
12) 1,1-Dichloroethene	3.787	96	38944	19.483	ug/l	98
13) Acrolein	3.653	56	24700	185.946	ug/l	94
14) Allyl chloride	4.379	41	65599	18.510	ug/l	99
15) Acrylonitrile	5.055	53	47280	98.811	ug/l	99
16) Acetone	3.867	43	44126	102.074	ug/l	98
17) Carbon Disulfide	4.104	76	122176	18.407	ug/l	97
18) Methyl Acetate	4.385	43	20494	19.398	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	105075	19.896	ug/l	97
20) Methylene Chloride	4.616	84	48638	20.806	ug/l	94
21) trans-1,2-Dichloroethene	5.110	96	42797	19.449	ug/l	95
22) Diisopropyl ether	6.012	45	143925	19.625	ug/l	99
23) Vinyl Acetate	5.958	43	422766	96.470	ug/l	99
24) 1,1-Dichloroethane	5.915	63	79851	19.319	ug/l	97
25) 2-Butanone	6.890	43	65440	100.301	ug/l	93
26) 2,2-Dichloropropane	6.878	77	72271	19.269	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	49527	19.710	ug/l	98
28) Bromochloromethane	7.244	49	36677	20.054	ug/l	98
29) Tetrahydrofuran	7.256	42	42111	98.745	ug/l	99
30) Chloroform	7.415	83	83409	19.915	ug/l	96
31) Cyclohexane	7.695	56	72200	18.172	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	75049	19.686	ug/l	99
36) 1,1-Dichloropropene	7.835	75	59900	19.578	ug/l	99
37) Ethyl Acetate	6.982	43	29786	19.572	ug/l	98
38) Carbon Tetrachloride	7.817	117	68272	19.849	ug/l	99
39) Methylcyclohexane	9.109	83	74465	19.243	ug/l	96
40) Benzene	8.079	78	179474	19.844	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	15267	17.942	ug/l	#	90
42) 1,2-Dichloroethane	8.158	62	52390	20.417	ug/l		99
43) Isopropyl Acetate	8.195	43	58264	19.779	ug/l		99
44) Trichloroethene	8.866	130	45194	19.959	ug/l		100
45) 1,2-Dichloropropane	9.140	63	42605	19.575	ug/l		100
46) Dibromomethane	9.225	93	24136	20.287	ug/l		99
47) Bromodichloromethane	9.420	83	64023	20.183	ug/l		98
48) Methyl methacrylate	9.219	41	27400	19.891	ug/l		99
49) 1,4-Dioxane	9.225	88	5250	396.870	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	149583	99.200	ug/l		100
52) Toluene	10.170	92	111889	19.915	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	57123	19.655	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	66848	19.483	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31392	20.255	ug/l		98
56) Ethyl methacrylate	10.438	69	42049	19.635	ug/l		99
57) 1,3-Dichloropropane	10.713	76	55897	20.553	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	101862	99.097	ug/l		98
59) 2-Hexanone	10.762	43	98713	99.680	ug/l		99
60) Dibromochloromethane	10.908	129	43397	20.559	ug/l		99
61) 1,2-Dibromoethane	11.012	107	29498	20.104	ug/l		99
64) Tetrachloroethene	10.646	164	40481	19.686	ug/l		97
65) Chlorobenzene	11.438	112	119791	19.616	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	43652	20.414	ug/l		98
67) Ethyl Benzene	11.518	91	213261	19.715	ug/l		99
68) m/p-Xylenes	11.627	106	160355	39.412	ug/l		98
69) o-Xylene	11.957	106	74908	19.653	ug/l		99
70) Styrene	11.969	104	123889	19.536	ug/l		99
71) Bromoform	12.133	173	24357	19.911	ug/l	#	95
73) Isopropylbenzene	12.255	105	202320	19.511	ug/l		99
74) N-amyl acetate	12.066	43	50118	19.015	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37100	20.272	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	25467m	18.446	ug/l		
77) Bromobenzene	12.530	156	46970	19.474	ug/l		99
78) n-propylbenzene	12.597	91	244088	19.398	ug/l		100
79) 2-Chlorotoluene	12.682	91	141363	19.575	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	166093	19.529	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	12177	19.603	ug/l		99
82) 4-Chlorotoluene	12.780	91	146247	19.536	ug/l		100
83) tert-Butylbenzene	12.999	119	150694	19.615	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	168485	19.919	ug/l		99
85) sec-Butylbenzene	13.176	105	220676	19.665	ug/l		99
86) p-Isopropyltoluene	13.292	119	182981	19.528	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	93913	19.684	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	92534	19.632	ug/l		99
89) n-Butylbenzene	13.615	91	171802	19.483	ug/l		99
90) Hexachloroethane	13.883	117	37407	19.112	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	82600	19.760	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5991	20.694	ug/l		92
93) 1,2,4-Trichlorobenzene	14.919	180	48418	18.978	ug/l		99
94) Hexachlorobutadiene	15.023	225	30957	19.273	ug/l		99
95) Naphthalene	15.145	128	78577	18.594	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	41048	19.042	ug/l		99

Sample Results: **VY021349.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

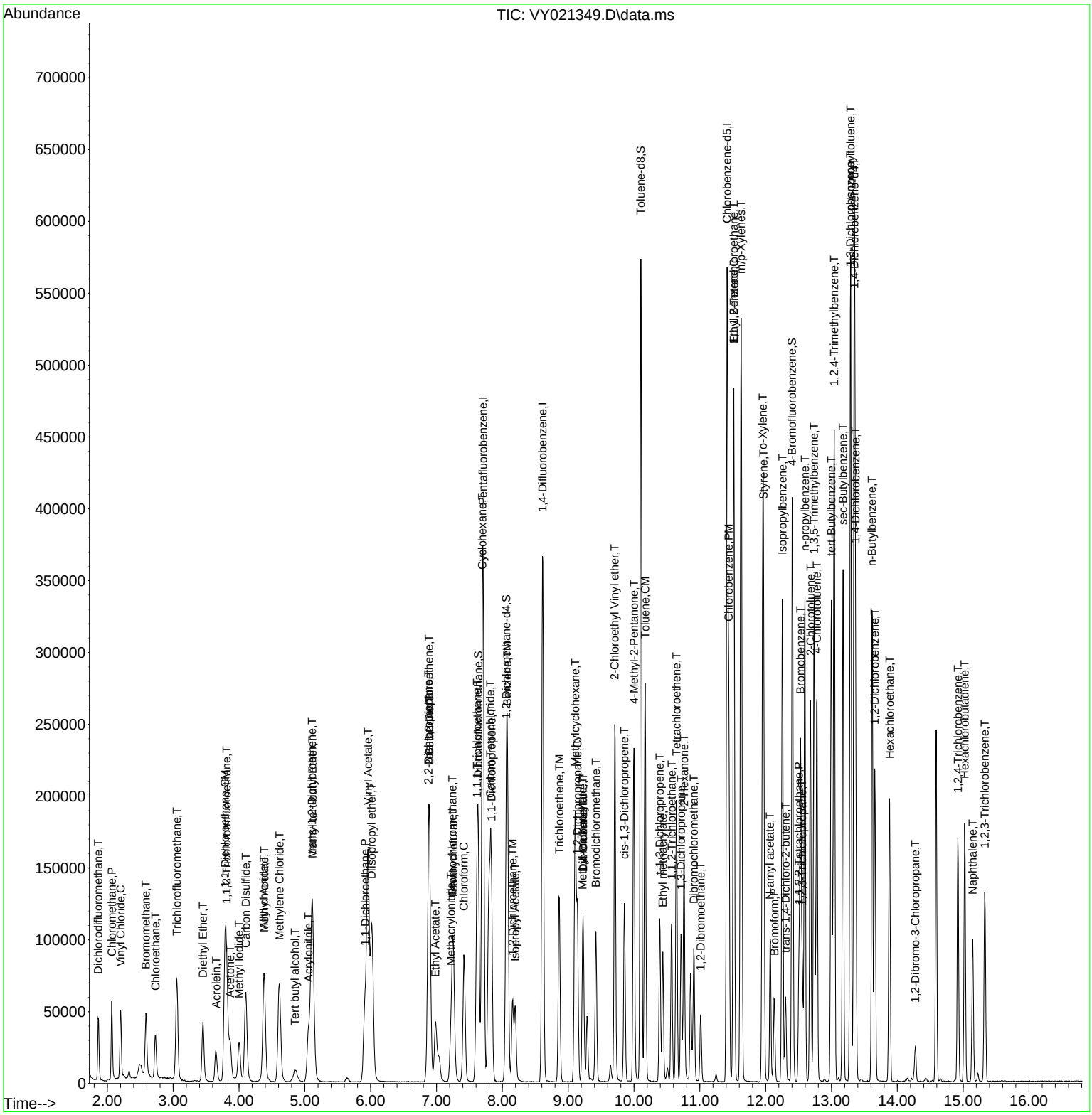
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 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

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



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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

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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
VY0227SBSD01	VY021349.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 AM	Peak Integrated by Software
VY0227SBSD01	VY021349.D	Tert butyl alcohol	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 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

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Manual Integration Report

Sequence:	VY022825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021375.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:25 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	Methacrylonitrile	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	Methacrylonitrile	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software

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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

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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	Q1421-09	VY021358.D	27 Feb 2025 15:12	SY/MD	ReRun
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

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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	

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM				
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM				
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
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	VY021374.D	28 Feb 2025 09:03	SY/MD	Ok
2	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	SY/MD	Ok,M
3	VY0228SBL01	VY021376.D	28 Feb 2025 10:59	SY/MD	Ok
4	VY0228SBS01	VY021377.D	28 Feb 2025 11:32	SY/MD	Ok,M
5	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55	SY/MD	Ok,M
6	Q1421-07RE	VY021379.D	28 Feb 2025 12:56	SY/MD	Confirms
7	Q1422-01RE	VY021380.D	28 Feb 2025 13:20	SY/MD	Confirms
8	Q1422-02	VY021381.D	28 Feb 2025 15:31	SY/MD	Ok
9	Q1448-01	VY021382.D	28 Feb 2025 15:55	SY/MD	ReRun
10	Q1448-02	VY021383.D	28 Feb 2025 16:18	SY/MD	ReRun
11	Q1448-03	VY021384.D	28 Feb 2025 16:41	SY/MD	ReRun
12	Q1448-05	VY021385.D	28 Feb 2025 17:05	SY/MD	ReRun
13	Q1440-01	VY021386.D	28 Feb 2025 17:28	SY/MD	Ok
14	Q1441-01	VY021387.D	28 Feb 2025 17:52	SY/MD	ReRun
15	Q1458-02	VY021388.D	28 Feb 2025 18:15	SY/MD	Ok,M
16	Q1463-01	VY021389.D	28 Feb 2025 18:38	SY/MD	ReRun
17	Q1457-01	VY021390.D	28 Feb 2025 19:02	SY/MD	Ok
18	Q1463-03	VY021391.D	28 Feb 2025 19:25	SY/MD	ReRun
19	Q1463-04	VY021392.D	28 Feb 2025 19:49	SY/MD	ReRun
20	Q1463-05	VY021393.D	28 Feb 2025 20:12	SY/MD	ReRun
21	VSTDCCC050	VY021394.D	28 Feb 2025 20:35	SY/MD	Ok,M

M : Manual Integration

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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	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	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	VSTDICC100	VSTDICC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDICC150	VSTDICC150	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	VSTDICC100	VSTDICC100	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

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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	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	Q1421-09	P001-CLAY-CF02-01	VY021358.D	27 Feb 2025 15:12	Internal Standard Fail	SY/MD	ReRun
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

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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	

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

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021374.D	28 Feb 2025 09:03		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	Ok,M
3	VY0228SBL01	VY0228SBL01	VY021376.D	28 Feb 2025 10:59		SY/MD	Ok
4	VY0228SBS01	VY0228SBS01	VY021377.D	28 Feb 2025 11:32		SY/MD	Ok,M
5	VY0228SBSD01	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55		SY/MD	Ok,M
6	Q1421-07RE	P001-CLAY-CF01-02RE	VY021379.D	28 Feb 2025 12:56	Vial-B Internal Standard Fail; Not match for comp.#16	SY/MD	Confirms
7	Q1422-01RE	B-154-SB01RE	VY021380.D	28 Feb 2025 13:20	Vial-B Internal Standard Fail	SY/MD	Confirms
8	Q1422-02	B-154-SB02	VY021381.D	28 Feb 2025 15:31	Vial-B	SY/MD	Ok
9	Q1448-01	PSP1	VY021382.D	28 Feb 2025 15:55	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
10	Q1448-02	P1	VY021383.D	28 Feb 2025 16:18	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
11	Q1448-03	P2	VY021384.D	28 Feb 2025 16:41	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
12	Q1448-05	P4	VY021385.D	28 Feb 2025 17:05	Vial-B CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	ReRun
13	Q1440-01	OR-02-022625	VY021386.D	28 Feb 2025 17:28	Vial-B	SY/MD	Ok
14	Q1441-01	HD-02-022625	VY021387.D	28 Feb 2025 17:52	Vial-B Internal Standard Fail	SY/MD	ReRun
15	Q1458-02	SP-SOIL-VOC	VY021388.D	28 Feb 2025 18:15	vial-A	SY/MD	Ok,M
16	Q1463-01	T1	VY021389.D	28 Feb 2025 18:38	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1457-01	HR-0-02272025	VY021390.D	28 Feb 2025 19:02	Vial-A	SY/MD	Ok
18	Q1463-03	T3	VY021391.D	28 Feb 2025 19:25	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
19	Q1463-04	T4	VY021392.D	28 Feb 2025 19:49	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun
20	Q1463-05	T5	VY021393.D	28 Feb 2025 20:12	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
21	VSTDCCC050	VSTDCCC050EC	VY021394.D	28 Feb 2025 20:35		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/26/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 02/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134794

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
Q1422-01	B-154-SB01	1	1.15	8.52	9.67	8.68	88.4	
Q1422-02	B-154-SB02	2	1.16	8.49	9.65	8.57	87.3	
Q1426-02	50483	3	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1427-01	VNJ-227	4	1.15	8.71	9.86	8.61	85.6	
Q1428-01	NB-07-022525	5	1.18	8.42	9.6	9.06	93.6	
Q1428-02	NB-07-022525-E2	6	1.17	8.50	9.67	9.04	92.6	

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

WORKLIST(Hardcopy Internal Chain)

VB 134794

WorkList Name : %1-022525 **WorkList ID :** 187856 **Department :** Wet-Chemistry **Date :** 02-25-2025 08:00:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1422-01	B-154-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	H33	02/23/2025	Chemtech -SO
Q1422-02	B-154-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H33	02/23/2025	Chemtech -SO
Q1426-02	50483	Solid	Percent Solids	Cool 4 deg C	PORT06	H33	02/23/2025	Chemtech -SO
Q1427-01	VNJ-227	Solid	Percent Solids	Cool 4 deg C	PSEG03	H33	02/25/2025	Chemtech -SO
Q1428-01	NB-07-022525	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/25/2025	Chemtech -SO
Q1428-02	NB-07-022525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/25/2025	Chemtech -SO
					PSEG05	H21	02/25/2025	Chemtech -SO

JB

Date/Time ~~02/26/25~~ 02/25/25 15:40

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by: CP SDG

JB

Date/Time ~~02/26/25~~ 02/25/25 17:10

Raw Sample Received by: CP SDG

Raw Sample Relinquished by: JB (WC)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO.
QUOTE NO. Q1422
COC Number 2046176

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Abrams ave
CITY Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 600-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Replacement of SB
PROJECT NO.: 950000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: JaQC@BEMSYS.com
PHONE: 610-300-9342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Beasly PHONE: 908-728-3148

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

ANALYSIS

1 TCL VOCs + TO
2 TCL PAHs
3 Cr (III) Cr (VI)
4 TAL Metals
5 PCBs
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-154-SB01	S		X	2/23/25	1500	6	X	X	X	X	X	X				
2.	B-154-SB02	S		X	↓	1530	6	X	X	X	X	X	X				
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2/24/25 4:50	1. 2.25.25 0700
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.7°C °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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

CHEMTECH 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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1422 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 2/25/2025 10:47:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 2/25/2025 7:00:00 AM
Purchase Order :

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

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1422-01	B-154-SB01	Solid	02/23/2025	15:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1422-02	B-154-SB02	Solid	02/23/2025	15:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 2/25/25 1105

Received By :
Date / Time : 02/25/25 11:05
Storage Area : VOA Refridgerator Room

Bgtt 6
P27