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

Order ID : P5299

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P5299-01	SB-01
P5299-02	SB-02
P5299-03	SB-01
P5299-04	SB-02

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: 12/26/2024

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 #: **P5299**

	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:** **12/26/2024**

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LAB CHRONICLE

OrderID:	P5299	**OrderDate:**	12/16/2024 12:24:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5299-01	**SB-01**	**SOIL**			**12/14/24**			**12/16/24**
			VOC-TCLVOA-10	8260D			12/18/24	
P5299-02	**SB-02**	**SOIL**			**12/15/24**			**12/16/24**
			VOC-TCLVOA-10	8260D			12/18/24	
P5299-03	**SB-01**	**SOIL**			**12/15/24**			**12/16/24**
			VOC-TCLVOA-10	8260D			12/18/24	
P5299-04	**SB-02**	**SOIL**			**12/15/24**			**12/16/24**
			VOC-TCLVOA-10	8260D			12/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**SB-01**								
P5299-01	SB-01	SOIL	unknown13.670	*	12.2	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	unknown15.054	*	6.40	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Dodecane	*	7.70	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Tridecane	*	7.80	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Tetradecane	*	8.30	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Naphthalene, decahydro-2,6-di	*	8.90	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	Dodecane, 4,6-dimethyl-	*	7.50	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	trans,trans-1,6-Dimethylspiro[4	*	8.70	J	0	0	ug/Kg
P5299-01	SB-01	SOIL	trans-Decalin, 2-methyl-	*	11.8	J	0	0	ug/Kg
			Total Tics :		79.3				
			Total Concentration:		79.3				
Client ID:	**SB-02**								
P5299-02	SB-02	SOIL	Acetone		51.1		5.70	22.9	ug/Kg
P5299-02	SB-02	SOIL	Methylene Chloride		4.90	J	3.10	9.20	ug/Kg
P5299-02	SB-02	SOIL	2-Butanone		10.1	J	5.20	22.9	ug/Kg
			Total Voc :		66.1				
P5299-02	SB-02	SOIL	unknown1.812	*	75.9	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane	*	160	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Tridecane	*	200	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Tetradecane	*	180	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Undecane	*	140	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane, 2-methyl-	*	72.5	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Octane, 2,6-dimethyl-	*	120	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Dodecane, 2,6,10-trimethyl-	*	88.3	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	Undecane, 2,6-dimethyl-	*	120	J	0	0	ug/Kg
P5299-02	SB-02	SOIL	trans-Decalin, 2-methyl-	*	130	J	0	0	ug/Kg
			Total Tics :		1290				
			Total Concentration:		1350				
Client ID:	**SB-01**								
P5299-03	SB-01	SOIL	Acetone		85.6		7.90	31.7	ug/Kg
P5299-03	SB-01	SOIL	Carbon Disulfide		3.70	J	1.60	6.30	ug/Kg
P5299-03	SB-01	SOIL	2-Butanone		22.5	J	7.20	31.7	ug/Kg
			Total Voc :		112				
P5299-03	SB-01	SOIL	unknown1.812	*	30.8	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	unknown14.645	*	9.00	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	unknown15.120	*	10.1	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P5299-03	SB-01	SOIL	Dodecane	*	8.40	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Tridecane	*	13.9	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Tetradecane	*	15.3	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Pentadecane	*	49.7	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Naphthalene, decahydro-1,5-di	*	7.50	J	0	0	ug/Kg
P5299-03	SB-01	SOIL	Cyclodecene, 1-methyl-	*	6.80	J	0	0	ug/Kg
			Total Tics :		152				
			Total Concentration:		263				
Client ID:	**SB-02**								
P5299-04	SB-02	SOIL	Acetone		32.2		5.80	23.3	ug/Kg
P5299-04	SB-02	SOIL	2-Butanone		7.60	J	5.30	23.3	ug/Kg
			Total Voc :		39.8				
P5299-04	SB-02	SOIL	unknown15.054	*	46.2	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane	*	99.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Tridecane	*	110	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Tetradecane	*	92.8	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Undecane	*	110	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Naphthalene, decahydro-2-metl	*	82.8	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Undecane, 2,6-dimethyl-	*	80.4	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane, 2,6,11-trimethyl-	*	45.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	Dodecane, 4,6-dimethyl-	*	71.9	J	0	0	ug/Kg
P5299-04	SB-02	SOIL	cis,trans-1,6-Dimethylspiro[4.5	*	45.9	J	0	0	ug/Kg
			Total Tics :		786				
			Total Concentration:		826				

QC SUMMARY

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

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5299-01	SB-01	1,2-Dichloroethane-d4	50	49.0	98	70 (50)	130 (163)
		Dibromofluoromethane	50	45.8	92	70 (54)	130 (147)
		Toluene-d8	50	48.4	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	38.7	77	70 (29)	130 (146)
P5299-02	SB-02	1,2-Dichloroethane-d4	50	49.8	100	70 (50)	130 (163)
		Dibromofluoromethane	50	45.2	90	70 (54)	130 (147)
		Toluene-d8	50	48.9	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.5	81	70 (29)	130 (146)
P5299-03	SB-01	1,2-Dichloroethane-d4	50	48.6	97	70 (50)	130 (163)
		Dibromofluoromethane	50	43.6	87	70 (54)	130 (147)
		Toluene-d8	50	49.2	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.0	80	70 (29)	130 (146)
P5299-04	SB-02	1,2-Dichloroethane-d4	50	58.5	117	70 (50)	130 (163)
		Dibromofluoromethane	50	40.3	81	70 (54)	130 (147)
		Toluene-d8	50	48.7	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	41.0	82	70 (29)	130 (146)
VY1218SBL01	VY1218SBL01	1,2-Dichloroethane-d4	50	49.7	99	70 (50)	130 (163)
		Dibromofluoromethane	50	44.7	89	70 (54)	130 (147)
		Toluene-d8	50	48.4	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	37.4	75	70 (29)	130 (146)
VY1218SBS01	VY1218SBS01	1,2-Dichloroethane-d4	50	48.4	97	70 (50)	130 (163)
		Dibromofluoromethane	50	48.3	97	70 (54)	130 (147)
		Toluene-d8	50	48.7	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	46.3	93	70 (29)	130 (146)
VY1218SBSD01	VY1218SBSD01	1,2-Dichloroethane-d4	50	51.7	103	70 (50)	130 (163)
		Dibromofluoromethane	50	50.1	100	70 (54)	130 (147)
		Toluene-d8	50	51.5	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.3	97	70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1218SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			40 (64)	160 (136)	
	Chloromethane	20	19.5	ug/Kg	98			40 (70)	160 (130)	
	Vinyl chloride	20	20.9	ug/Kg	104			70 (72)	130 (129)	
	Bromomethane	20	18.8	ug/Kg	94			40 (58)	160 (141)	
	Chloroethane	20	20.1	ug/Kg	101			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	17.2	ug/Kg	86			70 (81)	130 (123)	
	1,1-Dichloroethene	20	16.8	ug/Kg	84			70 (79)	130 (121)	
	Acetone	100	77.9	ug/Kg	78			40 (60)	160 (131)	
	Carbon disulfide	20	17.5	ug/Kg	88			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.8	ug/Kg	99			70 (77)	130 (129)	
	Methyl Acetate	20	19.7	ug/Kg	99			70 (69)	130 (149)	
	Methylene Chloride	20	19.5	ug/Kg	98			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Cyclohexane	20	18.8	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	90.8	ug/Kg	91			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.3	ug/Kg	97			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Bromochloromethane	20	17.0	ug/Kg	85			70 (80)	130 (127)	
	Chloroform	20	17.1	ug/Kg	86			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			70 (80)	130 (126)	
	Methylcyclohexane	20	18.9	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	19.3	ug/Kg	97			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	97.1	ug/Kg	97			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	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	19.6	ug/Kg	98			70 (82)	130 (125)	
	2-Hexanone	100	98.0	ug/Kg	98			40 (66)	160 (138)	
	Dibromochloromethane	20	19.7	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.9	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	18.7	ug/Kg	94			70 (83)	130 (125)	
	Chlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (122)	
	Ethyl Benzene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	38.3	ug/Kg	96			70 (83)	130 (124)	
	o-Xylene	20	19.1	ug/Kg	96			70 (83)	130 (123)	
	Styrene	20	19.5	ug/Kg	98			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	18.9	ug/Kg	95			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1218SBS01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/Kg	96			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.6	ug/Kg	93			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1218SBSD01	Dichlorodifluoromethane	20	20.1	ug/Kg	101	4		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.8	ug/Kg	94	4		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.4	ug/Kg	97	7		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.9	ug/Kg	104	10		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.7	ug/Kg	99	2		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.7	ug/Kg	99	2		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/Kg	98	13		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.2	ug/Kg	96	13		70 (79)	130 (121)	30 (20)
	Acetone	100	92.9	ug/Kg	93	18		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.5	ug/Kg	103	16		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106	7		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.3	ug/Kg	106	7		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.0	ug/Kg	105	7		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102	7		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.4	ug/Kg	107	11		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.9	ug/Kg	100	6		70 (76)	130 (122)	30 (20)
	2-Butanone	100	97.3	ug/Kg	97	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.2	ug/Kg	101	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	8		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	18.2	ug/Kg	91	7		70 (80)	130 (127)	30 (20)
	Chloroform	20	18.9	ug/Kg	95	10		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	7		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	3		70 (77)	130 (123)	30 (20)
	Benzene	20	20.7	ug/Kg	104	6		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.7	ug/Kg	104	6		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.7	ug/Kg	104	7		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.9	ug/Kg	104	5		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.9	ug/Kg	104	7		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	97.7	ug/Kg	98	1		40 (70)	160 (135)	30 (20)
	Toluene	20	20.4	ug/Kg	102	5		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.7	ug/Kg	104	6		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103	6		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105	7		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	98.7	ug/Kg	99	1		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	4		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.8	ug/Kg	104	4		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.0	ug/Kg	100	6		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.5	ug/Kg	103	6		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.3	ug/Kg	102	5		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.6	ug/Kg	102	6		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.6	ug/Kg	103	7		70 (83)	130 (123)	30 (20)
	Styrene	20	20.9	ug/Kg	104	6		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.7	ug/Kg	104	4		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.1	ug/Kg	101	5		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.0	ug/Kg	105	4		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.2	ug/Kg	101	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.3	ug/Kg	102	7		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	7		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5299

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1218SBSD01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98	2		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	6		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.1	ug/Kg	101	7		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1218SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020625.D Lab Sample ID: VY1218SBL01

Date Analyzed: 12/18/2024 Time Analyzed: 10:52

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
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024
SB-02	P5299-04	VY020635.D	12/18/2024
SB-02	P5299-02	VY020639.D	12/18/2024
SB-01	P5299-03	VY020640.D	12/18/2024
SB-01	P5299-01	VY020642.D	12/18/2024

COMMENTS:

Raw Data: **VY020611.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

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	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (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
VSTDICC010	VSTDICC010	VY020613.D	12/17/2024	10:01
VSTDICC020	VSTDICC020	VY020614.D	12/17/2024	10:23
VSTDICCC050	VSTDICCC050	VY020615.D	12/17/2024	10:51
VSTDICC100	VSTDICC100	VY020616.D	12/17/2024	11:14
VSTDICC150	VSTDICC150	VY020617.D	12/17/2024	11:37
VSTDICC005	VSTDICC005	VY020619.D	12/17/2024	14:51

Raw Data: **VY020622.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020622.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:46

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	19.4
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	76.1 (97) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020624.D	12/18/2024	10:06
VY1218SBL01	VY1218SBL01	VY020625.D	12/18/2024	10:52
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024	11:19
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024	11:42
SB-02	P5299-04	VY020635.D	12/18/2024	14:54
SB-02	P5299-02	VY020639.D	12/18/2024	16:27
SB-01	P5299-03	VY020640.D	12/18/2024	16:51
SB-01	P5299-01	VY020642.D	12/18/2024	17:38

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P5299 SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

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	168319	7.71	264221	8.62	226779	11.42
UPPER LIMIT	336638	8.213	528442	9.116	453558	11.92
LOWER LIMIT	84159.5	7.213	132111	8.116	113390	10.92
EPA SAMPLE NO.						
SB-01	233930	7.71	408249	8.61	351864	11.41
SB-02	192200	7.71	339150	8.62	294759	11.41
SB-01	223514	7.71	392391	8.61	337704	11.41
SB-02	157761	7.71	310451	8.61	269674	11.41
VY1218SBL01	201389	7.71	355898	8.62	296016	11.42
VY1218SBS01	167281	7.71	257615	8.62	226665	11.41
VY1218SBSD01	153098	7.71	244096	8.62	214944	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.: P5299 SAS No.: P5299 SDG NO.: P5299

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

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

	IS4 AREA #	RT #				
12 HOUR STD	124266	13.347				
UPPER LIMIT	248532	13.847				
LOWER LIMIT	62133	12.847				
EPA SAMPLE NO.						
SB-01	141411	13.35				
SB-02	123499	13.35				
SB-01	138439	13.35				
SB-02	117196	13.35				
VY1218SBL01	114022	13.35				
VY1218SBS01	127451	13.35				
VY1218SBSD01	120747	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: **VY020642.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.83	U	0.83	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.71	U	0.71	4.60	ug/Kg
67-64-1	Acetone	5.70	U	5.70	22.9	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.60	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.60	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.60	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.60	U	0.60	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.51	U	0.51	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	22.9	ug/Kg
108-88-3	Toluene	0.61	U	0.61	4.60	ug/Kg

Raw Data: **VY020642.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.73	U	0.73	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.71	U	0.71	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (50) - 130 (163)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		70 (54) - 130 (147)	92%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.7		70 (29) - 130 (146)	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	7.707			
540-36-3	1,4-Difluorobenzene	408000	8.609			
3114-55-4	Chlorobenzene-d5	352000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	12/14/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.5
Sample Wt/Vol:	6.95 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
VY020642.D	1		12/18/24 17:38	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown13.670	12.2	J		13.7	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	11.8	J		14.2	ug/Kg
000112-40-3	Dodecane	7.70	J		14.5	ug/Kg
001618-22-0	Naphthalene, decahydro-2,6-dimethy	8.90	J		14.7	ug/Kg
1000111-72-1	trans,trans-1,6-Dimethylspiro[4.5]	8.70	J		14.8	ug/Kg
	unknown15.054	6.40	J		15.1	ug/Kg
061141-72-8	Dodecane, 4,6-dimethyl-	7.50	J		15.1	ug/Kg
000629-50-5	Tridecane	7.80	J		15.3	ug/Kg
000629-59-4	Tetradecane	8.30	J		16.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:51:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	233930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	408249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	351864	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	141411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	125606	49.026	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.060%		
35) Dibromofluoromethane	7.634	113	131817	45.814	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	91.620%		
50) Toluene-d8	10.103	98	486937	48.352	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.700%		
62) 4-Bromofluorobenzene	12.401	95	152376	38.680	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	77.360%		
Target Compounds						Qvalue

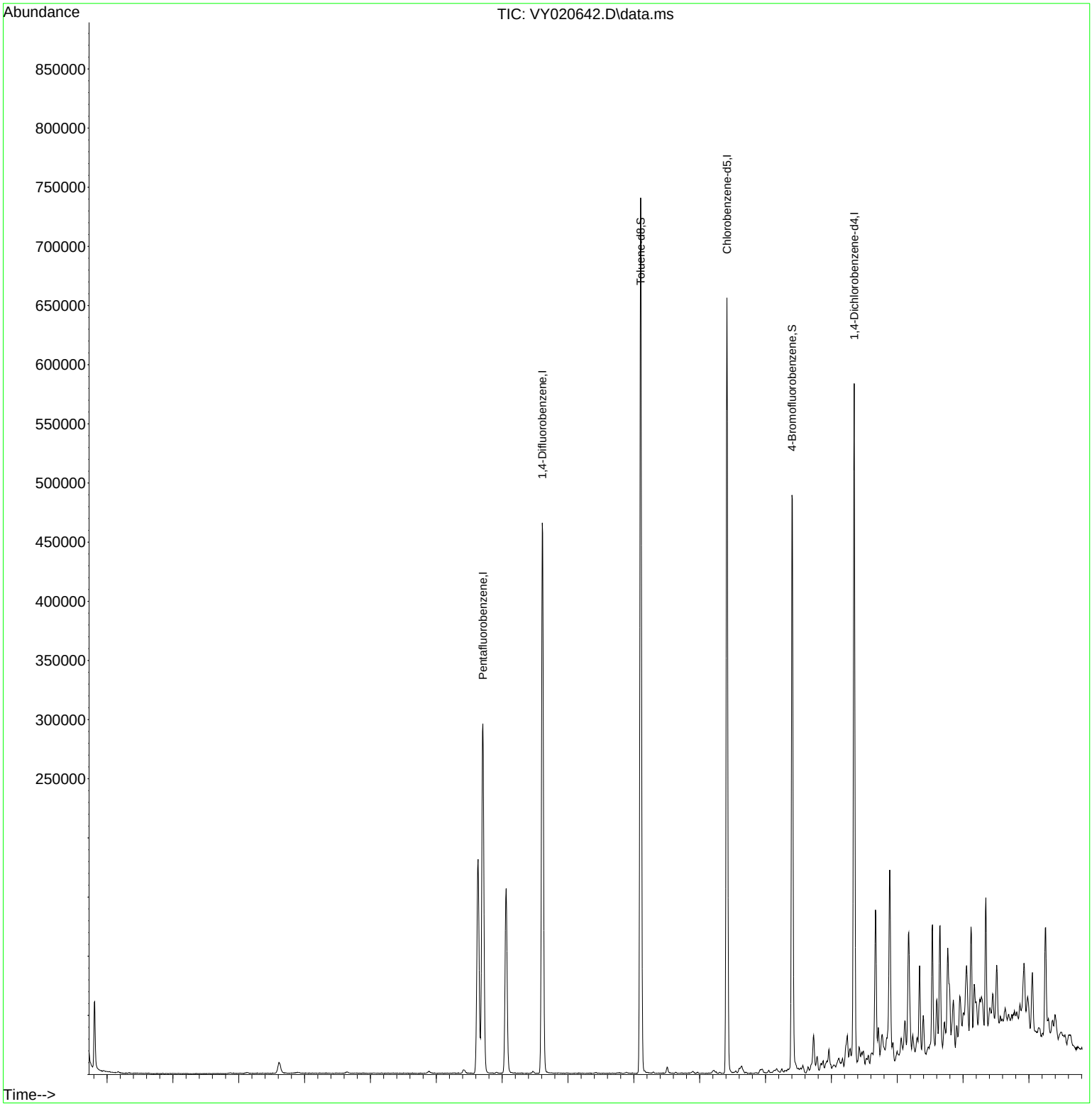
(#) = qualifier out of range (m) = manual integration (+) = signals summed

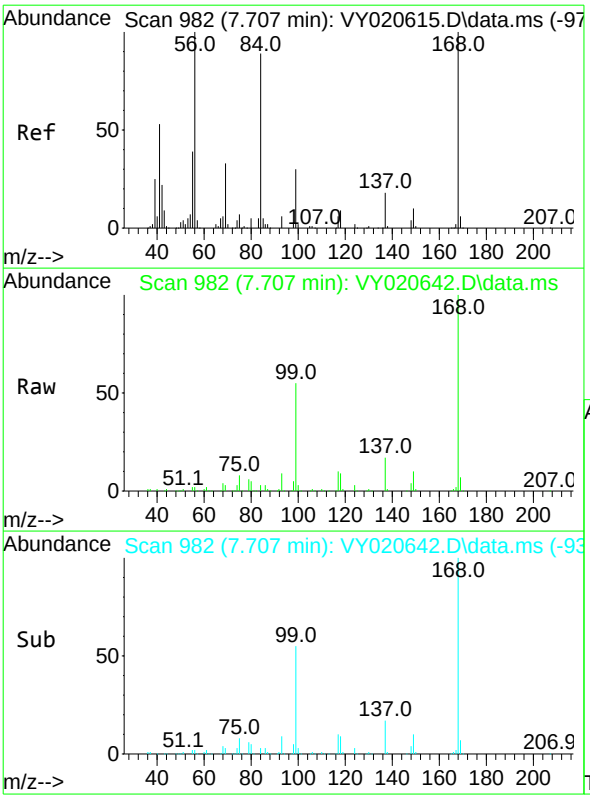
Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:51:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



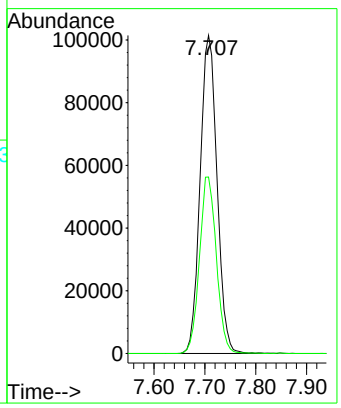


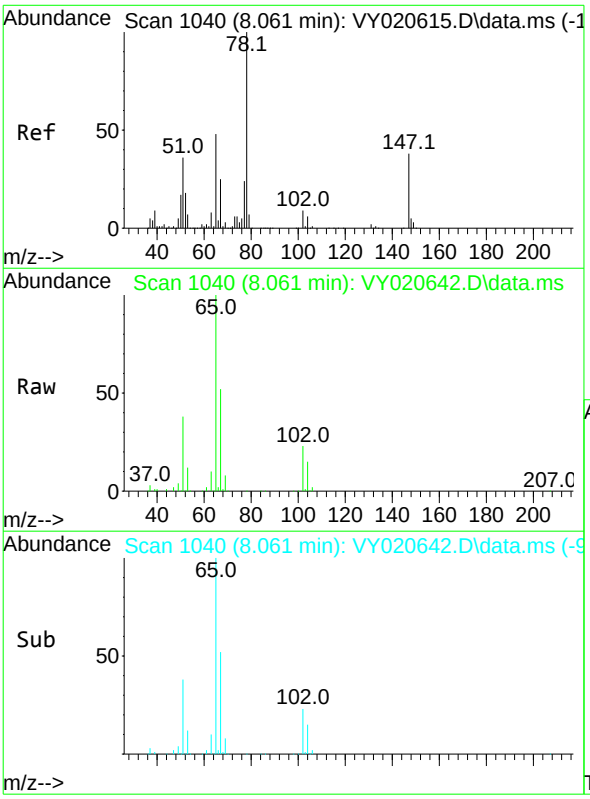
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:168 Resp: 233930

Ion	Ratio	Lower	Upper
168	100		
99	55.5	47.0	70.6

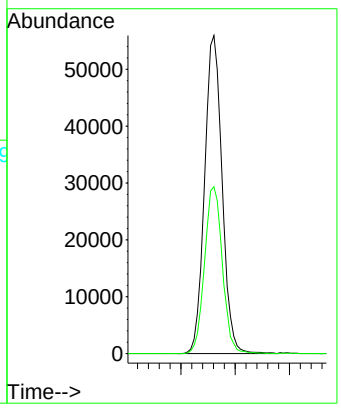


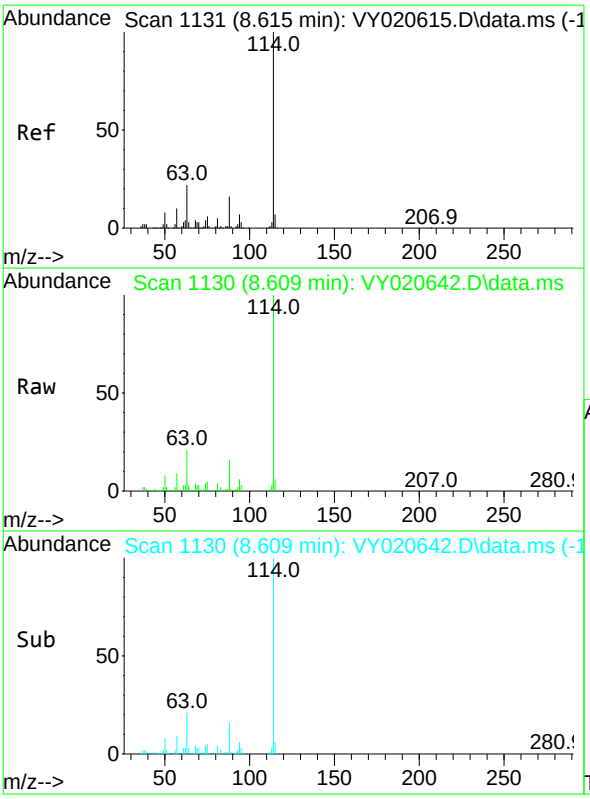


#33
1,2-Dichloroethane-d4
Concen: 49.026 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion: 65 Resp: 125606

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	108.0



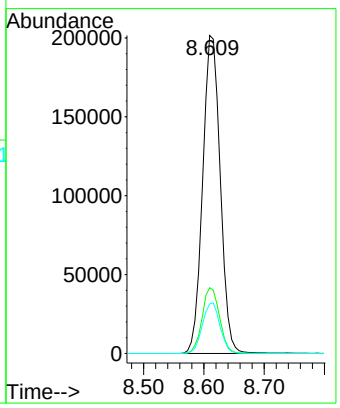


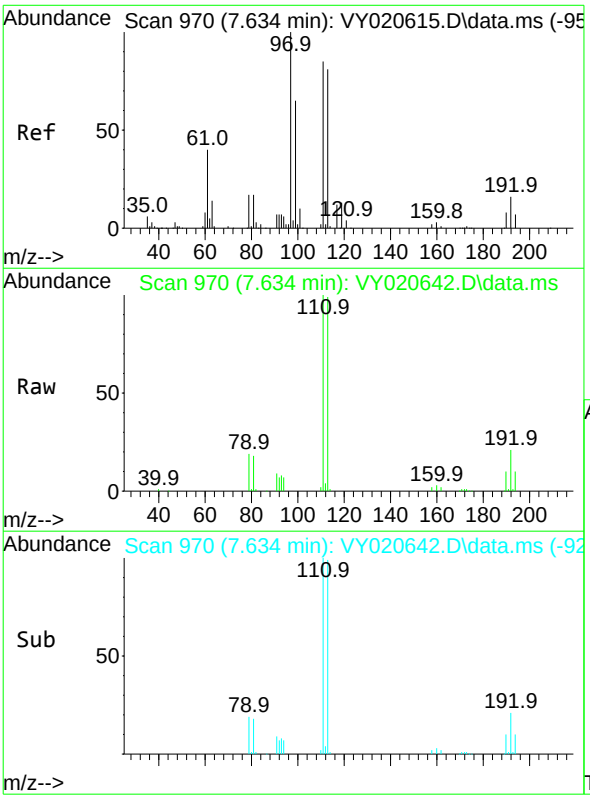
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:114 Resp: 408249

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	15.6	0.0	32.8

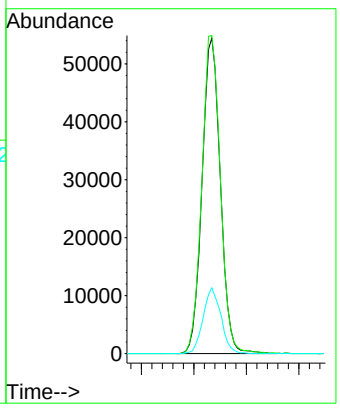


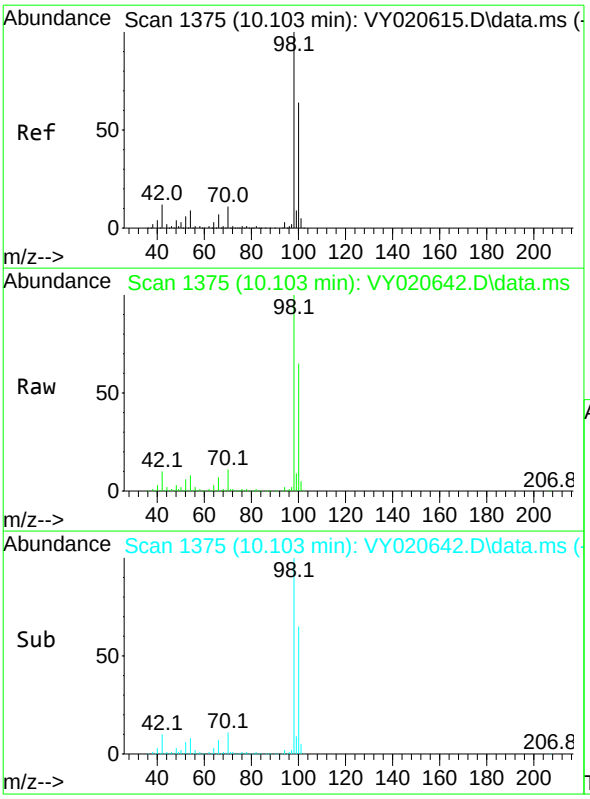


#35
Dibromofluoromethane
Concen: 45.814 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion:113 Resp: 131817

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	20.3	15.7	23.5



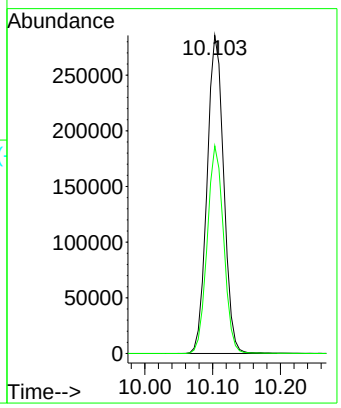


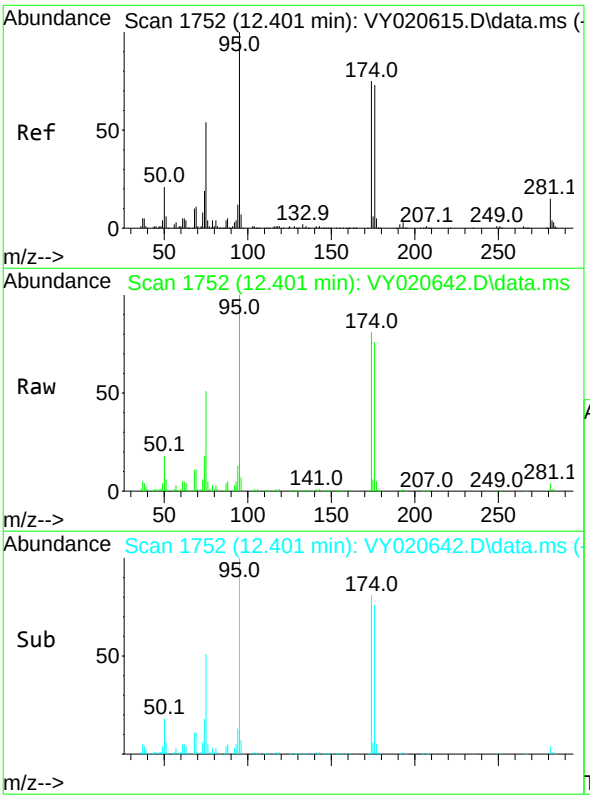
#50
Toluene-d8
Concen: 48.352 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion: 98 Resp: 486937

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

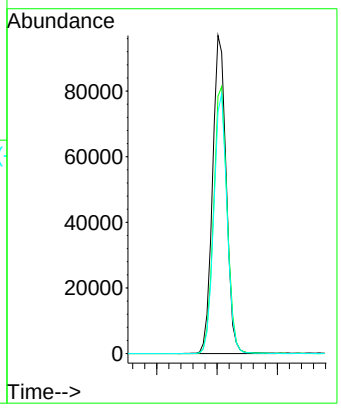


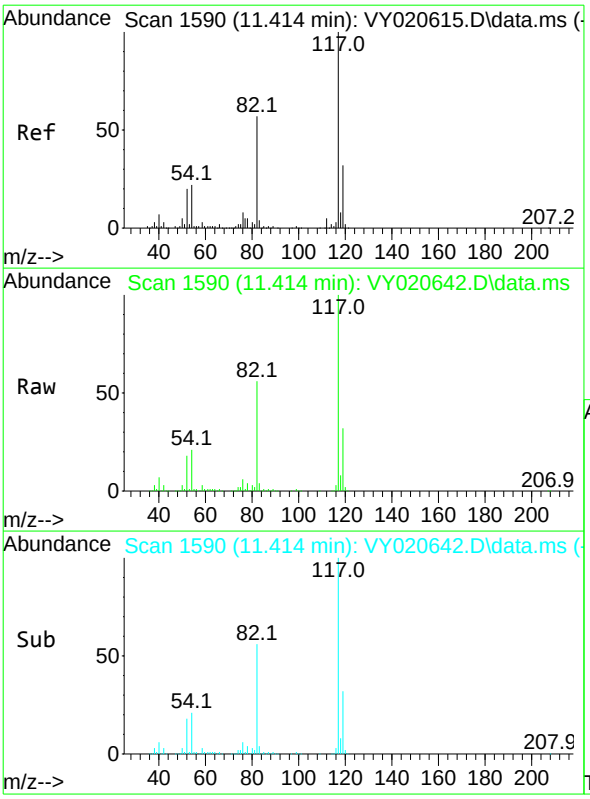


#62
4-Bromofluorobenzene
Concen: 38.680 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion: 95 Resp: 152376

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	161.8
176	79.5	0.0	156.6



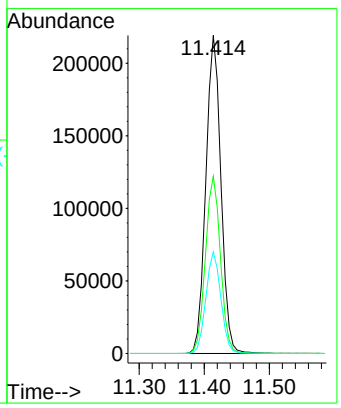


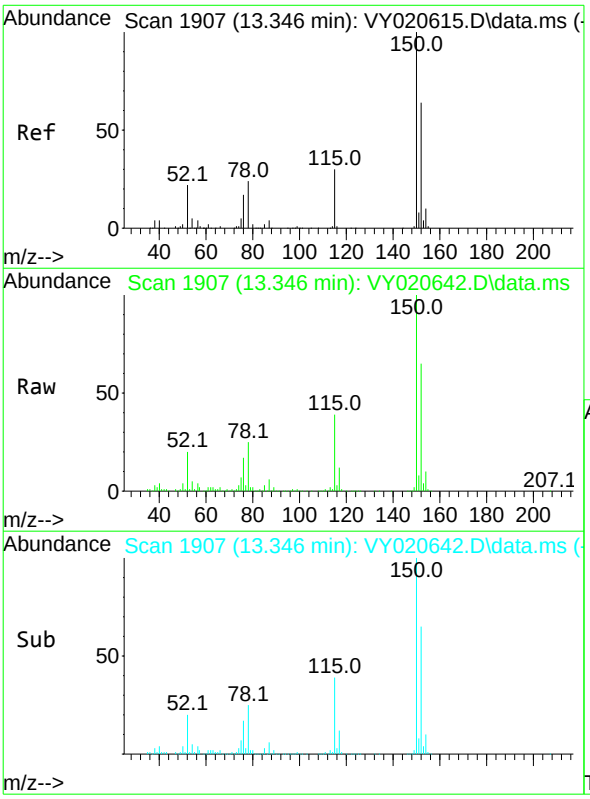
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:117 Resp: 351864

Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.8	68.6
119	31.9	25.3	37.9

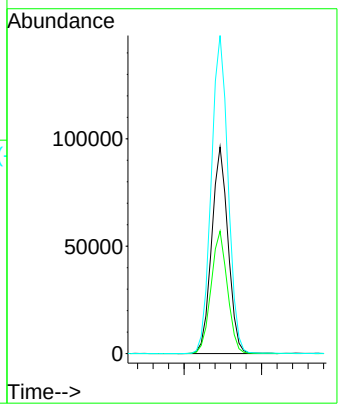




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020642.D
Acq: 18 Dec 2024 17:38

Tgt Ion:152 Resp: 141411

Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.2	90.6
150	158.1	0.0	355.4



Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

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\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020642.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	10	15	32	rVB	58817	93147	7.35%	0.946%
2	4.610	464	474	488	rBV2	9043	28066	2.22%	0.285%
3	7.634	960	970	976	rBV	180850	437327	34.53%	4.441%
4	7.707	976	982	1000	rVB	295401	678439	53.56%	6.890%
5	8.061	1029	1040	1051	rBV	156142	347475	27.43%	3.529%
6	8.609	1121	1130	1141	rBV	465272	941168	74.30%	9.558%
7	10.103	1366	1375	1384	rBV	740114	1266684	100.00%	12.864%
8	11.414	1583	1590	1603	rBV	655278	1061463	83.80%	10.780%
9	11.639	1623	1627	1634	rVB7	5823	12941	1.02%	0.131%
10	12.401	1746	1752	1765	rVB2	484840	807429	63.74%	8.200%
11	12.731	1795	1806	1811	rBV4	29617	62493	4.93%	0.635%
12	12.786	1811	1815	1820	rVB2	11678	18722	1.48%	0.190%
13	12.962	1840	1844	1851	rVB4	16091	28534	2.25%	0.290%
14	13.115	1861	1869	1873	rBV7	7575	19879	1.57%	0.202%
15	13.243	1881	1890	1893	rBV5	26112	63933	5.05%	0.649%
16	13.285	1893	1897	1899	rVV5	9544	14458	1.14%	0.147%
17	13.346	1900	1907	1914	rVB	573699	877309	69.26%	8.910%
18	13.420	1916	1919	1923	rBV3	12034	18603	1.47%	0.189%
19	13.615	1946	1951	1954	rBV5	9029	21739	1.72%	0.221%
20	13.670	1954	1960	1965	rVV2	129148	233669	18.45%	2.373%
21	13.712	1965	1967	1971	rVV2	29178	41540	3.28%	0.422%
22	13.773	1971	1977	1984	rVV5	22727	68461	5.40%	0.695%
23	13.889	1984	1996	2001	rVV2	160754	336223	26.54%	3.415%
24	13.932	2001	2003	2008	rVB3	15454	21012	1.66%	0.213%
25	13.999	2009	2014	2019	rBV7	7603	17031	1.34%	0.173%
26	14.060	2020	2024	2028	rVV7	16875	33036	2.61%	0.336%
27	14.115	2029	2033	2037	rVV4	31078	60797	4.80%	0.617%
28	14.176	2037	2043	2050	rVV7	104994	225963	17.84%	2.295%
29	14.237	2050	2053	2059	rVV3	18011	33243	2.62%	0.338%
30	14.304	2059	2064	2066	rVV4	15386	29494	2.33%	0.300%
31	14.340	2066	2070	2075	rVV2	75580	116039	9.16%	1.178%
32	14.395	2075	2079	2086	rVB3	32837	55213	4.36%	0.561%
33	14.535	2097	2102	2108	rVB2	102065	148182	11.70%	1.505%
34	14.602	2108	2113	2116	rBV2	38861	62737	4.95%	0.637%
35	14.651	2116	2121	2127	rVB3	102763	170460	13.46%	1.731%
36	14.718	2127	2132	2135	rBV7	21245	39588	3.13%	0.402%

Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

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\82Y121724S.M
Title : SW846 8260

37	14.767	2135	2140	2148	rVB2	73798	167160	13.20%	1.698%
38	14.852	2148	2154	2159	rVB4	40380	84838	6.70%	0.862%
39	14.901	2159	2162	2165	rBV3	18478	28526	2.25%	0.290%
40	14.950	2166	2170	2176	rBV4	33812	69682	5.50%	0.708%
41	15.005	2176	2179	2181	rBV3	11150	16648	1.31%	0.169%
42	15.053	2182	2187	2193	rVB6	55124	121769	9.61%	1.237%
43	15.121	2193	2198	2202	rBV2	87691	143360	11.32%	1.456%
44	15.169	2202	2206	2209	rBV3	36556	57417	4.53%	0.583%
45	15.255	2216	2220	2222	rBV4	20025	33923	2.68%	0.345%
46	15.346	2231	2235	2240	rVB	108196	150086	11.85%	1.524%
47	15.407	2241	2245	2248	rVV5	14255	27656	2.18%	0.281%
48	15.450	2249	2252	2257	rVV4	25556	43853	3.46%	0.445%
49	15.511	2257	2262	2268	rVB3	49044	85492	6.75%	0.868%
50	15.925	2325	2330	2335	rVB4	40743	76083	6.01%	0.773%
51	16.053	2346	2351	2358	rVB4	49908	88372	6.98%	0.897%
52	16.254	2378	2384	2388	rBV	90410	159213	12.57%	1.617%

Sum of corrected areas: 9846575

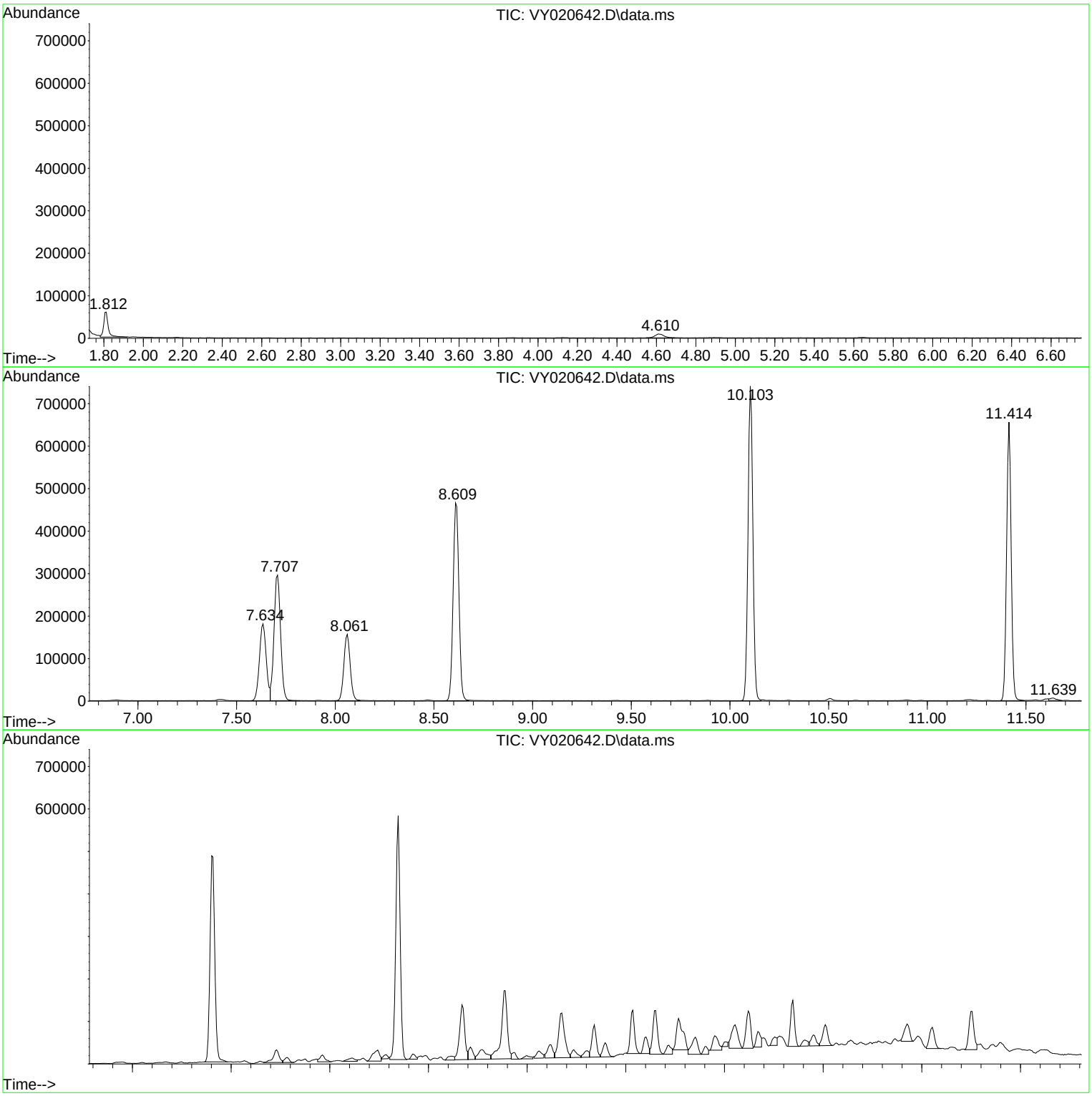
Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

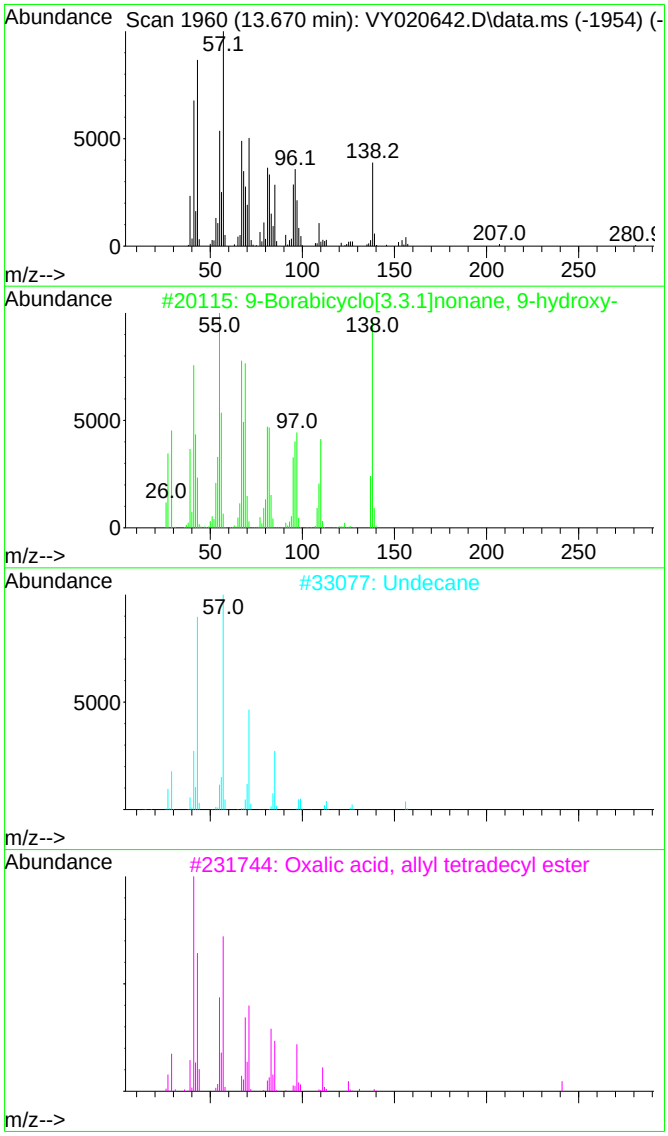
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

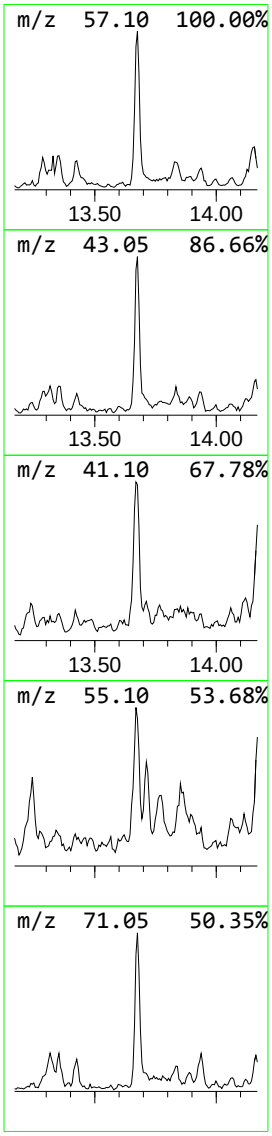
****

Peak Number 1 unknown13.670 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.670	13.32 ug/l	233669	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Borabicyclo[3.3.1]nonane, 9-hy...	138	C8H15BO	063366-65-4	41
2	Undecane	156	C11H24	001120-21-4	35
3	Oxalic acid, allyl tetradecyl ester	326	C19H34O4	1000309-24-2	30
4	Butanoic acid, 5-methyl-2-(1-met...	226	C14H26O2	092319-43-2	27
5	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

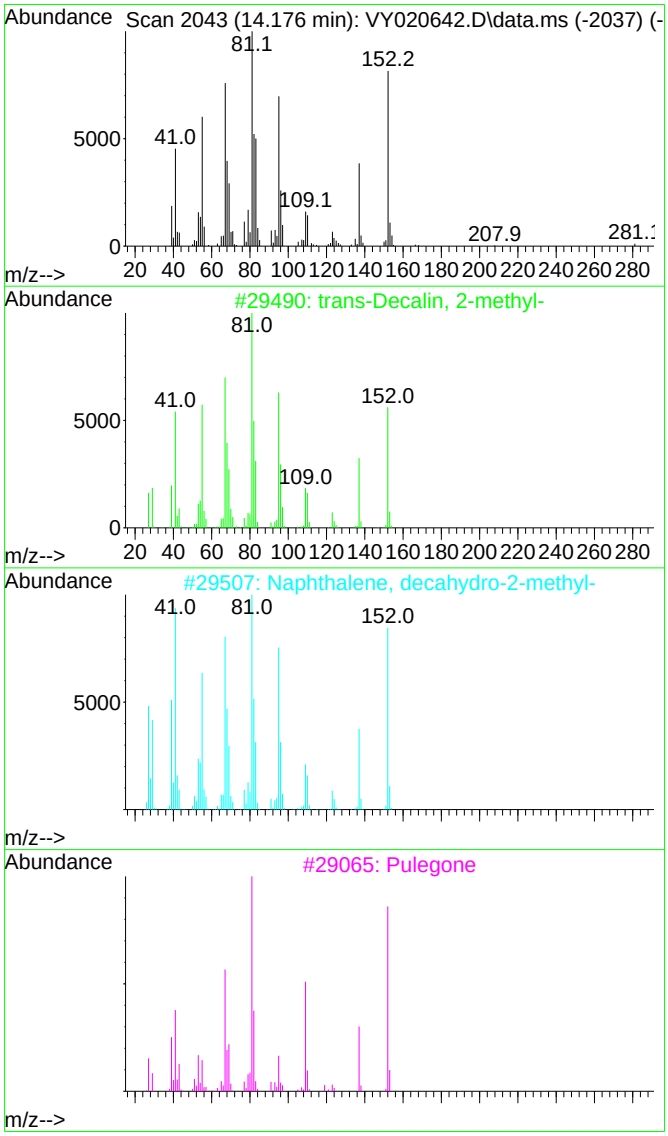
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

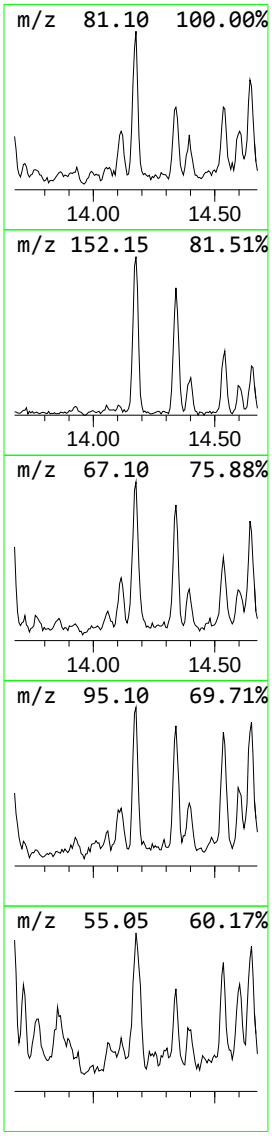
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	12.88 ug/l	225963	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	93
3	Pulegone	152	C10H16O	000089-82-7	68
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	68
5	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

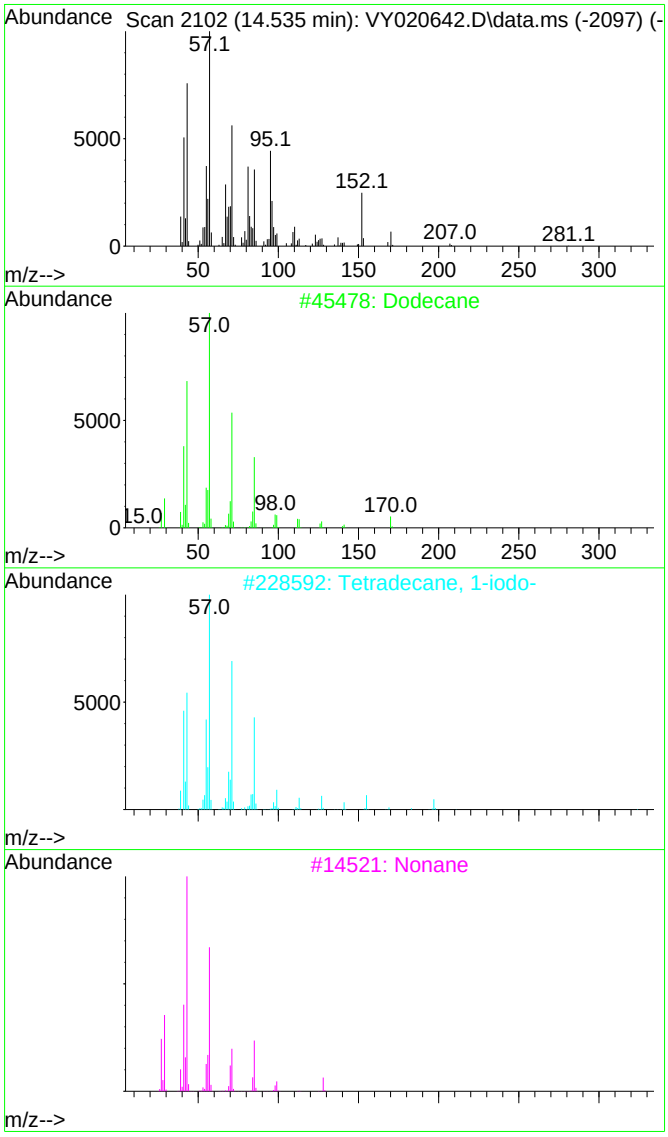
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

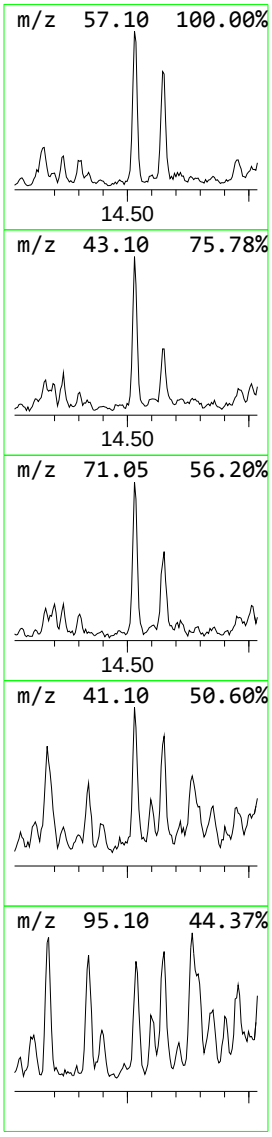
****

Peak Number 4 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	8.45 ug/l	148182	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	53
2	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	38
3	Nonane	128	C9H20	000111-84-2	38
4	Nonadecane	268	C19H40	000629-92-5	38
5	Tetradecane	198	C14H30	000629-59-4	35





Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

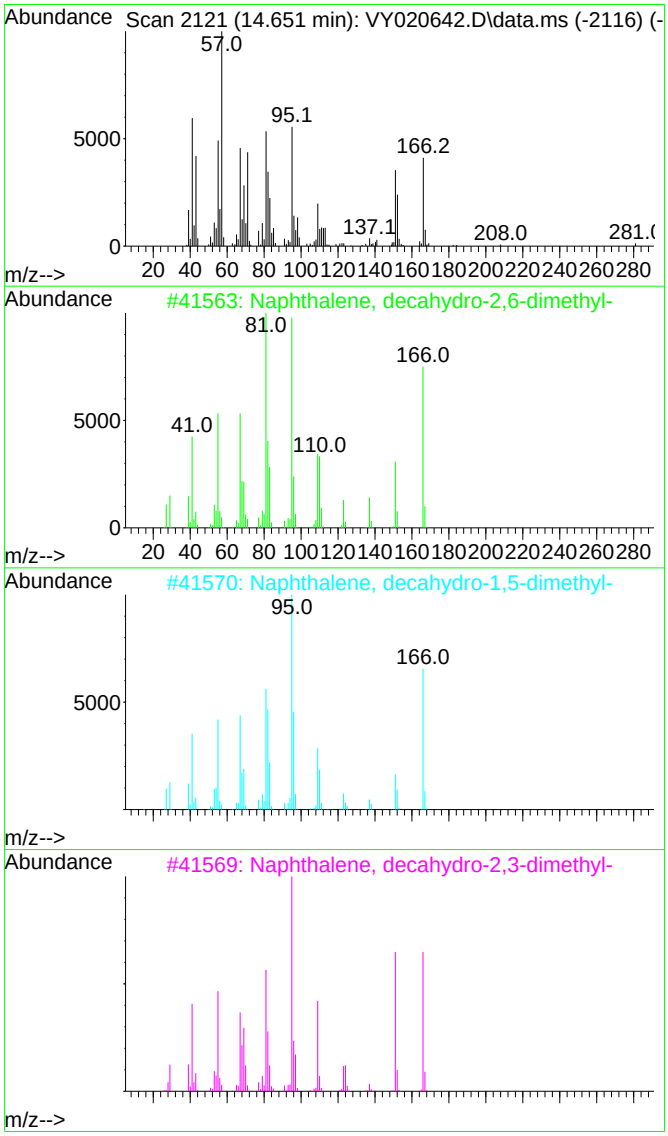
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

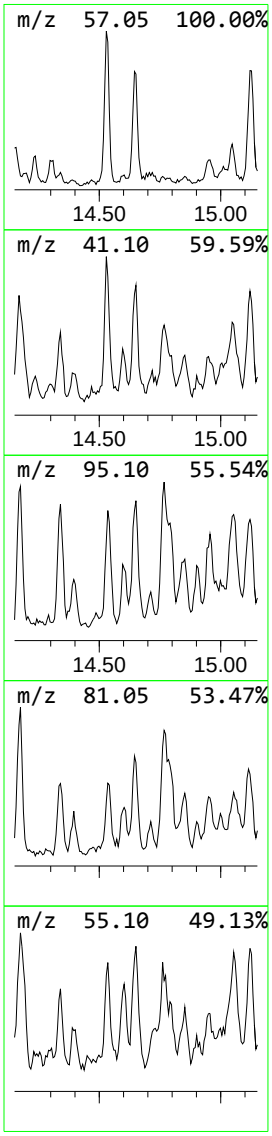
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Naphthalene, decahydro-2,6-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	9.71 ug/l	170460	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	53
2	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	49
3	Naphthalene, decahydro-2,3-dimet...	166	C12H22	001008-80-6	49
4	cis,trans-1,6-Dimethylspiro[4.5]...	166	C12H22	1000111-72-3	46
5	Camphor	152	C10H16O	000076-22-2	46





Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

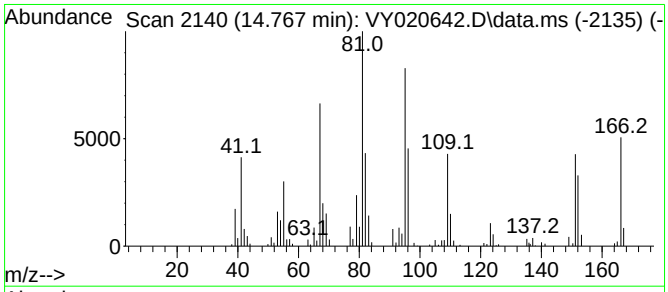
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

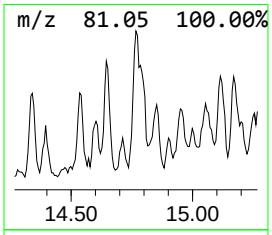
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

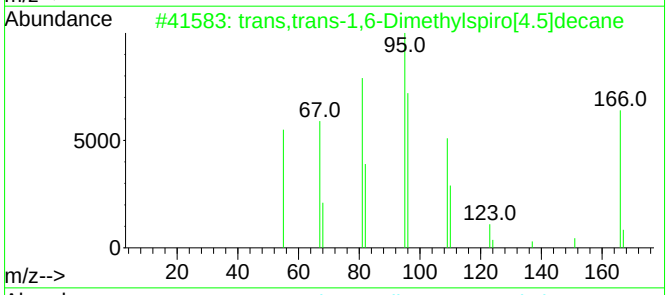
****
Peak Number 6 trans,trans-1,6-Dimethylspi... Concentration Rank 5

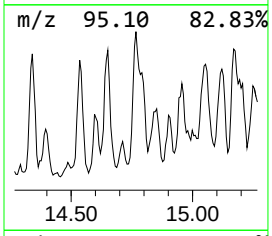
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.767	9.53 ug/l	167160	1,4-Dichlorobenzene-d4	13.346

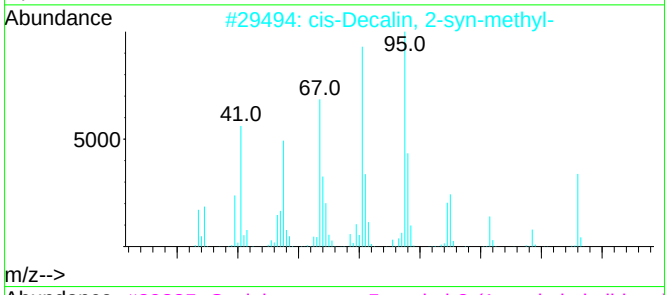
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans,trans-1,6-Dimethylspiro[4....	166	C12H22	1000111-72-1	76
2	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	58
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	55
4	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	52
5	Naphthalene, decahydro-1,6-dimet...	166	C12H22	001750-51-2	50

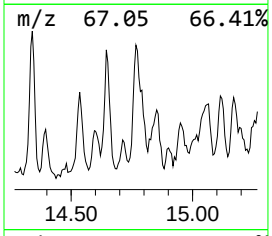


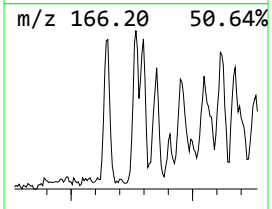


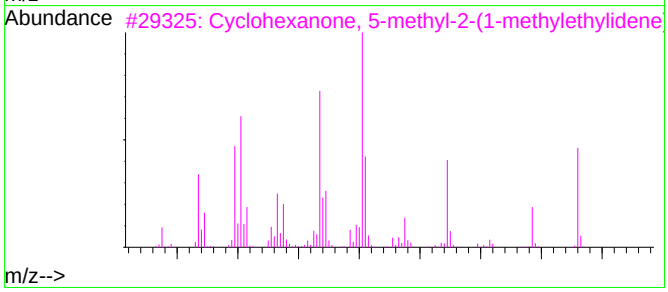


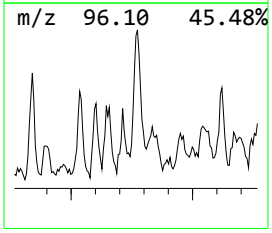












Sample Results: **VY020642.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

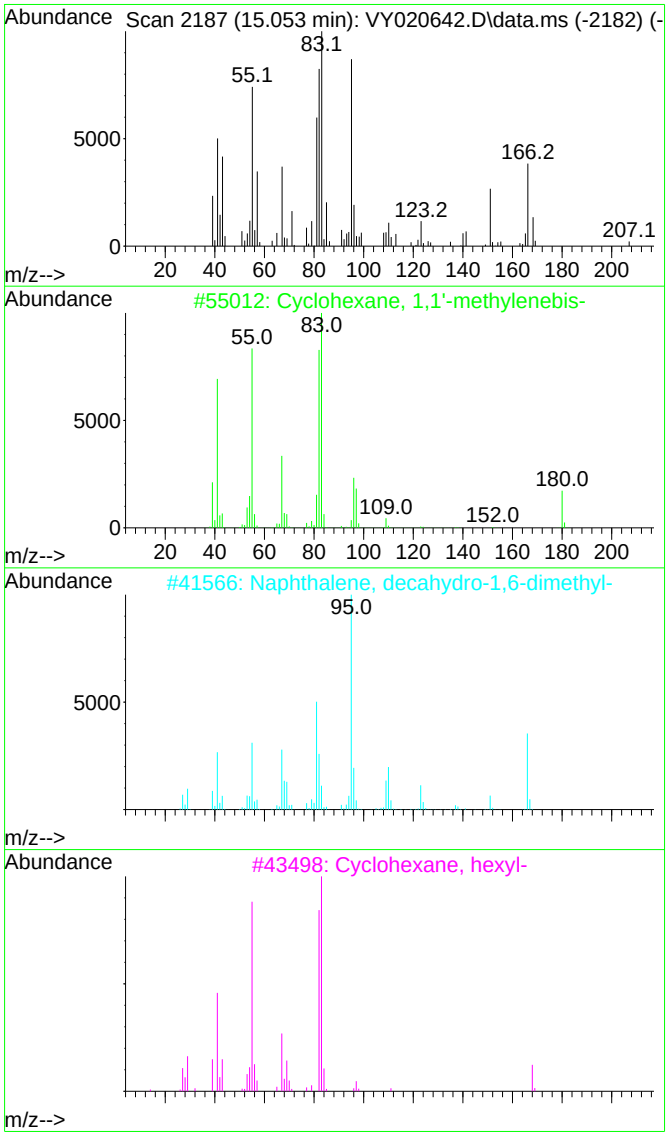
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

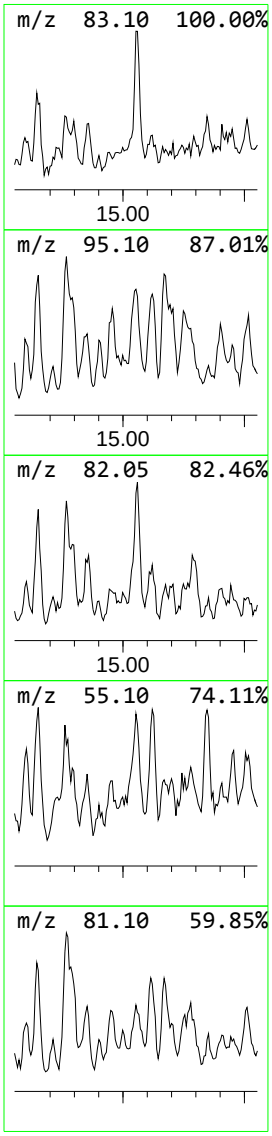
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 unknown15.054 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.054	6.94 ug/l	121769	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	38
2	Naphthalene, decahydro-1,6-dimet...	166	C12H22	001750-51-2	38
3	Cyclohexane, hexyl-	168	C12H24	004292-75-5	38
4	Bicyclo[2.2.1]heptan-2-one, 1,3,...	166	C11H18O	005811-48-3	38
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

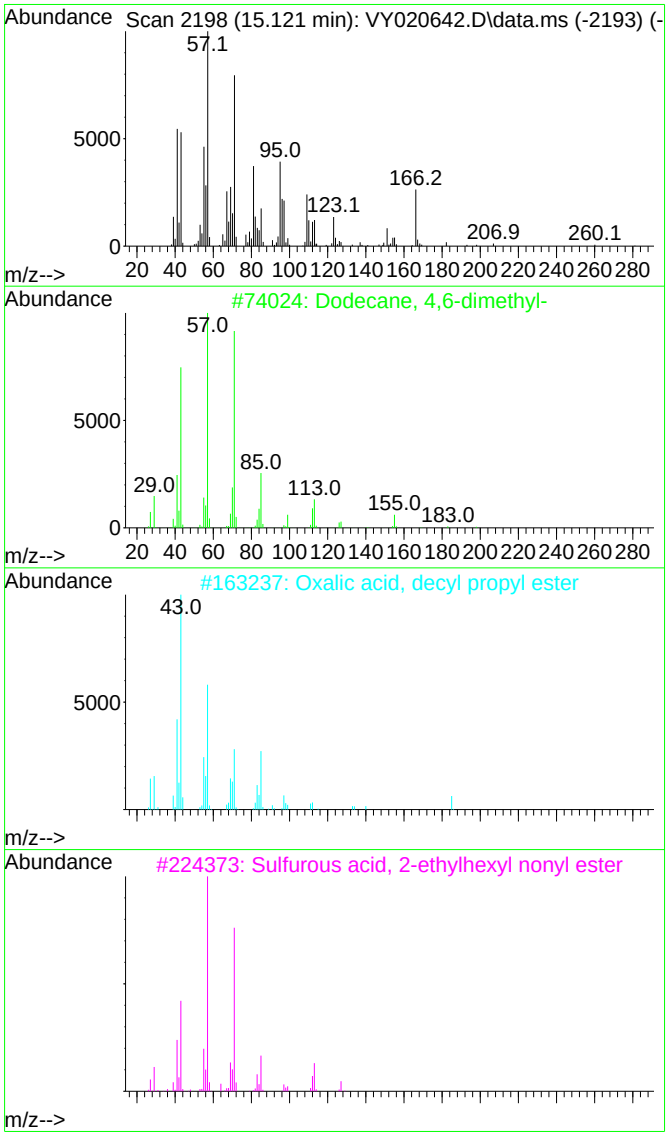
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

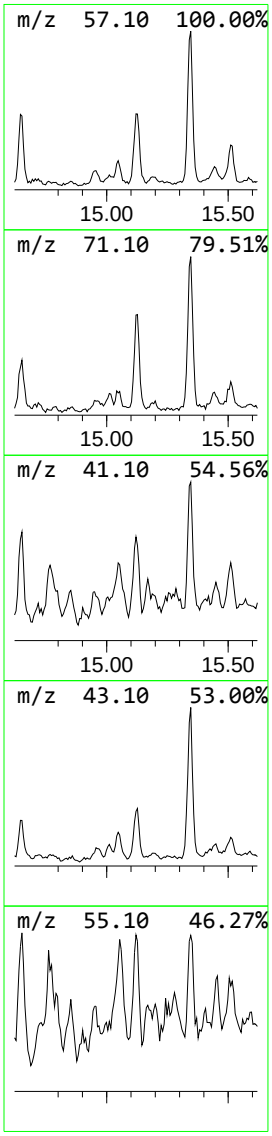
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Dodecane, 4,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	8.17 ug/l	143360	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	86
2	Oxalic acid, decyl propyl ester	272	C15H28O4	1000309-26-3	35
3	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	30
4	Decane, 4-methyl-	156	C11H24	002847-72-5	30
5	Cyclohexanone, 2,2-dimethyl-5-(3...	182	C11H18O2	141033-65-0	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

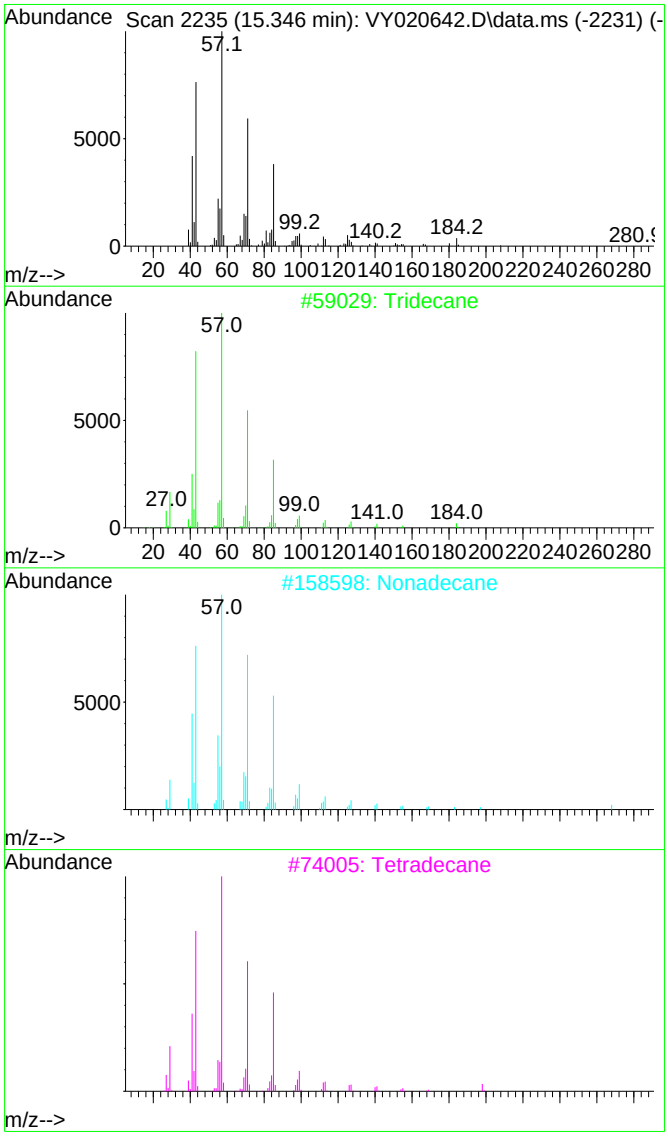
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

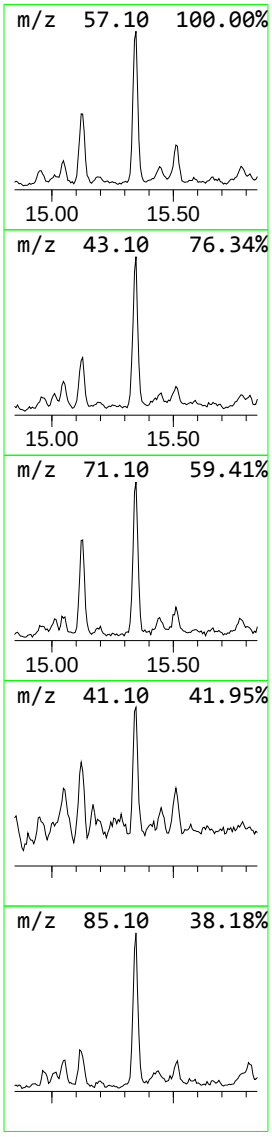
****

Peak Number 9 Tridecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	8.55 ug/l	150086	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Nonadecane	268	C19H40	000629-92-5	87
3	Tetradecane	198	C14H30	000629-59-4	80
4	Dodecane	170	C12H26	000112-40-3	72
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

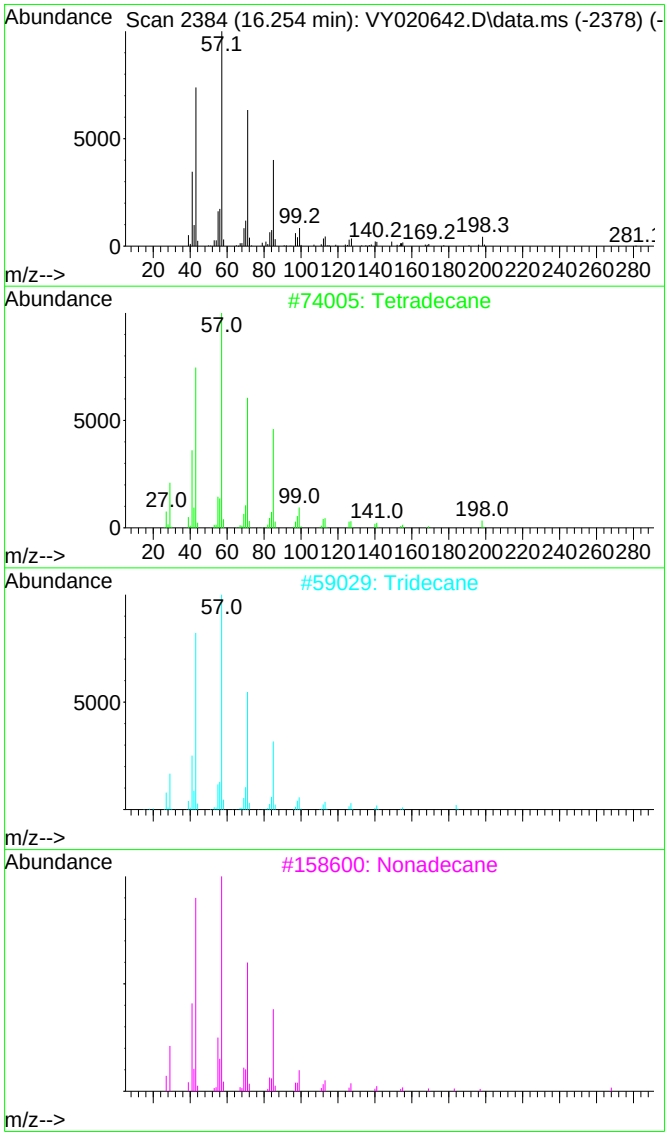
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

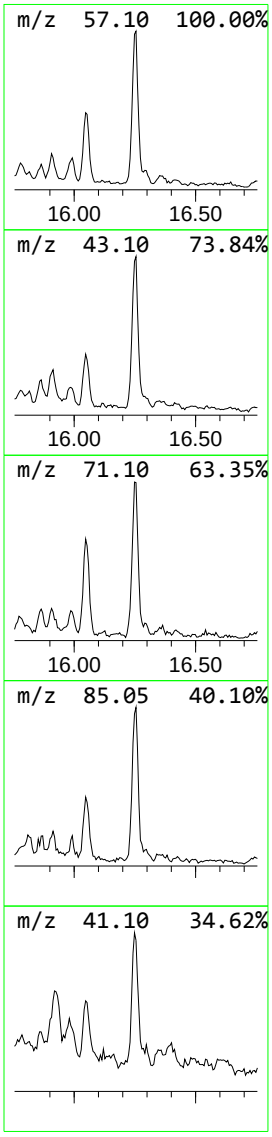
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Tetradecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.255	9.07 ug/l	159213	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	96
2	Tridecane	184	C13H28	000629-50-5	90
3	Nonadecane	268	C19H40	000629-92-5	87
4	Heptadecane	240	C17H36	000629-78-7	80
5	Hexadecane	226	C16H34	000544-76-3	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020642.D
Acq On : 18 Dec 2024 17:38
Operator : SY/MD
Sample : P5299-01
Misc : 6.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.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
unknown13.670	13.670	13.3	ug/l	233669	4	13.346	877309	50.0
trans-Decalin, ...	14.176	12.9	ug/l	225963	4	13.346	877309	50.0
Dodecane	14.535	8.4	ug/l	148182	4	13.346	877309	50.0
Naphthalene, de...	14.651	9.7	ug/l	170460	4	13.346	877309	50.0
trans,trans-1,6...	14.767	9.5	ug/l	167160	4	13.346	877309	50.0
unknown15.054	15.054	6.9	ug/l	121769	4	13.346	877309	50.0
Dodecane, 4,6-d...	15.121	8.2	ug/l	143360	4	13.346	877309	50.0
Tridecane	15.346	8.6	ug/l	150086	4	13.346	877309	50.0
Tetradecane	16.255	9.1	ug/l	159213	4	13.346	877309	50.0

Raw Data: **VY020639.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.5
Sample Wt/Vol:	7.22 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
VY020639.D	1		12/18/24 16:27	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.94	U	0.94	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.83	U	0.83	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	51.1		5.70	22.9	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.60	ug/Kg
75-09-2	Methylene Chloride	4.90	J	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.63	U	0.63	4.60	ug/Kg
78-93-3	2-Butanone	10.1	J	5.20	22.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.61	U	0.61	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.51	U	0.51	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	22.9	ug/Kg
108-88-3	Toluene	0.61	U	0.61	4.60	ug/Kg

Raw Data: **VY020639.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.5
Sample Wt/Vol:	7.22 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
VY020639.D	1		12/18/24 16:27	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	22.9	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.73	U	0.73	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		70 (50) - 130 (163)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	45.2		70 (54) - 130 (147)	90%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.4		70 (29) - 130 (146)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	192000	7.707			
540-36-3	1,4-Difluorobenzene	339000	8.615			
3114-55-4	Chlorobenzene-d5	295000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	75.5
Sample Wt/Vol:	7.22 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
VY020639.D	1		12/18/24 16:27	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown1.812	75.9	J		1.81	ug/Kg
001120-21-4	Undecane	140	J		13.7	ug/Kg
1000152-47-3	trans-Decalin, 2-methyl-	130	J		14.2	ug/Kg
000112-40-3	Dodecane	160	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	120	J		14.7	ug/Kg
001560-97-0	Dodecane, 2-methyl-	72.5	J		15.1	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	120	J		15.1	ug/Kg
000629-50-5	Tridecane	200	J		15.3	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	88.3	J		16.1	ug/Kg
000629-59-4	Tetradecane	180	J		16.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Time: Dec 19 02:50:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	192200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	339150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	294759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	123499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	104831	49.801	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.600%		
35) Dibromofluoromethane	7.634	113	107937	45.157	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.320%		
50) Toluene-d8	10.103	98	408746	48.857	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.720%		
62) 4-Bromofluorobenzene	12.401	95	132372	40.448	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	80.900%		
Target Compounds						Qvalue
16) Acetone	3.872	43	25384	55.697	ug/l	97
17) Carbon Disulfide	4.104	76	8955	1.142	ug/l	99
20) Methylene Chloride	4.616	84	13870	5.300	ug/l	94
25) 2-Butanone	6.890	43	8591	10.982	ug/l	93

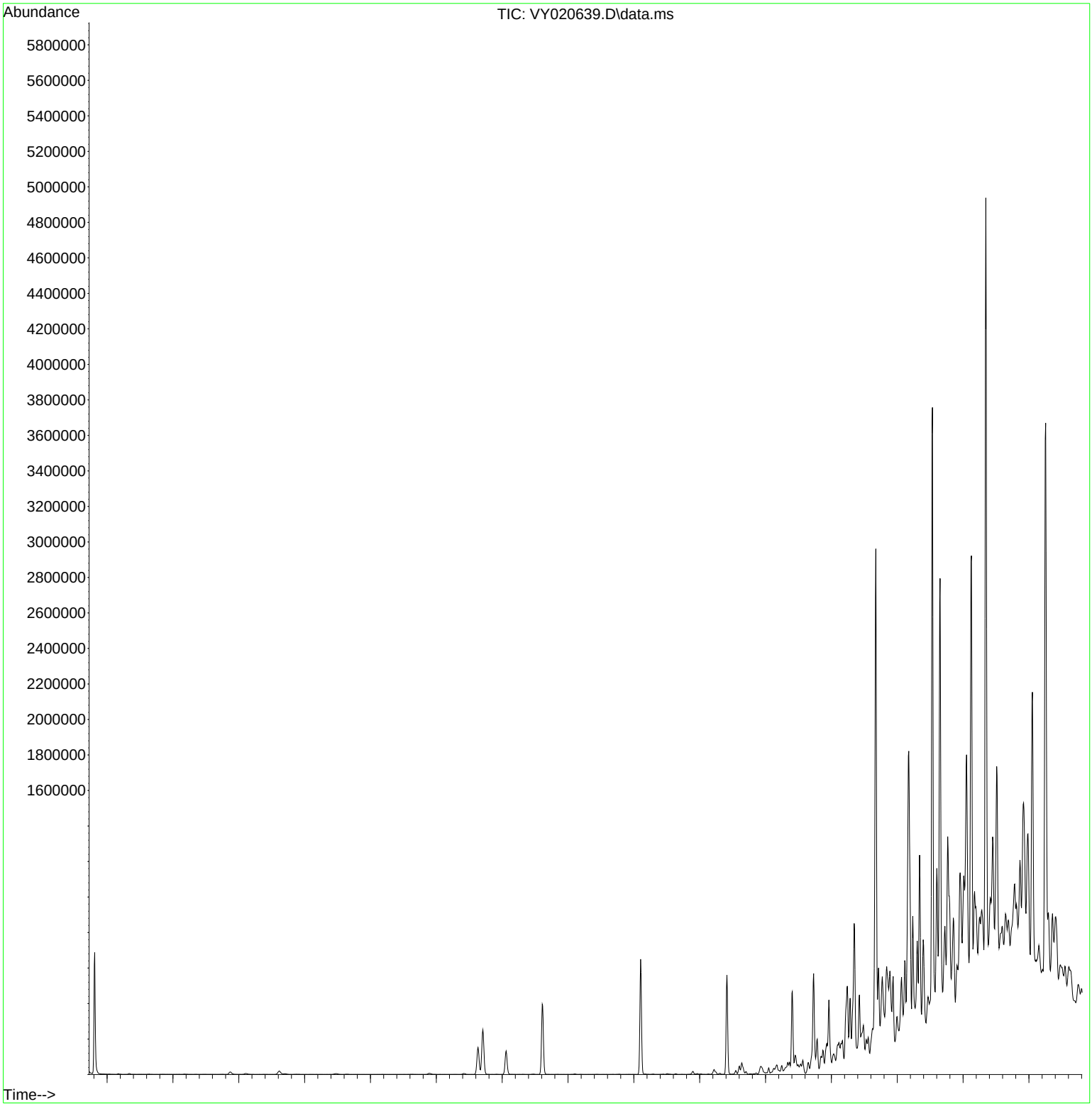
(#) = qualifier out of range (m) = manual integration (+) = signals summed

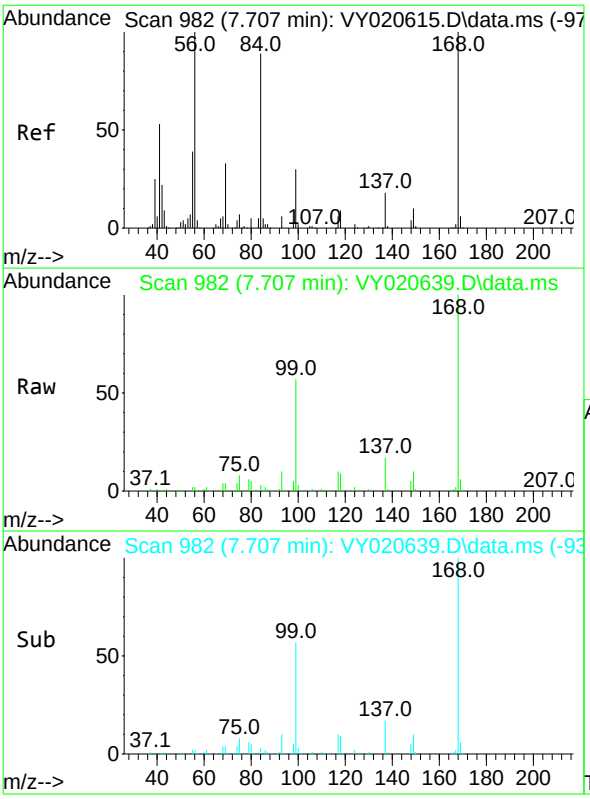
Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Time: Dec 19 02:50:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



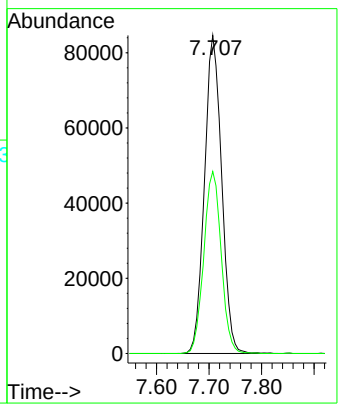


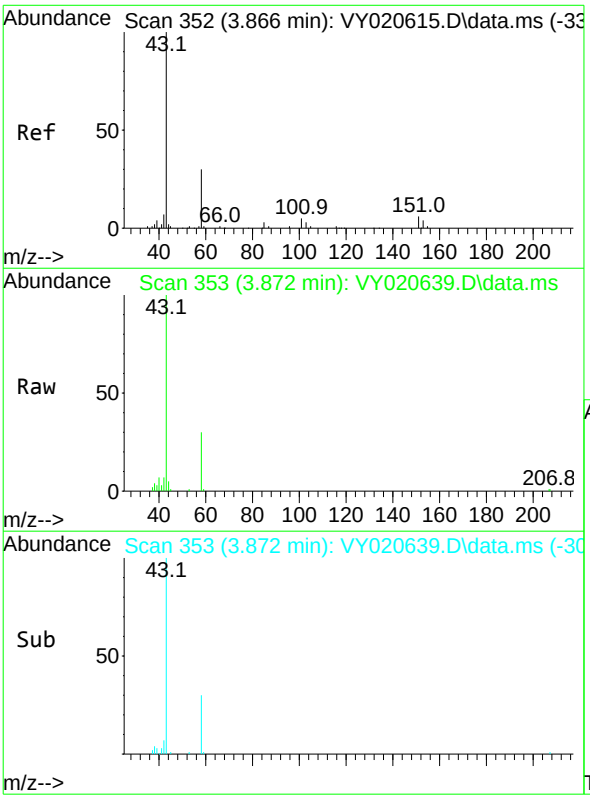
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:168 Resp: 192200

Ion	Ratio	Lower	Upper
168	100		
99	57.2	47.0	70.6

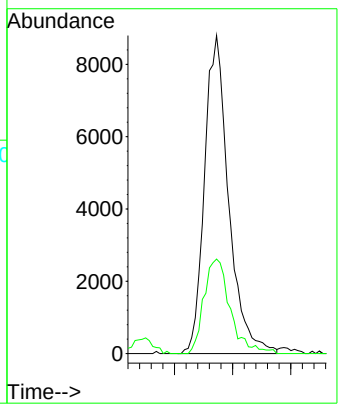


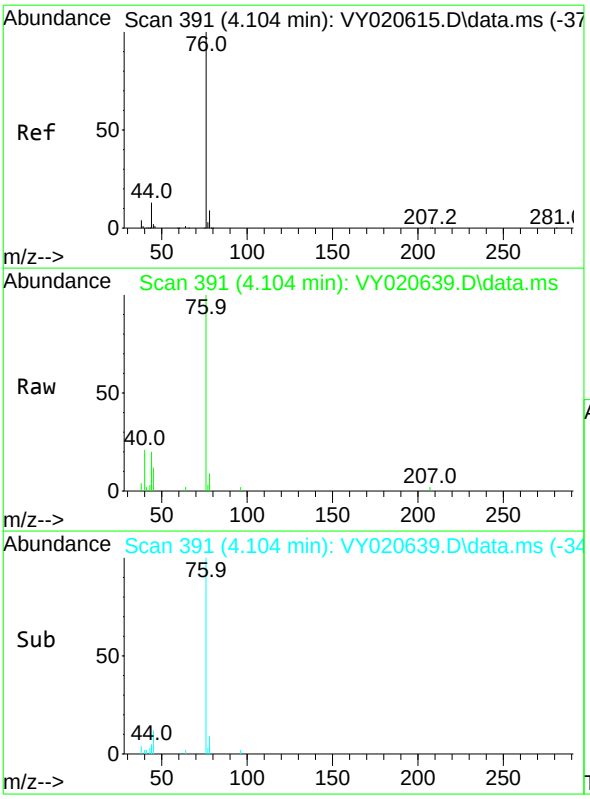


#16
Acetone
Concen: 55.697 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion: 43 Resp: 25384

Ion	Ratio	Lower	Upper
43	100		
58	29.7	25.0	37.6



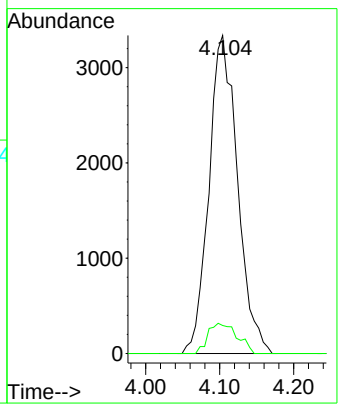


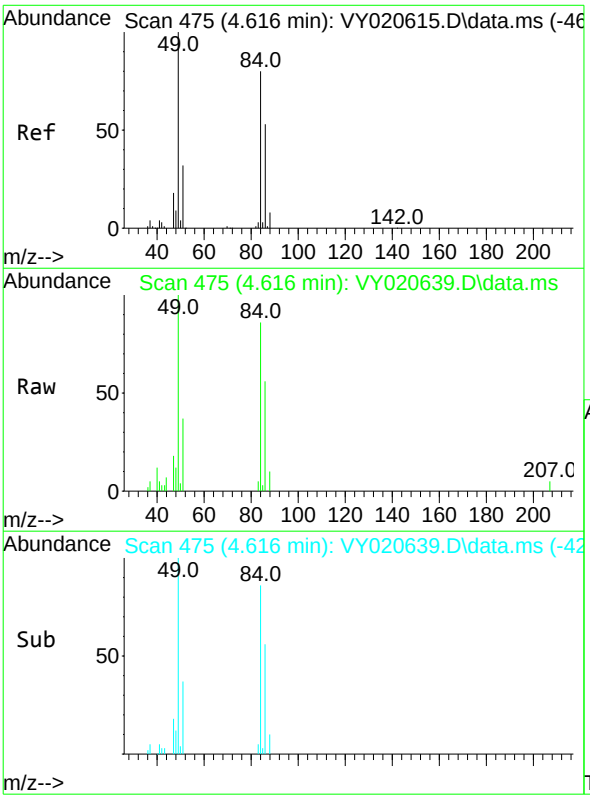
#17
Carbon Disulfide
Concen: 1.142 ug/l
RT: 4.104 min Scan# 39
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion: 76 Resp: 8955

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

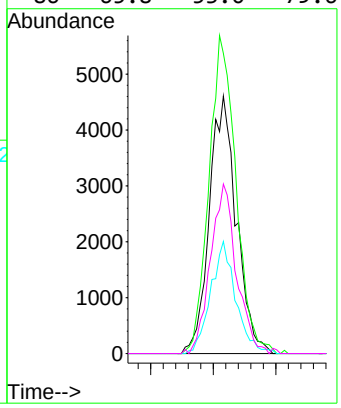


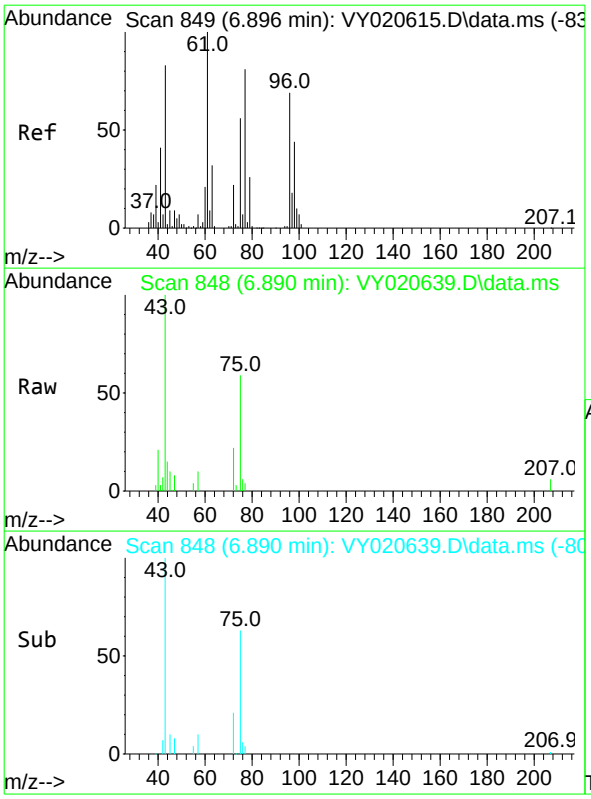


#20
Methylene Chloride
Concen: 5.300 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion: 84 Resp: 13870

Ion	Ratio	Lower	Upper
84	100		
49	116.6	100.7	151.1
51	43.5	32.2	48.2
86	65.8	53.0	79.6



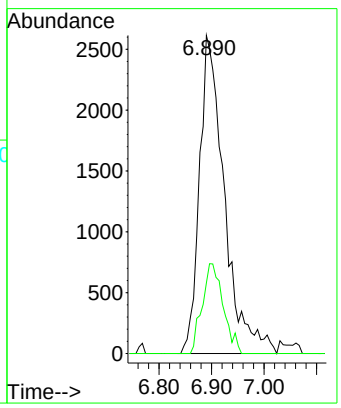


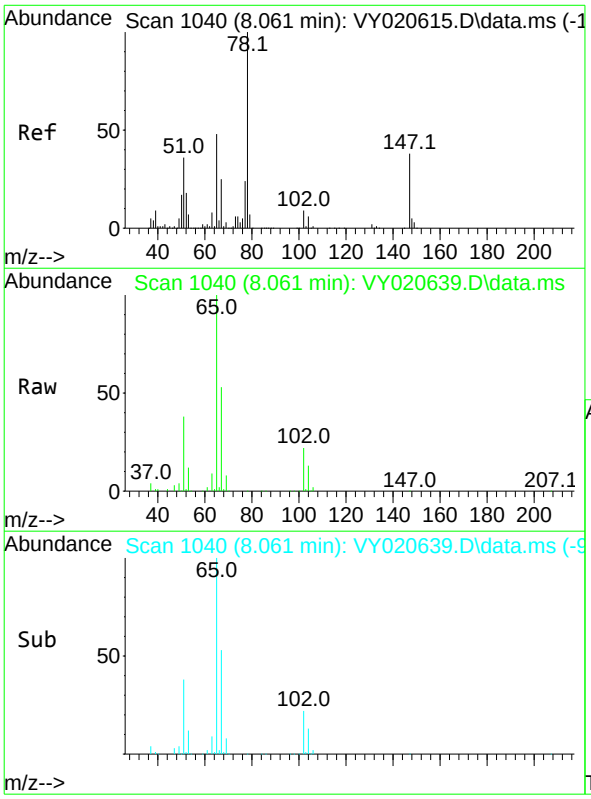
#25
2-Butanone
Concen: 10.982 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion: 43 Resp: 8591

Ion	Ratio	Lower	Upper
43	100		
72	22.2	20.6	31.0

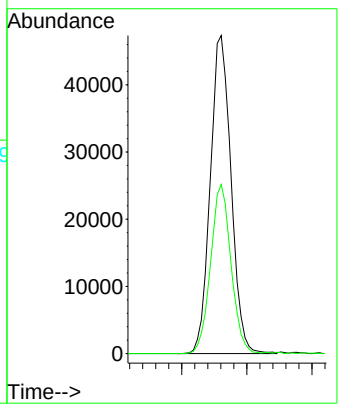


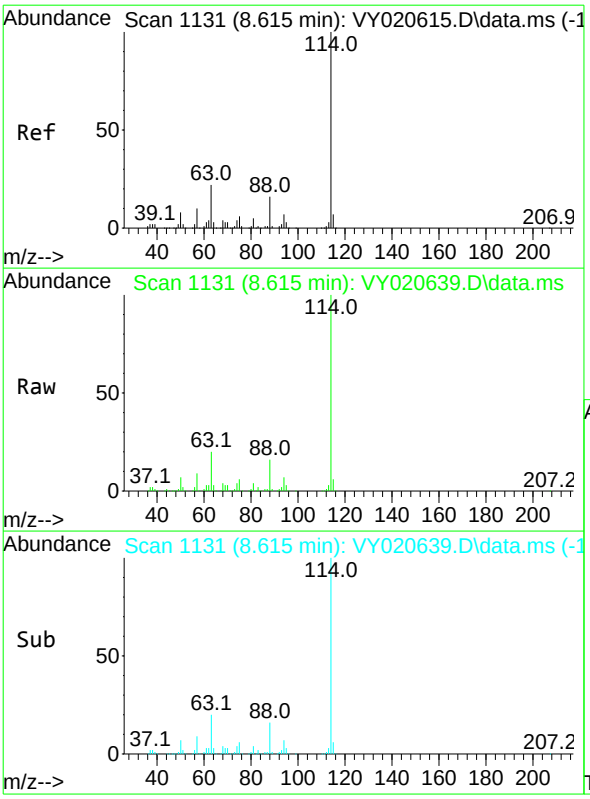


#33
1,2-Dichloroethane-d4
Concen: 49.801 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion: 65 Resp: 104831

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	108.0



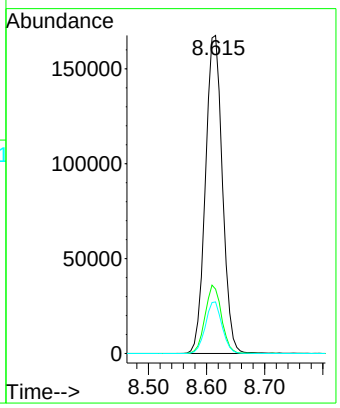


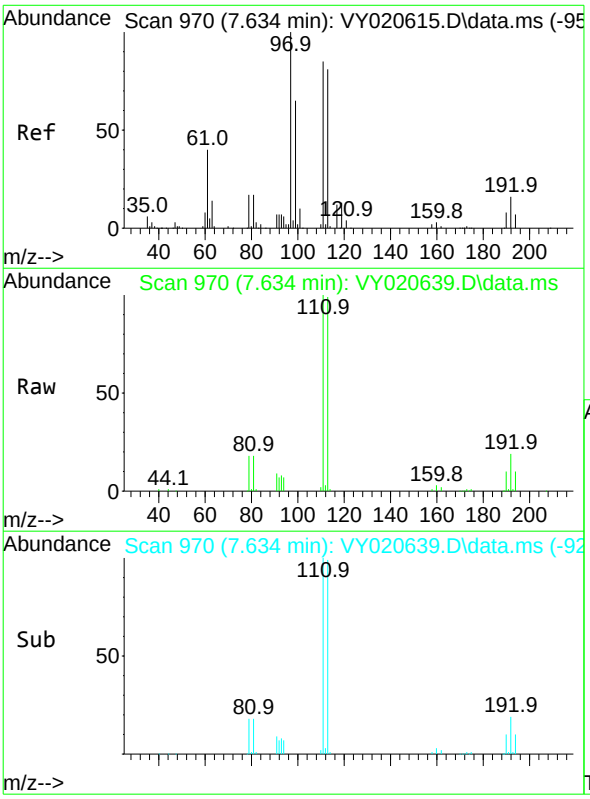
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:114 Resp: 339150

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	44.0
88	16.2	0.0	32.8

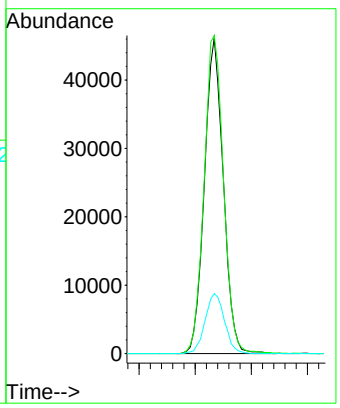


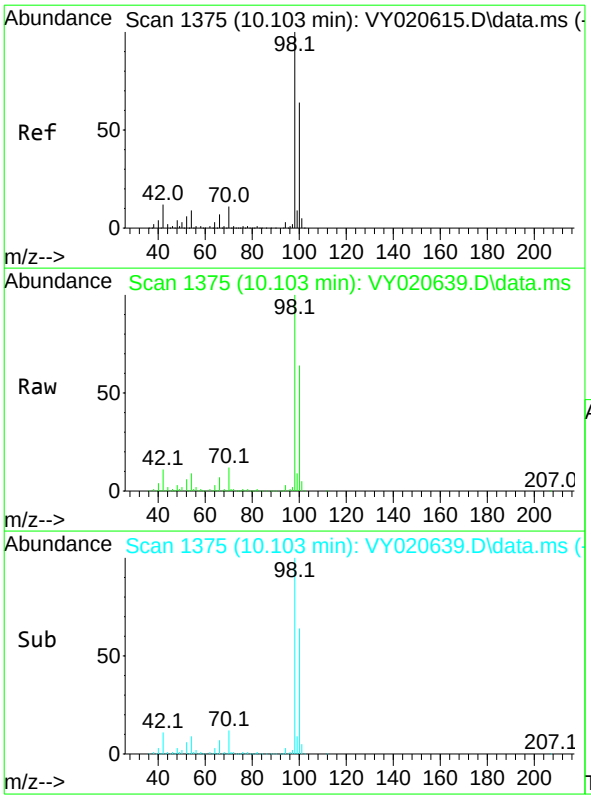


#35
Dibromofluoromethane
Concen: 45.157 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion:113 Resp: 107937

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.9	124.3
192	19.5	15.7	23.5



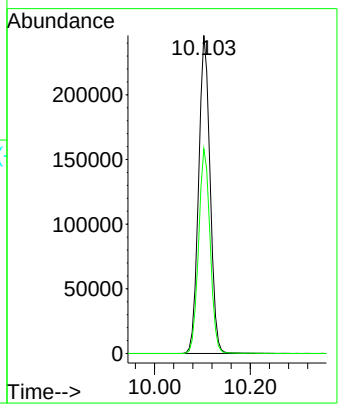


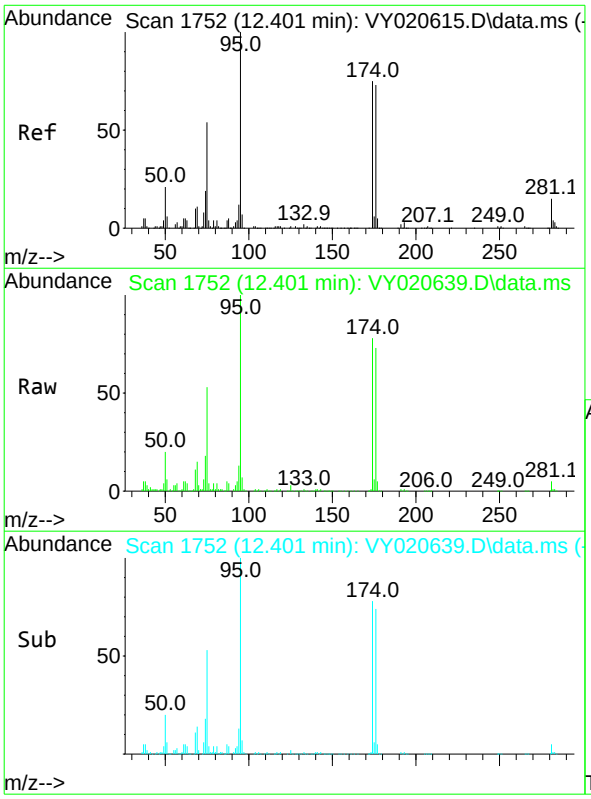
#50
Toluene-d8
Concen: 48.857 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion: 98 Resp: 408746

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.1	78.1

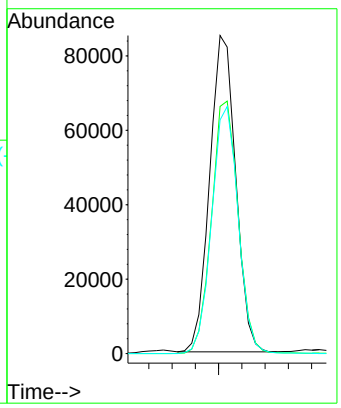


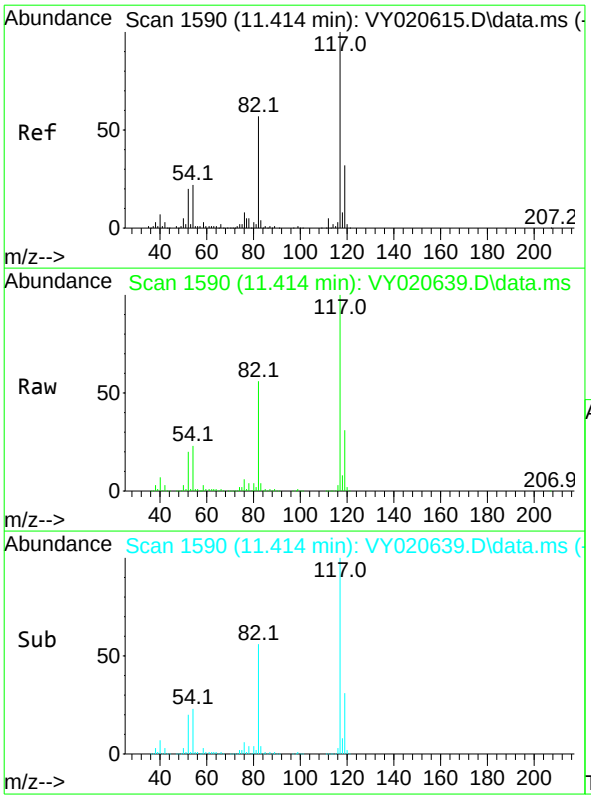


#62
4-Bromofluorobenzene
Concen: 40.448 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion: 95 Resp: 132372

Ion	Ratio	Lower	Upper
95	100		
174	81.5	0.0	161.8
176	79.3	0.0	156.6



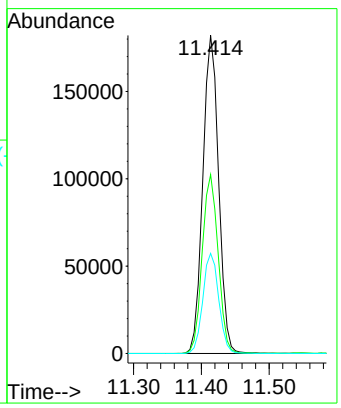


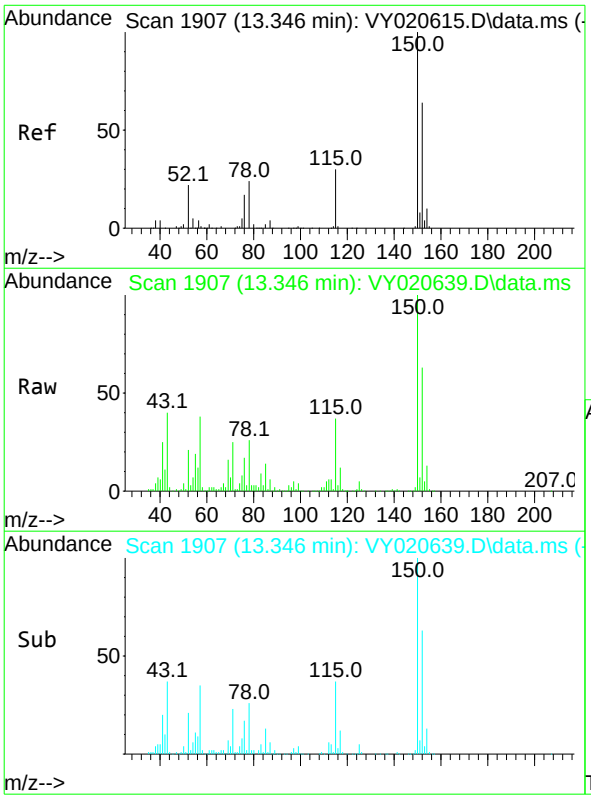
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:117 Resp: 294759

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.8	68.6
119	31.5	25.3	37.9

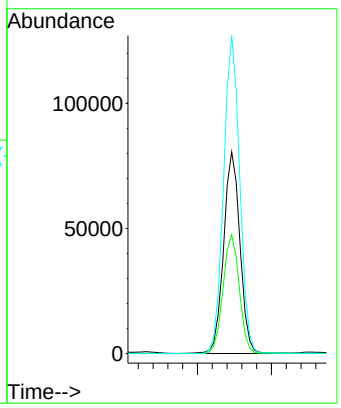




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020639.D
Acq: 18 Dec 2024 16:27

Tgt Ion:152 Resp: 123499

Ion	Ratio	Lower	Upper
152	100		
115	58.8	30.2	90.6
150	155.3	0.0	355.4



Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

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\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020639.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	9	15	32	rVB	685064	941421	15.63%	1.304%
2	7.634	960	970	976	rBV	151205	363505	6.04%	0.503%
3	7.707	976	982	993	rVB	250084	569026	9.45%	0.788%
4	8.061	1028	1040	1051	rBV	131759	290727	4.83%	0.403%
5	8.609	1122	1130	1146	rBV	395128	795313	13.20%	1.101%
6	10.103	1367	1375	1383	rBV	648517	1082929	17.98%	1.500%
7	11.414	1583	1590	1601	rVB	557746	909367	15.10%	1.259%
8	11.603	1616	1621	1624	rBV	42032	72334	1.20%	0.100%
9	11.639	1624	1627	1635	rVB4	57911	116647	1.94%	0.162%
10	11.932	1667	1675	1686	rBV7	42746	145325	2.41%	0.201%
11	12.170	1709	1714	1722	rVB5	35414	76799	1.28%	0.106%
12	12.407	1748	1753	1757	rBV3	417350	656993	10.91%	0.910%
13	12.450	1757	1760	1765	rVB3	59697	96726	1.61%	0.134%
14	12.566	1776	1779	1786	rVB2	74070	124186	2.06%	0.172%
15	12.651	1786	1793	1796	rBV4	60572	121136	2.01%	0.168%
16	12.731	1796	1806	1811	rBV2	534372	1004540	16.68%	1.391%
17	12.785	1811	1815	1820	rVB	165879	264398	4.39%	0.366%
18	12.840	1820	1824	1826	rBV3	69499	108595	1.80%	0.150%
19	12.871	1826	1829	1833	rVB2	72712	97957	1.63%	0.136%
20	12.932	1833	1839	1840	rBV3	111341	199925	3.32%	0.277%
21	12.962	1840	1844	1851	rVB	352495	569750	9.46%	0.789%
22	13.035	1851	1856	1861	rBV5	48969	112256	1.86%	0.155%
23	13.096	1861	1866	1867	rBV2	88425	132473	2.20%	0.183%
24	13.243	1882	1890	1893	rBV3	408164	996792	16.55%	1.380%
25	13.285	1893	1897	1900	rVV2	299750	448605	7.45%	0.621%
26	13.346	1900	1907	1914	rVB3	705021	1389905	23.08%	1.925%
27	13.425	1915	1920	1923	rBV2	298721	438811	7.29%	0.608%
28	13.529	1934	1937	1940	rBV3	54929	80555	1.34%	0.112%
29	13.560	1940	1942	1946	rVB2	90340	102134	1.70%	0.141%
30	13.627	1946	1953	1954	rBV4	139621	273802	4.55%	0.379%
31	13.675	1954	1961	1965	rBV2	2706582	4197883	69.70%	5.814%
32	13.718	1965	1968	1972	rVB2	327135	419830	6.97%	0.581%
33	13.773	1972	1977	1983	rBV4	277320	577333	9.59%	0.800%
34	13.840	1983	1988	1993	rBV4	282688	678301	11.26%	0.939%
35	13.938	2001	2004	2009	rVB2	367489	494631	8.21%	0.685%
36	13.999	2009	2014	2018	rBV5	141409	277146	4.60%	0.384%

Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

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\82Y121724S.M
Title : SW846 8260

37	14.066	2019	2025	2029	rVV2	318881	609734	10.12%	0.844%
38	14.114	2029	2033	2036	rVV3	389552	628452	10.43%	0.870%
39	14.175	2036	2043	2050	rVV7	1548671	3801720	63.12%	5.265%
40	14.236	2050	2053	2059	rVV3	587451	845716	14.04%	1.171%
41	14.303	2060	2064	2067	rVV2	425756	649732	10.79%	0.900%
42	14.340	2067	2070	2075	rVB	897415	1242303	20.63%	1.720%
43	14.395	2075	2079	2086	rVB3	468169	819431	13.60%	1.135%
44	14.468	2087	2091	2094	rBV4	125084	236640	3.93%	0.328%
45	14.535	2097	2102	2109	rVV	3342949	4706494	78.14%	6.518%
46	14.602	2109	2113	2116	rVV2	716528	1112630	18.47%	1.541%
47	14.651	2116	2121	2127	rVB	2334796	3649462	60.59%	5.054%
48	14.724	2128	2133	2136	rBV4	366742	655329	10.88%	0.908%
49	14.767	2136	2140	2149	rVV4	821459	1943816	32.27%	2.692%
50	14.852	2149	2154	2159	rVB6	475386	959954	15.94%	1.329%
51	14.907	2159	2163	2166	rBV4	209260	409265	6.79%	0.567%
52	14.956	2166	2171	2176	rVV4	551522	1216490	20.20%	1.685%
53	15.011	2176	2180	2182	rVV2	514981	900432	14.95%	1.247%
54	15.053	2183	2187	2193	rVB3	1175331	2196832	36.47%	3.042%
55	15.126	2193	2199	2203	rBV	2293946	3691242	61.29%	5.112%
56	15.175	2203	2207	2215	rVB5	348485	892907	14.82%	1.237%
57	15.346	2230	2235	2241	rBV	4237546	6023066	100.00%	8.341%
58	15.413	2243	2246	2248	rVV4	290611	464217	7.71%	0.643%
59	15.450	2249	2252	2257	rVV3	631069	1112507	18.47%	1.541%
60	15.510	2257	2262	2268	rVB2	1024072	1887465	31.34%	2.614%
61	15.864	2317	2320	2324	rBV2	308879	476548	7.91%	0.660%
62	15.919	2324	2329	2335	rVV5	691247	1709389	28.38%	2.367%
63	15.986	2335	2340	2346	rVB4	679938	1482083	24.61%	2.052%
64	16.053	2346	2351	2359	rVB	1516260	2674814	44.41%	3.704%
65	16.254	2378	2384	2389	rBV	3086922	5451255	90.51%	7.549%
66	16.358	2397	2401	2405	rBV3	284518	531164	8.82%	0.736%

Sum of corrected areas: 72209145

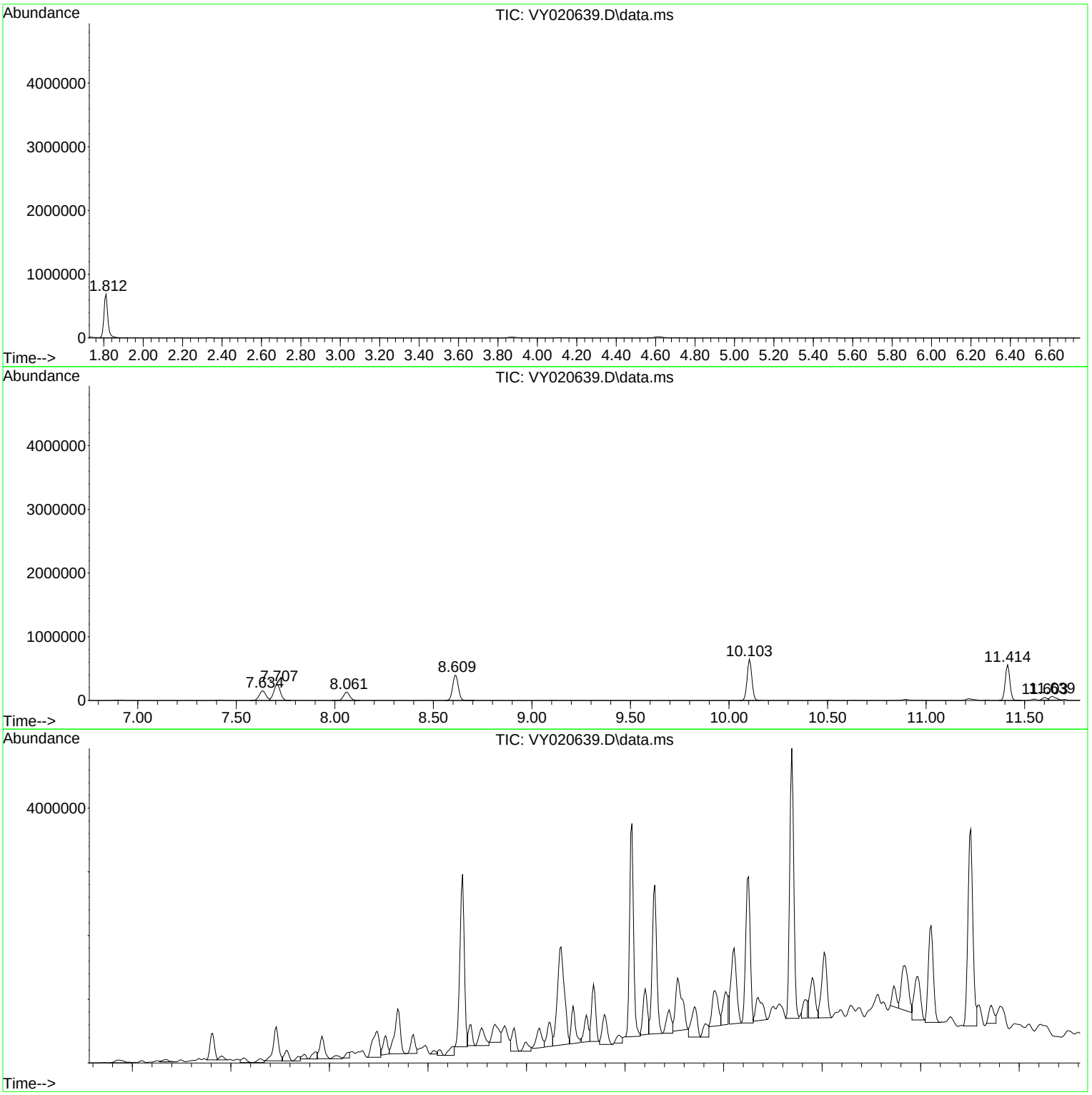
Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

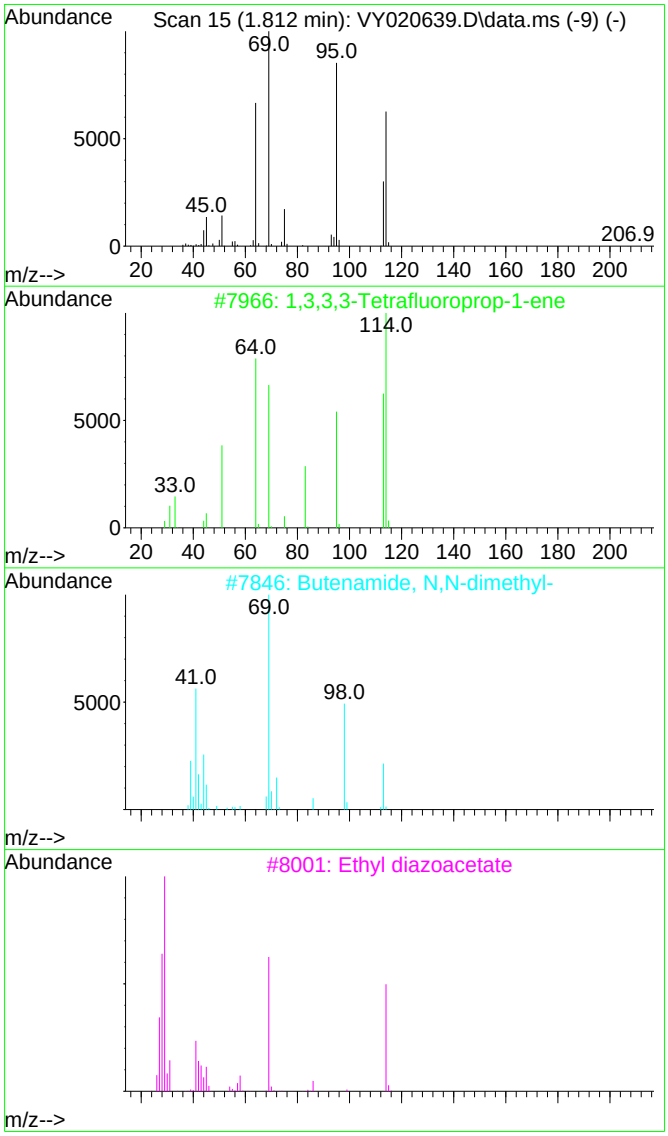
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

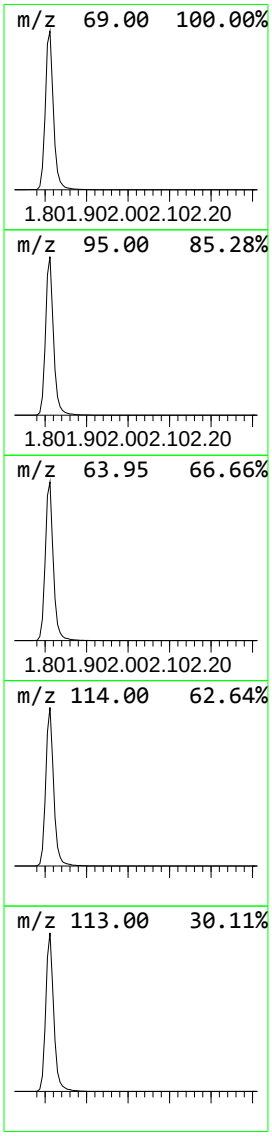
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown1.812 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.812	82.72 ug/l	941421	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,3,3-Tetrafluoroprop-1-ene	114	C3H2F4	1000389-53-0	10
2	Butenamide, N,N-dimethyl-	113	C6H11NO	023135-18-4	9
3	Ethyl diazoacetate	114	C4H6N2O2	000623-73-4	9
4	2-Pentenoic acid, 2-methyl-	114	C6H10O2	003142-72-1	9
5	3-Pyridinol	95	C5H5NO	000109-00-2	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

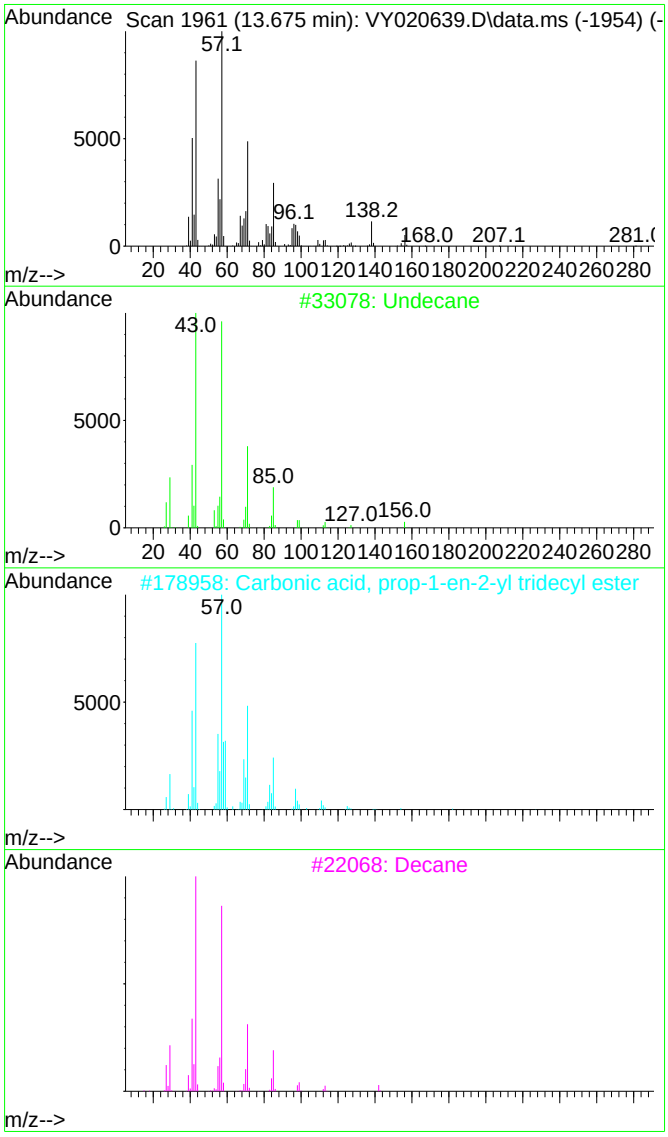
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

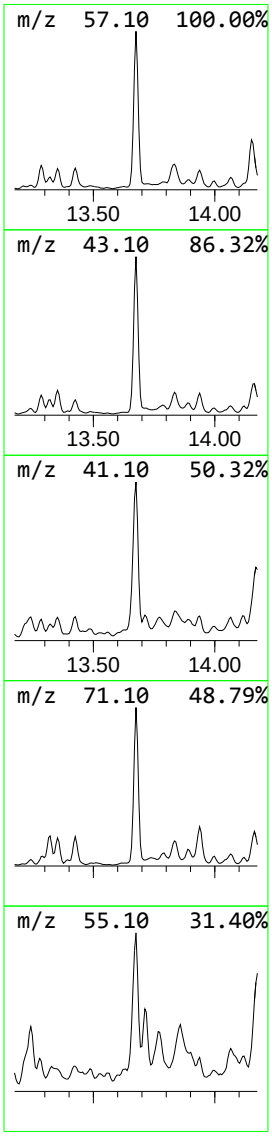
****

Peak Number 2 Undecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	151.01 ug/l	4197880	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	81
2	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	80
3	Decane	142	C10H22	000124-18-5	64
4	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	64
5	Tetradecane	198	C14H30	000629-59-4	64





Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

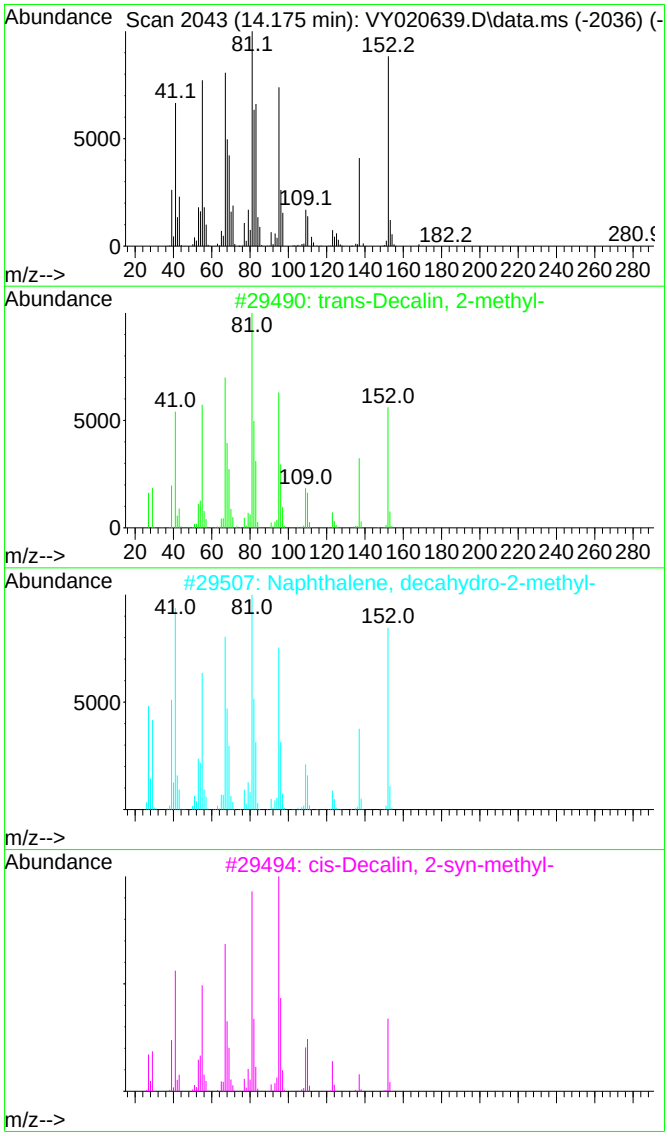
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

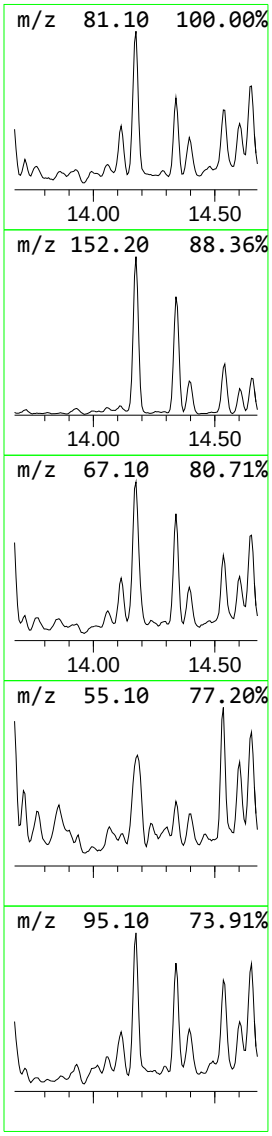
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 trans-Decalin, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.175	136.76 ug/l	3801720	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
3	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	74
4	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	68
5	Decalin, anti-1-methyl-, cis-	152	C11H20	1000158-89-0	68





Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

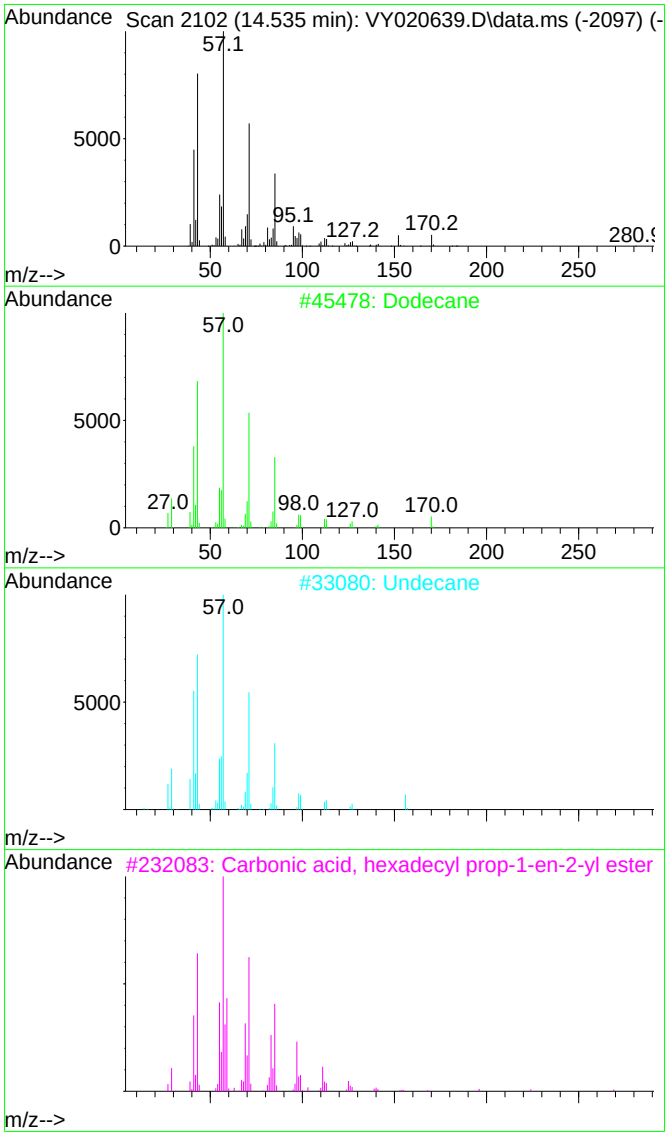
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

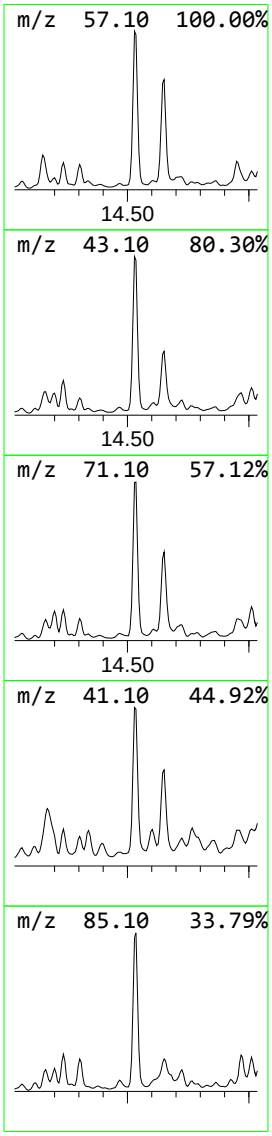
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.535	169.31 ug/l	4706490	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	96
2	Undecane	156	C11H24	001120-21-4	72
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	72
4	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	64
5	Hexadecane	226	C16H34	000544-76-3	64





Sample Results: **VY020639.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

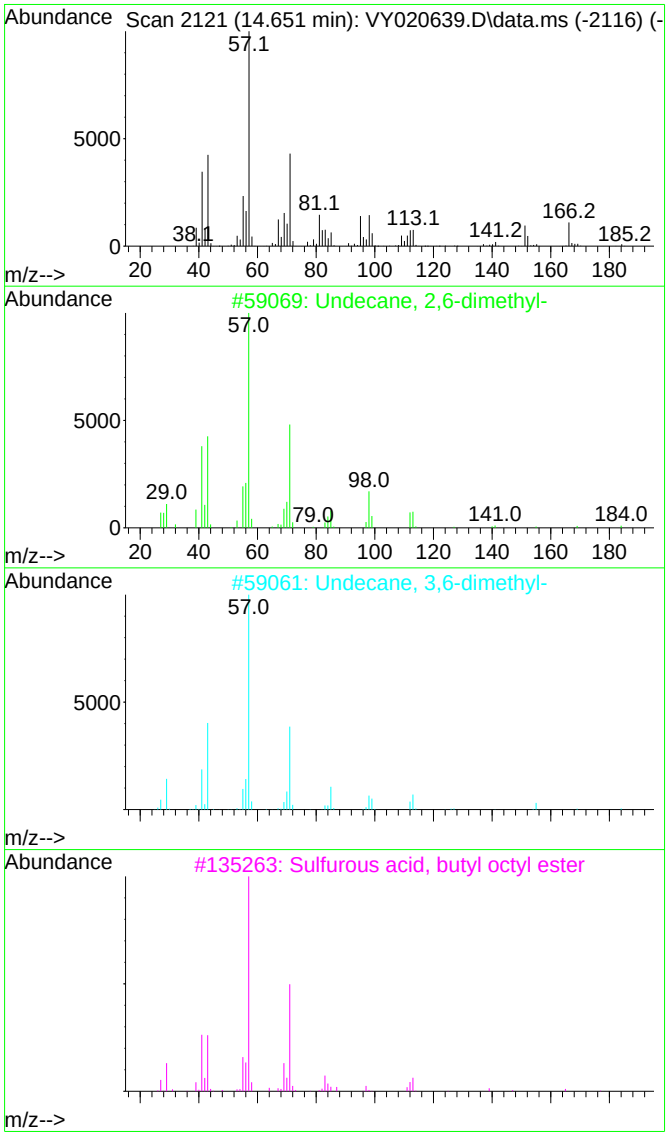
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

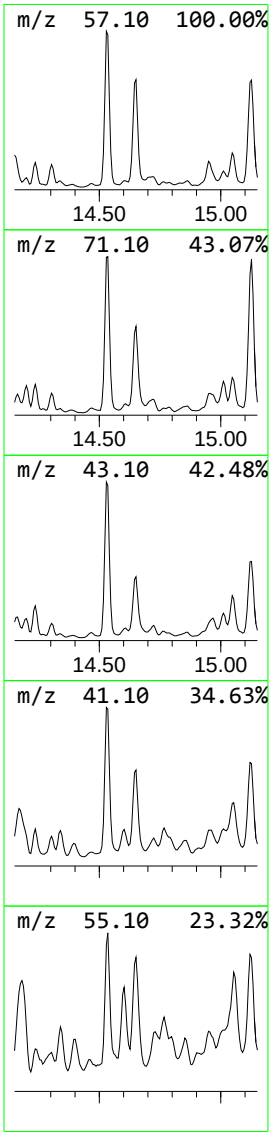
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Undecane, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	131.29 ug/l	3649460	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	93
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	60
3	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	49
4	Dodecane, 6-methyl-	184	C13H28	006044-71-9	45
5	Sulfurous acid, 2-ethylhexyl oct...	446	C26H54O3S	1000309-20-1	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

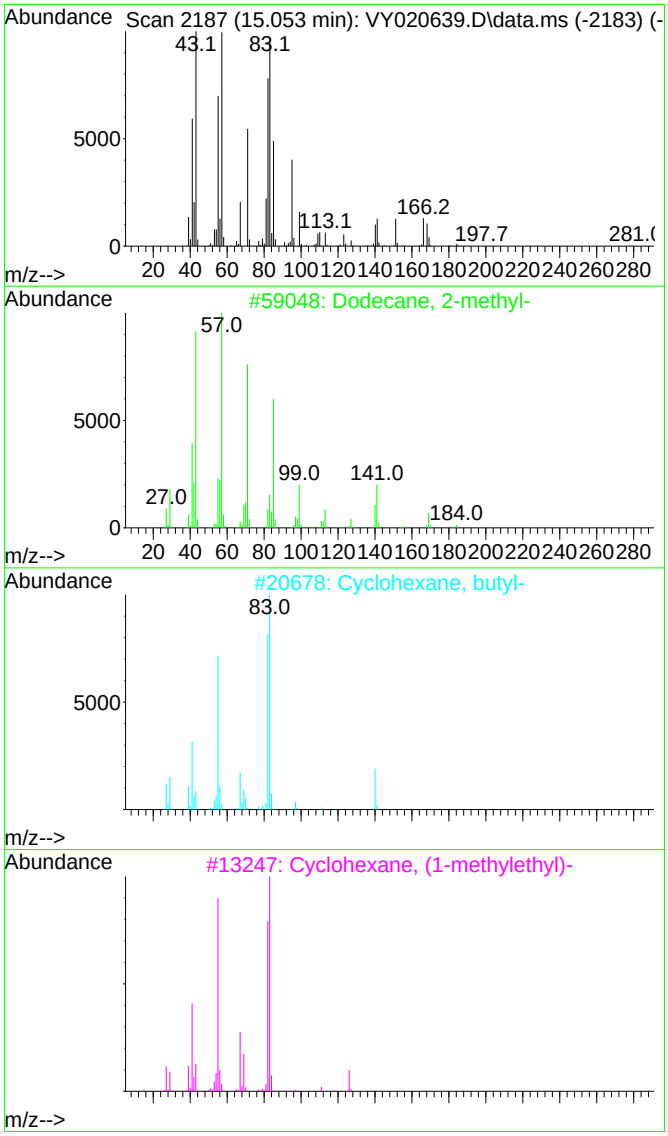
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

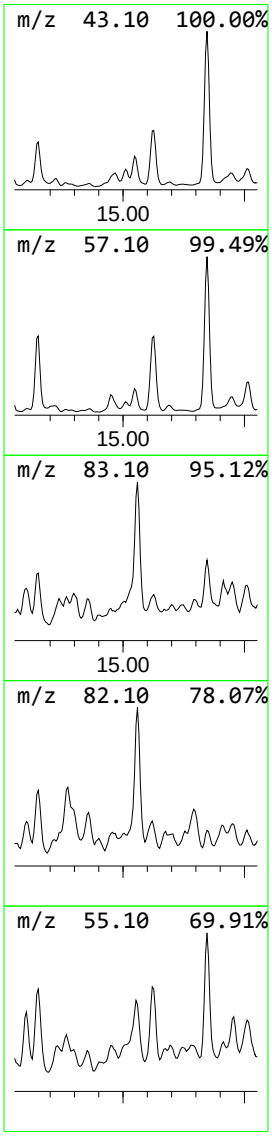
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Dodecane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	79.03 ug/l	2196830	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-	184	C13H28	001560-97-0	64
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	43
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	35
4	1,1'-Bicyclohexyl	166	C12H22	000092-51-3	22
5	Undecane, 3-methyl-	170	C12H26	001002-43-3	18





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

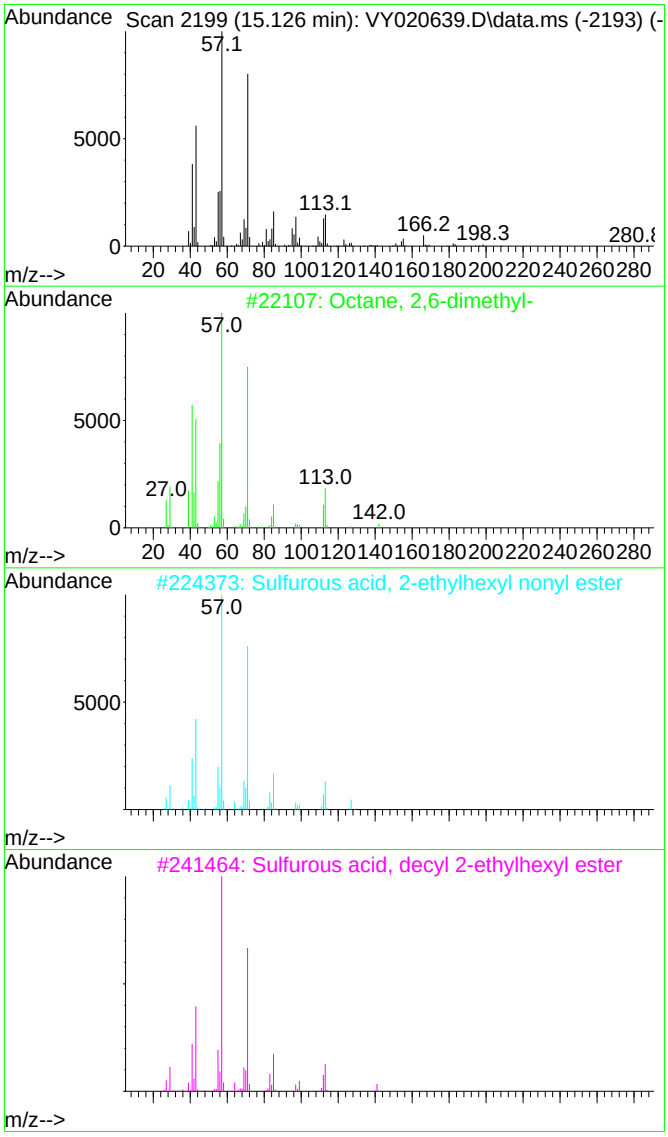
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

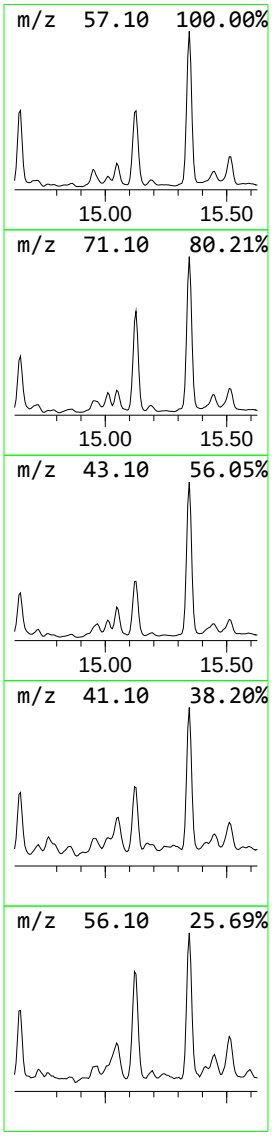
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Octane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.126	132.79 ug/l	3691240	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	81
2	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	72
3	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	72
4	Oxalic acid, 2-ethylhexyl nonyl ...	328	C19H36O4	1000309-39-2	64
5	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

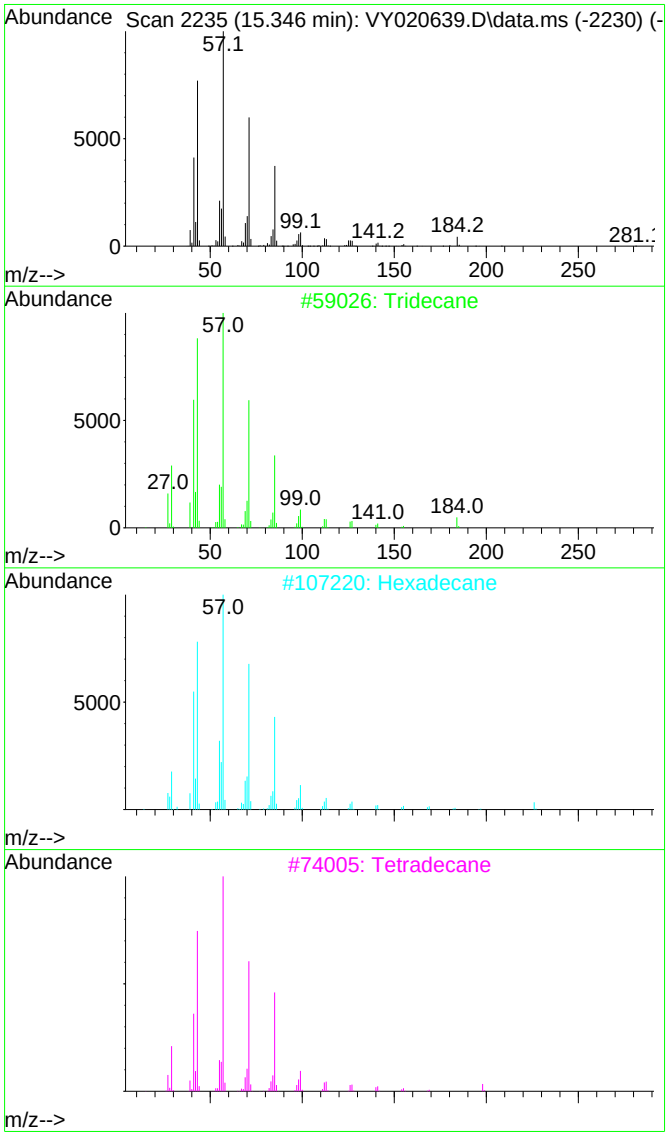
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

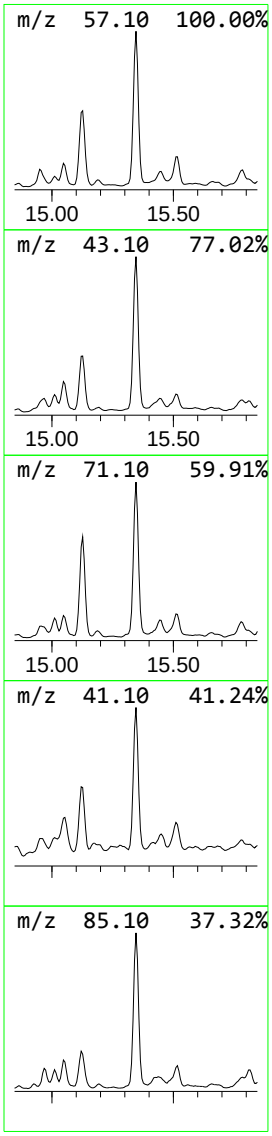
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Tridecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	216.67 ug/l	6023070	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	94
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tetradecane	198	C14H30	000629-59-4	80
4	Hexadecane, 7,9-dimethyl-	254	C18H38	021164-95-4	80
5	Dodecane	170	C12H26	000112-40-3	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

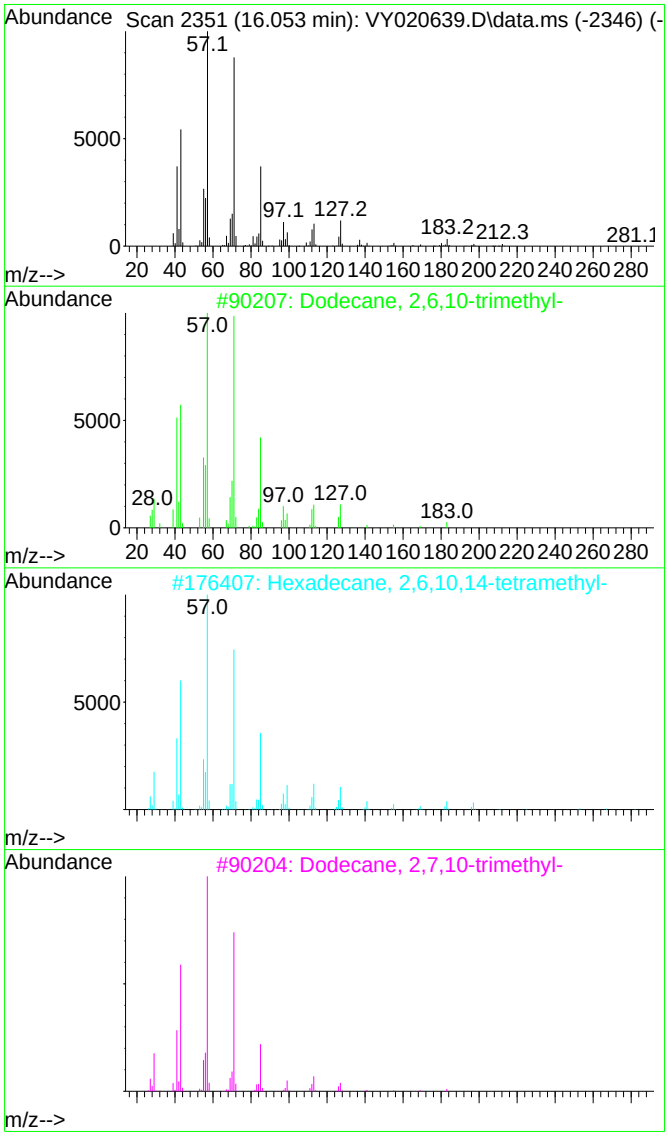
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

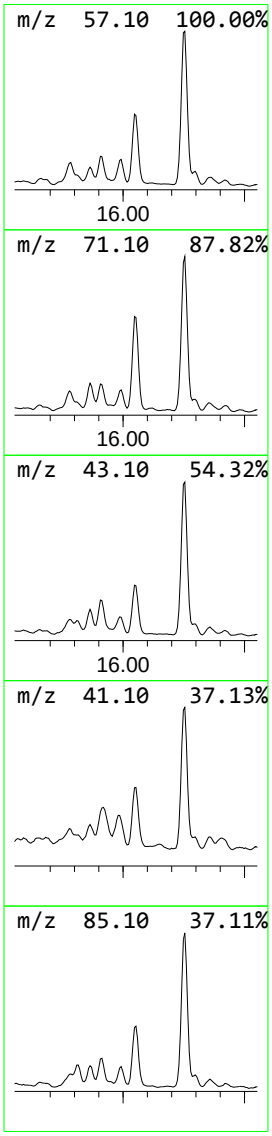
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Dodecane, 2,6,10-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.053	96.22 ug/l	2674810	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	90
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	90
3	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
4	Octane, 2-methyl-	128	C9H20	003221-61-2	81
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

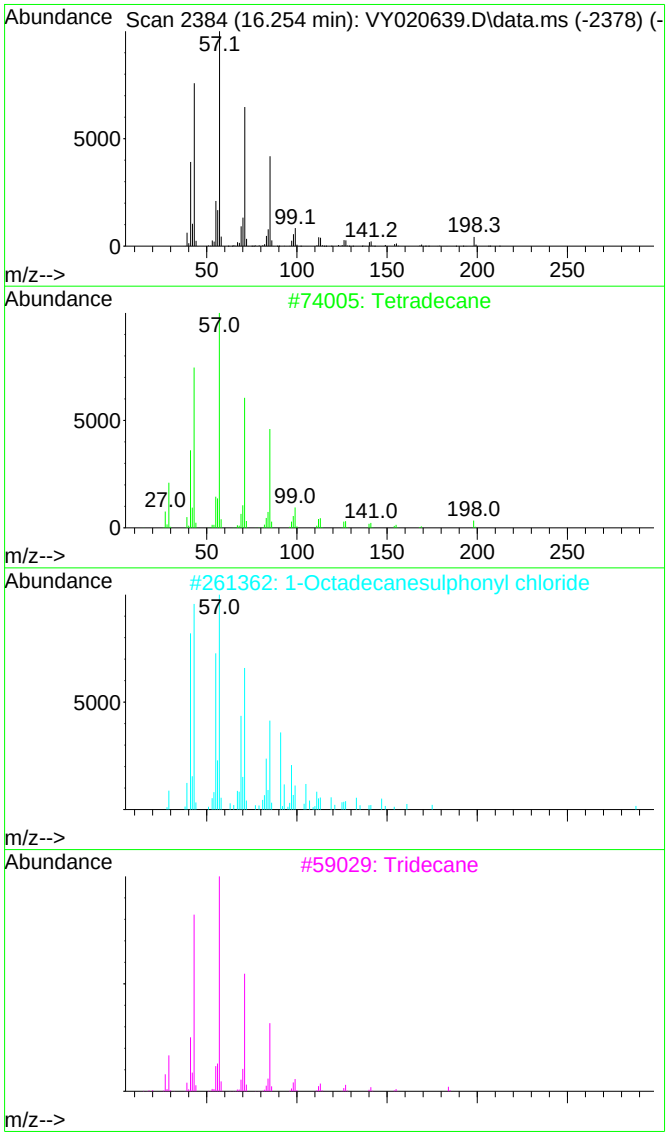
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

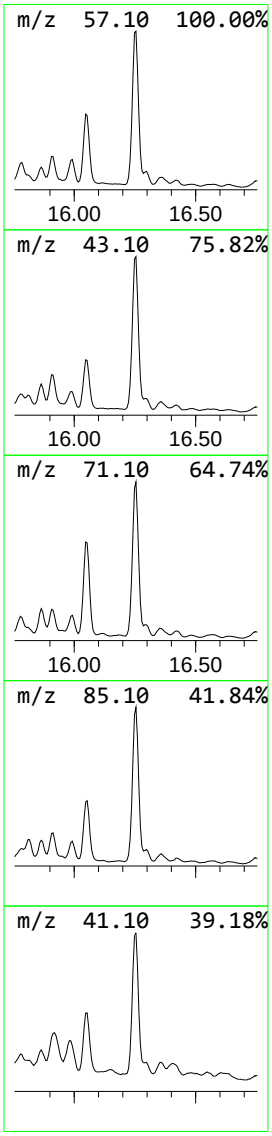
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Tetradecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.254	196.10 ug/l	5451260	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	1-Octadecanesulphonyl chloride	352	C18H37ClO2S	1000342-70-4	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Dodecane	170	C12H26	000112-40-3	90
5	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020639.D
Acq On : 18 Dec 2024 16:27
Operator : SY/MD
Sample : P5299-02
Misc : 7.22g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.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
unknown1.812	1.812	82.7	ug/l	941421	1	7.707	569026	50.0
Undecane	13.676	151.0	ug/l	4197880	4	13.346	1389910	50.0
trans-Decalin, ...	14.175	136.8	ug/l	3801720	4	13.346	1389910	50.0
Dodecane	14.535	169.3	ug/l	4706490	4	13.346	1389910	50.0
Undecane, 2,6-d...	14.651	131.3	ug/l	3649460	4	13.346	1389910	50.0
Dodecane, 2-met...	15.053	79.0	ug/l	2196830	4	13.346	1389910	50.0
Octane, 2,6-dim...	15.126	132.8	ug/l	3691240	4	13.346	1389910	50.0
Tridecane	15.346	216.7	ug/l	6023070	4	13.346	1389910	50.0
Dodecane, 2,6,1...	16.053	96.2	ug/l	2674810	4	13.346	1389910	50.0
Tetradecane	16.254	196.1	ug/l	5451260	4	13.346	1389910	50.0

Raw Data: **VY020640.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	68.8
Sample Wt/Vol:	5.73 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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.30	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.30	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.30	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	6.30	ug/Kg
67-64-1	Acetone	85.6		7.90	31.7	ug/Kg
75-15-0	Carbon Disulfide	3.70	J	1.60	6.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.85	U	0.85	6.30	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.30	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	6.30	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	6.30	ug/Kg
78-93-3	2-Butanone	22.5	J	7.20	31.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.77	U	0.77	6.30	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.30	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	6.30	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.30	ug/Kg
71-43-2	Benzene	0.91	U	0.91	6.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.77	U	0.77	6.30	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	6.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.30	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	6.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.50	U	5.50	31.7	ug/Kg
108-88-3	Toluene	0.85	U	0.85	6.30	ug/Kg

Raw Data: **VY020640.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	68.8
Sample Wt/Vol:	5.73 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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.76	U	0.76	6.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.72	U	0.72	6.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.30	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	31.7	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	6.30	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.30	ug/Kg
108-90-7	Chlorobenzene	0.94	U	0.94	6.30	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	6.30	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.7	ug/Kg
95-47-6	o-Xylene	0.89	U	0.89	6.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	6.30	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.30	ug/Kg
98-82-8	Isopropylbenzene	0.85	U	0.85	6.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.94	U	0.94	6.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.75	U	0.75	6.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.99	U	0.99	6.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	43.6		70 (54) - 130 (147)	87%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.0		70 (29) - 130 (146)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	224000	7.707			
540-36-3	1,4-Difluorobenzene	392000	8.609			
3114-55-4	Chlorobenzene-d5	338000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020640.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-01	SDG No.:	P5299
Lab Sample ID:	P5299-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	68.8
Sample Wt/Vol:	5.73 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
VY020640.D	1		12/18/24 16:51	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown1.812	30.8	J		1.81	ug/Kg
000629-62-9	Pentadecane	49.7	J		12.2	ug/Kg
000112-40-3	Dodecane	8.40	J		14.5	ug/Kg
	unknown14.645	9.00	J		14.6	ug/Kg
066633-38-3	Cyclodecene, 1-methyl-	6.80	J		14.8	ug/Kg
066552-62-3	Naphthalene, decahydro-1,5-dimethy	7.50	J		15.1	ug/Kg
	unknown15.120	10.1	J		15.1	ug/Kg
000629-50-5	Tridecane	13.9	J		15.3	ug/Kg
000629-59-4	Tetradecane	15.3	J		16.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:50:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

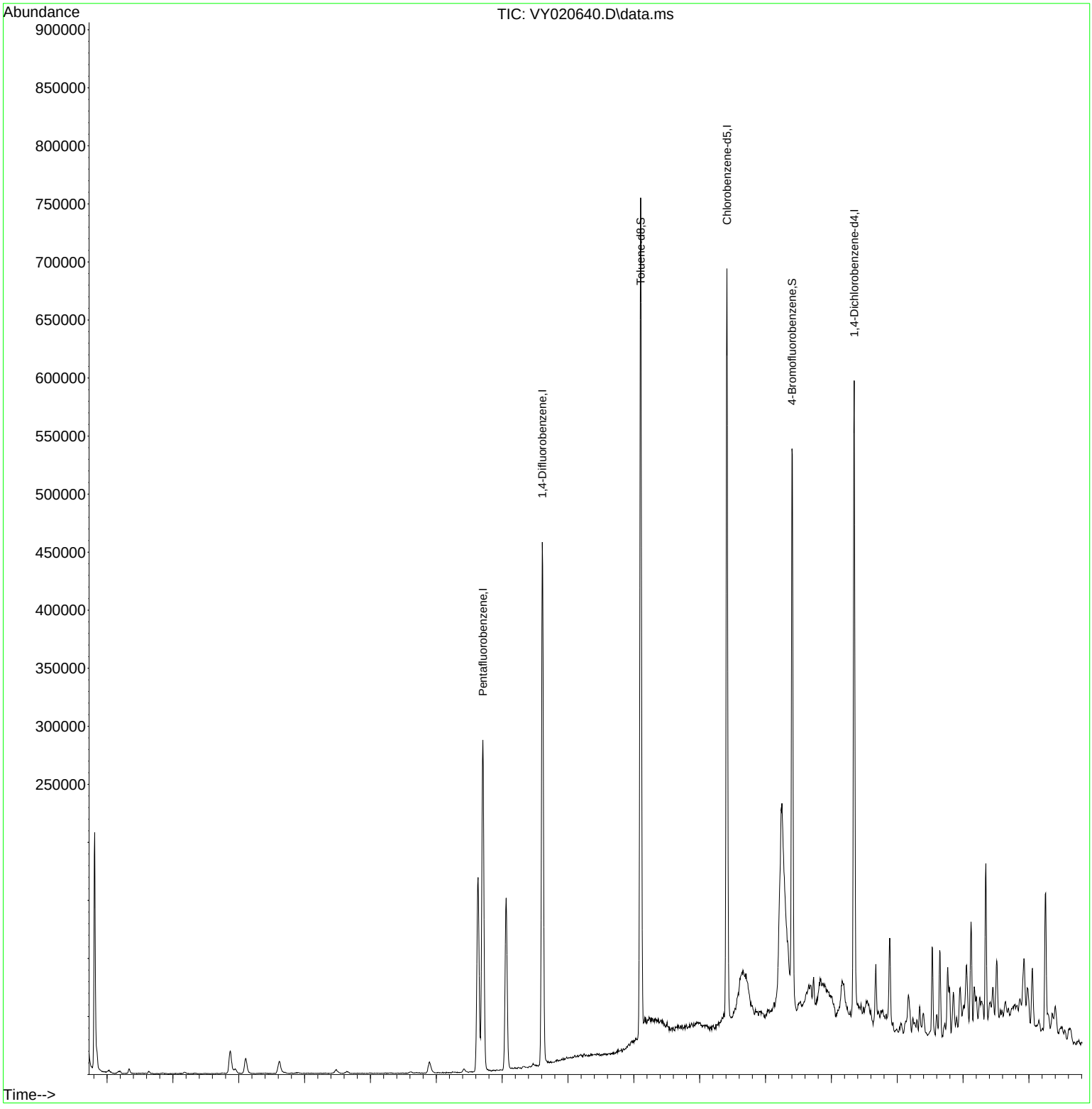
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	223514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	392391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	337704	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	119025	48.622	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.240%		
35) Dibromofluoromethane	7.634	113	120658	43.630	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	87.260%		
50) Toluene-d8	10.103	98	476055	49.181	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.360%		
62) 4-Bromofluorobenzene	12.401	95	151545	40.024	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	80.040%		
Target Compounds						Qvalue
16) Acetone	3.872	43	35108	67.492	ug/l	96
17) Carbon Disulfide	4.110	76	26537	2.910	ug/l	97
25) 2-Butanone	6.896	43	16117	17.716	ug/l	96

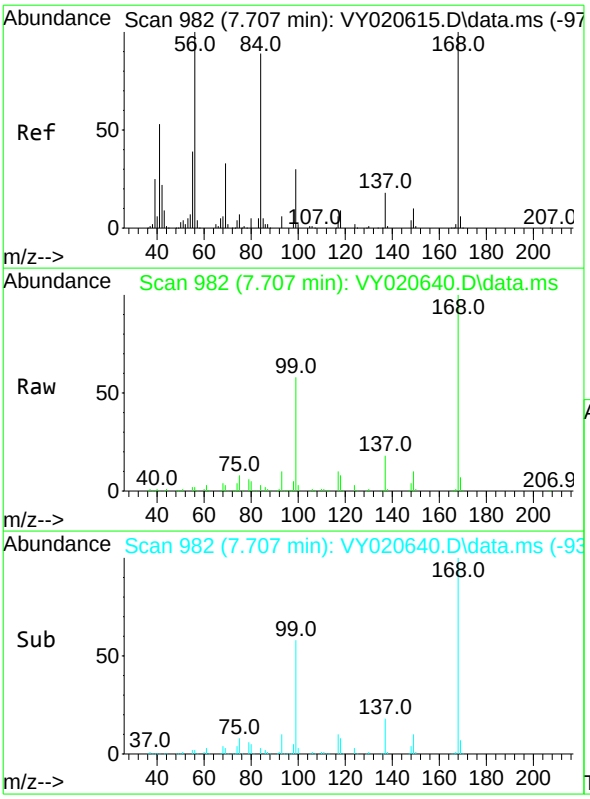
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Time: Dec 19 02:50:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



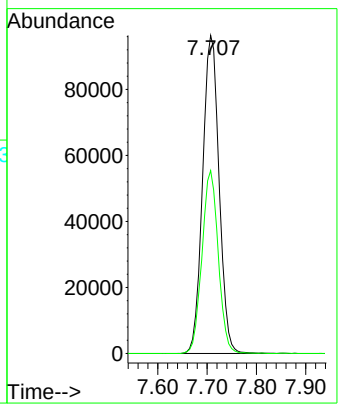


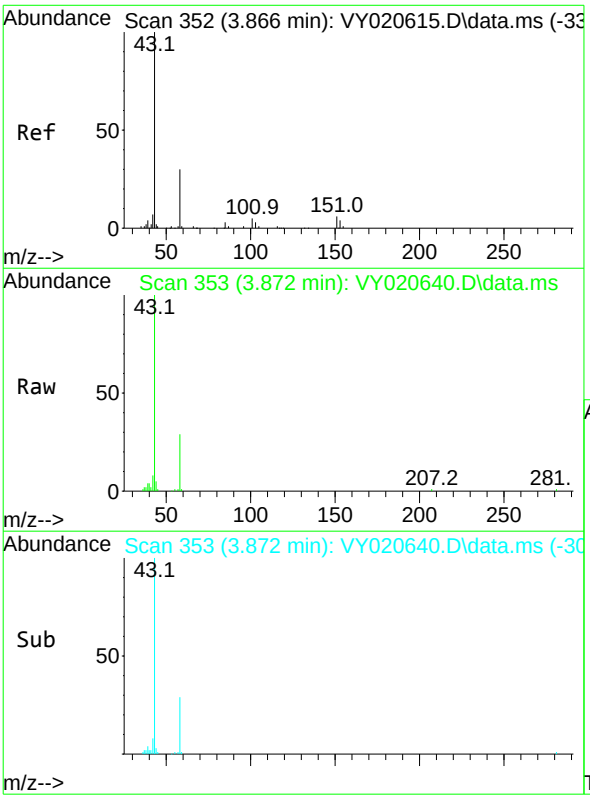
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:168 Resp: 223514

Ion	Ratio	Lower	Upper
168	100		
99	57.5	47.0	70.6

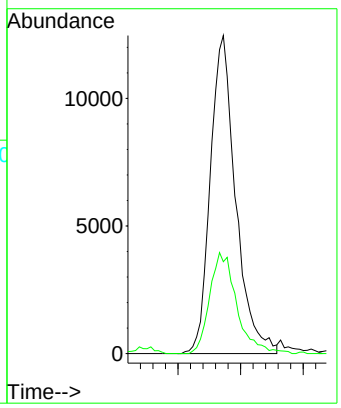


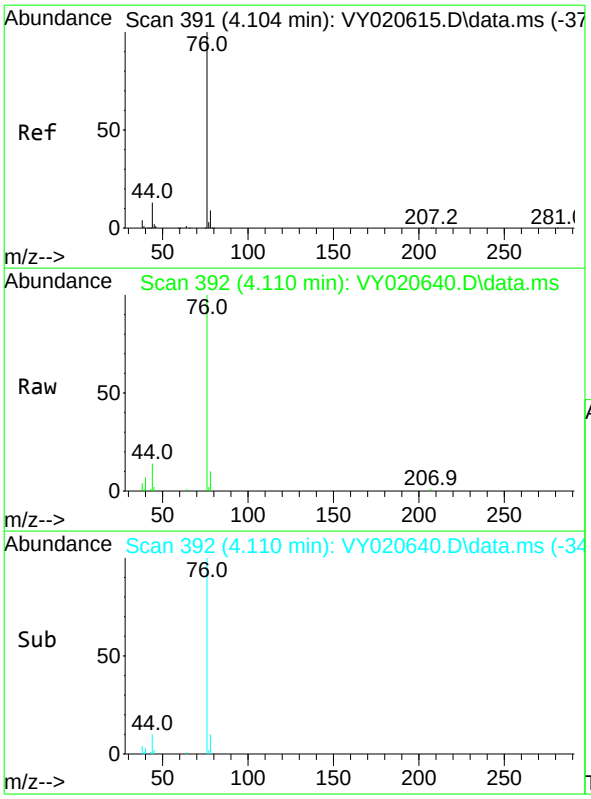


#16
Acetone
Concen: 67.492 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion: 43 Resp: 35108

Ion	Ratio	Lower	Upper
43	100		
58	28.9	25.0	37.6



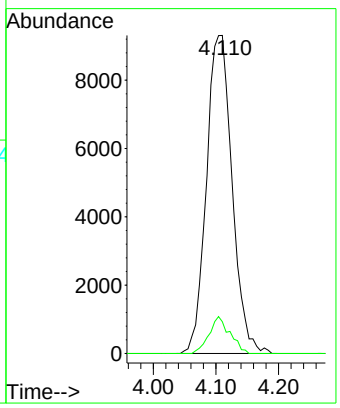


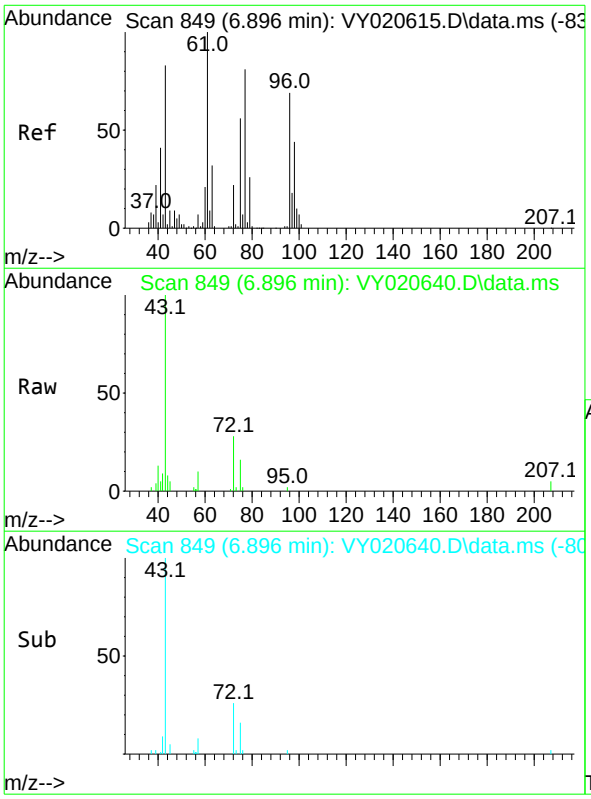
#17
Carbon Disulfide
Concen: 2.910 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion: 76 Resp: 26537

Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.2	10.8

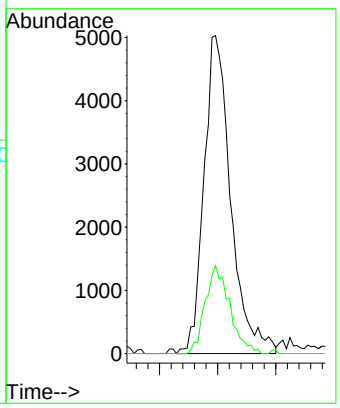


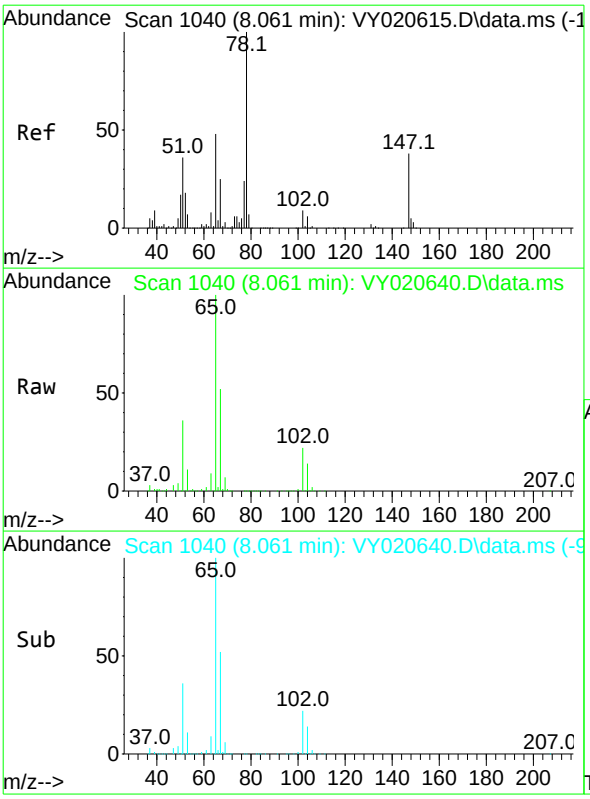


#25
2-Butanone
Concen: 17.716 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion: 43 Resp: 16117

Ion	Ratio	Lower	Upper
43	100		
72	27.6	20.6	31.0



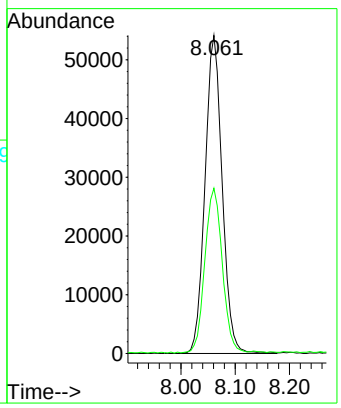


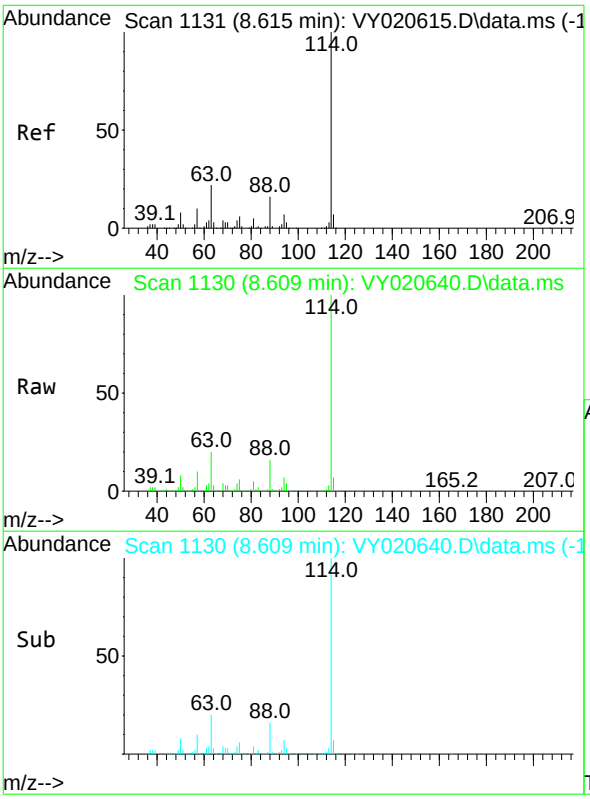
#33
1,2-Dichloroethane-d4
Concen: 48.622 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion: 65 Resp: 119025

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.0

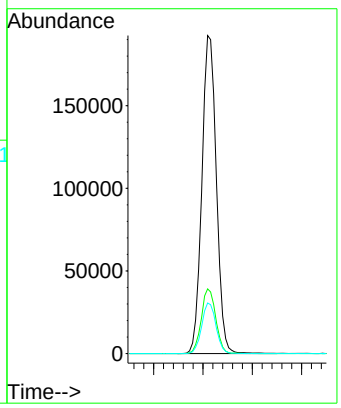


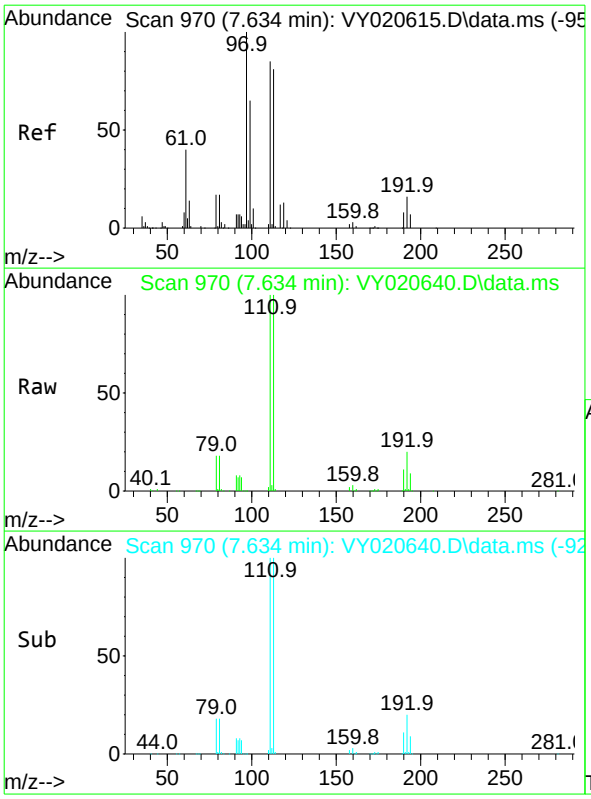


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion:114 Resp: 392391

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	44.0
88	15.9	0.0	32.8



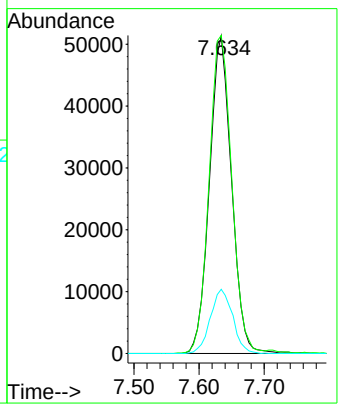


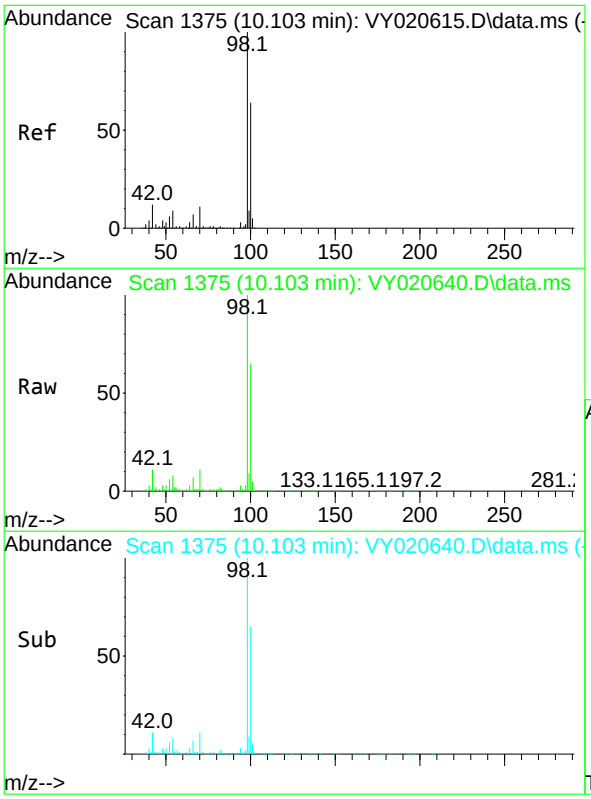
#35
Dibromofluoromethane
Concen: 43.630 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:113 Resp: 120658

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.9	124.3
192	20.5	15.7	23.5

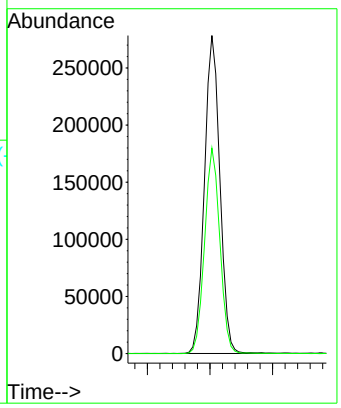


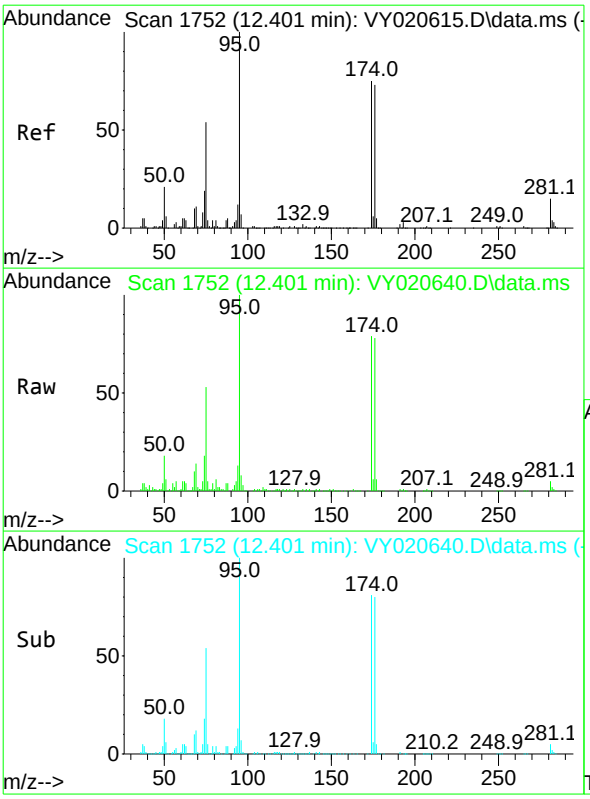


#50
Toluene-d8
Concen: 49.181 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion: 98 Resp: 476055

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.1	78.1



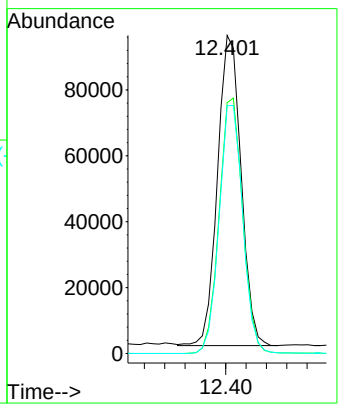


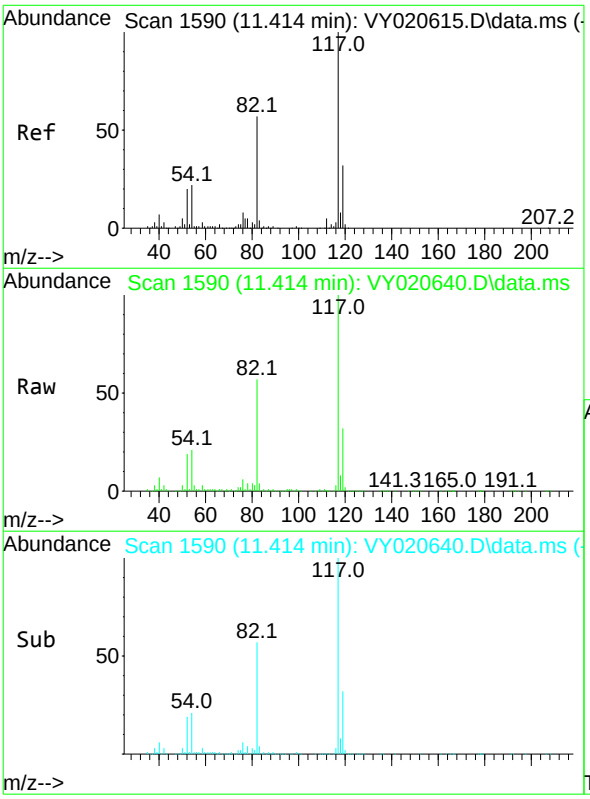
#62
4-Bromofluorobenzene
Concen: 40.024 ug/l
RT: 12.401 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion: 95 Resp: 151545

Ion	Ratio	Lower	Upper
95	100		
174	82.1	0.0	161.8
176	80.1	0.0	156.6

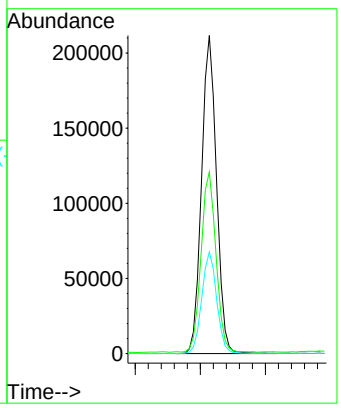


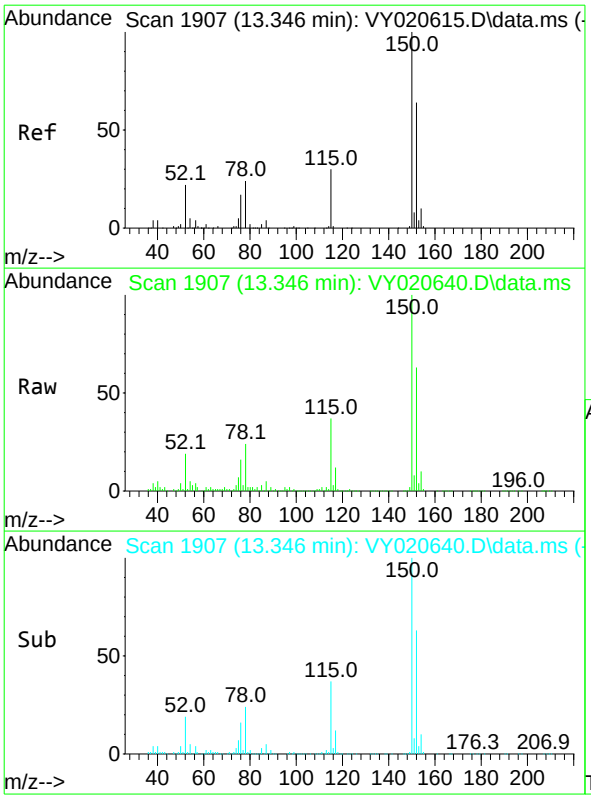


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Tgt Ion:117 Resp: 337704

Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.8	68.6
119	31.9	25.3	37.9



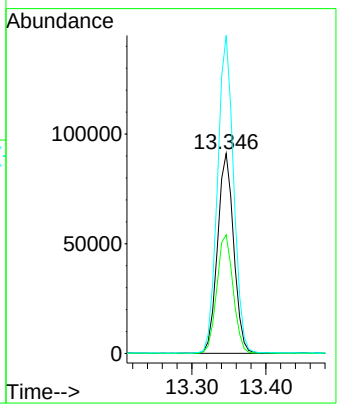


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020640.D
Acq: 18 Dec 2024 16:51

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Tgt Ion:152 Resp: 138439

Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.2	90.6
150	158.0	0.0	355.4



Sample Results: **VY020640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

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\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020640.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	10	15	33	rVB2	206063	317384	25.23%	3.343%
2	3.872	340	353	362	rBV2	19315	56615	4.50%	0.596%
3	4.104	381	391	405	rBV	12924	36387	2.89%	0.383%
4	4.616	465	475	487	rBV3	10526	34159	2.72%	0.360%
5	6.896	840	849	862	rBV2	9718	30541	2.43%	0.322%
6	7.634	961	970	976	rBV	167295	406450	32.32%	4.282%
7	7.707	976	982	997	rVB	285084	654529	52.04%	6.895%
8	8.061	1031	1040	1051	rBV	148407	335156	26.65%	3.531%
9	8.609	1123	1130	1143	rBV	450495	910242	72.37%	9.589%
10	10.103	1368	1375	1382	rBV	723615	1257732	100.00%	13.249%
11	11.414	1584	1590	1600	rVB	645467	1036391	82.40%	10.918%
12	12.249	1715	1727	1740	rBV2	159714	812599	64.61%	8.560%
13	12.401	1747	1752	1763	rVB2	484079	838079	66.63%	8.829%
14	13.346	1901	1907	1915	rBV	542633	851326	67.69%	8.968%
15	13.676	1957	1961	1965	rBV	45194	61063	4.86%	0.643%
16	13.889	1991	1996	2002	rVB	74994	125622	9.99%	1.323%
17	14.169	2039	2042	2050	rVB8	31675	71319	5.67%	0.751%
18	14.236	2050	2053	2055	rBV3	12247	15959	1.27%	0.168%
19	14.340	2067	2070	2075	rBV3	20812	31954	2.54%	0.337%
20	14.395	2076	2079	2086	rVB6	17003	32058	2.55%	0.338%
21	14.529	2097	2101	2109	rVB2	76056	112534	8.95%	1.185%
22	14.602	2109	2113	2116	rBV4	17562	29415	2.34%	0.310%
23	14.645	2116	2120	2126	rVB2	74489	120424	9.57%	1.269%
24	14.724	2128	2133	2135	rBV6	10998	19677	1.56%	0.207%
25	14.767	2135	2140	2143	rBV3	53238	91274	7.26%	0.962%
26	14.852	2148	2154	2159	rBV5	34884	69628	5.54%	0.733%
27	14.956	2166	2171	2175	rBV5	33518	67801	5.39%	0.714%
28	15.053	2182	2187	2193	rVB8	48521	100899	8.02%	1.063%
29	15.120	2193	2198	2203	rBV2	85609	135659	10.79%	1.429%
30	15.169	2203	2206	2209	rBV3	29169	45563	3.62%	0.480%
31	15.255	2216	2220	2222	rBV4	17660	27666	2.20%	0.291%
32	15.346	2230	2235	2240	rBV	134404	186768	14.85%	1.967%
33	15.450	2250	2252	2257	rVB4	23343	31988	2.54%	0.337%
34	15.511	2257	2262	2268	rVB3	48782	89461	7.11%	0.942%
35	15.925	2324	2330	2335	rBV4	41361	91126	7.25%	0.960%
36	15.974	2336	2338	2346	rVB5	30478	63177	5.02%	0.666%

Sample Results: **VY020640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

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\82Y121724S.M
Title : SW846 8260

37	16.053	2346	2351	2357	rVB4	49645	88765	7.06%	0.935%
38	16.254	2378	2384	2388	rBV	118156	205341	16.33%	2.163%

Sum of corrected areas: 9492731

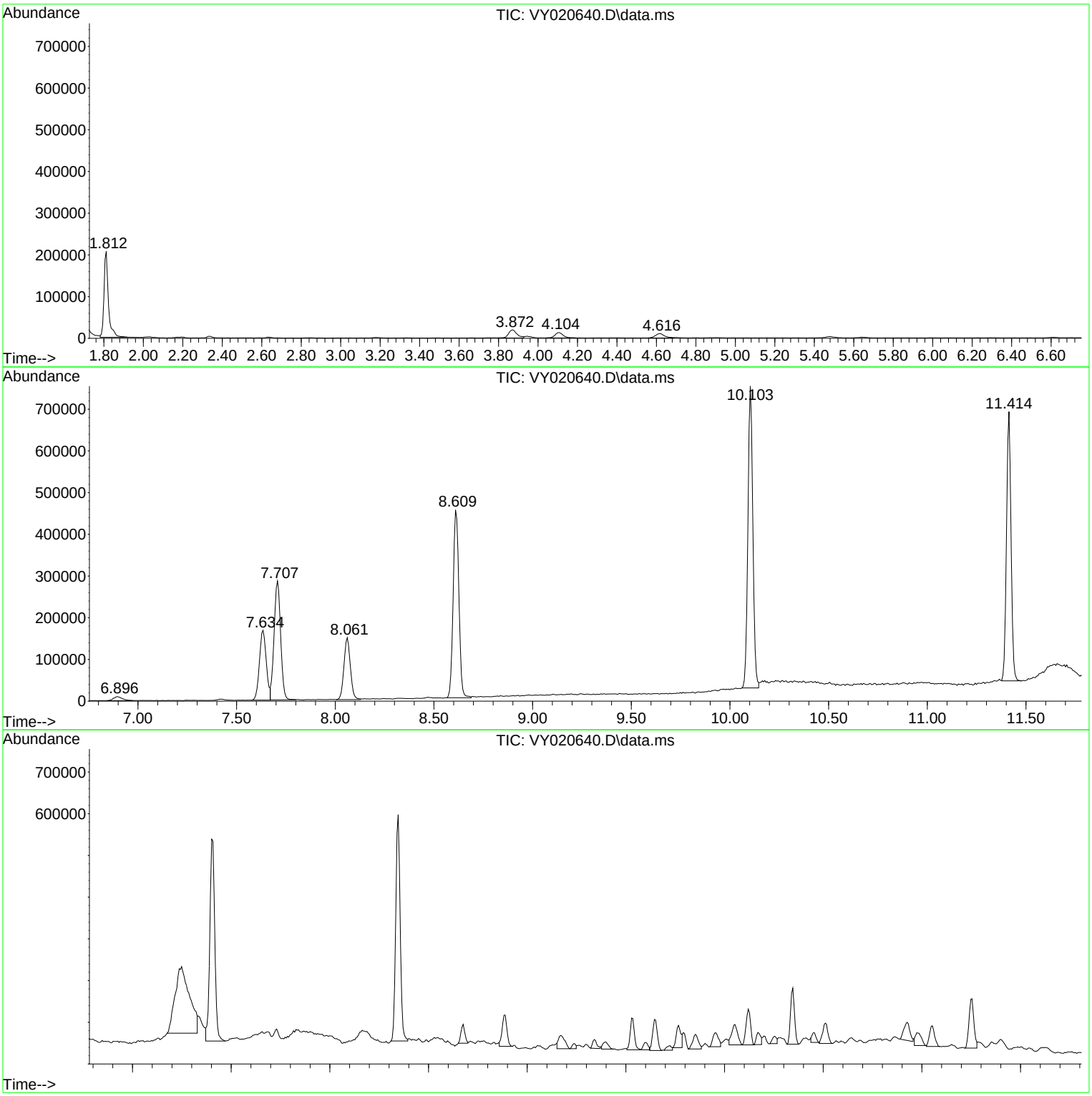
Sample Results: **VY020640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

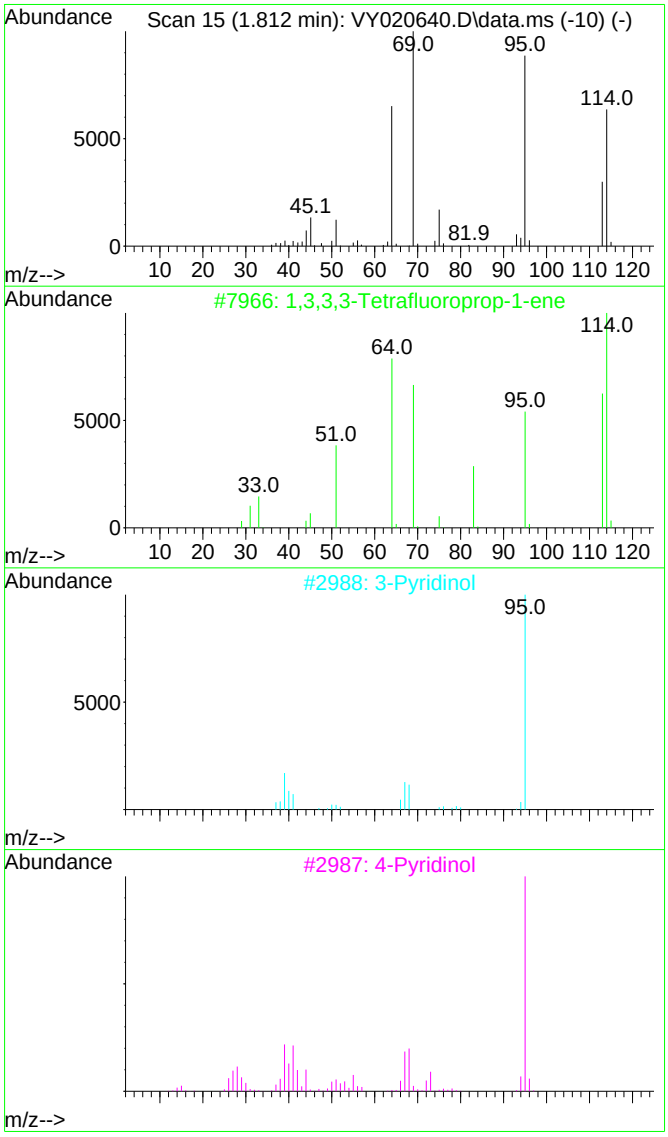
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

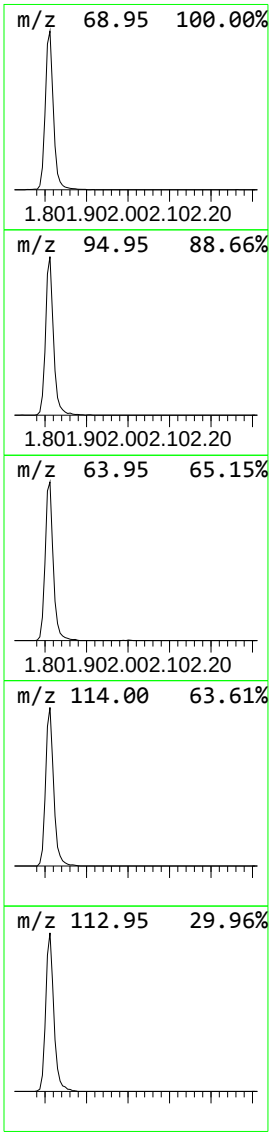
****

Peak Number 1 unknown1.812 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.812	24.25 ug/l	317384	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,3,3-Tetrafluoroprop-1-ene	114	C3H2F4	1000389-53-0	28
2	3-Pyridinol	95	C5H5NO	000109-00-2	9
3	4-Pyridinol	95	C5H5NO	000626-64-2	9
4	Butenamide, N,N-dimethyl-	113	C6H11NO	023135-18-4	9
5	Ethyl diazoacetate	114	C4H6N2O2	000623-73-4	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

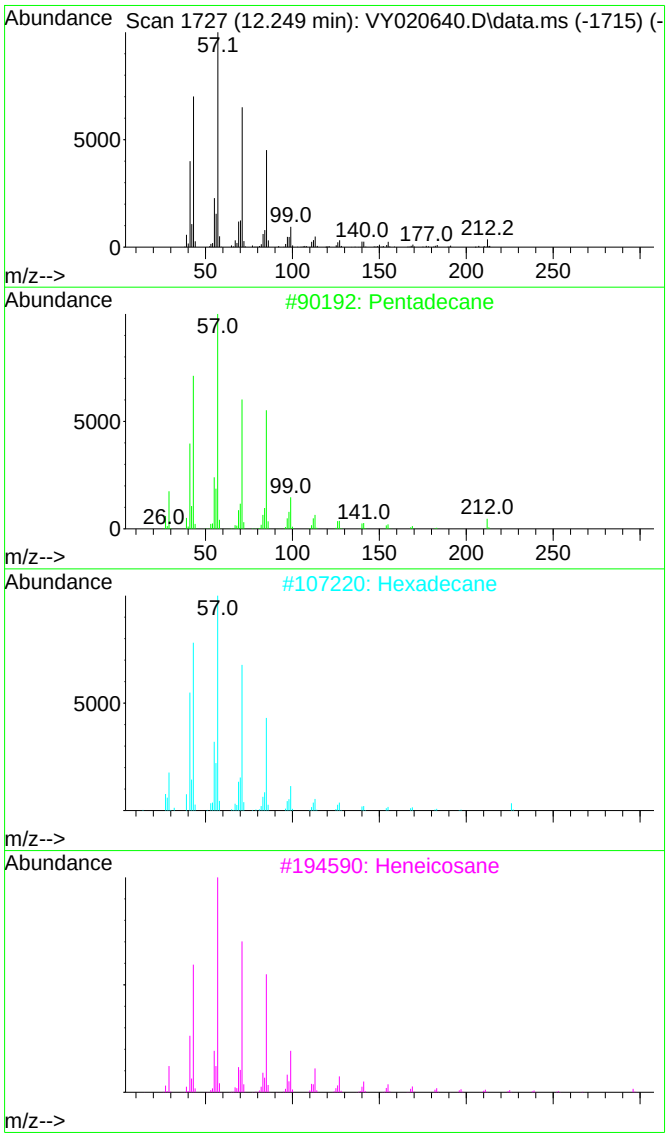
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

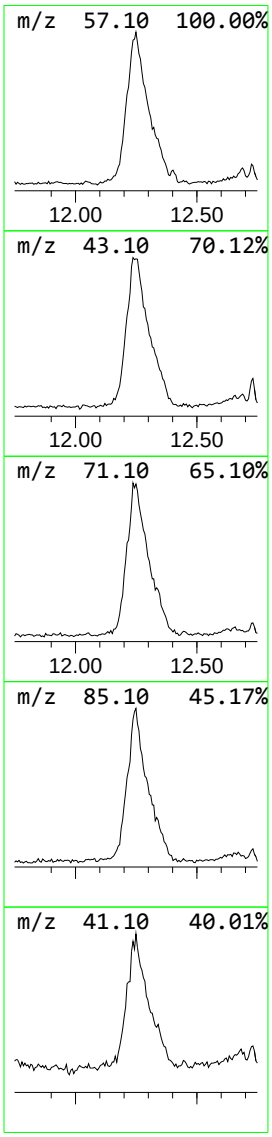
****

Peak Number 2 Pentadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.249	39.20 ug/l	812599	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	96
2	Hexadecane	226	C16H34	000544-76-3	91
3	Heneicosane	296	C21H44	000629-94-7	90
4	Nonadecane	268	C19H40	000629-92-5	87
5	Tetradecane	198	C14H30	000629-59-4	87





Sample Results: **VY020640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

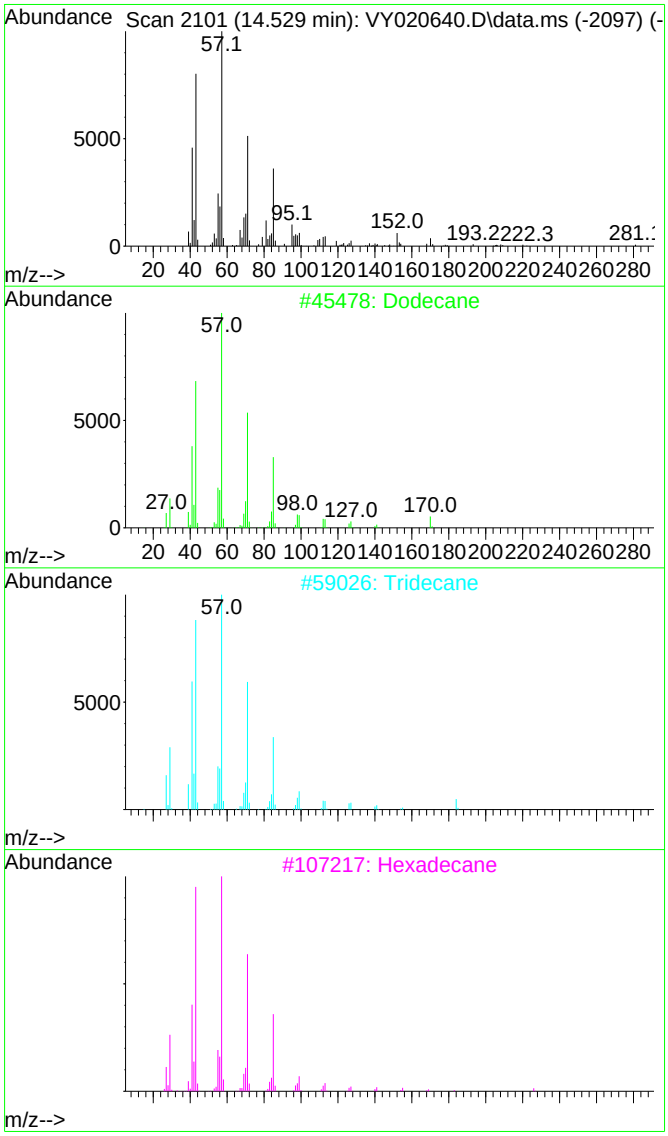
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

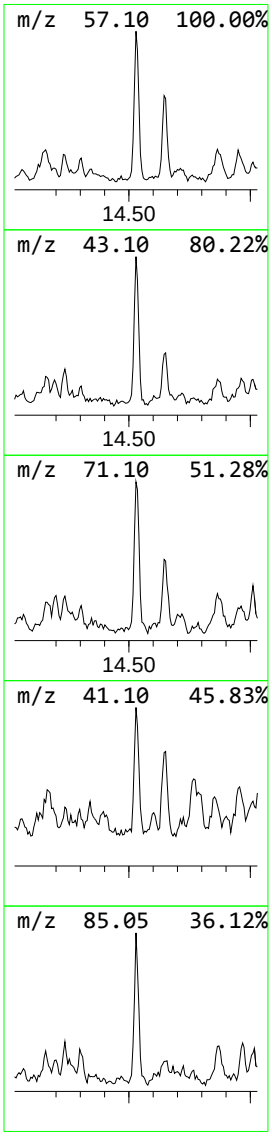
****

Peak Number 4 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	6.61 ug/l	112534	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	93
2	Tridecane	184	C13H28	000629-50-5	72
3	Hexadecane	226	C16H34	000544-76-3	72
4	Tetradecane	198	C14H30	000629-59-4	72
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

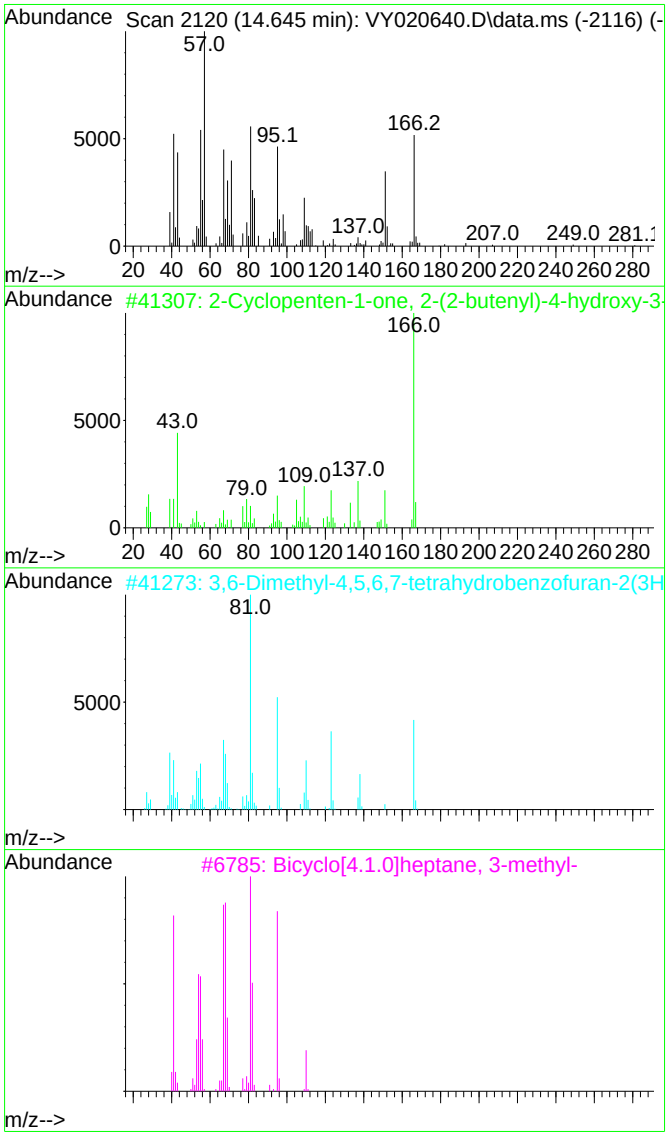
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

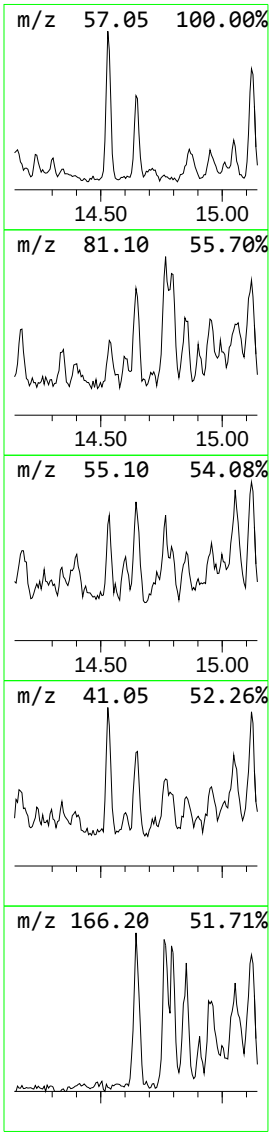
****

Peak Number 5 unknown14.645 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	7.07 ug/l	120424	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclopenten-1-one, 2-(2-buteny...	166	C10H14O2	017190-74-8	38
2	3,6-Dimethyl-4,5,6,7-tetrahydrob...	166	C10H14O2	016642-41-4	27
3	Bicyclo[4.1.0]heptane, 3-methyl-	110	C8H14	041977-47-3	25
4	2-(1-Hydroxycyclohexyl)-furan	166	C10H14O2	036169-67-2	22
5	8-Hexadecyne	222	C16H30	019781-86-3	22





Sample Results: **VY020640.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

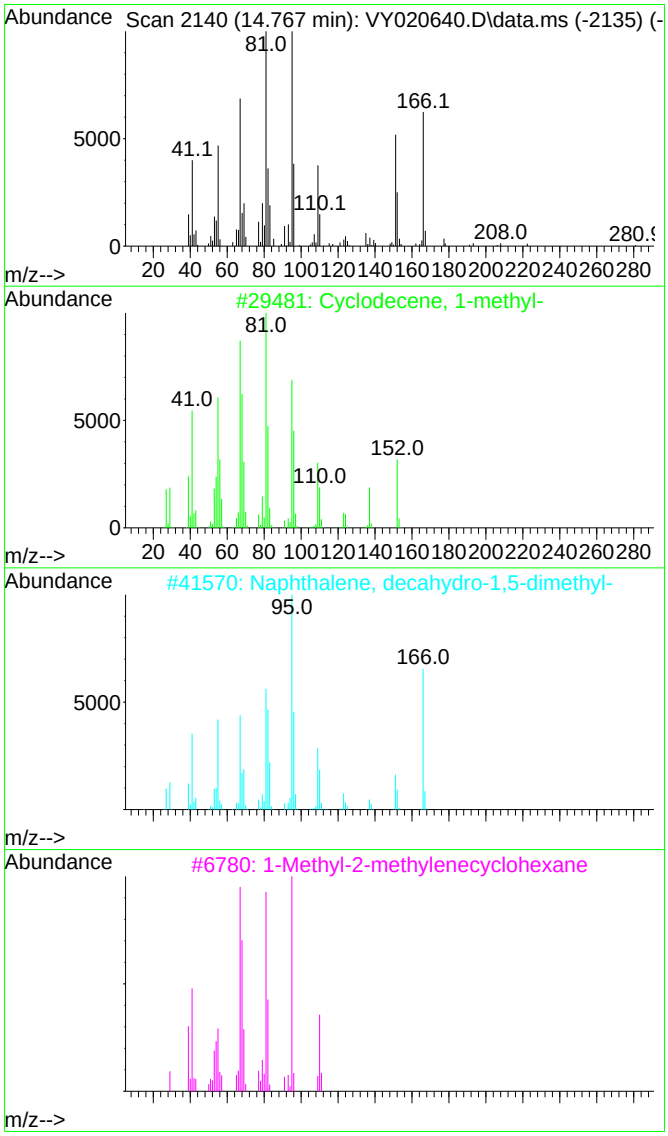
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

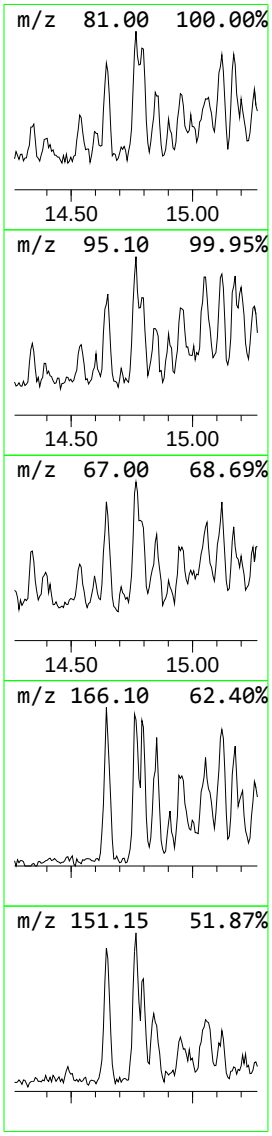
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Cyclodecene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.767	5.36 ug/l	91274	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodecene, 1-methyl-	152	C11H20	066633-38-3	58
2	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	58
3	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	55
4	Cyclohexene,3-hexyl-	166	C12H22	015232-78-7	55
5	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

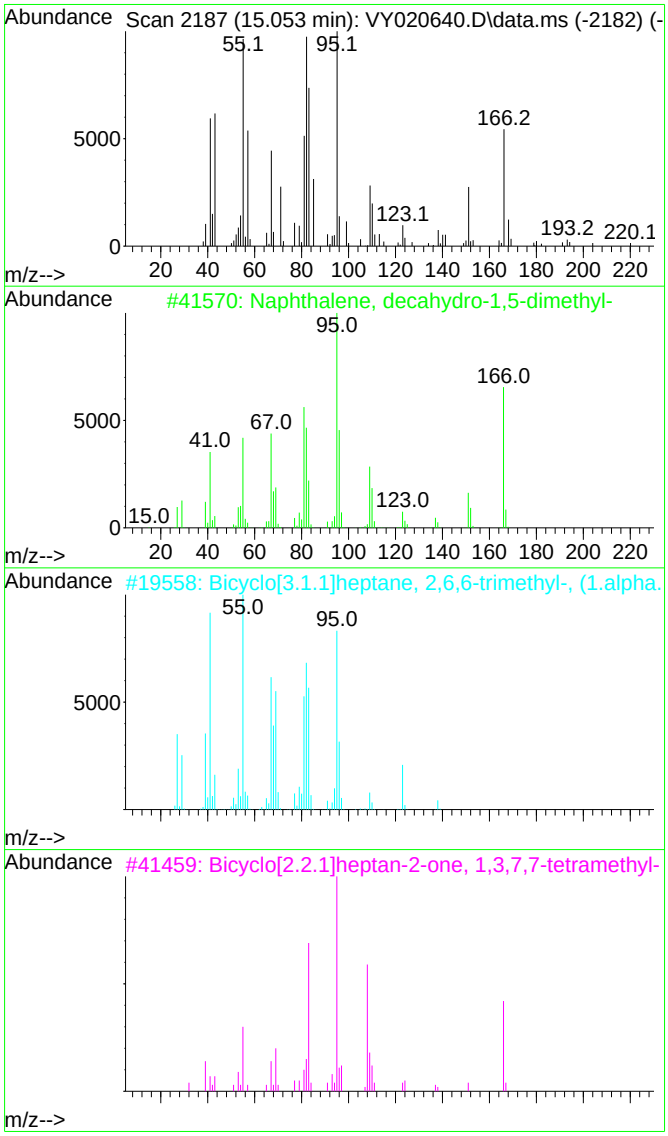
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

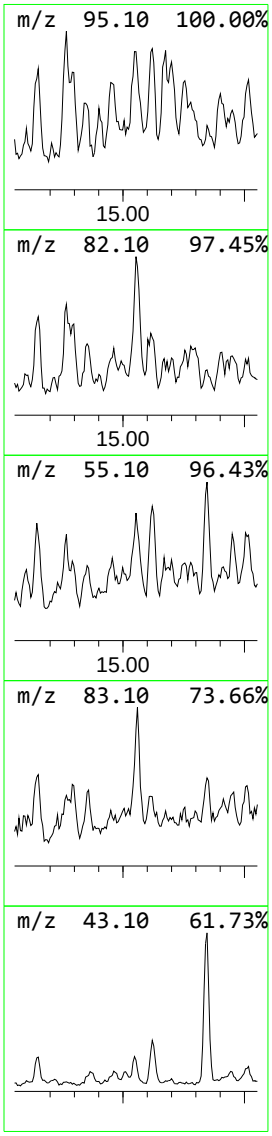
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Naphthalene, decahydro-1,5-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	5.93 ug/l	100899	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	53
2	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	006876-13-7	47
3	Bicyclo[2.2.1]heptan-2-one, 1,3,...	166	C11H18O	005811-48-3	43
4	Vinylcyclohexyl ether	126	C8H14O	002182-55-0	35
5	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

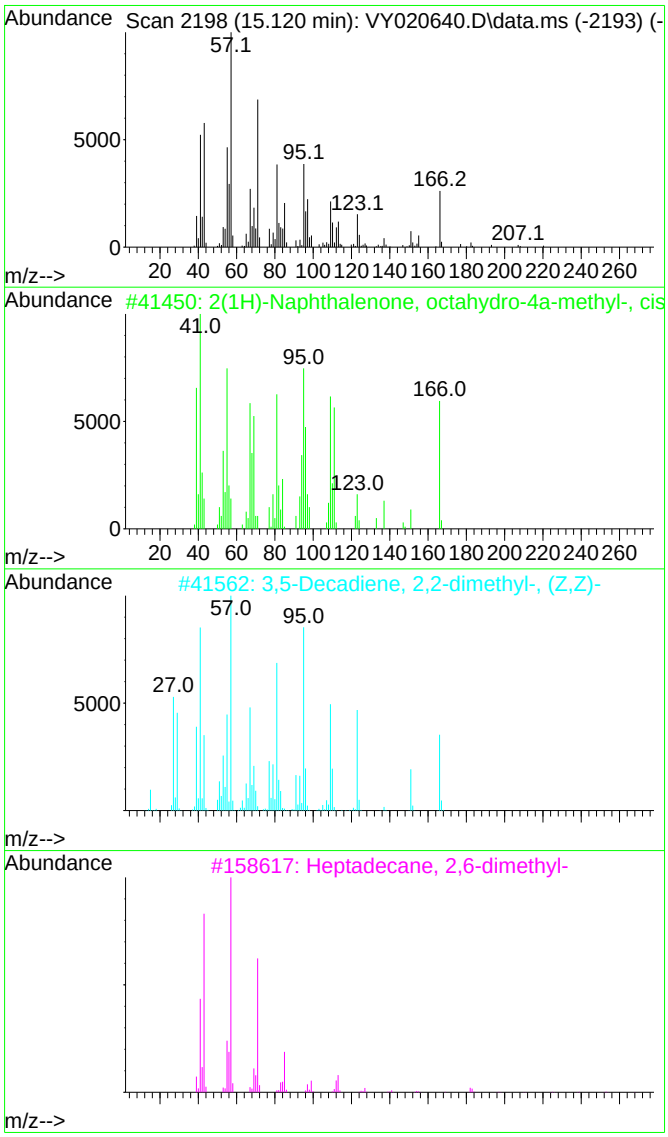
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

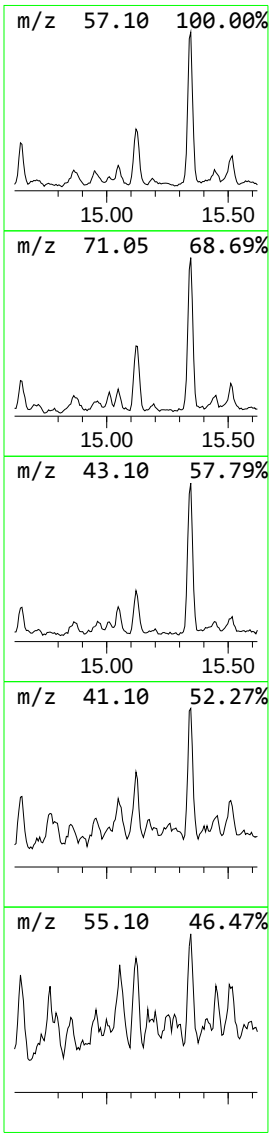
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 unknown15.120 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.120	7.97 ug/l	135659	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Naphthalenone, octahydro-4...	166	C11H18O	000938-06-7	38
2	3,5-Decadiene, 2,2-dimethyl-, (Z...	166	C12H22	055638-50-1	35
3	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	27
4	Octadecane, 2,6-dimethyl-	282	C20H42	075163-97-2	27
5	Cyclohexanone, 2,2-dimethyl-5-(3...	182	C11H18O2	141033-65-0	27





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

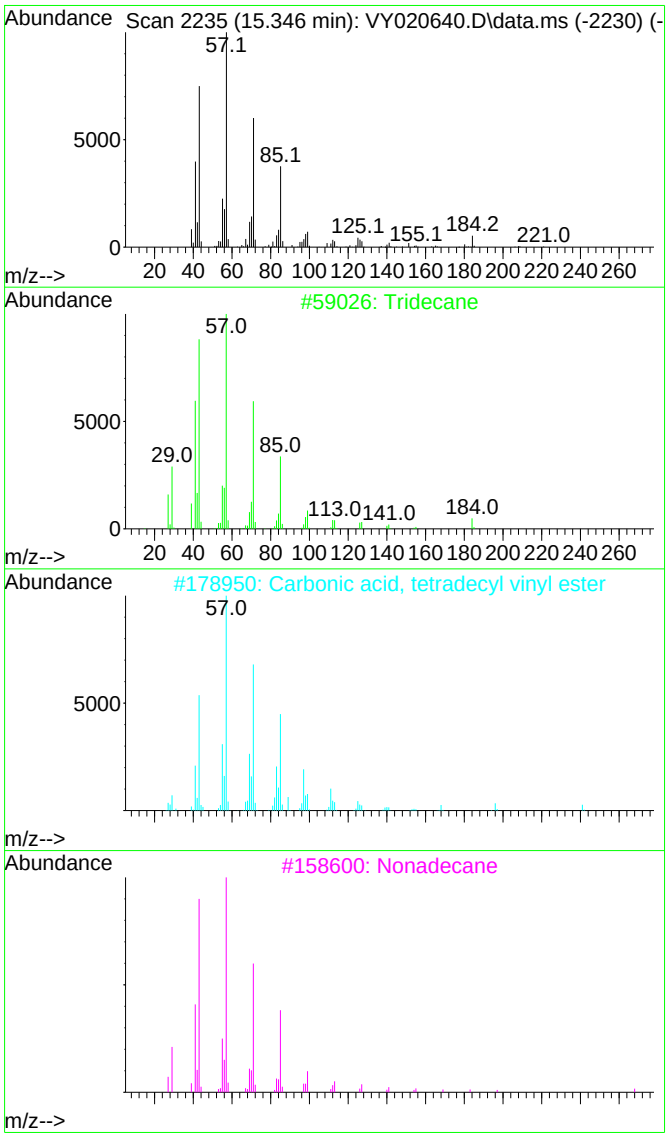
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

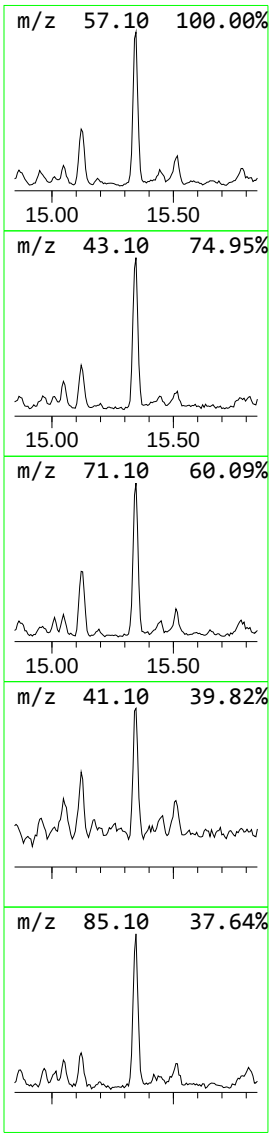
****

Peak Number 9 Tridecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	10.97 ug/l	186768	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	96
2	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	80
3	Nonadecane	268	C19H40	000629-92-5	80
4	Pentadecane	212	C15H32	000629-62-9	80
5	Hexadecane	226	C16H34	000544-76-3	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

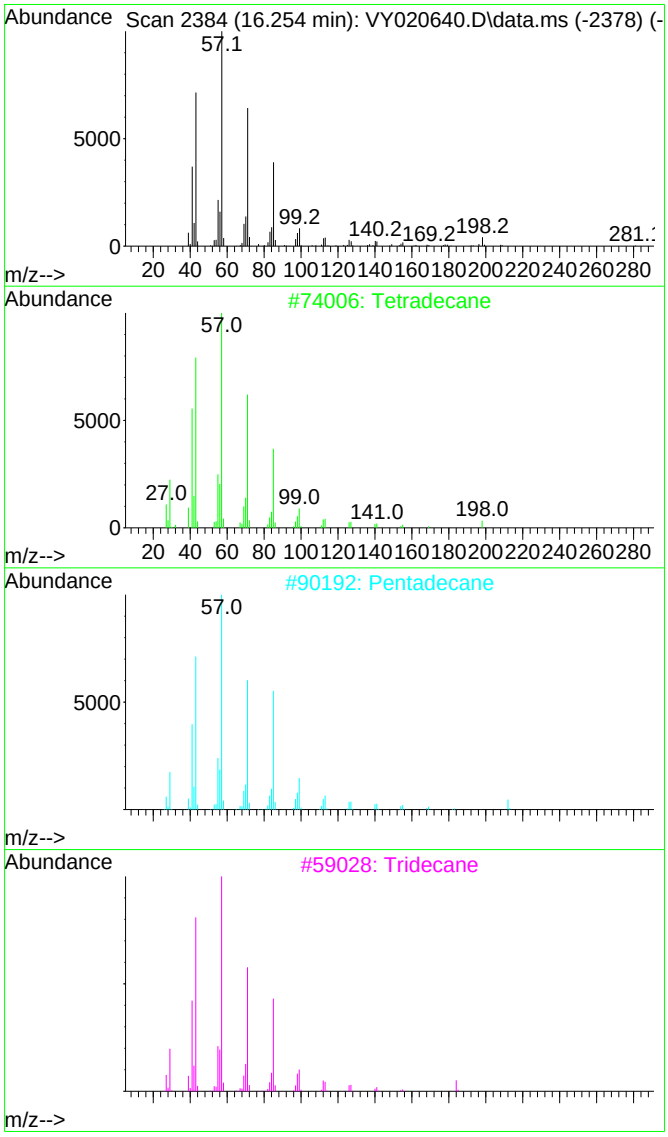
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

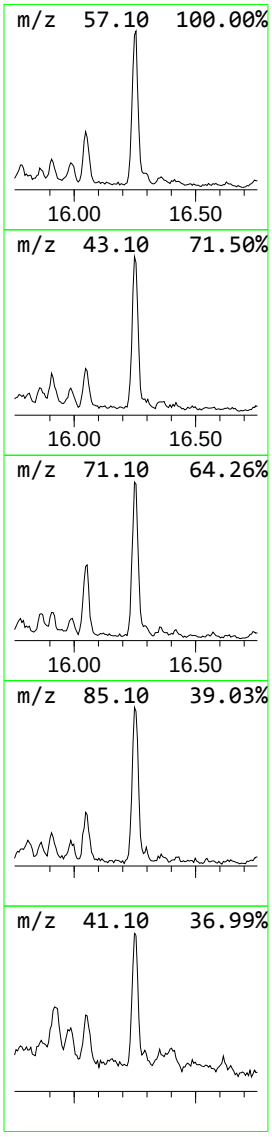
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Tetradecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.254	12.06 ug/l	205341	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	Pentadecane	212	C15H32	000629-62-9	86
3	Tridecane	184	C13H28	000629-50-5	86
4	Hexadecane	226	C16H34	000544-76-3	86
5	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020640.D
Acq On : 18 Dec 2024 16:51
Operator : SY/MD
Sample : P5299-03
Misc : 5.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.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
unknown1.812	1.812	24.3	ug/l	317384	1	7.707	654529	50.0
Pentadecane	12.249	39.2	ug/l	812599	3	11.414	1036390	50.0
Dodecane	14.529	6.6	ug/l	112534	4	13.346	851326	50.0
unknown14.645	14.645	7.1	ug/l	120424	4	13.346	851326	50.0
Cyclodecene, 1-...	14.767	5.4	ug/l	91274	4	13.346	851326	50.0
Naphthalene, de...	15.053	5.9	ug/l	100899	4	13.346	851326	50.0
unknown15.120	15.120	8.0	ug/l	135659	4	13.346	851326	50.0
Tridecane	15.346	11.0	ug/l	186768	4	13.346	851326	50.0
Tetradecane	16.254	12.1	ug/l	205341	4	13.346	851326	50.0

Raw Data: **VY020635.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.2
Sample Wt/Vol:	6.77 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
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.70	ug/Kg
74-83-9	Bromomethane	0.96	U	0.96	4.70	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.85	U	0.85	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	4.70	ug/Kg
67-64-1	Acetone	32.2		5.80	23.3	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	4.70	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.70	ug/Kg
78-93-3	2-Butanone	7.60	J	5.30	23.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.70	ug/Kg
71-43-2	Benzene	0.67	U	0.67	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.70	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.3	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.70	ug/Kg

Raw Data: **VY020635.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.2
Sample Wt/Vol:	6.77 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
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.78	U	0.78	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.3	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	4.70	ug/Kg
108-90-7	Chlorobenzene	0.69	U	0.69	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.30	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.70	ug/Kg
100-42-5	Styrene	0.56	U	0.56	4.70	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.69	U	0.69	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.75	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.55	U	0.55	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.73	U	0.73	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		70 (50) - 130 (163)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	40.3		70 (54) - 130 (147)	81%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.0		70 (29) - 130 (146)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	7.707			
540-36-3	1,4-Difluorobenzene	310000	8.61			
3114-55-4	Chlorobenzene-d5	270000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020635.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:	12/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	12/16/24
Client Sample ID:	SB-02	SDG No.:	P5299
Lab Sample ID:	P5299-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	79.2
Sample Wt/Vol:	6.77 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
VY020635.D	1		12/18/24 14:54	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001120-21-4	Undecane	110	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	82.8	J		14.2	ug/Kg
000112-40-3	Dodecane	99.9	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	80.4	J		14.6	ug/Kg
1000111-72-3	cis,trans-1,6-Dimethylspiro[4.5]de	45.9	J		14.8	ug/Kg
	unknown15.054	46.2	J		15.1	ug/Kg
061141-72-8	Dodecane, 4,6-dimethyl-	71.9	J		15.1	ug/Kg
000629-50-5	Tridecane	110	J		15.3	ug/Kg
031295-56-4	Dodecane, 2,6,11-trimethyl-	45.9	J		16.0	ug/Kg
000629-59-4	Tetradecane	92.8	J		16.2	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

Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Time: Dec 19 02:48:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	157761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	310451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	269674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	117196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101134	58.533	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.060%			
35) Dibromofluoromethane	7.634	113	88259	40.338	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 80.680%			
50) Toluene-d8	10.103	98	372749	48.673	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.402	95	122857	41.011	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 82.020%			
Target Compounds						Qvalue
16) Acetone	3.867	43	13742	34.486	ug/l	96
25) 2-Butanone	6.896	43	5232	8.148	ug/l	96

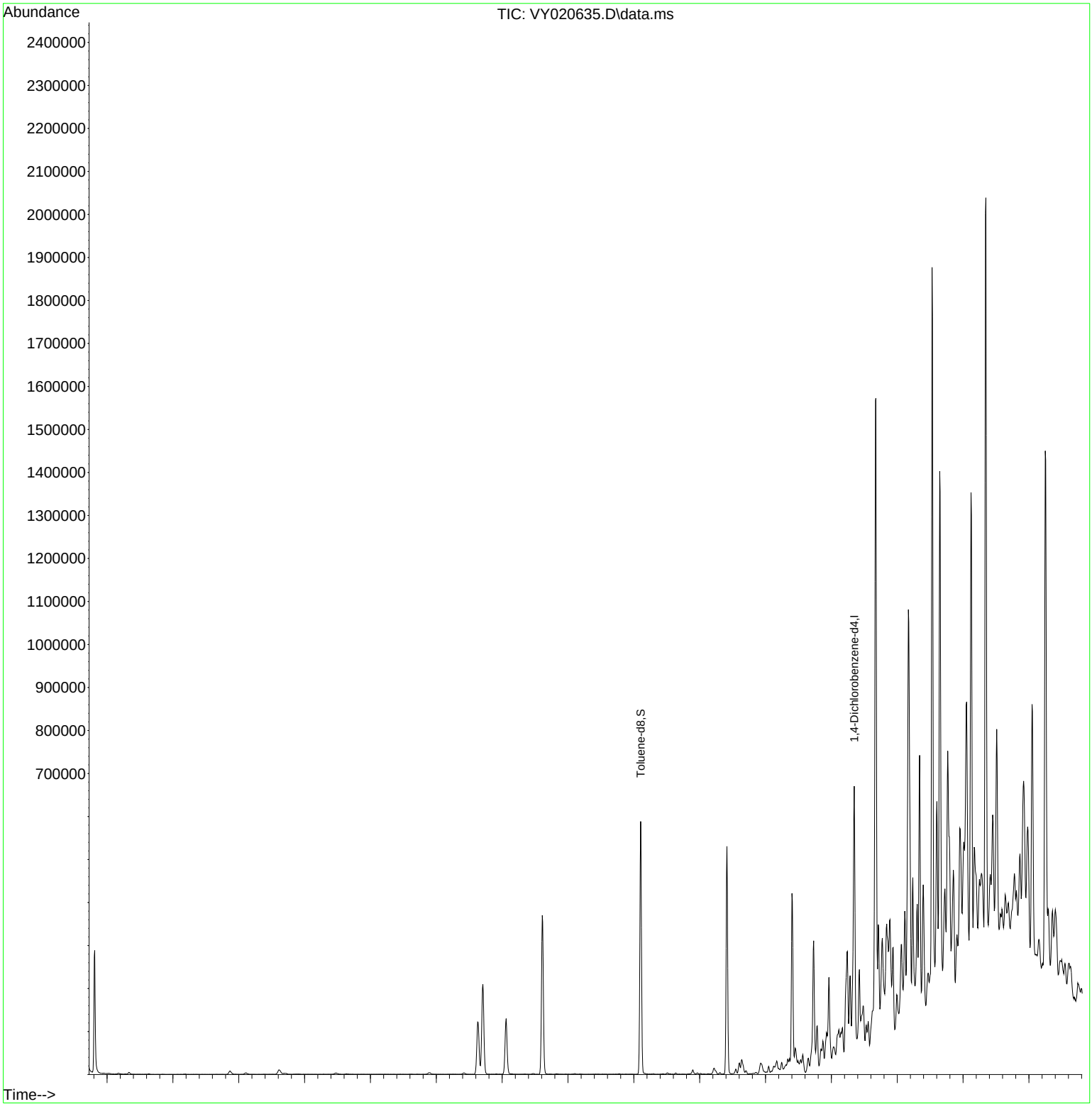
(#) = qualifier out of range (m) = manual integration (+) = signals summed

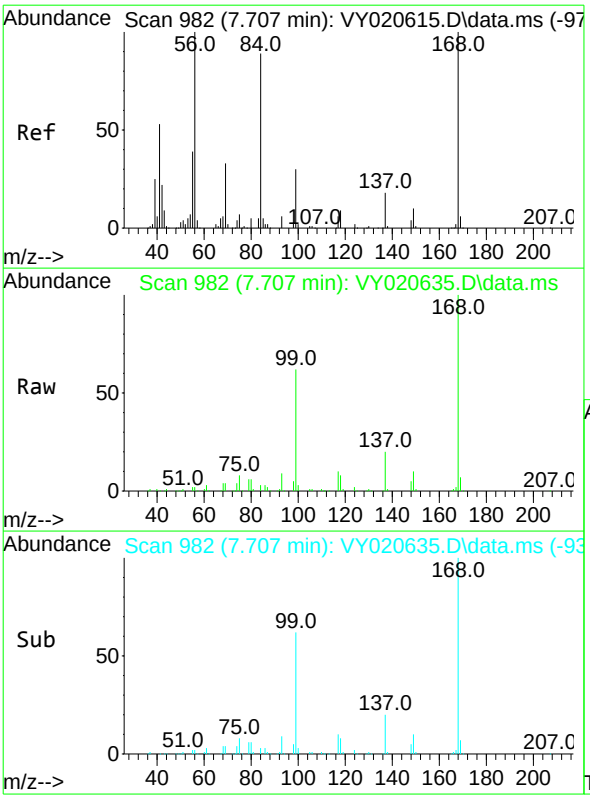
Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Time: Dec 19 02:48:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



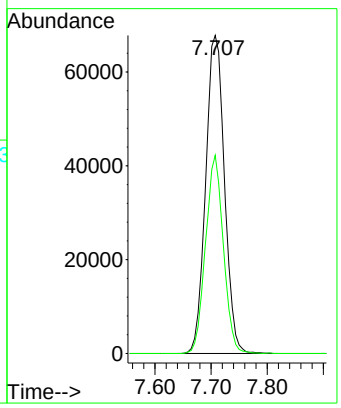


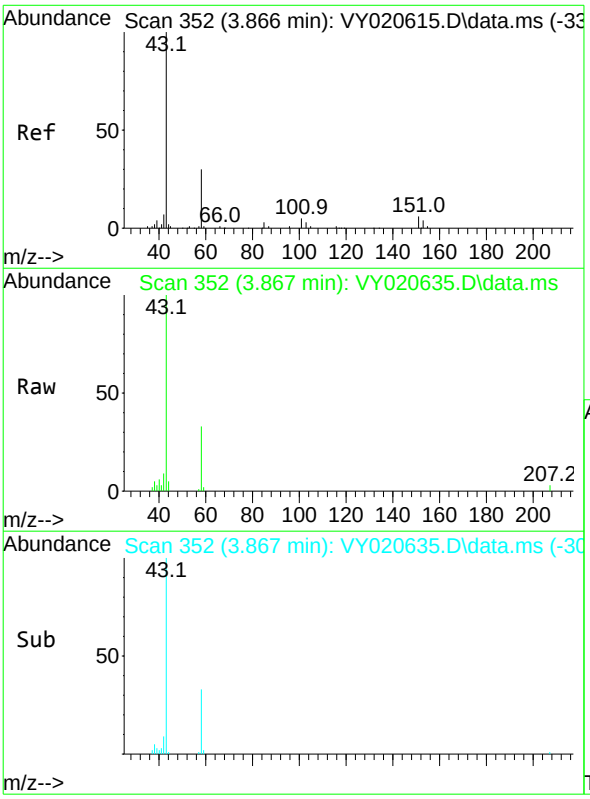
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:168 Resp: 157761

Ion	Ratio	Lower	Upper
168	100		
99	62.3	47.0	70.6

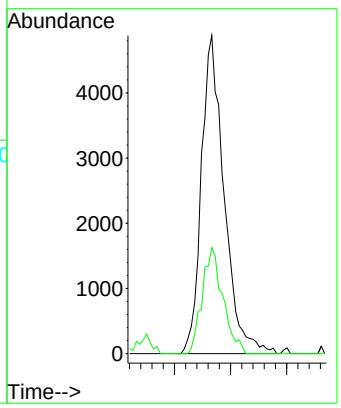


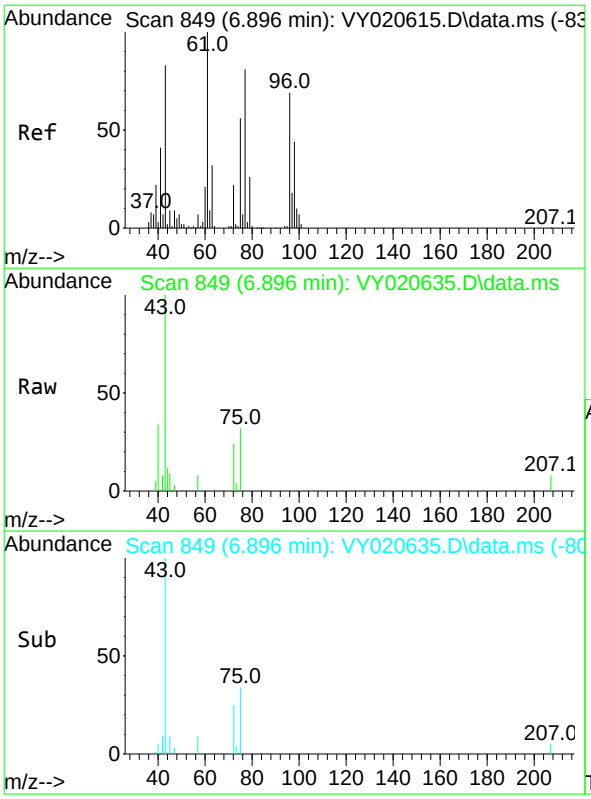


#16
Acetone
Concen: 34.486 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.001 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion: 43 Resp: 13742

Ion	Ratio	Lower	Upper
43	100		
58	33.3	25.0	37.6



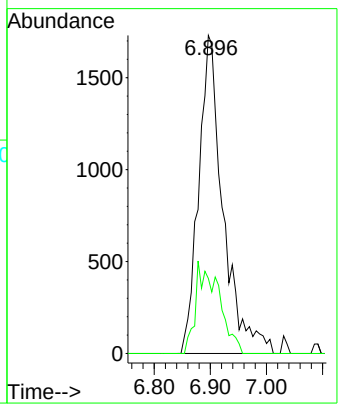


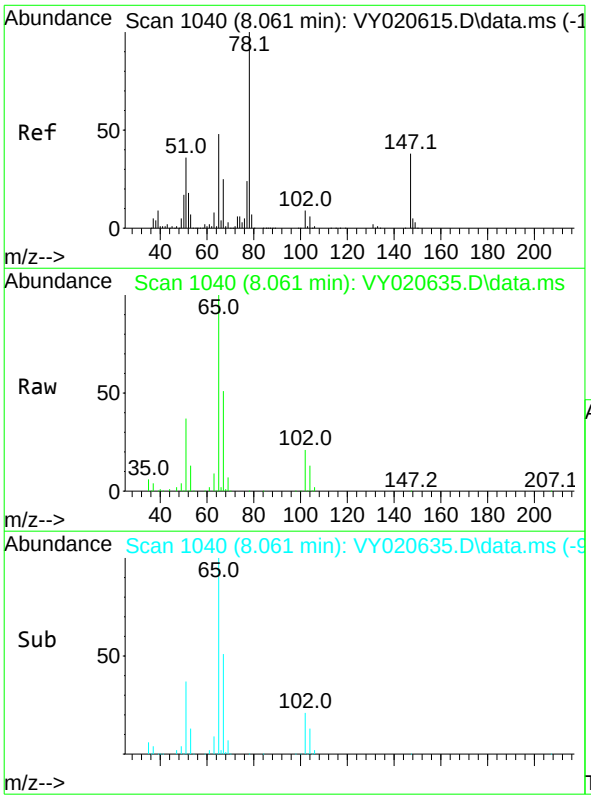
#25
2-Butanone
Concen: 8.148 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion: 43 Resp: 5232

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.6	31.0

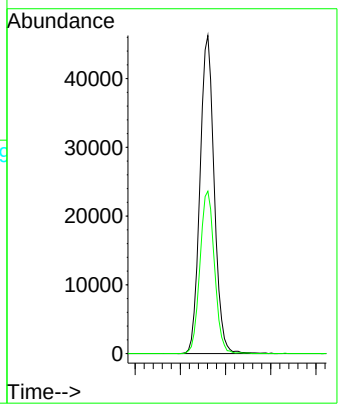


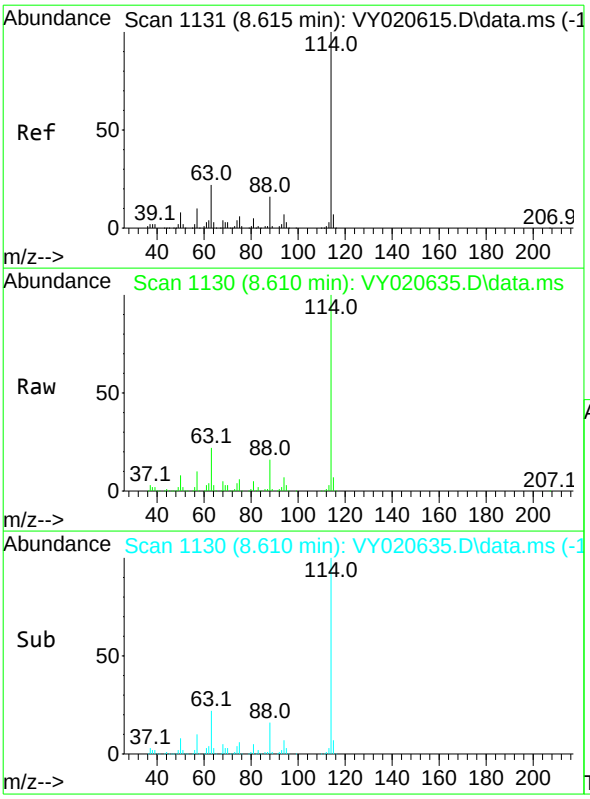


#33
1,2-Dichloroethane-d4
Concen: 58.533 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion: 65 Resp: 101134

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	108.0



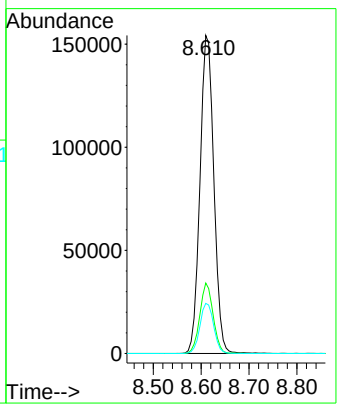


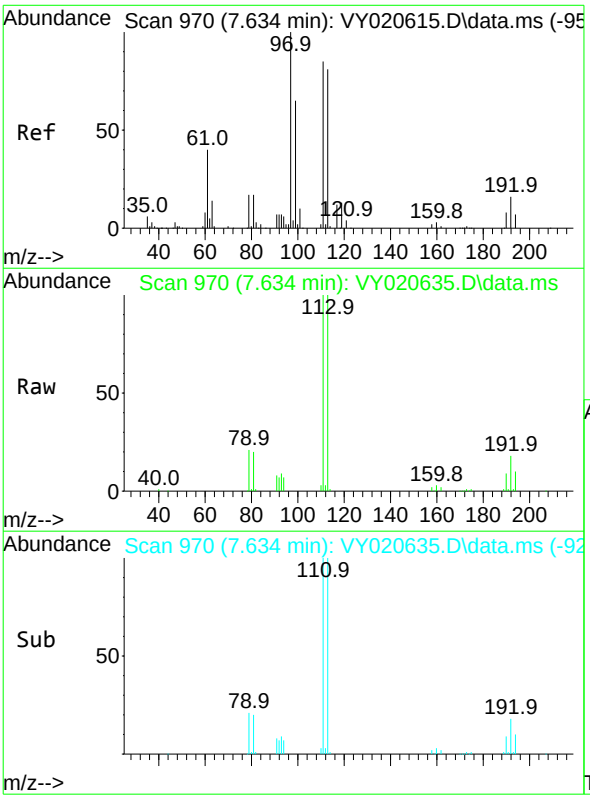
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:114 Resp: 310451

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.0
88	15.7	0.0	32.8

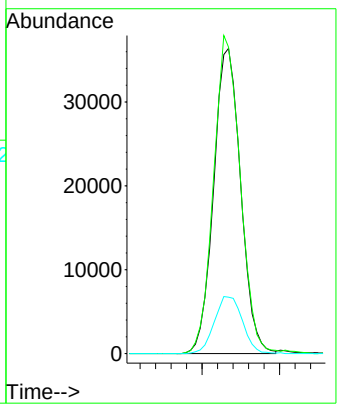


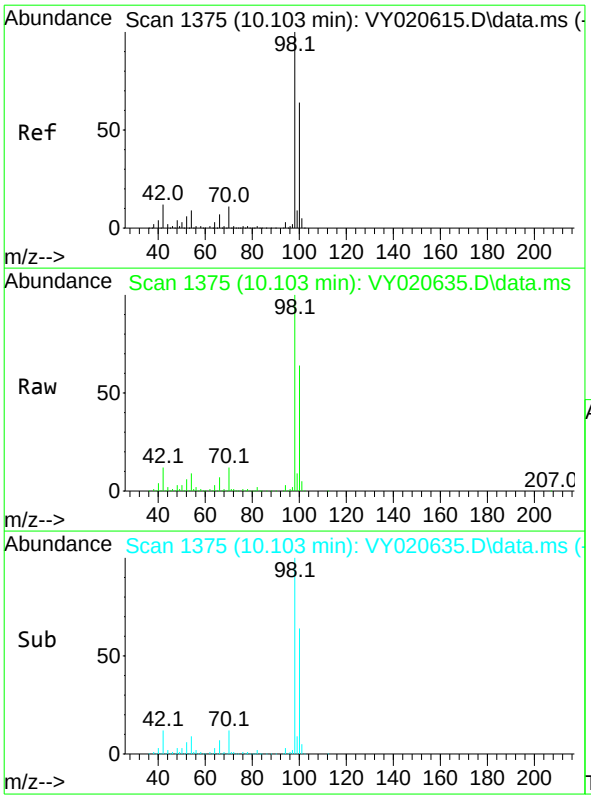


#35
Dibromofluoromethane
Concen: 40.338 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion:113 Resp: 88259

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	19.5	15.7	23.5



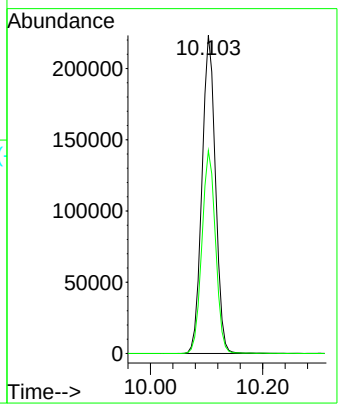


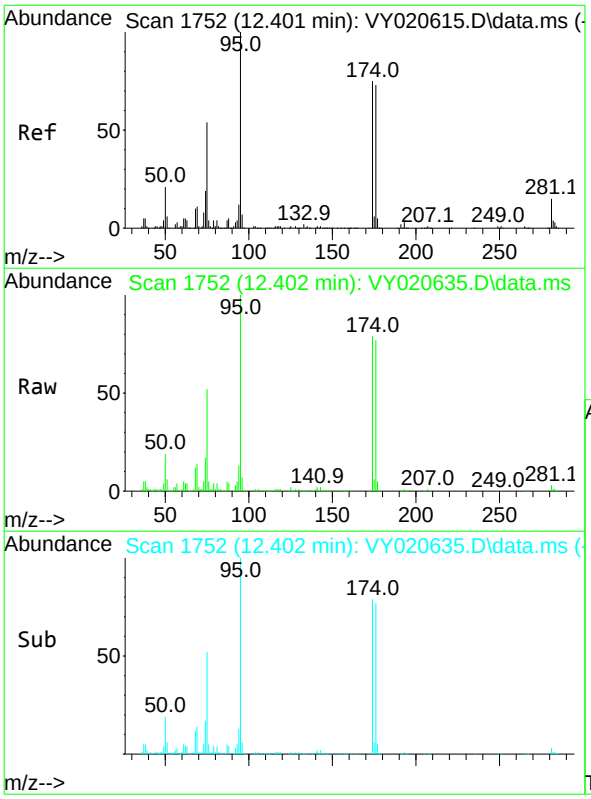
#50
Toluene-d8
Concen: 48.673 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion: 98 Resp: 372749

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.1	78.1

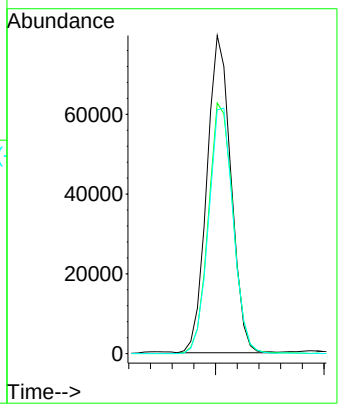


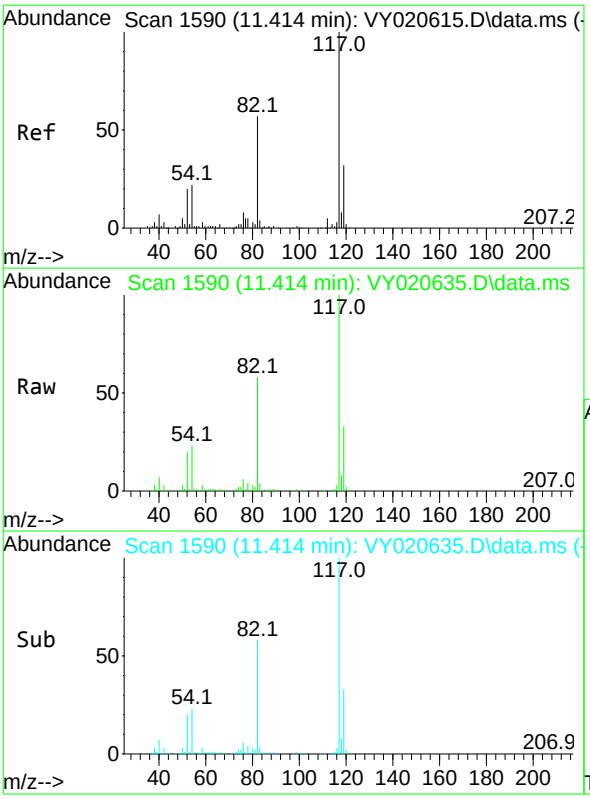


#62
4-Bromofluorobenzene
Concen: 41.011 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion: 95 Resp: 122857

Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	161.8
176	79.2	0.0	156.6



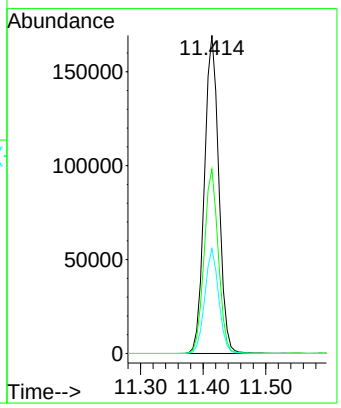


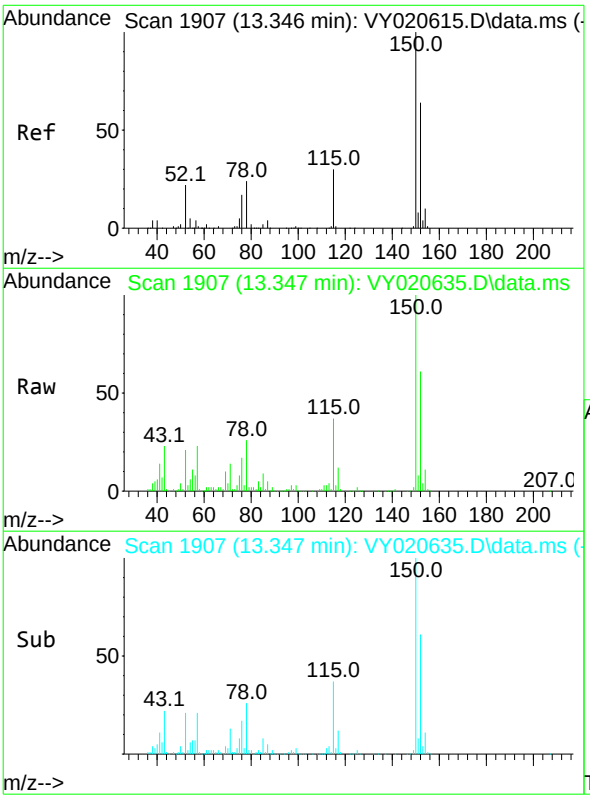
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Tgt Ion:117 Resp: 269674

Ion	Ratio	Lower	Upper
117	100		
82	58.0	45.8	68.6
119	33.0	25.3	37.9

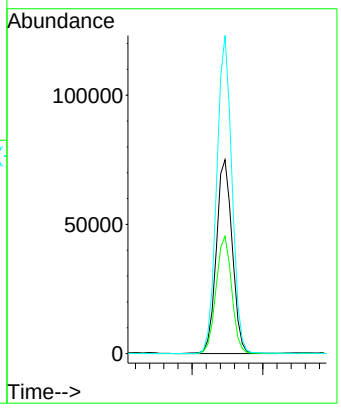




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020635.D
Acq: 18 Dec 2024 14:54

Tgt Ion:152 Resp: 117196

Ion	Ratio	Lower	Upper
152	100		
115	59.5	30.2	90.6
150	156.6	0.0	355.4



Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

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\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020635.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	9	15	35	rVB	286229	413266	16.75%	1.107%
2	4.610	465	474	484	rBV3	10353	33561	1.36%	0.090%
3	7.628	958	969	976	rBV	121653	300775	12.19%	0.806%
4	7.707	976	982	994	rVB	208867	472636	19.16%	1.266%
5	8.061	1030	1040	1049	rBV	129197	279089	11.31%	0.747%
6	8.610	1120	1130	1145	rBV	369438	733369	29.73%	1.964%
7	10.103	1367	1375	1396	rBV	587913	1000913	40.58%	2.681%
8	11.219	1548	1558	1568	rBV4	13880	37862	1.53%	0.101%
9	11.414	1582	1590	1600	rBV	529449	845111	34.26%	2.263%
10	11.603	1616	1621	1624	rBV	23203	42078	1.71%	0.113%
11	11.640	1624	1627	1635	rVB4	29793	62975	2.55%	0.169%
12	11.926	1667	1674	1686	rBV6	24391	78451	3.18%	0.210%
13	12.170	1709	1714	1722	rVB5	21891	46625	1.89%	0.125%
14	12.402	1747	1752	1758	rVV	396388	640084	25.95%	1.714%
15	12.450	1758	1760	1766	rVB3	33960	52903	2.14%	0.142%
16	12.566	1776	1779	1786	rVB2	41508	68667	2.78%	0.184%
17	12.652	1786	1793	1796	rBV3	33107	67688	2.74%	0.181%
18	12.731	1796	1806	1811	rBV2	290971	547849	22.21%	1.467%
19	12.786	1811	1815	1819	rVB2	93063	149665	6.07%	0.401%
20	12.841	1819	1824	1826	rBV3	39458	62714	2.54%	0.168%
21	12.871	1826	1829	1832	rVB3	40755	53020	2.15%	0.142%
22	12.926	1832	1838	1840	rBV2	60754	110195	4.47%	0.295%
23	12.962	1840	1844	1851	rVB2	188083	306615	12.43%	0.821%
24	13.036	1851	1856	1861	rBV4	26624	64711	2.62%	0.173%
25	13.115	1861	1869	1871	rBV3	58306	149385	6.06%	0.400%
26	13.243	1881	1890	1893	rBV3	233624	570925	23.15%	1.529%
27	13.286	1893	1897	1900	rVV2	152041	233734	9.48%	0.626%
28	13.347	1900	1907	1914	rVB3	587640	1061690	43.04%	2.843%
29	13.426	1915	1920	1923	rBV2	158987	240806	9.76%	0.645%
30	13.529	1934	1937	1939	rBV3	36311	48079	1.95%	0.129%
31	13.560	1940	1942	1945	rVB2	55610	60347	2.45%	0.162%
32	13.627	1945	1953	1954	rBV4	79894	168735	6.84%	0.452%
33	13.676	1954	1961	1965	rVV2	1467892	2465291	99.94%	6.602%
34	13.712	1965	1967	1971	rVV2	230600	312993	12.69%	0.838%
35	13.773	1971	1977	1983	rVV5	190162	442239	17.93%	1.184%
36	13.840	1983	1988	1992	rVV3	207799	495145	20.07%	1.326%

Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

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\82Y121724S.M
Title : SW846 8260

37	13.889	1993	1996	2000	rVV3	205591	358382	14.53%	0.960%
38	13.938	2001	2004	2008	rVB3	190785	259612	10.52%	0.695%
39	13.993	2009	2013	2018	rBV6	79616	159072	6.45%	0.426%
40	14.066	2019	2025	2029	rBV3	159593	321938	13.05%	0.862%
41	14.115	2029	2033	2036	rBV3	182511	248763	10.08%	0.666%
42	14.170	2036	2042	2050	rVB8	871922	1884599	76.40%	5.047%
43	14.237	2050	2053	2058	rVB3	251683	314873	12.76%	0.843%
44	14.304	2060	2064	2066	rBV3	177110	227711	9.23%	0.610%
45	14.340	2066	2070	2074	rVB2	550694	778329	31.55%	2.084%
46	14.395	2074	2079	2085	rVB3	280878	493394	20.00%	1.321%
47	14.474	2086	2092	2094	rBV5	74489	160559	6.51%	0.430%
48	14.529	2097	2101	2108	rBV	1642437	2274920	92.23%	6.093%
49	14.602	2108	2113	2116	rBV	385209	589701	23.91%	1.579%
50	14.645	2116	2120	2127	rVB	1161709	1830302	74.20%	4.902%
51	14.724	2128	2133	2136	rBV4	182622	344421	13.96%	0.922%
52	14.767	2136	2140	2148	rVB2	465290	1044816	42.36%	2.798%
53	14.852	2149	2154	2159	rVB4	262178	519142	21.05%	1.390%
54	14.907	2159	2163	2165	rBV3	111866	184935	7.50%	0.495%
55	14.950	2166	2170	2176	rBV5	272529	581243	23.56%	1.557%
56	15.011	2176	2180	2182	rBV3	165942	277147	11.24%	0.742%
57	15.054	2183	2187	2193	rVB3	554324	1052416	42.66%	2.819%
58	15.121	2193	2198	2203	rBV	1040980	1638153	66.41%	4.387%
59	15.169	2203	2206	2215	rVB4	188149	445584	18.06%	1.193%
60	15.249	2216	2219	2221	rBV4	96079	140119	5.68%	0.375%
61	15.346	2230	2235	2241	rBV	1696318	2466700	100.00%	6.606%
62	15.450	2249	2252	2256	rVB2	223210	341319	13.84%	0.914%
63	15.511	2257	2262	2268	rVB2	465130	816678	33.11%	2.187%
64	15.864	2317	2320	2323	rVV3	105258	148626	6.03%	0.398%
65	15.919	2324	2329	2335	rVV4	306099	748845	30.36%	2.006%
66	15.980	2335	2339	2345	rVB3	280811	618679	25.08%	1.657%
67	16.047	2345	2350	2358	rVB	582565	1045287	42.38%	2.799%
68	16.248	2378	2383	2389	rBV	1194703	2113456	85.68%	5.660%
69	16.358	2397	2401	2404	rBV2	108507	189297	7.67%	0.507%

Sum of corrected areas: 37339209

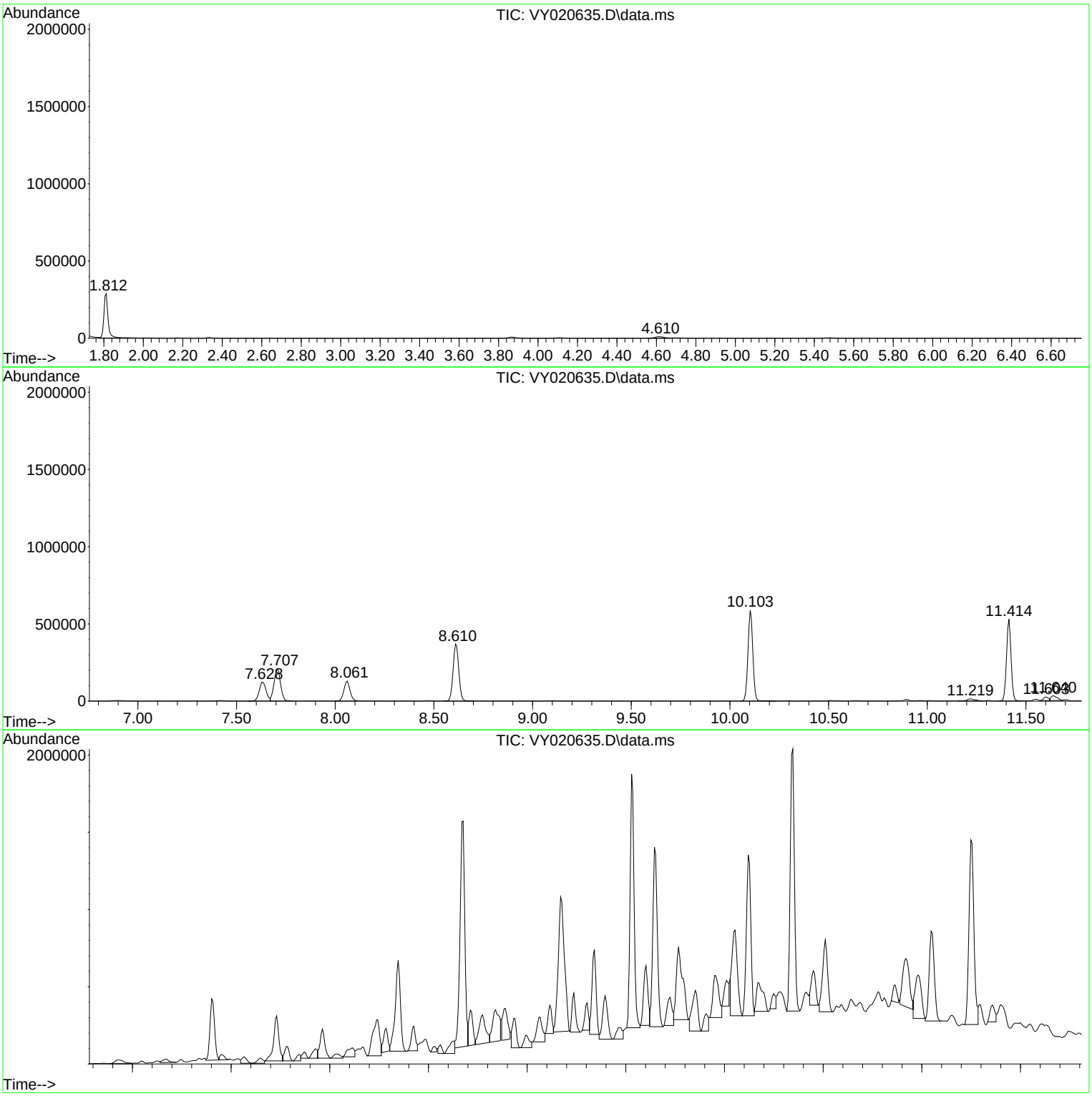
Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

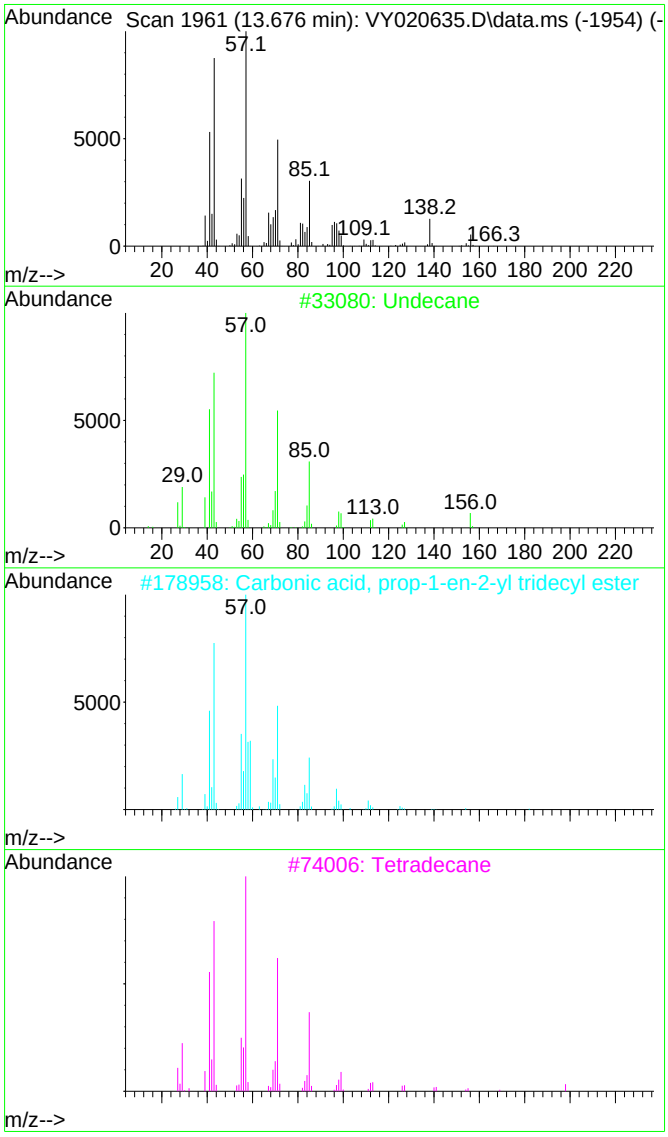
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

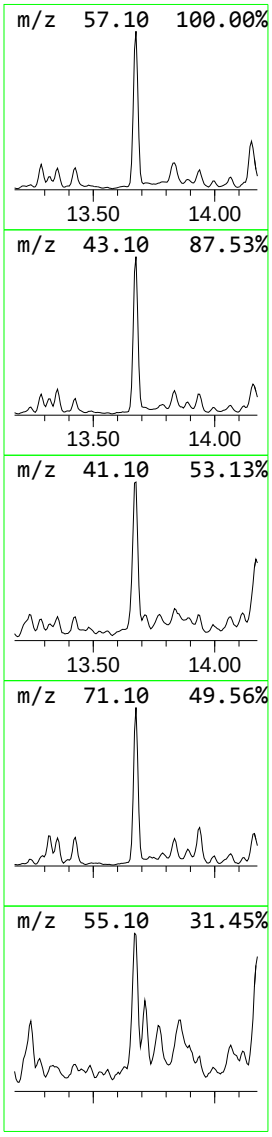
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	116.10 ug/l	2465290	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	64
2	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	64
3	Tetradecane	198	C14H30	000629-59-4	58
4	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	58
5	Decane	142	C10H22	000124-18-5	53





Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

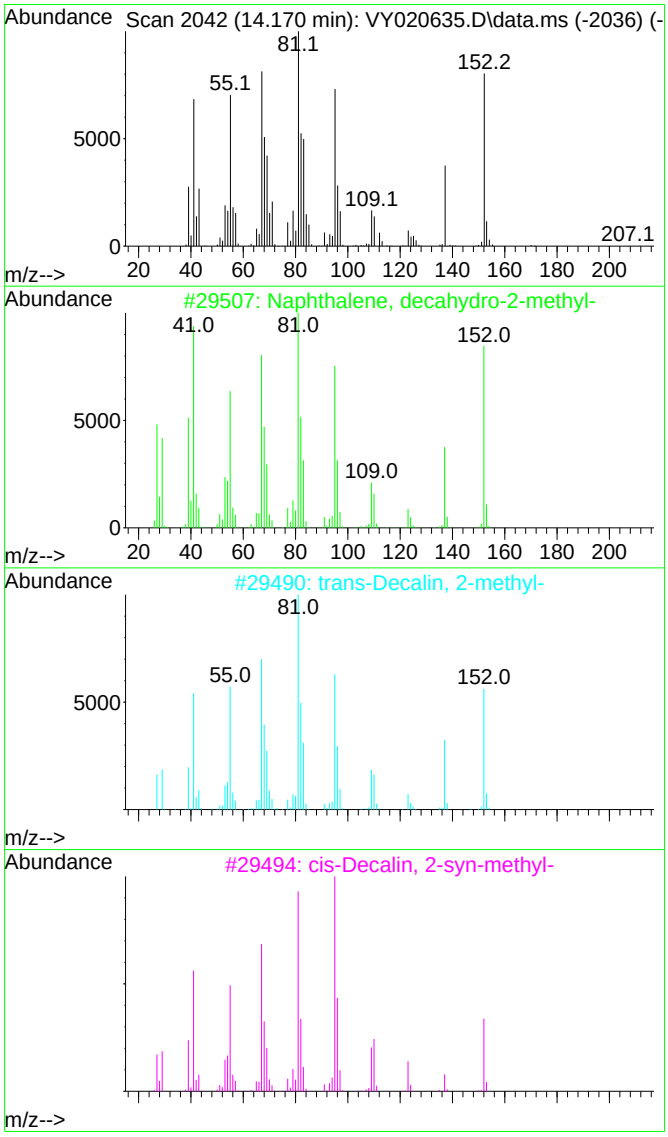
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

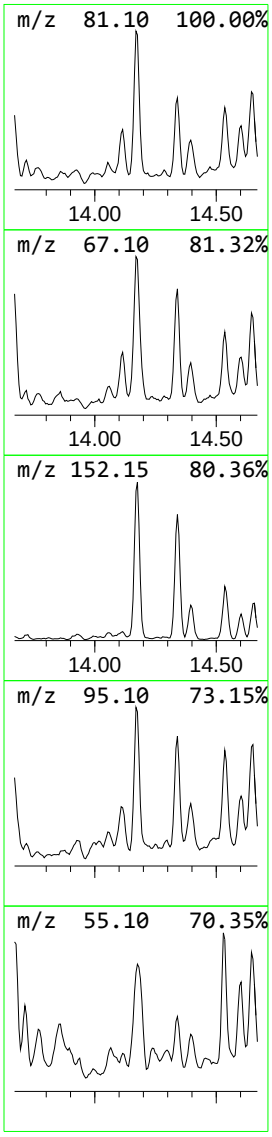
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphthalene, decahydro-2-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	88.75 ug/l	1884600	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	98
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	97
3	cis-Decalin, 2-syn-methyl-	152	C11H20	1000155-85-6	83
4	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	70
5	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	70





Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

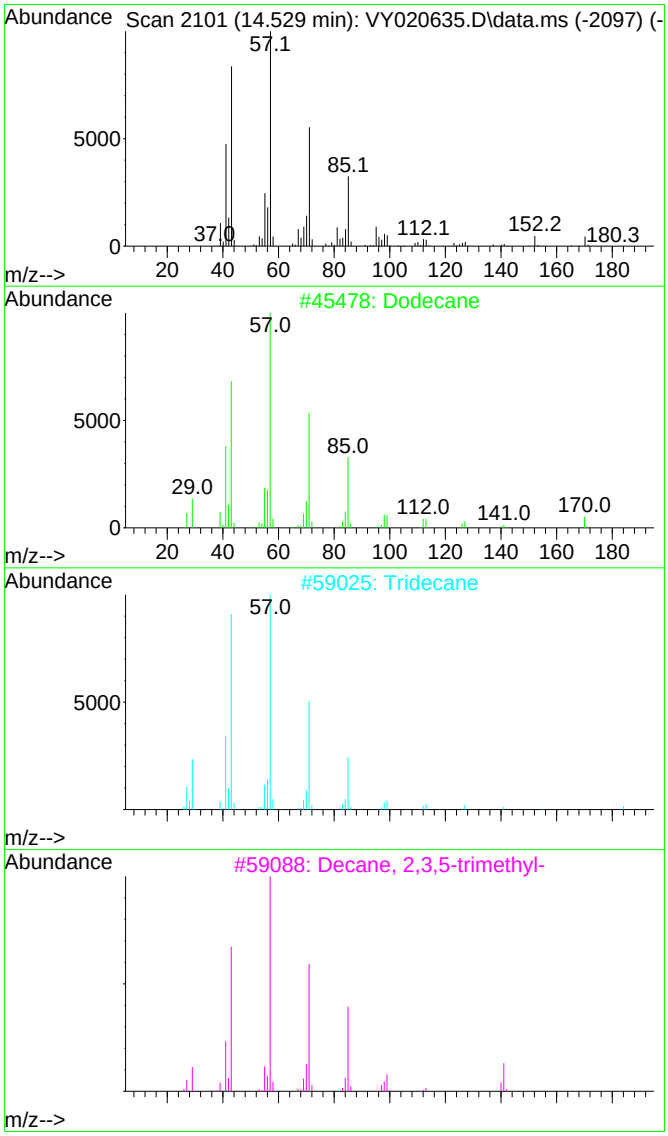
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

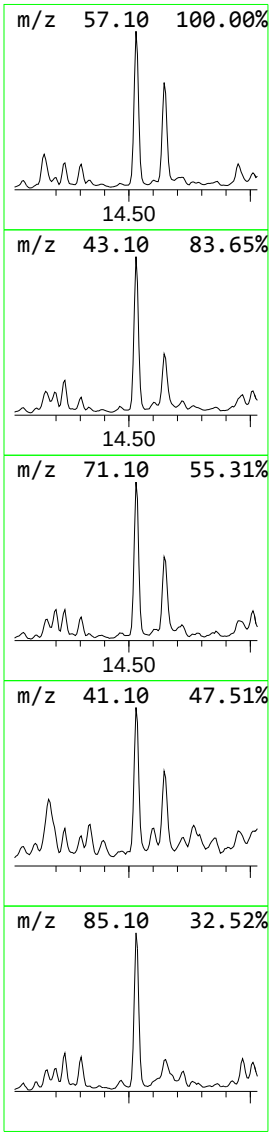
****

Peak Number 3 Dodecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	107.14 ug/l	2274920	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	93
2	Tridecane	184	C13H28	000629-50-5	72
3	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	72
4	Undecane	156	C11H24	001120-21-4	72
5	Tetradecane	198	C14H30	000629-59-4	72





Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

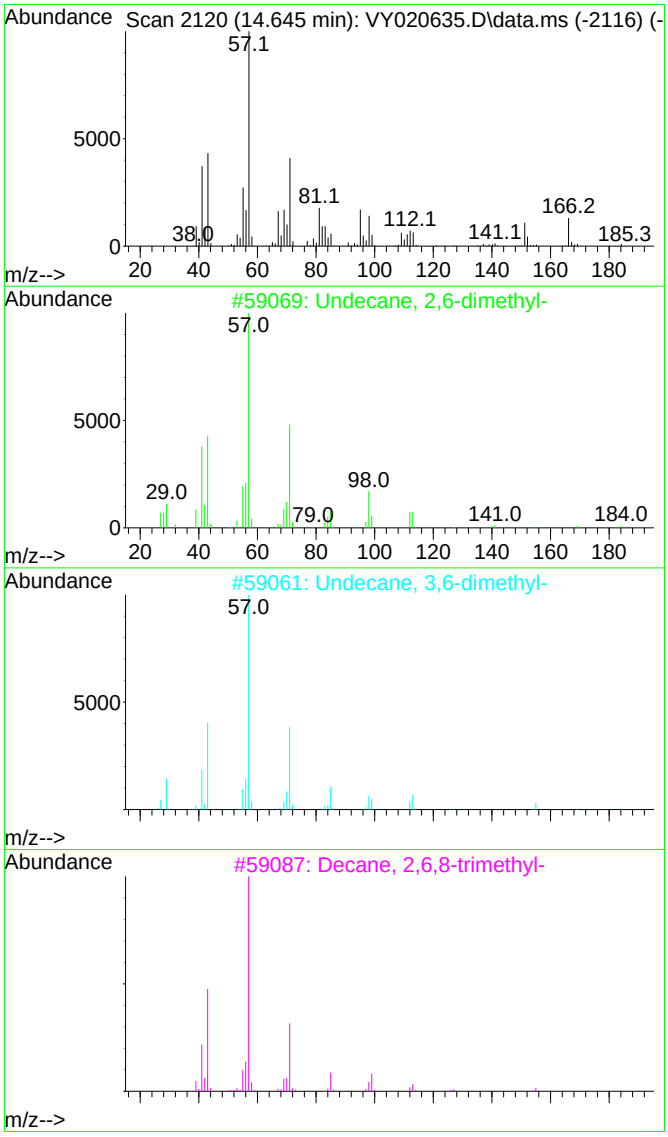
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

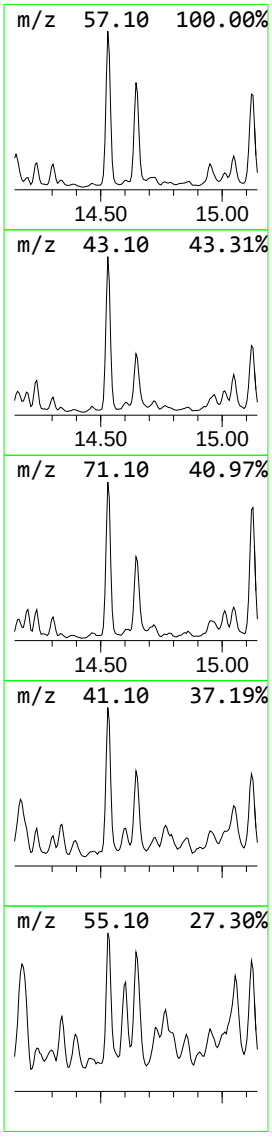
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	86.20 ug/l	1830300	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	96
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	60
3	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	47
4	Sulfurous acid, di(2-ethylhexyl)...	306	C16H34O3S	1000309-19-1	43
5	Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

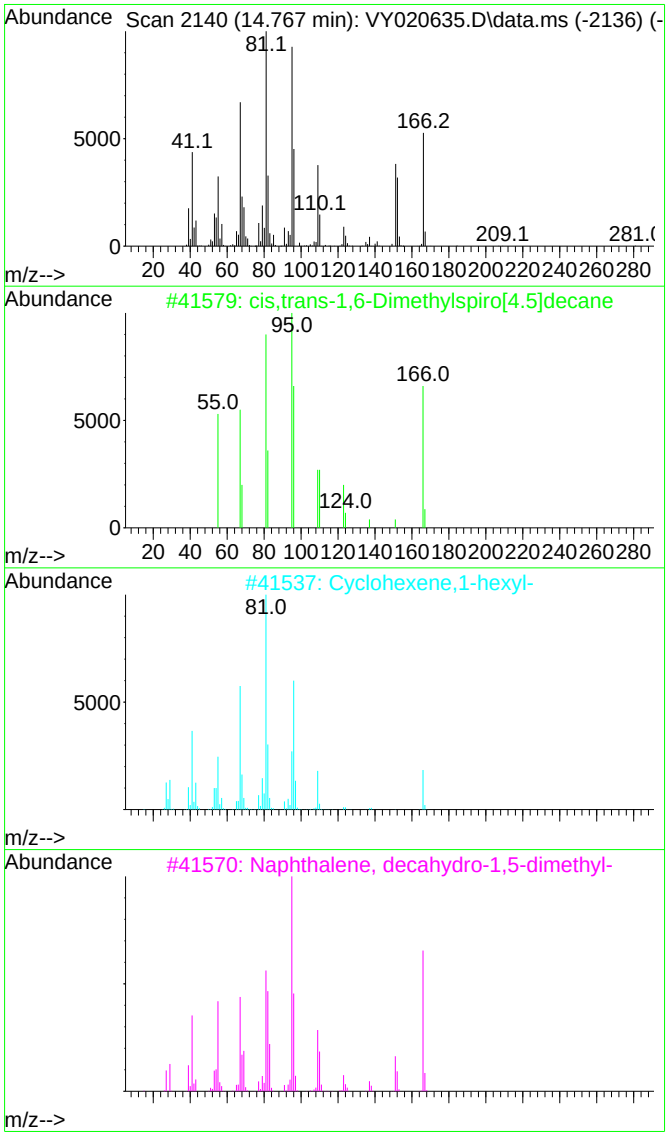
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

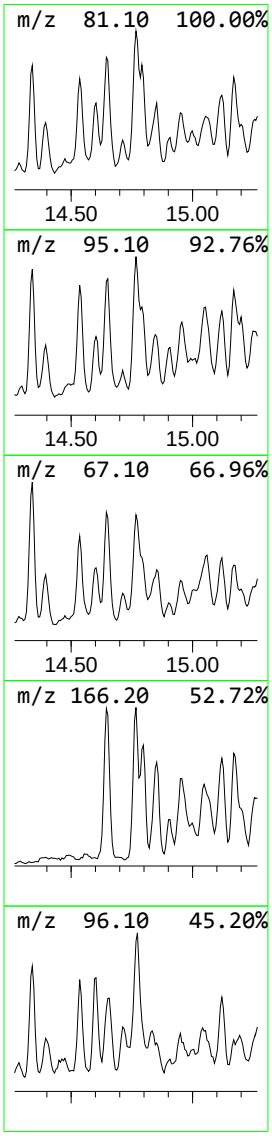
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 cis,trans-1,6-Dimethylspiro... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.767	49.21 ug/l	1044820	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis,trans-1,6-Dimethylspiro[4.5]...	166	C12H22	1000111-72-3	70
2	Cyclohexene,1-hexyl-	166	C12H22	003964-66-7	60
3	Naphthalene, decahydro-1,5-dimet...	166	C12H22	066552-62-3	60
4	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	58
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

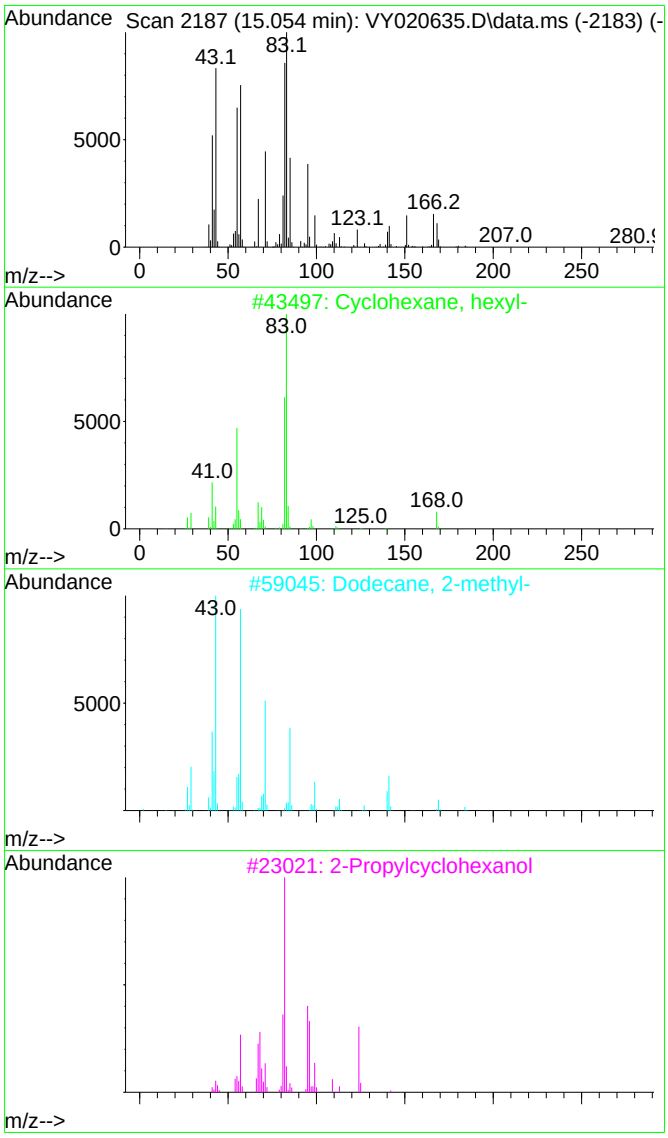
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

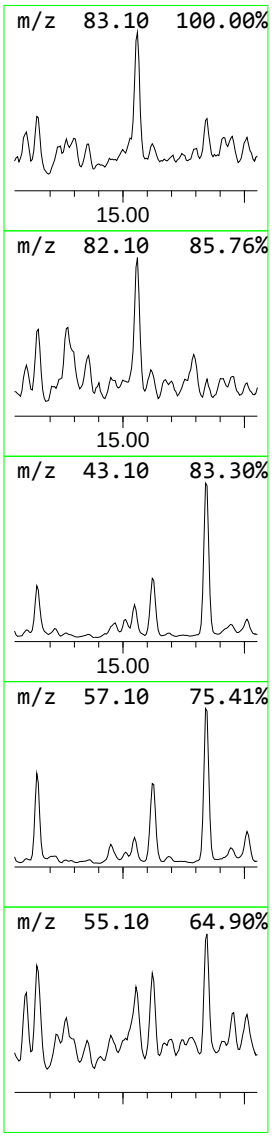
****

Peak Number 6 unknown15.054 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.054	49.56 ug/l	1052420	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, hexyl-	168	C12H24	004292-75-5	38
2	Dodecane, 2-methyl-	184	C13H28	001560-97-0	35
3	2-Propylcyclohexanol	142	C9H18O	090676-25-8	35
4	3-Methyl-1-[(1H)-1,2,4-triazol-1...	153	C7H11N3O	064922-02-7	27
5	cis-3-Hexenyl 2-ethylbutyrate	198	C12H22O2	1000433-24-6	27





Sample Results: **VY020635.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

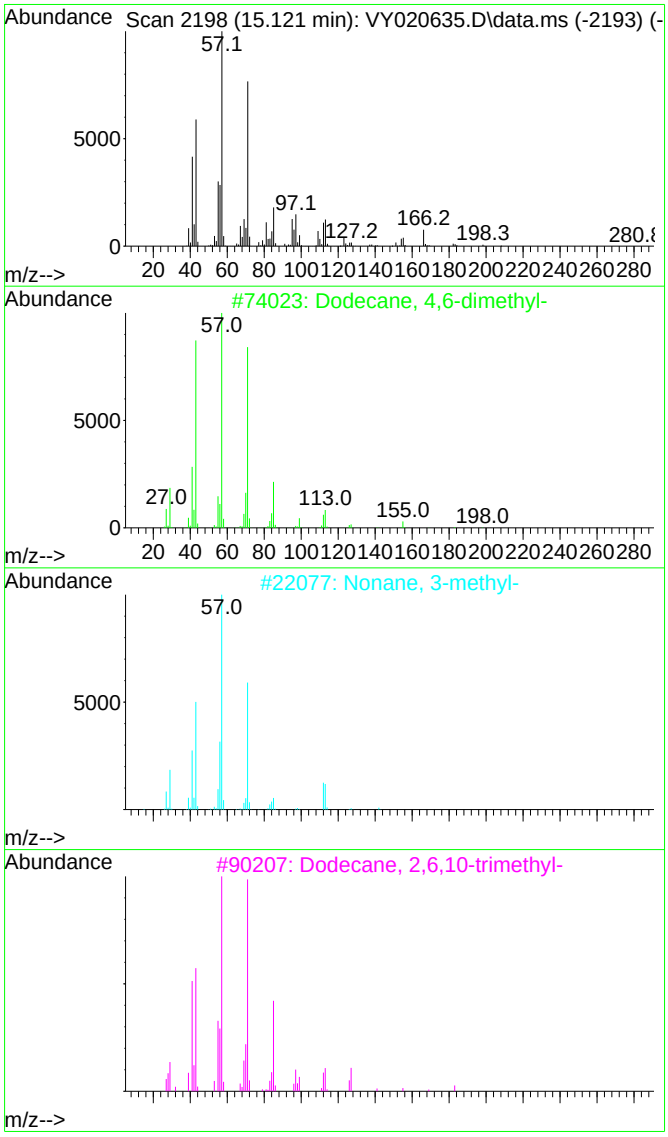
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

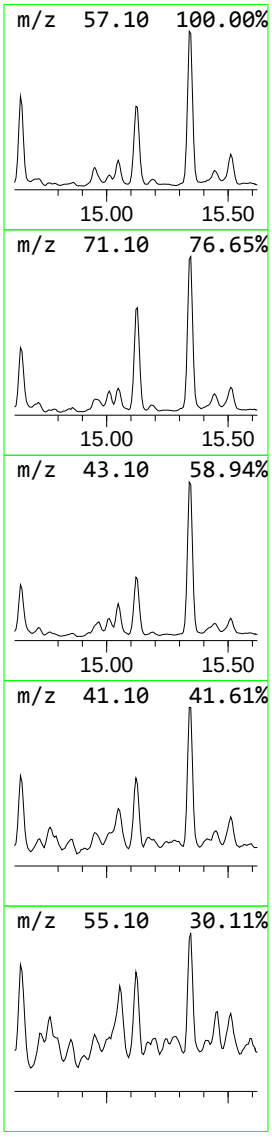
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Dodecane, 4,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	77.15 ug/l	1638150	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	72
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	64
5	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

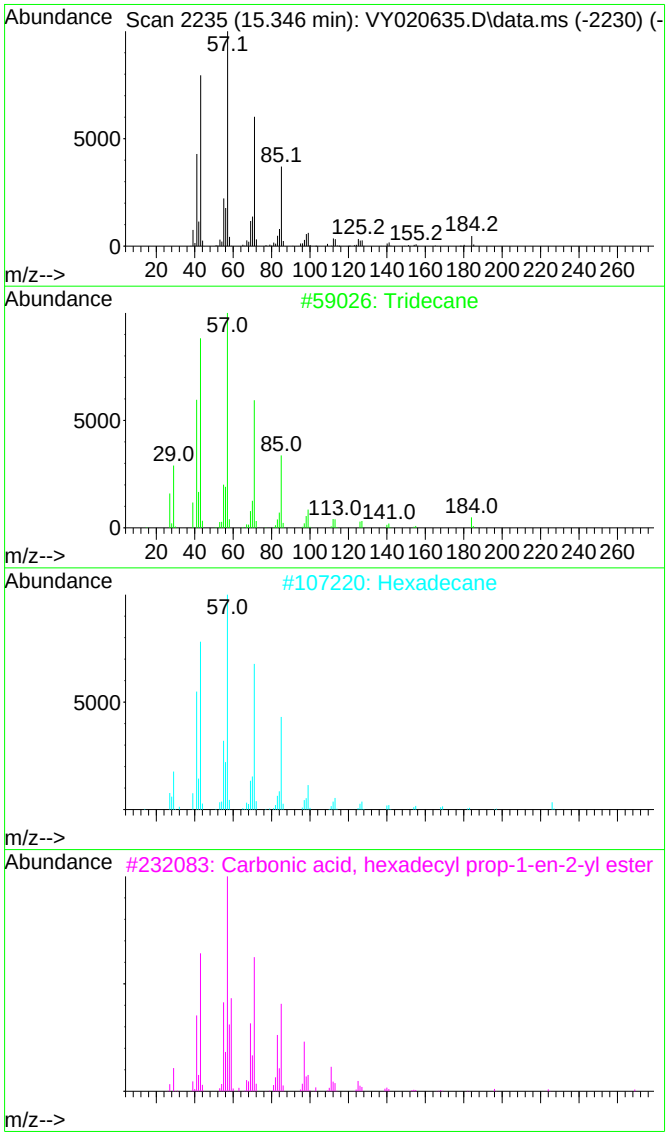
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

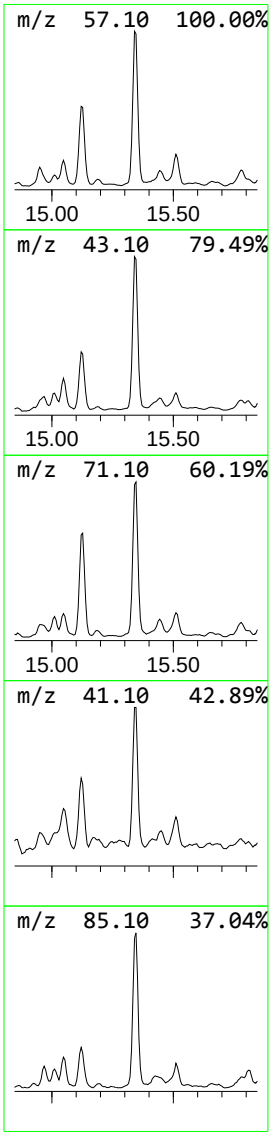
****

Peak Number 8 Tridecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	116.17 ug/l	2466700	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	96
2	Hexadecane	226	C16H34	000544-76-3	91
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	80
4	Dodecane	170	C12H26	000112-40-3	80
5	Carbonic acid, tetradecyl vinyl ...	284	C17H32O3	1000382-54-5	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

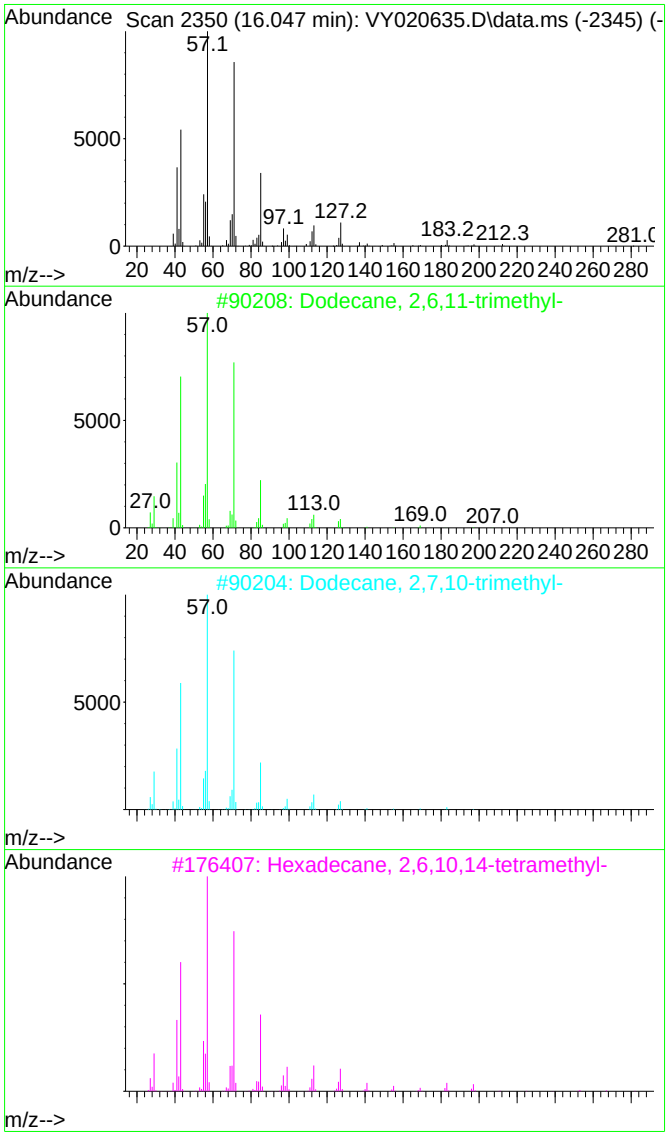
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

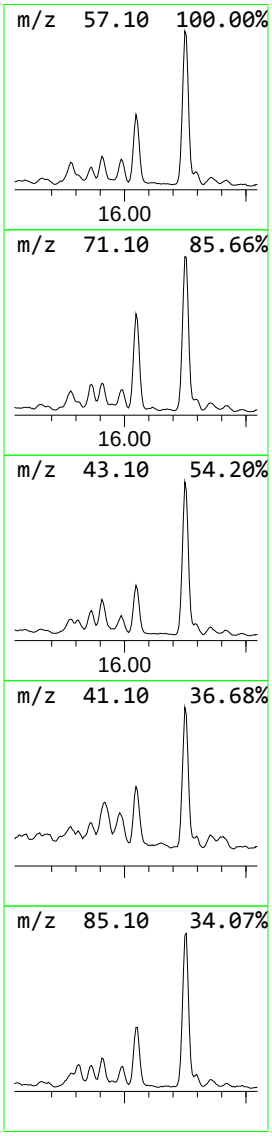
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Dodecane, 2,6,11-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.047	49.23 ug/l	1045290	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	90
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	90
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	86
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
5	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

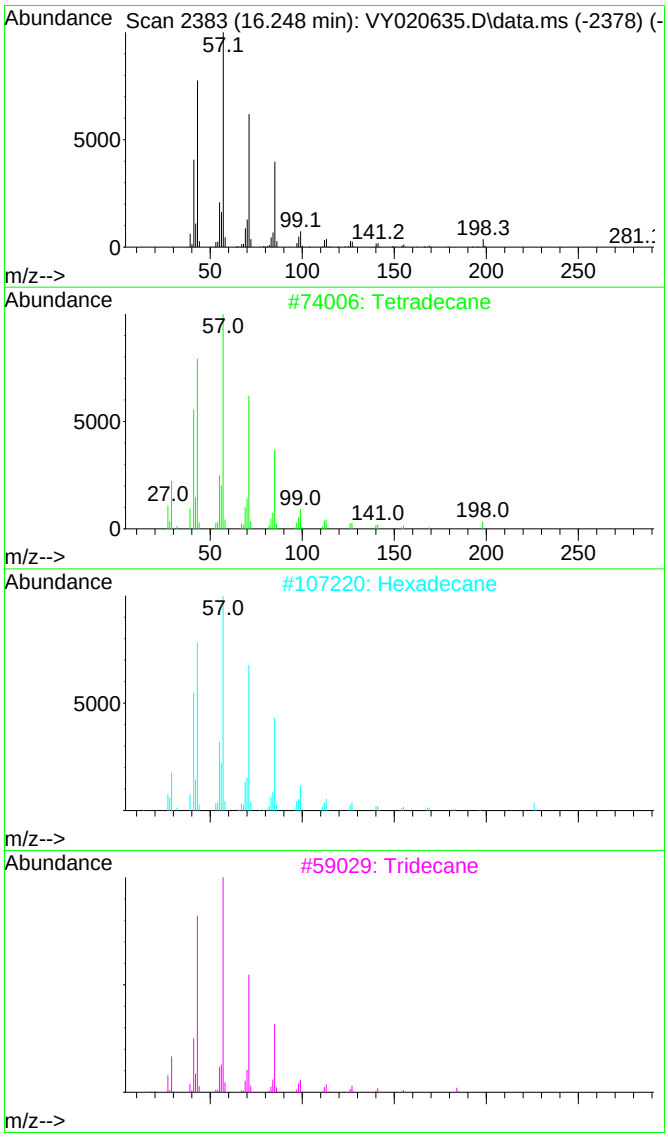
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

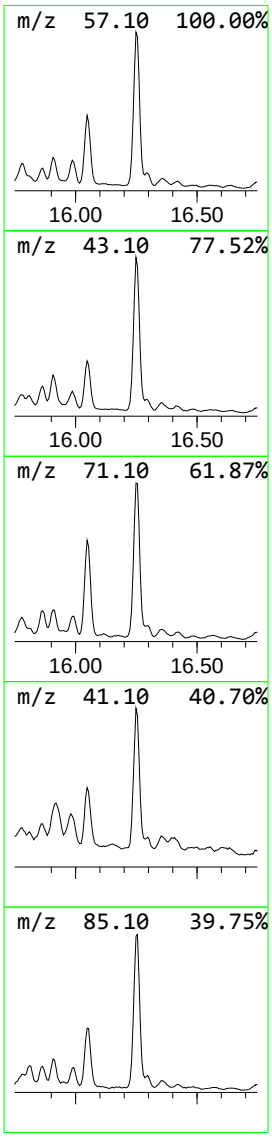
****

Peak Number 10 Tetradecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.248	99.53 ug/l	2113460	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	98
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tridecane	184	C13H28	000629-50-5	86
4	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86
5	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	86





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020635.D
Acq On : 18 Dec 2024 14:54
Operator : SY/MD
Sample : P5299-04
Misc : 6.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.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
Undecane	13.676	116.1	ug/l	2465290	4	13.347	1061690	50.0
Naphthalene, de...	14.169	88.8	ug/l	1884600	4	13.347	1061690	50.0
Dodecane	14.529	107.1	ug/l	2274920	4	13.347	1061690	50.0
Undecane, 2,6-d...	14.645	86.2	ug/l	1830300	4	13.347	1061690	50.0
cis,trans-1,6-D...	14.767	49.2	ug/l	1044820	4	13.347	1061690	50.0
unknown15.054	15.054	49.6	ug/l	1052420	4	13.347	1061690	50.0
Dodecane, 4,6-d...	15.121	77.2	ug/l	1638150	4	13.347	1061690	50.0
Tridecane	15.346	116.2	ug/l	2466700	4	13.347	1061690	50.0
Dodecane, 2,6,1...	16.047	49.2	ug/l	1045290	4	13.347	1061690	50.0
Tetradecane	16.248	99.5	ug/l	2113460	4	13.347	1061690	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.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.678	0.633	0.617	0.601	0.552	0.665	0.625	7.3
Chloromethane	0.490	0.506	0.428	0.426	0.372	0.555	0.463	14.3
Vinyl Chloride	0.443	0.469	0.371	0.440	0.374	0.487	0.431	11.3
Bromomethane	0.291	0.279	0.229	0.282	0.254	0.327	0.277	12.1
Chloroethane	0.273	0.287	0.212	0.272	0.251	0.302	0.266	11.8
Trichlorofluoromethane	0.981	0.954	0.791	0.878	0.810	0.993	0.901	9.7
1,1,2-Trichlorotrifluoroethane	0.715	0.659	0.603	0.649	0.537	0.712	0.646	10.5
1,1-Dichloroethene	0.701	0.637	0.589	0.638	0.528	0.667	0.627	9.7
Acetone	0.141	0.107	0.098	0.110		0.168	0.125	23.2
Carbon Disulfide	2.315	2.083	1.939	2.092	1.669	2.142	2.040	10.7
Methyl tert-butyl Ether	1.799	1.584	1.663	1.652	1.466	1.542	1.618	7.1
Methyl Acetate	0.474	0.351	0.350	0.391	0.292	0.378	0.373	16.1
Methylene Chloride	0.758	0.683	0.617	0.665	0.596	0.766	0.681	10.3
trans-1,2-Dichloroethene	0.771	0.703	0.710	0.692	0.636	0.707	0.703	6.2
1,1-Dichloroethane	1.401	1.307	1.323	1.300	1.173	1.333	1.306	5.7
Cyclohexane	1.388	1.247	1.198	1.160	1.056	1.443	1.249	11.6
2-Butanone	0.245	0.191	0.197	0.195	0.166	0.228	0.204	13.9
Carbon Tetrachloride	0.768	0.715	0.701	0.697	0.656	0.730	0.711	5.2
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1
Bromochloromethane	0.436	0.353	0.495	0.501	0.432	0.427	0.441	12.3
Chloroform	1.768	1.465	1.378	1.302	1.186	2.069	1.528	21.6
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7
Methylcyclohexane	0.883	0.848	0.832	0.812	0.766	0.883	0.837	5.3
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9
1,2-Dichloroethane	0.546	0.499	0.500	0.498	0.452	0.502	0.500	6
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8
1,2-Dichloropropane	0.473	0.450	0.434	0.440	0.401	0.442	0.440	5.3
Bromodichloromethane	0.672	0.632	0.632	0.627	0.581	0.626	0.628	4.6
4-Methyl-2-Pentanone	0.364	0.290	0.299	0.301	0.261	0.297	0.302	11.1
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5

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

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.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

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

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.638	0.572	0.602	0.611	0.556	0.534	0.586	6.5
cis-1,3-Dichloropropene	0.742	0.694	0.706	0.714	0.646	0.661	0.694	5.1
1,1,2-Trichloroethane	0.344	0.306	0.303	0.309	0.276	0.308	0.308	7.1
2-Hexanone	0.225	0.183	0.199	0.202	0.175	0.180	0.194	9.5
Dibromochloromethane	0.447	0.402	0.420	0.421	0.381	0.396	0.411	5.7
1,2-Dibromoethane	0.319	0.281	0.288	0.290	0.261	0.277	0.286	6.7
Tetrachloroethene	0.505	0.464	0.452	0.446	0.422	0.533	0.470	8.7
Chlorobenzene	1.501	1.397	1.374	1.381	1.293	1.441	1.398	5
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1
Styrene	1.586	1.496	1.502	1.501	1.406	1.478	1.495	3.8
Bromoform	0.302	0.256	0.270	0.272	0.250	0.262	0.269	6.9
Isopropylbenzene	4.636	4.451	4.356	4.284	4.051	4.401	4.363	4.4
1,1,2,2-Tetrachloroethane	0.804	0.702	0.710	0.710	0.635	0.689	0.708	7.7
1,3-Dichlorobenzene	1.982	1.912	1.864	1.832	1.702	1.966	1.876	5.5
1,4-Dichlorobenzene	1.980	1.852	1.832	1.797	1.680	2.008	1.858	6.5
1,2-Dichlorobenzene	1.735	1.614	1.606	1.602	1.501	1.694	1.626	5
1,2-Dibromo-3-Chloropropane	0.133	0.107	0.113	0.114	0.107	0.116	0.115	8.4
1,2,4-Trichlorobenzene	0.975	0.927	1.014	1.030	0.990	0.964	0.983	3.8
1,2,3-Trichlorobenzene	0.798	0.791	0.864	0.874	0.846	0.813	0.831	4.2
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9

* 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 : 82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024
Response Via : Initial Calibration

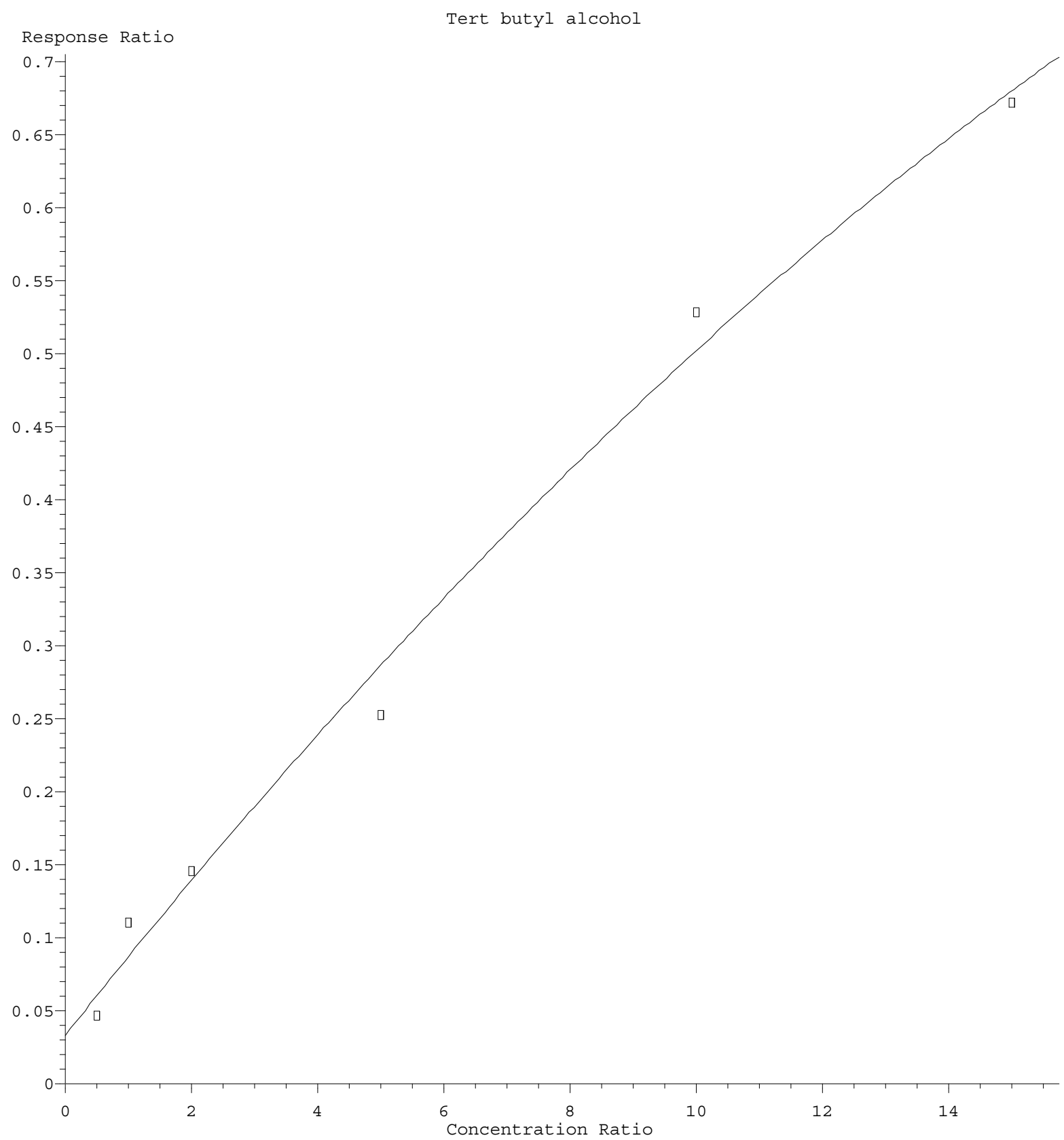
Calibration Files
5 =VY020619.D 10 =VY020613.D 20 =VY020614.D 50 =VY020615.D 100 =VY020616.D 150 =VY020617.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.665	0.678	0.633	0.617	0.601	0.552	0.625	7.31
3)	P	Chloromethane	0.555	0.490	0.506	0.428	0.426	0.372	0.463	14.32
4)	C	Vinyl Chloride	0.487	0.443	0.469	0.371	0.440	0.374	0.431	11.27#
5)	T	Bromomethane	0.327	0.291	0.279	0.229	0.282	0.254	0.277	12.08
6)	T	Chloroethane	0.302	0.273	0.287	0.212	0.272	0.251	0.266	11.75
7)	T	Trichlorofluor...	0.993	0.981	0.954	0.791	0.878	0.810	0.901	9.73
8)	T	Diethyl Ether	0.343	0.346	0.330	0.291	0.315	0.272	0.316	9.40
9)	T	1,1,2-Trichlor...	0.712	0.715	0.659	0.603	0.649	0.537	0.646	10.48
10)	T	Methyl Iodide	0.670	0.803	0.746	0.692	0.778	0.625	0.719	9.47
11)	T	Tert butyl alc...	0.093	0.110	0.073	0.051	0.053	0.045	0.071	37.31
12)	CM	1,1-Dichloroet...	0.667	0.701	0.637	0.589	0.638	0.528	0.627	9.72#
13)	T	Acrolein	0.033	0.039	0.033	0.017	0.019	0.015	0.026	38.81
14)	T	Allyl chloride	1.163	1.235	1.118	1.028	1.144	0.901	1.098	10.74
15)	T	Acrylonitrile	0.144	0.179	0.144	0.155	0.153	0.132	0.151	10.38
16)	T	Acetone	0.168	0.141	0.107	0.098	0.110		0.125	23.18
17)	T	Carbon Disulfide	2.142	2.315	2.083	1.939	2.092	1.669	2.040	10.70
18)	T	Methyl Acetate	0.378	0.474	0.351	0.350	0.391	0.292	0.373	16.13
19)	T	Methyl tert-bu...	1.542	1.799	1.584	1.663	1.652	1.466	1.618	7.10
20)	T	Methylene Chlo...	0.766	0.758	0.683	0.617	0.665	0.596	0.681	10.29
21)	T	trans-1,2-Dich...	0.707	0.771	0.703	0.710	0.692	0.636	0.703	6.17
22)	T	Diisopropyl ether	2.216	2.452	2.235	2.286	2.216	1.971	2.229	6.95
23)	T	Vinyl Acetate	1.175	1.418	1.245	1.314	1.295	1.129	1.263	8.20
24)	P	1,1-Dichloroet...	1.333	1.401	1.307	1.323	1.300	1.173	1.306	5.70
25)	T	2-Butanone	0.228	0.245	0.191	0.197	0.195	0.166	0.204	13.90
26)	T	2,2-Dichloropr...	1.451	1.366	1.219	1.184	1.146	1.041	1.235	12.13
27)	T	cis-1,2-Dichlo...	0.827	0.875	0.815	0.817	0.797	0.724	0.809	6.09
28)	T	Bromochloromet...	0.427	0.436	0.353	0.495	0.501	0.432	0.441	12.27
29)	T	Tetrahydrofuran	0.116	0.154	0.126	0.133	0.132	0.110	0.128	11.76
30)	C	Chloroform	2.069	1.768	1.465	1.378	1.302	1.186	1.528	21.59#
31)	T	Cyclohexane	1.443	1.388	1.247	1.198	1.160	1.056	1.249	11.59
32)	T	1,1,1-Trichlor...	1.219	1.298	1.215	1.198	1.183	1.086	1.200	5.72
33)	S	1,2-Dichloroet...	0.636	0.619	0.487	0.569	0.507	0.467	0.548	12.97
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.404	0.385	0.328	0.360	0.325	0.313	0.352	10.37
36)	T	1,1-Dichloropr...	0.688	0.691	0.637	0.637	0.622	0.581	0.643	6.46
37)	T	Ethyl Acetate	0.296	0.379	0.290	0.298	0.296	0.255	0.302	13.52
38)	T	Carbon Tetrach...	0.730	0.768	0.715	0.701	0.697	0.656	0.711	5.21
39)	T	Methylcyclohexane	0.883	0.883	0.848	0.832	0.812	0.766	0.837	5.33
40)	TM	Benzene	1.927	2.055	1.900	1.859	1.847	1.713	1.883	5.95
41)	T	Methacrylonitrile	0.147	0.186	0.146	0.154	0.183	0.143	0.160	12.38
42)	TM	1,2-Dichloroet...	0.502	0.546	0.499	0.500	0.498	0.452	0.500	5.98
43)	T	Isopropyl Acetate	0.519	0.671	0.554	0.582	0.589	0.518	0.572	9.93
44)	TM	Trichloroethene	0.481	0.501	0.462	0.458	0.453	0.422	0.463	5.82
45)	C	1,2-Dichloropr...	0.442	0.473	0.450	0.434	0.440	0.401	0.440	5.30#
46)	T	Dibromomethane	0.232	0.262	0.230	0.231	0.233	0.209	0.233	7.18
47)	T	Bromodichlorom...	0.626	0.672	0.632	0.632	0.627	0.581	0.628	4.57
48)	T	Methyl methacr...	0.254	0.305	0.259	0.276	0.286	0.252	0.272	7.69
49)	T	1,4-Dioxane	0.002	0.003	0.002	0.003	0.003	0.002	0.003	10.37
50)	S	Toluene-d8	1.445	1.314	1.127	1.271	1.143	1.100	1.233	10.88
51)	T	4-Methyl-2-Pen...	0.297	0.364	0.290	0.299	0.301	0.261	0.302	11.09
52)	CM	Toluene	1.176	1.247	1.185	1.167	1.165	1.082	1.170	4.52#
53)	T	t-1,3-Dichloro...	0.534	0.638	0.572	0.602	0.611	0.556	0.586	6.55
54)	T	cis-1,3-Dichlo...	0.661	0.742	0.694	0.706	0.714	0.646	0.694	5.08
55)	T	1,1,2-Trichlor...	0.308	0.344	0.306	0.303	0.309	0.276	0.308	7.06

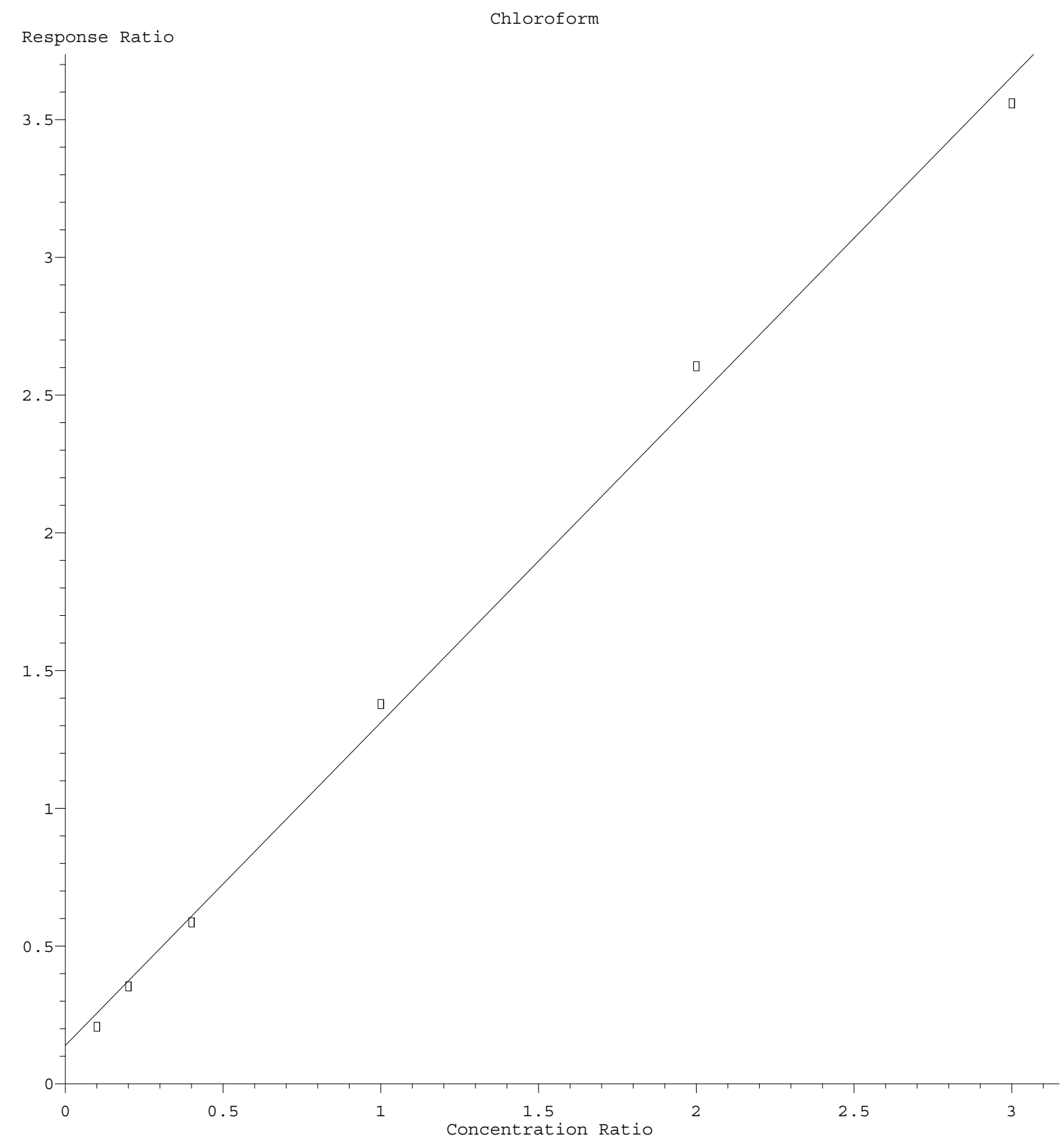
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M

56)	T	Ethyl methacry...	0.388	0.485	0.422	0.460	0.487	0.435	0.446	8.63
57)	T	1,3-Dichloropr...	0.534	0.609	0.544	0.555	0.554	0.495	0.548	6.71
58)	T	2-Chloroethyl ...	0.185	0.197	0.176	0.172	0.198	0.198	0.188	6.28
59)	T	2-Hexanone	0.180	0.225	0.183	0.199	0.202	0.175	0.194	9.55
60)	T	Dibromochlorom...	0.396	0.447	0.402	0.420	0.421	0.381	0.411	5.67
61)	T	1,2-Dibromoethane	0.277	0.319	0.281	0.288	0.290	0.261	0.286	6.70
62)	S	4-Bromofluorob...	0.585	0.538	0.448	0.480	0.433	0.412	0.482	13.88
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.533	0.505	0.464	0.452	0.446	0.422	0.470	8.71
65)	PM	Chlorobenzene	1.441	1.501	1.397	1.374	1.381	1.293	1.398	4.99
66)	T	1,1,1,2-Tetrac...	0.479	0.529	0.468	0.474	0.476	0.443	0.478	5.88
67)	C	Ethyl Benzene	2.633	2.747	2.583	2.556	2.543	2.414	2.579	4.24#
68)	T	m/p-Xylenes	0.984	1.031	0.951	0.953	0.942	0.892	0.959	4.82
69)	T	o-Xylene	0.894	0.956	0.892	0.898	0.887	0.842	0.895	4.07
70)	T	Styrene	1.478	1.586	1.496	1.502	1.501	1.406	1.495	3.85
71)	P	Bromoform	0.262	0.302	0.256	0.270	0.272	0.250	0.269	6.86
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.401	4.636	4.451	4.356	4.284	4.051	4.363	4.43
74)	T	N-amyl acetate	0.867	1.133	0.999	1.067	1.088	0.972	1.021	9.36
75)	P	1,1,2,2-Tetrac...	0.689	0.804	0.702	0.710	0.710	0.635	0.708	7.72
76)	T	1,2,3-Trichlor...	0.532	0.581	0.520	0.522	0.511	0.450	0.519	8.11
77)	T	Bromobenzene	0.974	1.007	0.953	0.947	0.944	0.877	0.950	4.50
78)	T	n-propylbenzene	5.307	5.566	5.397	5.283	5.151	4.837	5.257	4.71
79)	T	2-Chlorotoluene	3.020	3.114	3.012	2.940	2.932	2.727	2.958	4.42
80)	T	1,3,5-Trimethy...	3.616	3.701	3.622	3.560	3.473	3.270	3.540	4.30
81)	T	trans-1,4-Dich...	0.212	0.270	0.247	0.256	0.262	0.237	0.247	8.45
82)	T	4-Chlorotoluene	3.264	3.185	3.123	3.059	2.993	2.786	3.068	5.46
83)	T	tert-Butylbenzene	3.188	3.378	3.288	3.215	3.178	2.992	3.206	4.02
84)	T	1,2,4-Trimethy...	3.454	3.660	3.534	3.536	3.429	3.224	3.473	4.21
85)	T	sec-Butylbenzene	4.806	4.894	4.777	4.690	4.543	4.263	4.662	4.91
86)	T	p-Isopropyltol...	3.838	3.975	3.951	3.916	3.809	3.574	3.844	3.82
87)	T	1,3-Dichlorobe...	1.966	1.982	1.912	1.864	1.832	1.702	1.876	5.47
88)	T	1,4-Dichlorobe...	2.008	1.980	1.852	1.832	1.797	1.680	1.858	6.54
89)	T	n-Butylbenzene	3.625	3.755	3.736	3.749	3.599	3.393	3.643	3.82
90)	T	Hexachloroethane	0.774	0.794	0.764	0.764	0.753	0.720	0.762	3.23
91)	T	1,2-Dichlorobe...	1.694	1.735	1.614	1.606	1.602	1.501	1.626	5.01
92)	T	1,2-Dibromo-3-...	0.116	0.133	0.107	0.113	0.114	0.107	0.115	8.44
93)	T	1,2,4-Trichlor...	0.964	0.975	0.927	1.014	1.030	0.990	0.983	3.76
94)	T	Hexachlorobuta...	0.667	0.650	0.636	0.657	0.634	0.613	0.643	2.97
95)	T	Naphthalene	1.437	1.669	1.528	1.768	1.906	1.808	1.686	10.52
96)	T	1,2,3-Trichlor...	0.813	0.798	0.791	0.864	0.874	0.846	0.831	4.25

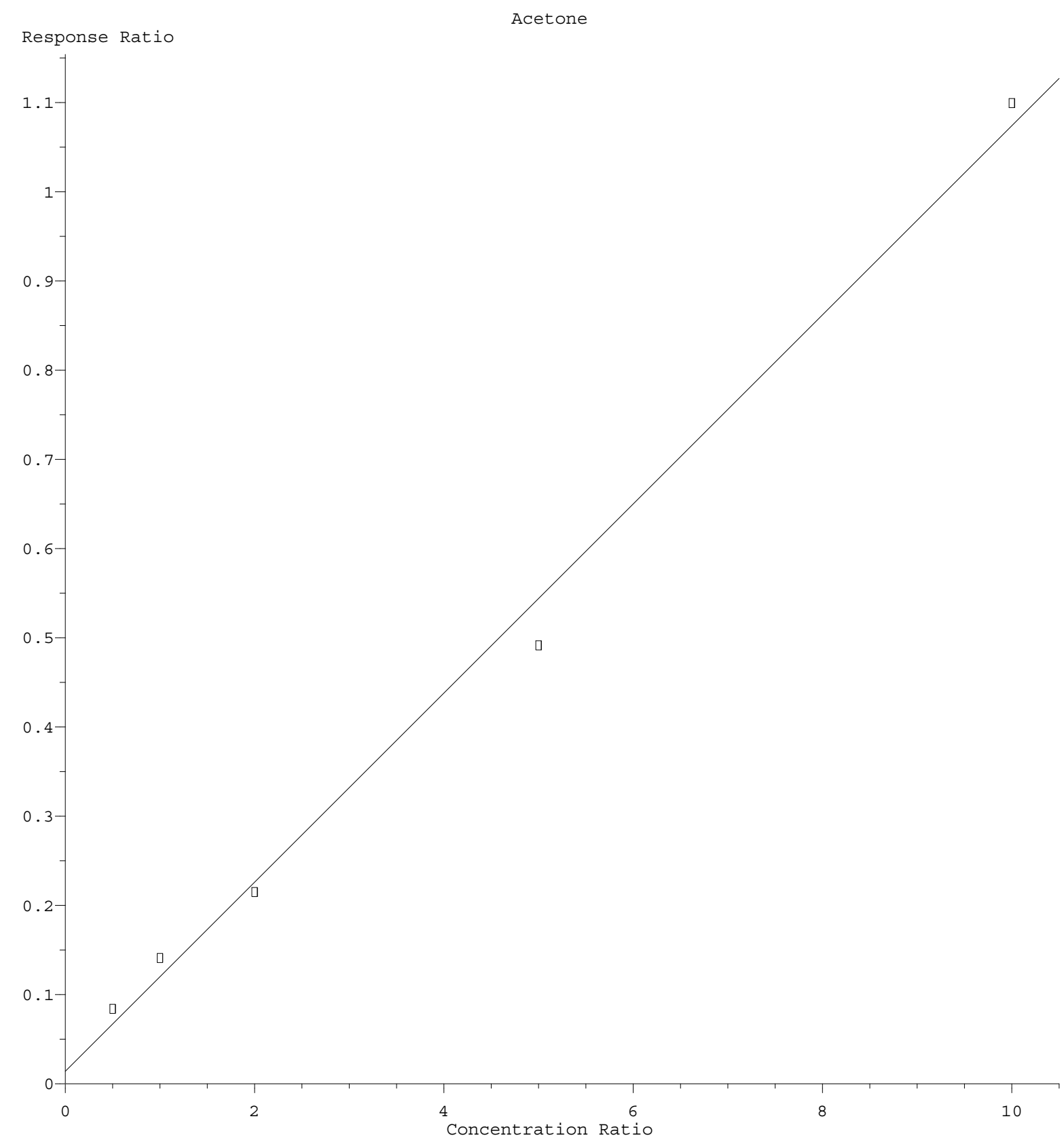
(#) = Out of Range



R = -7.535e-004 A*A + 5.441e-002 A + 3.343e-002
Coef of Det (r^2) = 0.991509 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024



Response = 1.172e+000 * Amt + 1.389e-001
Coef of Det (r^2) = 0.996566 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024



Response = 1.060e-001 * Amt + 1.400e-002
Coef of Det (r^2) = 0.993909 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	170610	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	263150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	228550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	127910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	21133	11.310	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	22.620%#		
35) Dibromofluoromethane	7.634	113	20262	10.925	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	21.860%#		
50) Toluene-d8	10.103	98	69155	10.653	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	21.300%#		
62) 4-Bromofluorobenzene	12.401	95	28323	11.154	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	22.300%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	23136	10.857	ug/l	100
3) Chloromethane	2.068	50	16735	10.599	ug/l	98
4) Vinyl Chloride	2.202	62	15133	10.297	ug/l	98
5) Bromomethane	2.598	94	9934	10.516	ug/l	95
6) Chloroethane	2.732	64	9308	10.249	ug/l	93
7) Trichlorofluoromethane	3.062	101	33462	10.882	ug/l	97
8) Diethyl Ether	3.458	74	11799	10.941	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	24382	11.062	ug/l	99
10) Methyl Iodide	4.007	142	27400	11.166	ug/l	96
11) Tert butyl alcohol	4.842	59	18830	72.145	ug/l #	90
12) 1,1-Dichloroethene	3.793	96	23914	11.182	ug/l	98
13) Acrolein	3.653	56	6650	75.266	ug/l	100
14) Allyl chloride	4.385	41	42157	11.250	ug/l	98
15) Acrylonitrile	5.061	53	30489	59.095	ug/l	99
16) Acetone	3.873	43	24059	59.918	ug/l	92
17) Carbon Disulfide	4.110	76	79000	11.348	ug/l	98
18) Methyl Acetate	4.391	43	16164	12.714	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	61370	11.118	ug/l	99
20) Methylene Chloride	4.622	84	25848	11.126	ug/l	94
21) trans-1,2-Dichloroethene	5.116	96	26315	10.969	ug/l	97
22) Diisopropyl ether	6.018	45	83653	10.997	ug/l	94
23) Vinyl Acetate	5.964	43	241892	56.147	ug/l	100
24) 1,1-Dichloroethane	5.915	63	47807	10.728	ug/l	99
25) 2-Butanone	6.896	43	41782	60.169	ug/l	100
26) 2,2-Dichloropropane	6.884	77	46620	11.067	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	29841	10.812	ug/l	97
28) Bromochloromethane	7.250	49	14872	9.894	ug/l	98
29) Tetrahydrofuran	7.262	42	26233	59.842	ug/l	99
30) Chloroform	7.421	83	60327	9.156	ug/l	98
31) Cyclohexane	7.701	56	47368	11.117	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	44299	10.820	ug/l	100
36) 1,1-Dichloropropene	7.835	75	36347	10.748	ug/l	99
37) Ethyl Acetate	6.982	43	19950	12.541	ug/l	99
38) Carbon Tetrachloride	7.823	117	40394	10.796	ug/l	95
39) Methylcyclohexane	9.103	83	46462	10.541	ug/l	97
40) Benzene	8.079	78	108150	10.910	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	9800	11.653	ug/l		95
42) 1,2-Dichloroethane	8.158	62	28739	10.931	ug/l		98
43) Isopropyl Acetate	8.195	43	35299	11.721	ug/l	#	88
44) Trichloroethene	8.866	130	26388	10.834	ug/l		96
45) 1,2-Dichloropropane	9.140	63	24889	10.743	ug/l		100
46) Dibromomethane	9.231	93	13764	11.242	ug/l		99
47) Bromodichloromethane	9.420	83	35352	10.689	ug/l		98
48) Methyl methacrylate	9.219	41	16060	11.218	ug/l		99
49) 1,4-Dioxane	9.225	88	3340	237.872	ug/l	#	95
51) 4-Methyl-2-Pentanone	9.999	43	95663	60.180	ug/l		100
52) Toluene	10.170	92	65651	10.657	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	33566	10.892	ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	39068	10.698	ug/l		93
55) 1,1,2-Trichloroethane	10.573	97	18100	11.181	ug/l		96
56) Ethyl methacrylate	10.438	69	25543	10.877	ug/l		99
57) 1,3-Dichloropropane	10.713	76	32029	11.099	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	51913	52.537	ug/l		100
59) 2-Hexanone	10.755	43	59126	57.933	ug/l		100
60) Dibromochloromethane	10.908	129	23549	10.878	ug/l		99
61) 1,2-Dibromoethane	11.012	107	16807	11.162	ug/l		99
64) Tetrachloroethene	10.646	164	23098	10.744	ug/l		96
65) Chlorobenzene	11.438	112	68621	10.738	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	24180	11.065	ug/l		98
67) Ethyl Benzene	11.518	91	125547	10.649	ug/l		99
68) m/p-Xylenes	11.627	106	94273	21.506	ug/l		98
69) o-Xylene	11.950	106	43697	10.684	ug/l		100
70) Styrene	11.969	104	72514	10.612	ug/l		99
71) Bromoform	12.127	173	13822	11.250	ug/l	#	100
73) Isopropylbenzene	12.255	105	118590	10.624	ug/l		99
74) N-amyl acetate	12.066	43	28977	11.093	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	20569	11.352	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	14870m	11.287	ug/l		
77) Bromobenzene	12.530	156	25752	10.591	ug/l		97
78) n-propylbenzene	12.597	91	142396	10.588	ug/l		100
79) 2-Chlorotoluene	12.676	91	79651	10.527	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	94672	10.453	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	6908	10.913	ug/l		93
82) 4-Chlorotoluene	12.773	91	81482	10.380	ug/l		98
83) tert-Butylbenzene	12.993	119	86405	10.534	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	93630	10.539	ug/l		98
85) sec-Butylbenzene	13.176	105	125189	10.497	ug/l		99
86) p-Isopropyltoluene	13.292	119	101690	10.342	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	50691	10.561	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	50665	10.658	ug/l		97
89) n-Butylbenzene	13.615	91	96052	10.307	ug/l		99
90) Hexachloroethane	13.877	117	20324	10.430	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	44391	10.674	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3406	11.579	ug/l		91
93) 1,2,4-Trichlorobenzene	14.919	180	24954	9.920	ug/l		98
94) Hexachlorobutadiene	15.023	225	16620	10.107	ug/l		97
95) Naphthalene	15.145	128	42698	9.901	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	20408	9.602	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

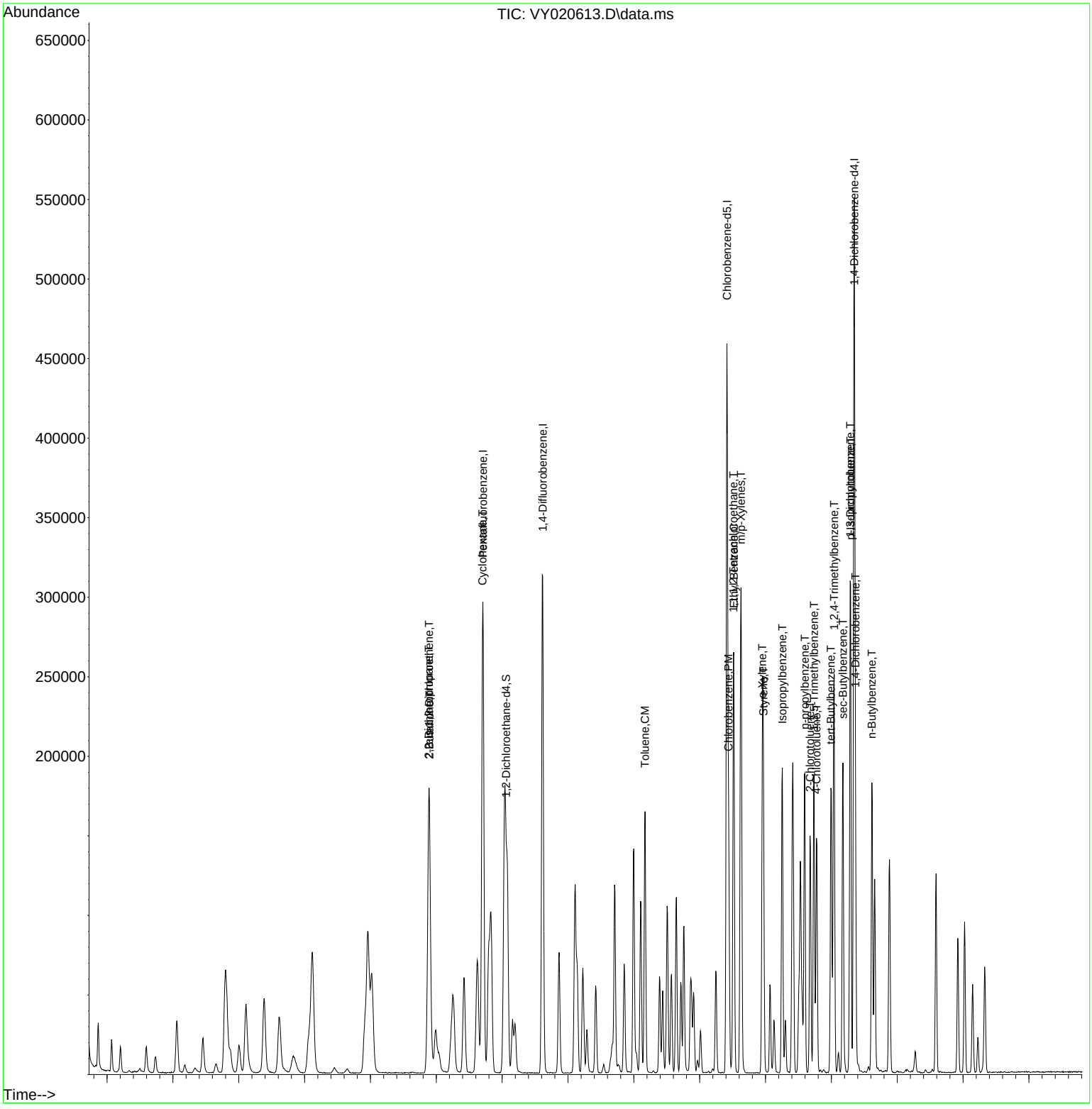
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	177160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	272612	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	241222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	131827	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	34492	17.777	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	35.560%#		
35) Dibromofluoromethane	7.634	113	35742	18.603	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	37.200%#		
50) Toluene-d8	10.103	98	122846	18.267	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	36.540%#		
62) 4-Bromofluorobenzene	12.401	95	48801	18.552	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	37.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	44875	20.280	ug/l	99
3) Chloromethane	2.068	50	35845	21.863	ug/l	98
4) Vinyl Chloride	2.202	62	33253	21.791	ug/l	100
5) Bromomethane	2.586	94	19758	20.142	ug/l	100
6) Chloroethane	2.732	64	20312	21.539	ug/l	98
7) Trichlorofluoromethane	3.055	101	67594	21.169	ug/l	98
8) Diethyl Ether	3.452	74	23380	20.878	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.817	101	46696	20.403	ug/l	100
10) Methyl Iodide	4.000	142	52895	20.758	ug/l	97
11) Tert butyl alcohol	4.866	59	25807	106.274	ug/l #	93
12) 1,1-Dichloroethene	3.787	96	45124	20.319	ug/l	99
13) Acrolein	3.653	56	11611	126.557	ug/l	94
14) Allyl chloride	4.384	41	79257	20.368	ug/l	99
15) Acrylonitrile	5.055	53	51118	95.416	ug/l	99
16) Acetone	3.866	43	38075	94.781	ug/l	99
17) Carbon Disulfide	4.104	76	147576	20.416	ug/l	100
18) Methyl Acetate	4.384	43	24886	18.851	ug/l	97
19) Methyl tert-butyl Ether	5.110	73	112241	19.582	ug/l	96
20) Methylene Chloride	4.616	84	48431	20.076	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	49814	19.997	ug/l	97
22) Diisopropyl ether	6.018	45	158410	20.055	ug/l	97
23) Vinyl Acetate	5.963	43	441039	98.587	ug/l	100
24) 1,1-Dichloroethane	5.915	63	92599	20.011	ug/l	99
25) 2-Butanone	6.896	43	67498	93.608	ug/l	98
26) 2,2-Dichloropropane	6.884	77	86393	19.750	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	57749	20.149	ug/l	99
28) Bromochloromethane	7.244	49	24987	16.009	ug/l	98
29) Tetrahydrofuran	7.256	42	44636	98.059	ug/l	98
30) Chloroform	7.421	83	103806	19.065	ug/l	99
31) Cyclohexane	7.701	56	88339	19.966	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	86081	20.249	ug/l	99
36) 1,1-Dichloropropene	7.835	75	69466	19.828	ug/l	99
37) Ethyl Acetate	6.982	43	31585	19.166	ug/l	99
38) Carbon Tetrachloride	7.817	117	77945	20.109	ug/l	96
39) Methylcyclohexane	9.103	83	92458	20.249	ug/l	97
40) Benzene	8.079	78	207185	20.176	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	15884	18.232	ug/l		96
42) 1,2-Dichloroethane	8.158	62	54425	19.983	ug/l		99
43) Isopropyl Acetate	8.195	43	60446	19.375	ug/l	#	88
44) Trichloroethene	8.865	130	50346	19.952	ug/l		100
45) 1,2-Dichloropropane	9.140	63	49119	20.466	ug/l		99
46) Dibromomethane	9.231	93	25054	19.753	ug/l		99
47) Bromodichloromethane	9.420	83	68951	20.125	ug/l		97
48) Methyl methacrylate	9.219	41	28256	19.051	ug/l		100
49) 1,4-Dioxane	9.225	88	5399	371.167	ug/l		96
51) 4-Methyl-2-Pentanone	9.993	43	157955	95.918	ug/l		99
52) Toluene	10.170	92	129196	20.245	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	62391	19.543	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	75647	19.996	ug/l		97
55) 1,1,2-Trichloroethane	10.572	97	33330	19.875	ug/l		97
56) Ethyl methacrylate	10.438	69	46055	18.930	ug/l		99
57) 1,3-Dichloropropane	10.713	76	59274	19.828	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	96023	93.804	ug/l		100
59) 2-Hexanone	10.755	43	99623	94.224	ug/l		100
60) Dibromochloromethane	10.908	129	43825	19.541	ug/l		98
61) 1,2-Dibromoethane	11.011	107	30621	19.630	ug/l		100
64) Tetrachloroethene	10.646	164	44735	19.716	ug/l		98
65) Chlorobenzene	11.438	112	134807	19.987	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	45146	19.574	ug/l		98
67) Ethyl Benzene	11.517	91	249208	20.027	ug/l		100
68) m/p-Xylenes	11.627	106	183488	39.659	ug/l		98
69) o-Xylene	11.950	106	86043	19.932	ug/l		98
70) Styrene	11.968	104	144333	20.012	ug/l		99
71) Bromoform	12.133	173	24718	19.062	ug/l	#	99
73) Isopropylbenzene	12.255	105	234727	20.404	ug/l		100
74) N-amyl acetate	12.066	43	52699	19.574	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36998	19.813	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	27440m	20.210	ug/l		
77) Bromobenzene	12.529	156	50276	20.063	ug/l		99
78) n-propylbenzene	12.596	91	284604	20.534	ug/l		100
79) 2-Chlorotoluene	12.676	91	158834	20.369	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	190968	20.458	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	13039	19.986	ug/l		98
82) 4-Chlorotoluene	12.773	91	164692	20.358	ug/l		99
83) tert-Butylbenzene	12.999	119	173358	20.507	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	186344	20.352	ug/l		99
85) sec-Butylbenzene	13.176	105	251880	20.492	ug/l		100
86) p-Isopropyltoluene	13.291	119	208342	20.558	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	100815	20.380	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	97668	19.935	ug/l		99
89) n-Butylbenzene	13.615	91	196997	20.511	ug/l		99
90) Hexachloroethane	13.877	117	40281	20.057	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	85128	19.862	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5627	18.561	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	48869	18.850	ug/l		99
94) Hexachlorobutadiene	15.023	225	33524	19.781	ug/l		99
95) Naphthalene	15.145	128	80562	18.126	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	41686	19.031	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

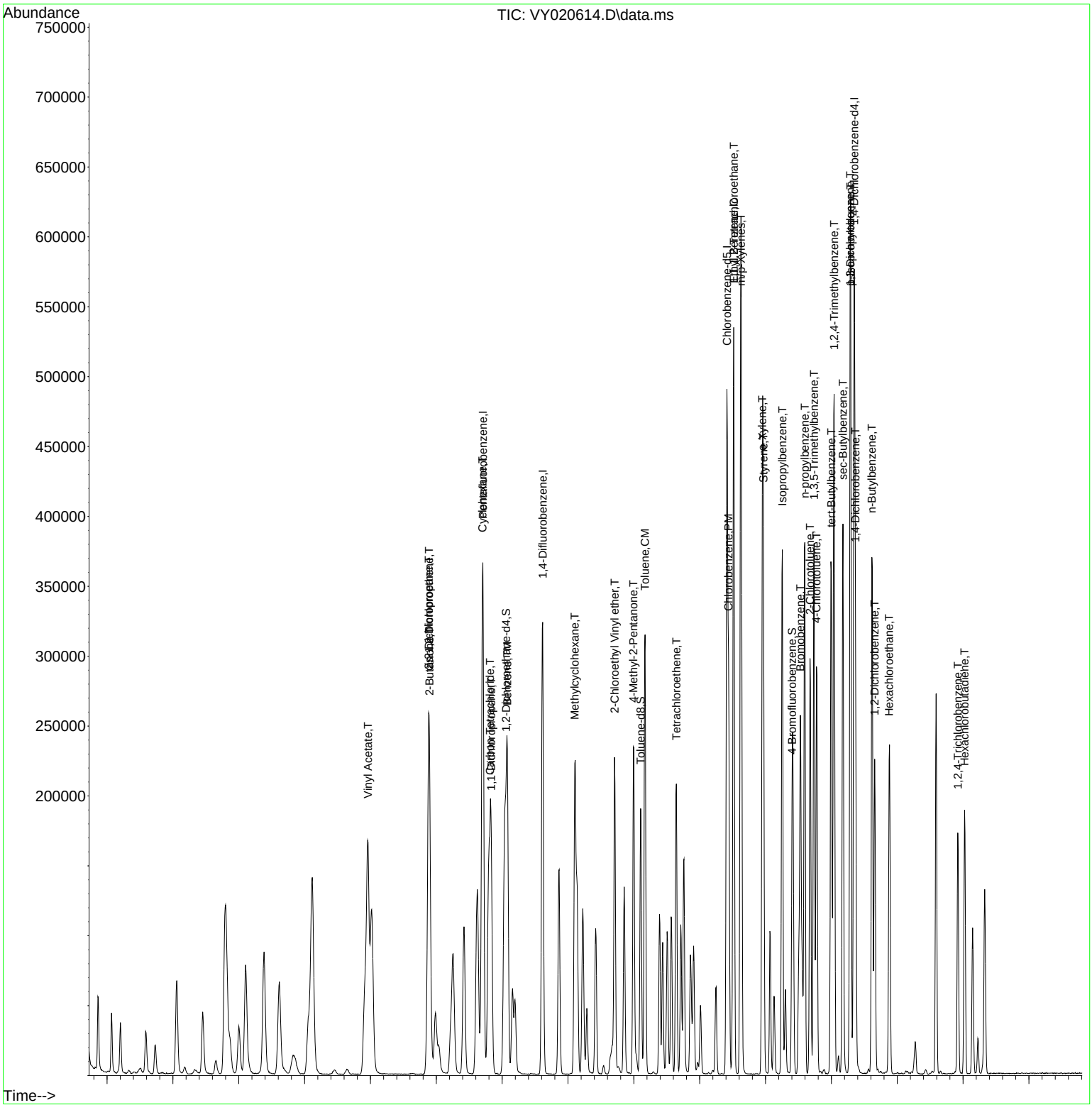
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	169292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	263162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	234325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	96289	51.933	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.860%			
35) Dibromofluoromethane	7.634	113	94848	51.139	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.280%			
50) Toluene-d8	10.103	98	334601	51.543	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.080%			
62) 4-Bromofluorobenzene	12.401	95	126226	49.707	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 99.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	104493	49.416	ug/l	100
3) Chloromethane	2.068	50	72429	46.229	ug/l	100
4) Vinyl Chloride	2.202	62	62750	43.031	ug/l	100
5) Bromomethane	2.598	94	38716	41.303	ug/l	100
6) Chloroethane	2.738	64	35946	39.890	ug/l	100
7) Trichlorofluoromethane	3.061	101	133990	43.913	ug/l	100
8) Diethyl Ether	3.458	74	49218	45.993	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.817	101	102158	46.710	ug/l	100
10) Methyl Iodide	4.006	142	117209	48.135	ug/l	100
11) Tert butyl alcohol	4.860	59	42756	214.068	ug/l	100
12) 1,1-Dichloroethene	3.787	96	99773	47.016	ug/l	100
13) Acrolein	3.653	56	14576	166.258	ug/l	100
14) Allyl chloride	4.384	41	173951	46.780	ug/l	100
15) Acrylonitrile	5.055	53	130861	255.615	ug/l	100
16) Acetone	3.866	43	83206	225.255	ug/l	100
17) Carbon Disulfide	4.104	76	328309	47.529	ug/l	100
18) Methyl Acetate	4.384	43	59224	46.948	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	281609	51.414	ug/l	100
20) Methylene Chloride	4.616	84	104472	45.319	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	120184	50.488	ug/l	100
22) Diisopropyl ether	6.024	45	387073	51.282	ug/l	100
23) Vinyl Acetate	5.963	43	1112368	260.208	ug/l	100
24) 1,1-Dichloroethane	5.915	63	223898	50.635	ug/l	100
25) 2-Butanone	6.896	43	167158	242.593	ug/l	100
26) 2,2-Dichloropropane	6.884	77	200438	47.951	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	138280	50.490	ug/l	100
28) Bromochloromethane	7.244	49	83821	56.199	ug/l	100
29) Tetrahydrofuran	7.262	42	112230	258.011	ug/l	100
30) Chloroform	7.420	83	233357	52.860	ug/l	100
31) Cyclohexane	7.701	56	202782	47.962	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	202760	49.911	ug/l	100
36) 1,1-Dichloropropene	7.835	75	167520	49.533	ug/l	100
37) Ethyl Acetate	6.981	43	78387	49.275	ug/l	100
38) Carbon Tetrachloride	7.817	117	184345	49.267	ug/l	100
39) Methylcyclohexane	9.109	83	219055	49.696	ug/l	100
40) Benzene	8.079	78	489140	49.343	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	40529	48.191	ug/l		100
42) 1,2-Dichloroethane	8.158	62	131640	50.069	ug/l		100
43) Isopropyl Acetate	8.195	43	153226	50.877	ug/l		100
44) Trichloroethene	8.865	130	120552	49.491	ug/l		100
45) 1,2-Dichloropropane	9.140	63	114250	49.313	ug/l		100
46) Dibromomethane	9.231	93	60782	49.642	ug/l		100
47) Bromodichloromethane	9.420	83	166333	50.291	ug/l		100
48) Methyl methacrylate	9.219	41	72602	50.709	ug/l		100
49) 1,4-Dioxane	9.231	88	14069	1001.939	ug/l		100
51) 4-Methyl-2-Pentanone	9.999	43	393979	247.835	ug/l		100
52) Toluene	10.170	92	307082	49.846	ug/l		100
53) t-1,3-Dichloropropene	10.389	75	158536	51.442	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	185696	50.849	ug/l		100
55) 1,1,2-Trichloroethane	10.572	97	79837	49.318	ug/l		100
56) Ethyl methacrylate	10.438	69	121030	51.535	ug/l		100
57) 1,3-Dichloropropane	10.713	76	146053	50.611	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	226061	228.767	ug/l		100
59) 2-Hexanone	10.761	43	261334	256.048	ug/l		100
60) Dibromochloromethane	10.908	129	110597	51.085	ug/l		100
61) 1,2-Dibromoethane	11.011	107	75811	50.346	ug/l		100
64) Tetrachloroethene	10.645	164	105939	48.065	ug/l		100
65) Chlorobenzene	11.438	112	322053	49.154	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	111060	49.571	ug/l		100
67) Ethyl Benzene	11.517	91	598896	49.546	ug/l		100
68) m/p-Xylenes	11.627	106	446771	99.408	ug/l		100
69) o-Xylene	11.956	106	210499	50.198	ug/l		100
70) Styrene	11.968	104	351858	50.222	ug/l		100
71) Bromoform	12.133	173	63198	50.171	ug/l	#	100
73) Isopropylbenzene	12.255	105	566646	49.914	ug/l		100
74) N-amyl acetate	12.072	43	138830	52.254	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	92349	50.115	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	67873m	50.656	ug/l		
77) Bromobenzene	12.529	156	123256	49.842	ug/l		100
78) n-propylbenzene	12.596	91	687319	50.251	ug/l		100
79) 2-Chlorotoluene	12.676	91	382511	49.707	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	463155	50.279	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	33360	51.816	ug/l		100
82) 4-Chlorotoluene	12.779	91	397958	49.848	ug/l		100
83) tert-Butylbenzene	12.999	119	418182	50.127	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	459974	50.907	ug/l		100
85) sec-Butylbenzene	13.176	105	610142	50.301	ug/l		100
86) p-Isopropyltoluene	13.291	119	509445	50.941	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	242502	49.677	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	238266	49.281	ug/l		100
89) n-Butylbenzene	13.614	91	487742	51.461	ug/l		100
90) Hexachloroethane	13.883	117	99360	50.134	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	208977	49.409	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	14740	49.268	ug/l		100
93) 1,2,4-Trichlorobenzene	14.925	180	131852	51.538	ug/l		100
94) Hexachlorobutadiene	15.029	225	85490	51.117	ug/l		100
95) Naphthalene	15.145	128	229979	52.434	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	112349	51.976	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

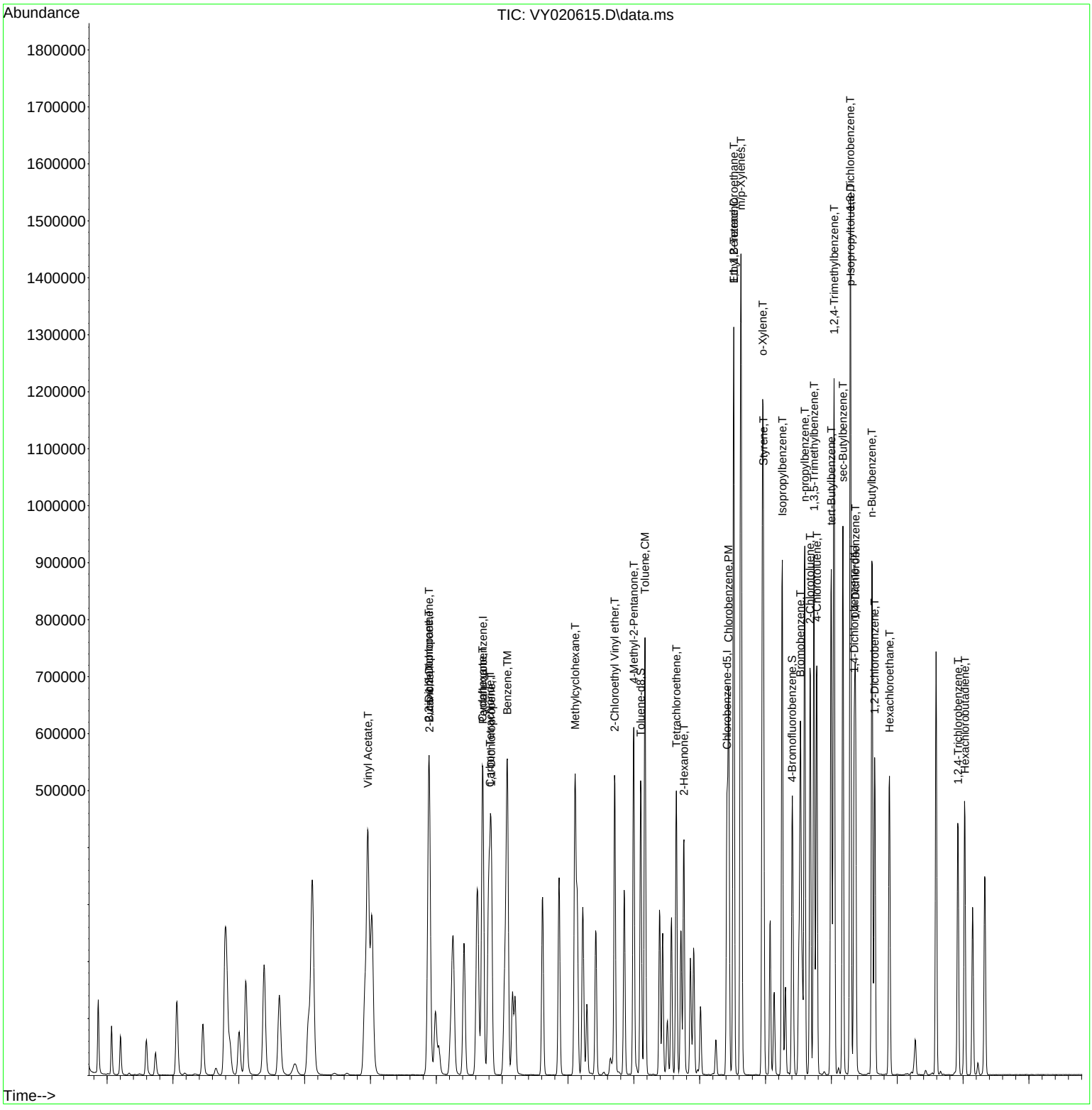
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	175469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	270859	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	241570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	134321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	177978	92.612	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 185.220%#			
35) Dibromofluoromethane	7.634	113	175849	92.118	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 184.240%#			
50) Toluene-d8	10.103	98	619412	92.704	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 185.400%#			
62) 4-Bromofluorobenzene	12.401	95	234353	89.665	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 179.320%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	210949	96.249	ug/l	99
3) Chloromethane	2.068	50	149471	92.044	ug/l	98
4) Vinyl Chloride	2.202	62	154262	102.062	ug/l	99
5) Bromomethane	2.586	94	98824	101.715	ug/l	97
6) Chloroethane	2.732	64	95621	102.376	ug/l	99
7) Trichlorofluoromethane	3.055	101	308242	97.464	ug/l	98
8) Diethyl Ether	3.458	74	110471	99.599	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	227753	100.469	ug/l	99
10) Methyl Iodide	4.000	142	272999	108.168	ug/l	98
11) Tert butyl alcohol	4.860	59	92710	533.746	ug/l	100
12) 1,1-Dichloroethene	3.787	96	224015	101.847	ug/l	100
13) Acrolein	3.653	56	32525	357.929	ug/l	98
14) Allyl chloride	4.384	41	401452	104.161	ug/l	99
15) Acrylonitrile	5.055	53	268782	506.539	ug/l	99
16) Acetone	3.872	43	192907	512.024	ug/l	99
17) Carbon Disulfide	4.104	76	734236	102.553	ug/l	99
18) Methyl Acetate	4.384	43	137166	104.906	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	579813	102.132	ug/l	98
20) Methylene Chloride	4.610	84	233323	97.650	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	242695	98.365	ug/l	97
22) Diisopropyl ether	6.018	45	777568	99.391	ug/l	96
23) Vinyl Acetate	5.957	43	2271891	512.739	ug/l	100
24) 1,1-Dichloroethane	5.914	63	456073	99.510	ug/l	99
25) 2-Butanone	6.890	43	341489	478.150	ug/l	99
26) 2,2-Dichloropropane	6.884	77	402163	92.822	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	279676	98.523	ug/l	99
28) Bromochloromethane	7.243	49	175710	113.661	ug/l	98
29) Tetrahydrofuran	7.262	42	230877	512.090	ug/l	100
30) Chloroform	7.420	83	457070	105.160	ug/l	97
31) Cyclohexane	7.701	56	407104	92.899	ug/l	98
32) 1,1,1-Trichloroethane	7.615	97	415073	98.578	ug/l	100
36) 1,1-Dichloropropene	7.835	75	337138	96.854	ug/l	99
37) Ethyl Acetate	6.981	43	160241	97.867	ug/l	100
38) Carbon Tetrachloride	7.817	117	377406	97.998	ug/l	100
39) Methylcyclohexane	9.109	83	440006	96.986	ug/l	99
40) Benzene	8.079	78	1000543	98.064	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	99381	114.810	ug/l	#	86
42) 1,2-Dichloroethane	8.158	62	270045	99.793	ug/l		100
43) Isopropyl Acetate	8.195	43	318902	102.879	ug/l		99
44) Trichloroethene	8.865	130	245474	97.912	ug/l		99
45) 1,2-Dichloropropane	9.139	63	238605	100.062	ug/l		99
46) Dibromomethane	9.231	93	126063	100.032	ug/l		99
47) Bromodichloromethane	9.420	83	339720	99.796	ug/l		97
48) Methyl methacrylate	9.219	41	154845	105.079	ug/l		99
49) 1,4-Dioxane	9.225	88	29870	2066.774	ug/l		97
51) 4-Methyl-2-Pentanone	9.993	43	814840	498.015	ug/l		100
52) Toluene	10.170	92	631368	99.573	ug/l		100
53) t-1,3-Dichloropropene	10.389	75	330795	104.287	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	386715	102.884	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	167205	100.352	ug/l		95
56) Ethyl methacrylate	10.438	69	263694	109.090	ug/l		98
57) 1,3-Dichloropropane	10.712	76	299884	100.965	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.706	63	536306	527.303	ug/l		100
59) 2-Hexanone	10.755	43	548285	521.929	ug/l		99
60) Dibromochloromethane	10.907	129	228154	102.389	ug/l		99
61) 1,2-Dibromoethane	11.011	107	156883	101.225	ug/l		100
64) Tetrachloroethene	10.645	164	215415	94.803	ug/l		97
65) Chlorobenzene	11.438	112	667347	98.800	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	229790	99.489	ug/l		99
67) Ethyl Benzene	11.517	91	1228775	98.607	ug/l		99
68) m/p-Xylenes	11.627	106	910536	196.521	ug/l		99
69) o-Xylene	11.956	106	428727	99.174	ug/l		97
70) Styrene	11.968	104	725167	100.401	ug/l		100
71) Bromoform	12.133	173	131589	101.332	ug/l	#	98
73) Isopropylbenzene	12.255	105	1150948	98.191	ug/l		100
74) N-amyl acetate	12.066	43	292377	106.582	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	190664	100.209	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	137213m	99.183	ug/l		
77) Bromobenzene	12.529	156	253587	99.317	ug/l		100
78) n-propylbenzene	12.596	91	1383699	97.980	ug/l		99
79) 2-Chlorotoluene	12.675	91	787764	99.147	ug/l		99
80) 1,3,5-Trimethylbenzene	12.736	105	933106	98.108	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	70365	105.852	ug/l		100
82) 4-Chlorotoluene	12.779	91	804177	97.558	ug/l		100
83) tert-Butylbenzene	12.999	119	853675	99.108	ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	921051	98.727	ug/l		99
85) sec-Butylbenzene	13.175	105	1220465	97.450	ug/l		100
86) p-Isopropyltoluene	13.291	119	1023181	99.089	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	492097	97.633	ug/l		99
88) 1,4-Dichlorobenzene	13.364	146	482756	96.707	ug/l		99
89) n-Butylbenzene	13.614	91	966758	98.789	ug/l		99
90) Hexachloroethane	13.883	117	202399	98.910	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	430383	98.552	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30584	99.008	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	276806	104.790	ug/l		99
94) Hexachlorobutadiene	15.023	225	170325	98.635	ug/l		99
95) Naphthalene	15.145	128	511948	113.046	ug/l		99
96) 1,2,3-Trichlorobenzene	15.327	180	234803	105.207	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

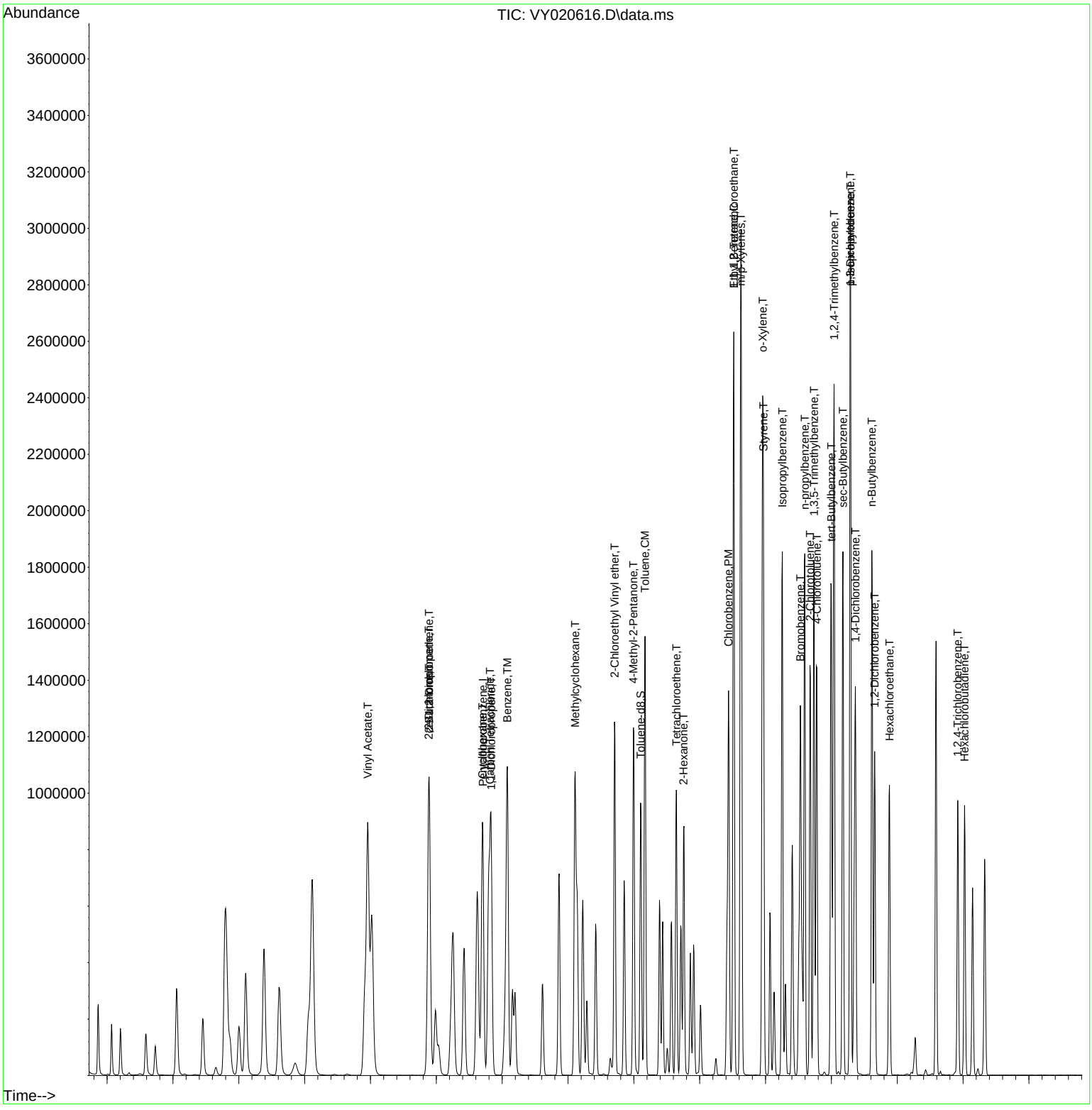
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	184362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	278509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	244385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	135852	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	258496	128.022	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 256.040%#			
35) Dibromofluoromethane	7.634	113	261486	133.217	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 266.440%#			
50) Toluene-d8	10.103	98	919148	133.785	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 267.580%#			
62) 4-Bromofluorobenzene	12.402	95	343903	127.965	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 255.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	305452	132.646	ug/l	99
3) Chloromethane	2.068	50	205555	120.474	ug/l	97
4) Vinyl Chloride	2.202	62	206764	130.199	ug/l	100
5) Bromomethane	2.586	94	140413	137.550	ug/l	99
6) Chloroethane	2.727	64	138821	141.459	ug/l	98
7) Trichlorofluoromethane	3.056	101	447890	134.789	ug/l	98
8) Diethyl Ether	3.452	74	150374	129.035	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	297171	124.769	ug/l	100
10) Methyl Iodide	4.001	142	345686	130.361	ug/l	99
11) Tert butyl alcohol	4.866	59	123878	737.397	ug/l	100
12) 1,1-Dichloroethene	3.787	96	291982	126.344	ug/l	98
13) Acrolein	3.653	56	42281	442.848	ug/l	97
14) Allyl chloride	4.385	41	498233	123.037	ug/l	99
15) Acrylonitrile	5.055	53	365294	655.216	ug/l	98
17) Carbon Disulfide	4.104	76	923365	122.748	ug/l	100
18) Methyl Acetate	4.385	43	161535	117.584	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	810589	135.895	ug/l	96
20) Methylene Chloride	4.616	84	329862	131.394	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	351487	135.586	ug/l	99
22) Diisopropyl ether	6.019	45	1089955	132.601	ug/l	99
23) Vinyl Acetate	5.958	43	3123065	670.840	ug/l	100
24) 1,1-Dichloroethane	5.915	63	648906	134.755	ug/l	100
25) 2-Butanone	6.890	43	458674	611.252	ug/l	100
26) 2,2-Dichloropropane	6.884	77	575868	126.503	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	400187	134.176	ug/l	99
28) Bromochloromethane	7.244	49	238929	147.100	ug/l	99
29) Tetrahydrofuran	7.262	42	305396	644.700	ug/l	99
30) Chloroform	7.421	83	656177	145.857	ug/l	98
31) Cyclohexane	7.701	56	584271	126.896	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	600711	135.784	ug/l	99
36) 1,1-Dichloropropene	7.835	75	485468	135.636	ug/l	99
37) Ethyl Acetate	6.982	43	213468	126.794	ug/l	99
38) Carbon Tetrachloride	7.817	117	548361	138.477	ug/l	98
39) Methylcyclohexane	9.110	83	640301	137.259	ug/l	98
40) Benzene	8.079	78	1431012	136.402	ug/l	98
41) Methacrylonitrile	7.220	41	119101	133.813	ug/l	95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	8.159	62	377438	135.647	ug/l		100
43) Isopropyl Acetate	8.195	43	433206	135.916	ug/l		100
44) Trichloroethene	8.866	130	352263	136.648	ug/l		98
45) 1,2-Dichloropropane	9.140	63	335340	136.766	ug/l		98
46) Dibromomethane	9.225	93	174812	134.905	ug/l		99
47) Bromodichloromethane	9.420	83	485795	138.787	ug/l		98
48) Methyl methacrylate	9.219	41	210550	138.957	ug/l		99
49) 1,4-Dioxane	9.225	88	41221	2773.834	ug/l		100
51) 4-Methyl-2-Pentanone	9.994	43	1092140	649.161	ug/l		99
52) Toluene	10.170	92	904033	138.659	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	464905	142.541	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	540157	139.760	ug/l		99
55) 1,1,2-Trichloroethane	10.567	97	230372	134.466	ug/l		97
56) Ethyl methacrylate	10.439	69	363115	146.095	ug/l		98
57) 1,3-Dichloropropane	10.713	76	413542	135.406	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	826777	790.569	ug/l		99
59) 2-Hexanone	10.756	43	731842	677.527	ug/l		98
60) Dibromochloromethane	10.908	129	318266	138.906	ug/l		99
61) 1,2-Dibromoethane	11.012	107	218394	137.043	ug/l		100
64) Tetrachloroethene	10.646	164	309587	134.678	ug/l		97
65) Chlorobenzene	11.438	112	948051	138.742	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.512	131	324778	138.995	ug/l		98
67) Ethyl Benzene	11.518	91	1770086	140.410	ug/l		99
68) m/p-Xylenes	11.627	106	1308282	279.114	ug/l		100
69) o-Xylene	11.951	106	617079	141.099	ug/l		99
70) Styrene	11.969	104	1031166	141.122	ug/l		99
71) Bromoform	12.133	173	183216	139.463	ug/l	#	98
73) Isopropylbenzene	12.255	105	1651138	139.276	ug/l		100
74) N-amyl acetate	12.066	43	396216	142.807	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	258787	134.480	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	183456m	131.115	ug/l		
77) Bromobenzene	12.530	156	357464	138.423	ug/l		100
78) n-propylbenzene	12.597	91	1971458	138.026	ug/l		99
79) 2-Chlorotoluene	12.676	91	1111362	138.298	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1332805	138.553	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	96747	143.899	ug/l		98
82) 4-Chlorotoluene	12.774	91	1135416	136.190	ug/l		100
83) tert-Butylbenzene	12.999	119	1219521	139.985	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1313945	139.253	ug/l		99
85) sec-Butylbenzene	13.176	105	1737212	137.147	ug/l		100
86) p-Isopropyltoluene	13.292	119	1456581	139.472	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	693843	136.109	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	684559	135.587	ug/l		100
89) n-Butylbenzene	13.615	91	1382912	139.722	ug/l		99
90) Hexachloroethane	13.877	117	293562	141.843	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	611871	138.532	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43513	139.274	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	403445	151.011	ug/l		99
94) Hexachlorobutadiene	15.023	225	250003	143.145	ug/l		100
95) Naphthalene	15.145	128	736677	160.836	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	344880	152.787	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

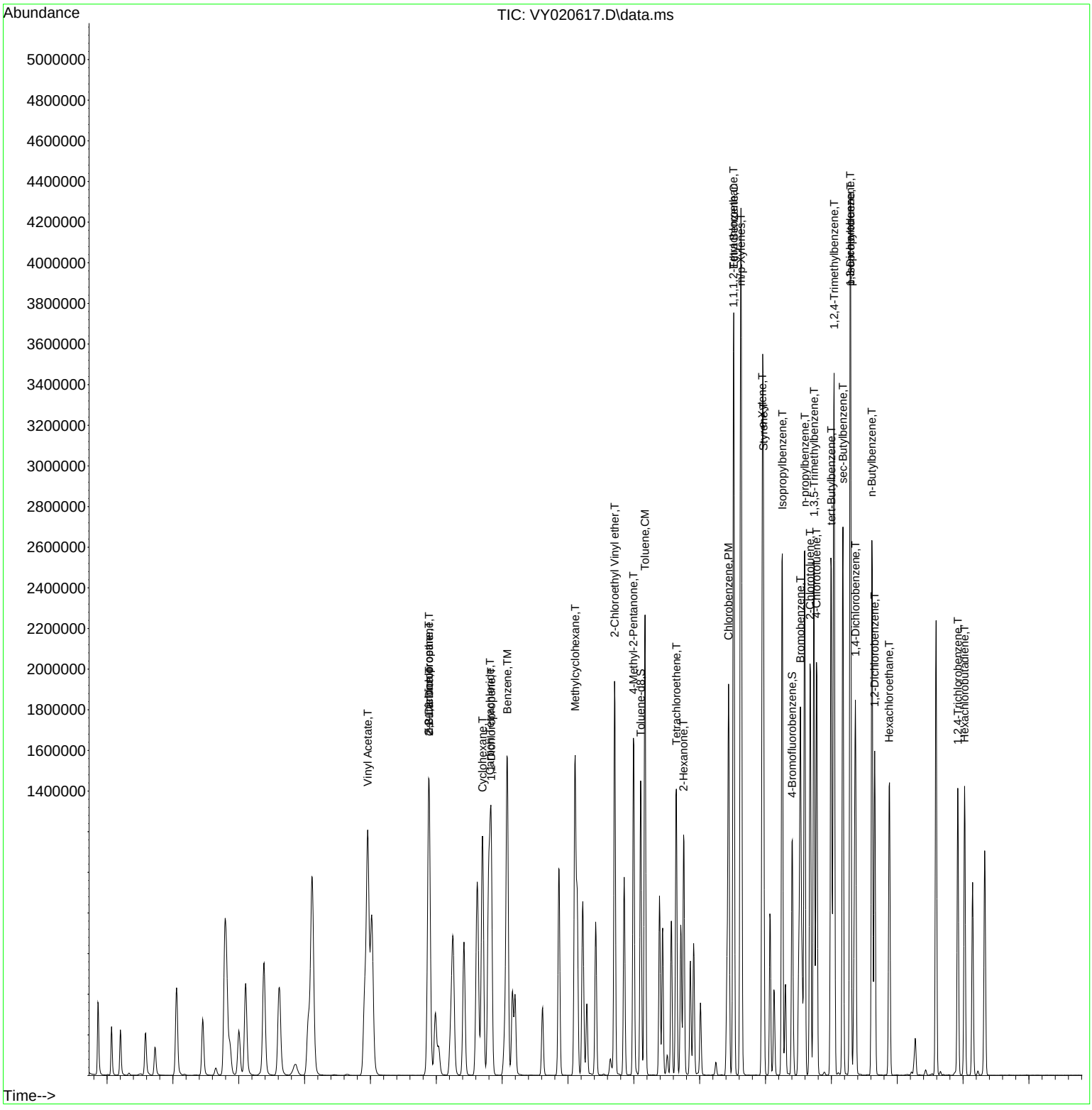
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	167036	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	257526	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	219786	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	120870	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	10628	5.810	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.620%#			
35) Dibromofluoromethane	7.634	113	10393	5.726	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.460%#			
50) Toluene-d8	10.109	98	37211	5.858	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	11.720%#			
62) 4-Bromofluorobenzene	12.408	95	15073	6.066	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	12.140%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	11112	5.326	ug/l		100
3) Chloromethane	2.074	50	9266	5.994	ug/l		89
4) Vinyl Chloride	2.208	62	8140	5.657	ug/l		91
5) Bromomethane	2.599	94	5462	5.906	ug/l		84
6) Chloroethane	2.739	64	5039	5.667	ug/l		97
7) Trichlorofluoromethane	3.068	101	16587	5.509	ug/l		89
8) Diethyl Ether	3.464	74	5733	5.430	ug/l		98
9) 1,1,2-Trichlorotrifluo...	3.818	101	11901	5.515	ug/l		98
10) Methyl Iodide	4.007	142	11197	4.660	ug/l		98
11) Tert butyl alcohol	4.848	59	7794	12.197	ug/l	#	86
12) 1,1-Dichloroethene	3.787	96	11147	5.324	ug/l		85
13) Acrolein	3.659	56	2720	31.444	ug/l		97
14) Allyl chloride	4.385	41	19430	5.296	ug/l		98
15) Acrylonitrile	5.061	53	12057	23.869	ug/l		98
16) Acetone	3.873	43	14032	33.023	ug/l		94
17) Carbon Disulfide	4.110	76	35780	5.250	ug/l		97
18) Methyl Acetate	4.391	43	6311	5.070	ug/l		98
19) Methyl tert-butyl Ether	5.122	73	25765	4.768	ug/l		93
20) Methylene Chloride	4.616	84	12792	5.624	ug/l		97
21) trans-1,2-Dichloroethene	5.116	96	11813	5.030	ug/l		93
22) Diisopropyl ether	6.019	45	37011	4.970	ug/l	#	88
23) Vinyl Acetate	5.964	43	98112	23.261	ug/l		98
24) 1,1-Dichloroethane	5.915	63	22261	5.102	ug/l		96
25) 2-Butanone	6.897	43	19017	27.972	ug/l		94
26) 2,2-Dichloropropane	6.878	77	24236	5.876	ug/l		93
27) cis-1,2-Dichloroethene	6.890	96	13806	5.109	ug/l		93
28) Bromochloromethane	7.244	49	7129	4.844	ug/l		96
29) Tetrahydrofuran	7.268	42	9729	22.669	ug/l		97
30) Chloroform	7.421	83	34563	2.901	ug/l		98
31) Cyclohexane	7.707	56	24108	5.779	ug/l	#	85
32) 1,1,1-Trichloroethane	7.622	97	20368	5.082	ug/l		99
36) 1,1-Dichloropropene	7.835	75	17712	5.352	ug/l		98
37) Ethyl Acetate	6.988	43	7613	4.890	ug/l		96
38) Carbon Tetrachloride	7.817	117	18792	5.132	ug/l		96
39) Methylcyclohexane	9.110	83	22745	5.273	ug/l		94
40) Benzene	8.079	78	49636	5.117	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.232	41	3782m	4.595 ug/l		
42) 1,2-Dichloroethane	8.159	62	12917	5.020 ug/l		95
43) Isopropyl Acetate	8.195	43	13361	4.533 ug/l	#	86
44) Trichloroethene	8.866	130	12384	5.195 ug/l		88
45) 1,2-Dichloropropane	9.146	63	11378	5.019 ug/l		96
46) Dibromomethane	9.231	93	5965	4.978 ug/l		99
47) Bromodichloromethane	9.420	83	16115	4.979 ug/l		98
48) Methyl methacrylate	9.219	41	6545	4.671 ug/l		93
49) 1,4-Dioxane	9.225	88	1268	92.278 ug/l	#	82
51) 4-Methyl-2-Pentanone	10.000	43	38280	24.607 ug/l		98
52) Toluene	10.170	92	30294	5.025 ug/l		98
53) t-1,3-Dichloropropene	10.396	75	13747	4.558 ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	17025	4.764 ug/l		95
55) 1,1,2-Trichloroethane	10.573	97	7935	5.009 ug/l		93
56) Ethyl methacrylate	10.439	69	10000	4.351 ug/l		98
57) 1,3-Dichloropropane	10.719	76	13754	4.870 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	23872	24.686 ug/l		100
59) 2-Hexanone	10.762	43	23164	23.192 ug/l		99
60) Dibromochloromethane	10.914	129	10207	4.818 ug/l		98
61) 1,2-Dibromoethane	11.018	107	7143	4.847 ug/l		100
64) Tetrachloroethene	10.646	164	11707	5.663 ug/l		96
65) Chlorobenzene	11.445	112	31674	5.154 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	10526	5.009 ug/l		94
67) Ethyl Benzene	11.518	91	57861	5.103 ug/l		100
68) m/p-Xylenes	11.627	106	43257	10.262 ug/l		100
69) o-Xylene	11.957	106	19639	4.993 ug/l		99
70) Styrene	11.969	104	32495	4.945 ug/l		99
71) Bromoform	12.133	173	5762	4.877 ug/l	#	98
73) Isopropylbenzene	12.255	105	53196	5.043 ug/l		100
74) N-amyl acetate	12.072	43	10480	4.245 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	8331	4.866 ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	6432m	5.167 ug/l		
77) Bromobenzene	12.536	156	11774	5.124 ug/l		98
78) n-propylbenzene	12.597	91	64140	5.047 ug/l		97
79) 2-Chlorotoluene	12.682	91	36508	5.106 ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	43711	5.107 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	2558	4.276 ug/l		90
82) 4-Chlorotoluene	12.780	91	39447	5.318 ug/l		98
83) tert-Butylbenzene	12.999	119	38538	4.972 ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	41754	4.974 ug/l		97
85) sec-Butylbenzene	13.176	105	58088	5.154 ug/l		100
86) p-Isopropyltoluene	13.292	119	46384	4.992 ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	23757	5.238 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	24276	5.404 ug/l		94
89) n-Butylbenzene	13.621	91	43817	4.976 ug/l		99
90) Hexachloroethane	13.883	117	9361	5.084 ug/l		100
91) 1,2-Dichlorobenzene	13.664	146	20478	5.211 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1404	5.051 ug/l		89
93) 1,2,4-Trichlorobenzene	14.926	180	11648	4.900 ug/l		98
94) Hexachlorobutadiene	15.029	225	8059	5.186 ug/l		99
95) Naphthalene	15.151	128	17365	4.261 ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	9821	4.890 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
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 :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

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

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

ICAL Form

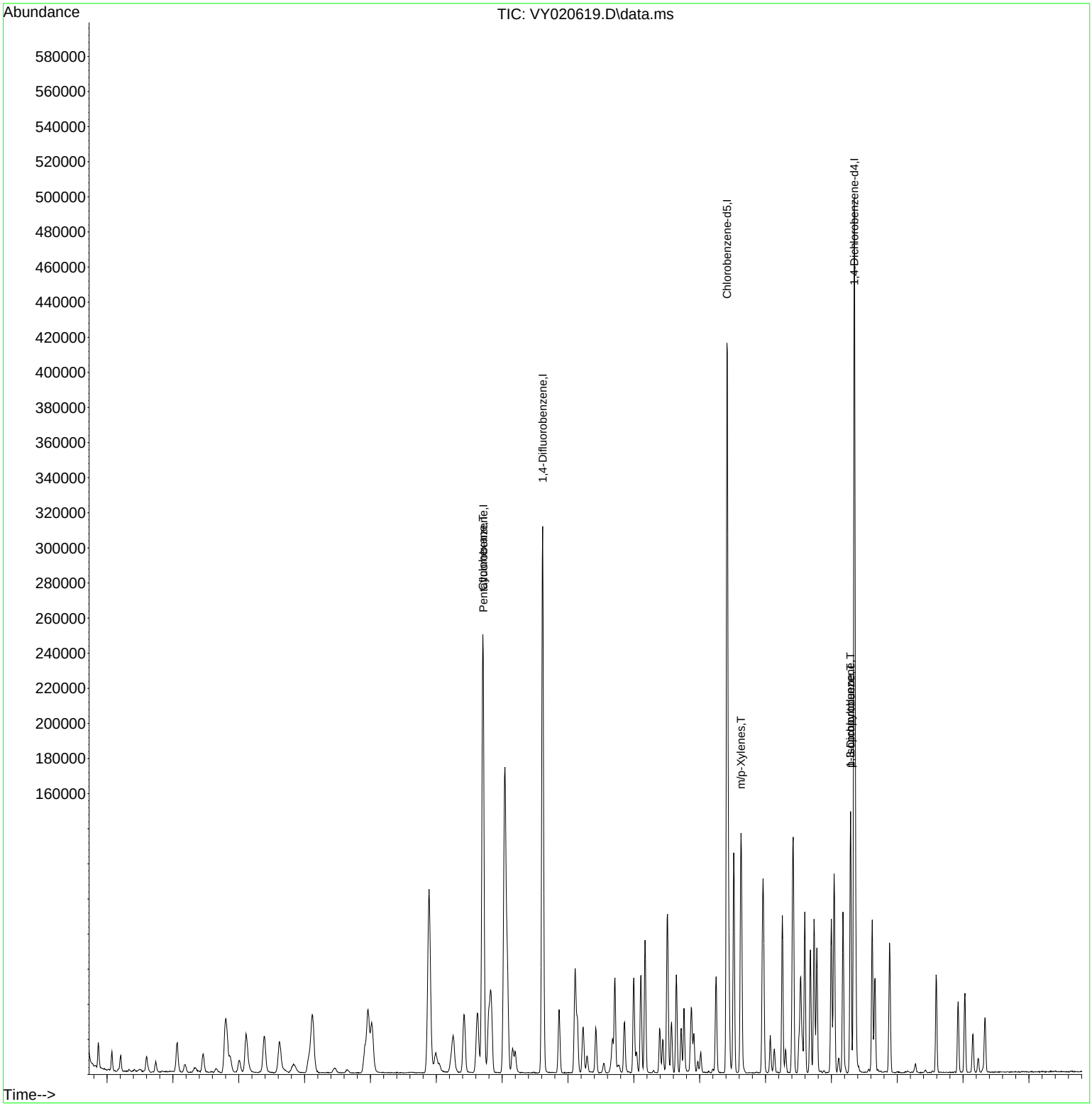
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	173629	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	261652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	229207	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	127757	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	79812	41.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 83.940%			
35) Dibromofluoromethane	7.634	113	82508	44.743	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 89.480%			
50) Toluene-d8	10.103	98	297999	46.169	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.340%			
62) 4-Bromofluorobenzene	12.408	95	108522	42.982	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 85.960%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103417	47.686	ug/l	96
3) Chloromethane	2.068	50	72696	45.240	ug/l	96
4) Vinyl Chloride	2.202	62	72204	48.277	ug/l	100
5) Bromomethane	2.599	94	46536	48.405	ug/l	95
6) Chloroethane	2.733	64	44843	48.520	ug/l	95
7) Trichlorofluoromethane	3.062	101	147334	47.080	ug/l	100
8) Diethyl Ether	3.458	74	48299	44.007	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	111288	49.613	ug/l	100
10) Methyl Iodide	4.007	142	125272	50.161	ug/l	98
11) Tert butyl alcohol	4.854	59	35896	166.993	ug/l	99
12) 1,1-Dichloroethene	3.787	96	109207	50.176	ug/l	99
13) Acrolein	3.653	56	13043	145.056	ug/l	95
14) Allyl chloride	4.385	41	194403	50.975	ug/l	99
15) Acrylonitrile	5.055	53	111135	211.661	ug/l	99
16) Acetone	3.867	43	128884	343.570	ug/l	95
17) Carbon Disulfide	4.110	76	357372	50.444	ug/l	99
18) Methyl Acetate	4.385	43	56965	44.029	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	254917	45.379	ug/l	98
20) Methylene Chloride	4.616	84	110314	46.658	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	118791	48.656	ug/l	96
22) Diisopropyl ether	6.019	45	373306	48.223	ug/l	96
23) Vinyl Acetate	5.964	43	993429	226.581	ug/l	99
24) 1,1-Dichloroethane	5.915	63	221322	48.802	ug/l	100
25) 2-Butanone	6.897	43	162705	230.232	ug/l	97
26) 2,2-Dichloropropane	6.884	77	199229	46.471	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	135394	48.202	ug/l	100
28) Bromochloromethane	7.244	49	78629	51.402	ug/l	99
29) Tetrahydrofuran	7.262	42	90590	203.060	ug/l	98
30) Chloroform	7.421	83	227671	49.995	ug/l	97
31) Cyclohexane	7.701	56	199127	45.921	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	203477	48.837	ug/l	99
36) 1,1-Dichloropropene	7.835	75	166171	49.418	ug/l	99
37) Ethyl Acetate	6.982	43	67205	42.490	ug/l	99
38) Carbon Tetrachloride	7.817	117	185268	49.800	ug/l	99
39) Methylcyclohexane	9.110	83	214365	48.913	ug/l	98
40) Benzene	8.079	78	486468	49.357	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.220	41	39828	47.631 ug/l #	86
42) 1,2-Dichloroethane	8.159	62	122520	46.869 ug/l	99
43) Isopropyl Acetate	8.195	43	130339	43.528 ug/l #	88
44) Trichloroethene	8.866	130	120014	49.555 ug/l	98
45) 1,2-Dichloropropane	9.140	63	112171	48.695 ug/l	98
46) Dibromomethane	9.232	93	56323	46.265 ug/l	99
47) Bromodichloromethane	9.421	83	158529	48.208 ug/l	100
48) Methyl methacrylate	9.219	41	63016	44.268 ug/l	99
49) 1,4-Dioxane	9.232	88	11394	816.119 ug/l	97
51) 4-Methyl-2-Pentanone	10.000	43	331396	209.670 ug/l	100
52) Toluene	10.170	92	300584	49.073 ug/l	99
53) t-1,3-Dichloropropene	10.390	75	146498	47.810 ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	178584	49.184 ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	73962	45.952 ug/l	99
56) Ethyl methacrylate	10.439	69	108638	46.525 ug/l	98
57) 1,3-Dichloropropane	10.713	76	134515	46.882 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	239347	243.610 ug/l	100
59) 2-Hexanone	10.756	43	240324	236.822 ug/l	100
60) Dibromochloromethane	10.908	129	101431	47.121 ug/l	97
61) 1,2-Dibromoethane	11.018	107	68798	45.952 ug/l	99
64) Tetrachloroethene	10.646	164	106990	49.626 ug/l	94
65) Chlorobenzene	11.438	112	313945	48.986 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	107564	49.083 ug/l	99
67) Ethyl Benzene	11.518	91	588990	49.815 ug/l	99
68) m/p-Xylenes	11.627	106	437108	99.430 ug/l	100
69) o-Xylene	11.957	106	203316	49.568 ug/l	98
70) Styrene	11.969	104	341470	49.827 ug/l	99
71) Bromoform	12.133	173	56002	45.451 ug/l #	100
73) Isopropylbenzene	12.255	105	556414	49.908 ug/l	100
74) N-amyl acetate	12.072	43	118269	45.328 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	81117	44.824 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	60828m	45.834 ug/l	
77) Bromobenzene	12.536	156	117217	48.267 ug/l	99
78) n-propylbenzene	12.597	91	668577	49.775 ug/l	100
79) 2-Chlorotoluene	12.682	91	375047	49.628 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	452266	49.995 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	28650	45.313 ug/l	99
82) 4-Chlorotoluene	12.780	91	383617	48.929 ug/l	100
83) tert-Butylbenzene	12.999	119	405285	49.469 ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	442582	49.877 ug/l	100
85) sec-Butylbenzene	13.176	105	589060	49.451 ug/l	100
86) p-Isopropyltoluene	13.292	119	492898	50.187 ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	233241	48.653 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	227374	47.888 ug/l	100
89) n-Butylbenzene	13.621	91	472143	50.725 ug/l	99
90) Hexachloroethane	13.883	117	96035	49.342 ug/l	100
91) 1,2-Dichlorobenzene	13.658	146	200049	48.162 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	12169	41.418 ug/l	97
93) 1,2,4-Trichlorobenzene	14.926	180	124084	49.388 ug/l	99
94) Hexachlorobutadiene	15.029	225	84375	51.372 ug/l	99
95) Naphthalene	15.145	128	199622	46.344 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	103298	48.662 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

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

ICAL Form

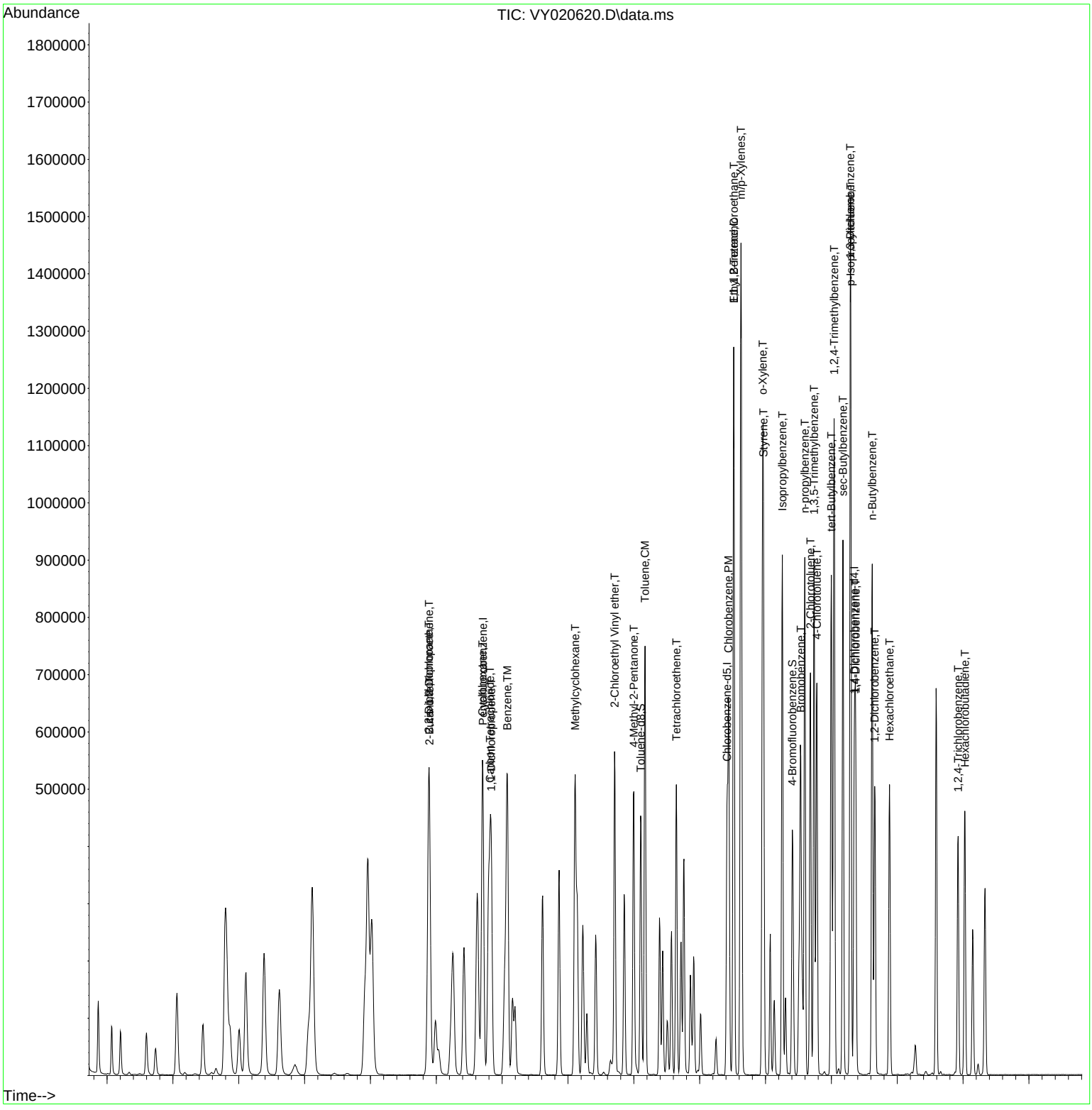
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.625	0.596	4.6	99	0.00
3	P	Chloromethane	0.463	0.419	9.5	100	0.00
4	C	Vinyl Chloride	0.431	0.416	3.5#	115	0.00
5	T	Bromomethane	0.277	0.268	3.2	120	0.00
6	T	Chloroethane	0.266	0.258	3.0	125	0.00
7	T	Trichlorofluoromethane	0.901	0.849	5.8	110	0.00
8	T	Diethyl Ether	0.316	0.278	12.0	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.646	0.641	0.8	109	0.00
10	T	Methyl Iodide	0.719	0.721	-0.3	107	0.00
11	T	Tert butyl alcohol	0.071	0.041	42.3#	84	0.00
12	CM	1,1-Dichloroethene	0.627	0.629	-0.3#	109	0.00
13	T	Acrolein	0.026	0.015	42.3#	89	0.00
14	T	Allyl chloride	1.098	1.120	-2.0	112	0.00
15	T	Acrylonitrile	0.151	0.128	15.2	85	0.00
16	T	Acetone	0.125	0.148	-18.4	155#	0.00
17	T	Carbon Disulfide	2.040	2.058	-0.9	109	0.00
18	T	Methyl Acetate	0.373	0.328	12.1	96	0.00
19	T	Methyl tert-butyl Ether	1.618	1.468	9.3	91	0.00
20	T	Methylene Chloride	0.681	0.635	6.8	106	0.00
21	T	trans-1,2-Dichloroethene	0.703	0.684	2.7	99	0.00
22	T	Diisopropyl ether	2.229	2.150	3.5	96	0.00
23	T	Vinyl Acetate	1.263	1.144	9.4	89	0.00
24	P	1,1-Dichloroethane	1.306	1.275	2.4	99	0.00
25	T	2-Butanone	0.204	0.187	8.3	97	0.00
26	T	2,2-Dichloropropane	1.235	1.147	7.1	99	0.00
27	T	cis-1,2-Dichloroethene	0.809	0.780	3.6	98	0.00
28	T	Bromochloromethane	0.441	0.453	-2.7	94	0.00
29	T	Tetrahydrofuran	0.128	0.104	18.8	81	0.00
30	C	Chloroform	1.528	1.311	14.2#	98	0.00
31	T	Cyclohexane	1.249	1.147	8.2	98	0.00
32	T	1,1,1-Trichloroethane	1.200	1.172	2.3	100	0.00
33	S	1,2-Dichloroethane-d4	0.548	0.460	16.1	83	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.352	0.315	10.5	87	0.00
36	T	1,1-Dichloropropene	0.643	0.635	1.2	99	0.00
37	T	Ethyl Acetate	0.302	0.257	14.9	86	0.00
38	T	Carbon Tetrachloride	0.711	0.708	0.4	101	0.00
39	T	Methylcyclohexane	0.837	0.819	2.2	98	0.00
40	TM	Benzene	1.883	1.859	1.3	99	0.00
41	T	Methacrylonitrile	0.160	0.152	5.0	98	0.00
42	TM	1,2-Dichloroethane	0.500	0.468	6.4	93	0.00
43	T	Isopropyl Acetate	0.572	0.498	12.9	85	0.00
44	TM	Trichloroethene	0.463	0.459	0.9	100	0.00
45	C	1,2-Dichloropropane	0.440	0.429	2.5#	98	0.00
46	T	Dibromomethane	0.233	0.215	7.7	93	0.00
47	T	Bromodichloromethane	0.628	0.606	3.5	95	0.00
48	T	Methyl methacrylate	0.272	0.241	11.4	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	0.003	0.002	33.3#	81	0.00
50	S	Toluene-d8	1.233	1.139	7.6	89	0.00
51	T	4-Methyl-2-Pentanone	0.302	0.253	16.2	84	0.00
52	CM	Toluene	1.170	1.149	1.8#	98	0.00
53	T	t-1,3-Dichloropropene	0.586	0.560	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	0.694	0.683	1.6	96	0.00
55	T	1,1,2-Trichloroethane	0.308	0.283	8.1	93	0.00
56	T	Ethyl methacrylate	0.446	0.415	7.0	90	0.00
57	T	1,3-Dichloropropane	0.548	0.514	6.2	92	0.00
58	T	2-Chloroethyl Vinyl ether	0.188	0.183	2.7	106	0.00
59	T	2-Hexanone	0.194	0.184	5.2	92	0.00
60	T	Dibromochloromethane	0.411	0.388	5.6	92	0.00
61	T	1,2-Dibromoethane	0.286	0.263	8.0	91	0.00
62	S	4-Bromofluorobenzene	0.482	0.415	13.9	86	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.470	0.467	0.6	101	0.00
65	PM	Chlorobenzene	1.398	1.370	2.0	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.478	0.469	1.9	97	0.00
67	C	Ethyl Benzene	2.579	2.570	0.3#	98	0.00
68	T	m/p-Xylenes	0.959	0.954	0.5	98	0.00
69	T	o-Xylene	0.895	0.887	0.9	97	0.00
70	T	Styrene	1.495	1.490	0.3	97	0.00
71	P	Bromoform	0.269	0.244	9.3	89	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	4.363	4.355	0.2	98	0.00
74	T	N-amyl acetate	1.021	0.926	9.3	85	0.00
75	P	1,1,2,2-Tetrachloroethane	0.708	0.635	10.3	88	0.00
76	T	1,2,3-Trichloropropane	0.519	0.476	8.3	90	0.00
77	T	Bromobenzene	0.950	0.917	3.5	95	0.00
78	T	n-propylbenzene	5.257	5.233	0.5	97	0.00
79	T	2-Chlorotoluene	2.958	2.936	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	3.540	3.540	0.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.247	0.224	9.3	86	0.00
82	T	4-Chlorotoluene	3.068	3.003	2.1	96	0.00
83	T	tert-Butylbenzene	3.206	3.172	1.1	97	0.00
84	T	1,2,4-Trimethylbenzene	3.473	3.464	0.3	96	0.00
85	T	sec-Butylbenzene	4.662	4.611	1.1	97	0.00
86	T	p-Isopropyltoluene	3.844	3.858	-0.4	97	0.00
87	T	1,3-Dichlorobenzene	1.876	1.826	2.7	96	0.00
88	T	1,4-Dichlorobenzene	1.858	1.780	4.2	95	0.00
89	T	n-Butylbenzene	3.643	3.696	-1.5	97	0.00
90	T	Hexachloroethane	0.762	0.752	1.3	97	0.00
91	T	1,2-Dichlorobenzene	1.626	1.566	3.7	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.115	0.095	17.4	83	0.00
93	T	1,2,4-Trichlorobenzene	0.983	0.971	1.2	94	0.00
94	T	Hexachlorobutadiene	0.643	0.660	-2.6	99	0.00
95	T	Naphthalene	1.686	1.563	7.3	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	0.831	0.809	2.6	92	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\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	47.686	4.6	99	0.00
3	P	Chloromethane	50.000	45.240	9.5	100	0.00
4	C	Vinyl Chloride	50.000	48.277	3.4#	115	0.00
5	T	Bromomethane	50.000	48.405	3.2	120	0.00
6	T	Chloroethane	50.000	48.520	3.0	125	0.00
7	T	Trichlorofluoromethane	50.000	47.080	5.8	110	0.00
8	T	Diethyl Ether	50.000	44.007	12.0	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.613	0.8	109	0.00
10	T	Methyl Iodide	50.000	50.161	-0.3	107	0.00
11	T	Tert butyl alcohol	250.000	166.993	33.2#	84	0.00
12	CM	1,1-Dichloroethene	50.000	50.176	-0.4#	109	0.00
13	T	Acrolein	250.000	145.056	42.0#	89	0.00
14	T	Allyl chloride	50.000	50.975	-2.0	112	0.00
15	T	Acrylonitrile	250.000	211.661	15.3	85	0.00
16	T	Acetone	250.000	343.570	-37.4#	155	0.00
17	T	Carbon Disulfide	50.000	50.444	-0.9	109	0.00
18	T	Methyl Acetate	50.000	44.029	11.9	96	0.00
19	T	Methyl tert-butyl Ether	50.000	45.379	9.2	91	0.00
20	T	Methylene Chloride	50.000	46.658	6.7	106	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.656	2.7	99	0.00
22	T	Diisopropyl ether	50.000	48.223	3.6	96	0.00
23	T	Vinyl Acetate	250.000	226.581	9.4	89	0.00
24	P	1,1-Dichloroethane	50.000	48.802	2.4	99	0.00
25	T	2-Butanone	250.000	230.232	7.9	97	0.00
26	T	2,2-Dichloropropane	50.000	46.471	7.1	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.202	3.6	98	0.00
28	T	Bromochloromethane	50.000	51.402	-2.8	94	0.00
29	T	Tetrahydrofuran	250.000	203.060	18.8	81	0.00
30	C	Chloroform	50.000	49.995	0.0#	98	0.00
31	T	Cyclohexane	50.000	45.921	8.2	98	0.00
32	T	1,1,1-Trichloroethane	50.000	48.837	2.3	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	41.971	16.1	83	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	44.743	10.5	87	0.00
36	T	1,1-Dichloropropene	50.000	49.418	1.2	99	0.00
37	T	Ethyl Acetate	50.000	42.490	15.0	86	0.00
38	T	Carbon Tetrachloride	50.000	49.800	0.4	101	0.00
39	T	Methylcyclohexane	50.000	48.913	2.2	98	0.00
40	TM	Benzene	50.000	49.357	1.3	99	0.00
41	T	Methacrylonitrile	50.000	47.631	4.7	98	0.00
42	TM	1,2-Dichloroethane	50.000	46.869	6.3	93	0.00
43	T	Isopropyl Acetate	50.000	43.528	12.9	85	0.00
44	TM	Trichloroethene	50.000	49.555	0.9	100	0.00
45	C	1,2-Dichloropropane	50.000	48.695	2.6#	98	0.00
46	T	Dibromomethane	50.000	46.265	7.5	93	0.00
47	T	Bromodichloromethane	50.000	48.208	3.6	95	0.00
48	T	Methyl methacrylate	50.000	44.268	11.5	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	816.119	18.4	81	0.00
50	S	Toluene-d8	50.000	46.169	7.7	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	209.670	16.1	84	0.00
52	CM	Toluene	50.000	49.073	1.9#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	47.810	4.4	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.184	1.6	96	0.00
55	T	1,1,2-Trichloroethane	50.000	45.952	8.1	93	0.00
56	T	Ethyl methacrylate	50.000	46.525	7.0	90	0.00
57	T	1,3-Dichloropropane	50.000	46.882	6.2	92	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.610	2.6	106	0.00
59	T	2-Hexanone	250.000	236.822	5.3	92	0.00
60	T	Dibromochloromethane	50.000	47.121	5.8	92	0.00
61	T	1,2-Dibromoethane	50.000	45.952	8.1	91	0.00
62	S	4-Bromofluorobenzene	50.000	42.982	14.0	86	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	49.626	0.7	101	0.00
65	PM	Chlorobenzene	50.000	48.986	2.0	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.083	1.8	97	0.00
67	C	Ethyl Benzene	50.000	49.815	0.4#	98	0.00
68	T	m/p-Xylenes	100.000	99.430	0.6	98	0.00
69	T	o-Xylene	50.000	49.568	0.9	97	0.00
70	T	Styrene	50.000	49.827	0.3	97	0.00
71	P	Bromoform	50.000	45.451	9.1	89	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	49.908	0.2	98	0.00
74	T	N-amyl acetate	50.000	45.328	9.3	85	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.824	10.4	88	0.00
76	T	1,2,3-Trichloropropane	50.000	45.834	8.3	90	0.00
77	T	Bromobenzene	50.000	48.267	3.5	95	0.00
78	T	n-propylbenzene	50.000	49.775	0.5	97	0.00
79	T	2-Chlorotoluene	50.000	49.628	0.7	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.995	0.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.313	9.4	86	0.00
82	T	4-Chlorotoluene	50.000	48.929	2.1	96	0.00
83	T	tert-Butylbenzene	50.000	49.469	1.1	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.877	0.2	96	0.00
85	T	sec-Butylbenzene	50.000	49.451	1.1	97	0.00
86	T	p-Isopropyltoluene	50.000	50.187	-0.4	97	0.00
87	T	1,3-Dichlorobenzene	50.000	48.653	2.7	96	0.00
88	T	1,4-Dichlorobenzene	50.000	47.888	4.2	95	0.00
89	T	n-Butylbenzene	50.000	50.725	-1.5	97	0.00
90	T	Hexachloroethane	50.000	49.342	1.3	97	0.00
91	T	1,2-Dichlorobenzene	50.000	48.162	3.7	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	41.418	17.2	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.388	1.2	94	0.00
94	T	Hexachlorobutadiene	50.000	51.372	-2.7	99	0.00
95	T	Naphthalene	50.000	46.344	7.3	87	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.662	2.7	92	0.00

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

Raw Data: **VY020624.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.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.625	0.667		6.72	20
Chloromethane	0.463	0.541	0.1	16.85	20
Vinyl Chloride	0.431	0.514		19.26	20
Bromomethane	0.277	0.317		14.44	20
Chloroethane	0.266	0.326		22.56	20
Trichlorofluoromethane	0.901	0.981		8.88	20
1,1,2-Trichlorotrifluoroethane	0.646	0.725		12.23	20
1,1-Dichloroethene	0.627	0.702		11.96	20
Acetone	0.125	0.114		-8.8	20
Carbon Disulfide	2.040	2.319		13.68	20
Methyl tert-butyl Ether	1.618	1.763		8.96	20
Methyl Acetate	0.373	0.405		8.58	20
Methylene Chloride	0.681	0.726		6.61	20
trans-1,2-Dichloroethene	0.703	0.781		11.1	20
1,1-Dichloroethane	1.306	1.451	0.1	11.1	20
Cyclohexane	1.249	1.315		5.28	20
2-Butanone	0.204	0.201		-1.47	20
Carbon Tetrachloride	0.711	0.776		9.14	20
cis-1,2-Dichloroethene	0.809	0.885		9.39	20
Bromochloromethane	0.441	0.526		19.27	20
Chloroform	1.528	1.488		-2.62	20
1,1,1-Trichloroethane	1.200	1.333		11.08	20
Methylcyclohexane	0.837	0.899		7.41	20
Benzene	1.883	2.047		8.71	20
1,2-Dichloroethane	0.500	0.534		6.8	20
Trichloroethene	0.463	0.501		8.21	20
1,2-Dichloropropane	0.440	0.476		8.18	20
Bromodichloromethane	0.628	0.679		8.12	20
4-Methyl-2-Pentanone	0.302	0.306		1.33	20
Toluene	1.170	1.284		9.74	20
t-1,3-Dichloropropene	0.586	0.646		10.24	20
cis-1,3-Dichloropropene	0.694	0.767		10.52	20
1,1,2-Trichloroethane	0.308	0.324		5.2	20
2-Hexanone	0.194	0.204		5.16	20
Dibromochloromethane	0.411	0.445		8.27	20
1,2-Dibromoethane	0.286	0.306		6.99	20
Tetrachloroethene	0.470	0.514		9.36	20
Chlorobenzene	1.398	1.574	0.3	12.59	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: **VY020624.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.: P5299 SAS No.: P5299 SDG No.: P5299

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.579	2.891		12.1	20
m/p-Xylenes	0.959	1.067		11.26	20
o-Xylene	0.895	1.001		11.84	20
Styrene	1.495	1.676		12.11	20
Bromoform	0.269	0.293	0.1	8.92	20
Isopropylbenzene	4.363	4.981		14.16	20
1,1,2,2-Tetrachloroethane	0.708	0.769	0.3	8.62	20
1,3-Dichlorobenzene	1.876	2.057		9.65	20
1,4-Dichlorobenzene	1.858	2.024		8.93	20
1,2-Dichlorobenzene	1.626	1.783		9.66	20
1,2-Dibromo-3-Chloropropane	0.115	0.119		3.48	20
1,2,4-Trichlorobenzene	0.983	1.120		13.94	20
1,2,3-Trichlorobenzene	0.831	0.948		14.08	20
1,2-Dichloroethane-d4	0.548	0.514		-6.2	20
Dibromofluoromethane	0.352	0.333		-5.4	20
Toluene-d8	1.233	1.198		-2.84	20
4-Bromofluorobenzene	0.482	0.430		-10.79	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	168319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	264221	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	226779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	124266	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	86558	46.954	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.900%			
35) Dibromofluoromethane	7.640	113	87855	47.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.360%			
50) Toluene-d8	10.109	98	316621	48.577	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.160%			
62) 4-Bromofluorobenzene	12.408	95	113536	44.531	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	112318	53.424	ug/l	97
3) Chloromethane	2.074	50	91060	58.456	ug/l	100
4) Vinyl Chloride	2.208	62	86513	59.670	ug/l	98
5) Bromomethane	2.605	94	53404	57.301	ug/l	98
6) Chloroethane	2.739	64	54831	61.198	ug/l	96
7) Trichlorofluoromethane	3.068	101	165137	54.433	ug/l	98
8) Diethyl Ether	3.458	74	55435	52.102	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	122111	56.155	ug/l	99
10) Methyl Iodide	4.013	142	142447	58.838	ug/l	98
11) Tert butyl alcohol	4.872	59	42696	215.219	ug/l	99
12) 1,1-Dichloroethene	3.793	96	118244	56.042	ug/l	99
13) Acrolein	3.659	56	18414	211.249	ug/l	99
14) Allyl chloride	4.391	41	211903	57.316	ug/l	99
15) Acrylonitrile	5.068	53	133405	262.091	ug/l	99
16) Acetone	3.873	43	96362	263.467	ug/l	99
17) Carbon Disulfide	4.110	76	390399	56.844	ug/l	100
18) Methyl Acetate	4.391	43	68126	54.317	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	296740	54.490	ug/l	99
20) Methylene Chloride	4.622	84	122238	53.332	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	131418	55.526	ug/l	96
22) Diisopropyl ether	6.025	45	419889	55.951	ug/l	99
23) Vinyl Acetate	5.964	43	1169883	275.244	ug/l	100
24) 1,1-Dichloroethane	5.921	63	244246	55.556	ug/l	98
25) 2-Butanone	6.896	43	169240	247.034	ug/l	99
26) 2,2-Dichloropropane	6.890	77	219802	52.887	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	149031	54.730	ug/l	100
28) Bromochloromethane	7.250	49	88572	59.728	ug/l	99
29) Tetrahydrofuran	7.268	42	113384	262.171	ug/l	100
30) Chloroform	7.427	83	250397	57.517	ug/l	98
31) Cyclohexane	7.707	56	221311	52.647	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	224446	55.569	ug/l	100
36) 1,1-Dichloropropene	7.841	75	182759	53.823	ug/l	99
37) Ethyl Acetate	6.988	43	80664	50.503	ug/l	99
38) Carbon Tetrachloride	7.823	117	204938	54.551	ug/l	97
39) Methylcyclohexane	9.109	83	237543	53.675	ug/l	98
40) Benzene	8.085	78	540984	54.354	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	44038	52.153	ug/l	#	91
42) 1,2-Dichloroethane	8.158	62	141108	53.455	ug/l		100
43) Isopropyl Acetate	8.195	43	159807	52.850	ug/l		99
44) Trichloroethene	8.866	130	132352	54.118	ug/l		98
45) 1,2-Dichloropropane	9.146	63	125765	54.066	ug/l		96
46) Dibromomethane	9.231	93	64580	52.532	ug/l		99
47) Bromodichloromethane	9.426	83	179372	54.016	ug/l		99
48) Methyl methacrylate	9.219	41	77215	53.715	ug/l		99
49) 1,4-Dioxane	9.231	88	14022	994.589	ug/l		92
51) 4-Methyl-2-Pentanone	10.000	43	404285	253.299	ug/l		100
52) Toluene	10.170	92	339344	54.863	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	170796	55.198	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	202649	55.269	ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	85539	52.628	ug/l		98
56) Ethyl methacrylate	10.438	69	129721	55.014	ug/l		98
57) 1,3-Dichloropropane	10.719	76	156953	54.170	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	256343	258.372	ug/l		99
59) 2-Hexanone	10.762	43	269419	262.911	ug/l		99
60) Dibromochloromethane	10.914	129	117491	54.051	ug/l		99
61) 1,2-Dibromoethane	11.018	107	80970	53.556	ug/l		99
64) Tetrachloroethene	10.646	164	116607	54.665	ug/l		97
65) Chlorobenzene	11.444	112	357020	56.304	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	121601	56.082	ug/l		99
67) Ethyl Benzene	11.518	91	655644	56.046	ug/l		98
68) m/p-Xylenes	11.627	106	483989	111.272	ug/l		100
69) o-Xylene	11.957	106	227073	55.953	ug/l		98
70) Styrene	11.969	104	380019	56.046	ug/l		99
71) Bromoform	12.133	173	66448	54.507	ug/l	#	99
73) Isopropylbenzene	12.255	105	619007	57.082	ug/l		100
74) N-amyl acetate	12.072	43	142658	56.212	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	95566	54.292	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	74171m	57.458	ug/l		
77) Bromobenzene	12.536	156	129556	54.846	ug/l		98
78) n-propylbenzene	12.597	91	736385	56.363	ug/l		100
79) 2-Chlorotoluene	12.682	91	413534	56.258	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	495961	56.365	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	35174	57.195	ug/l		99
82) 4-Chlorotoluene	12.780	91	426293	55.900	ug/l		99
83) tert-Butylbenzene	12.999	119	443445	55.648	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	486708	56.391	ug/l		98
85) sec-Butylbenzene	13.176	105	646469	55.795	ug/l		100
86) p-Isopropyltoluene	13.292	119	537317	56.247	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	255653	54.826	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	251527	54.463	ug/l		99
89) n-Butylbenzene	13.621	91	513421	56.710	ug/l		99
90) Hexachloroethane	13.883	117	105978	55.981	ug/l		100
91) 1,2-Dichlorobenzene	13.664	146	221550	54.837	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	14761	51.651	ug/l		97
93) 1,2,4-Trichlorobenzene	14.926	180	139170	56.949	ug/l		99
94) Hexachlorobutadiene	15.029	225	91388	57.205	ug/l		99
95) Naphthalene	15.151	128	241249	57.582	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	117769	57.038	ug/l		100

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

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

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

Sample Results: **VY020624.D**

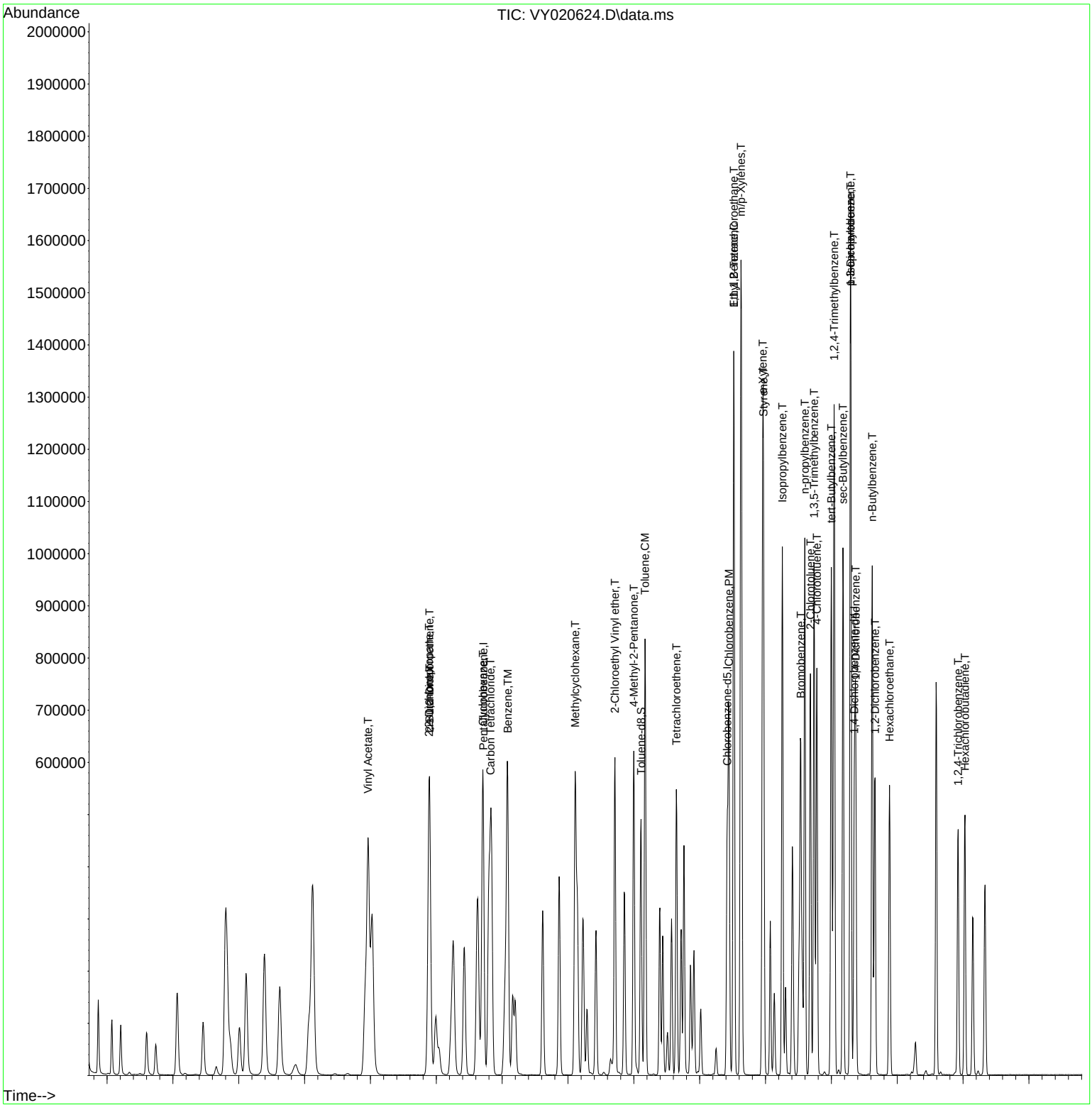
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	99	0.00
2	T	Dichlorodifluoromethane	0.625	0.667	-6.7	107	0.00
3	P	Chloromethane	0.463	0.541	-16.8	126	0.00
4	C	Vinyl Chloride	0.431	0.514	-19.3#	138	0.00
5	T	Bromomethane	0.277	0.317	-14.4	138	0.00
6	T	Chloroethane	0.266	0.326	-22.6	153#	0.00
7	T	Trichlorofluoromethane	0.901	0.981	-8.9	123	0.00
8	T	Diethyl Ether	0.316	0.329	-4.1	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.646	0.725	-12.2	120	0.00
10	T	Methyl Iodide	0.719	0.846	-17.7	122	0.00
11	T	Tert butyl alcohol	0.071	0.051	28.2#	100	0.01
12	CM	1,1-Dichloroethene	0.627	0.702	-12.0#	119	0.00
13	T	Acrolein	0.026	0.022	15.4	126	0.00
14	T	Allyl chloride	1.098	1.259	-14.7	122	0.00
15	T	Acrylonitrile	0.151	0.159	-5.3	102	0.01
16	T	Acetone	0.125	0.114	8.8	116	0.00
17	T	Carbon Disulfide	2.040	2.319	-13.7	119	0.00
18	T	Methyl Acetate	0.373	0.405	-8.6	115	0.00
19	T	Methyl tert-butyl Ether	1.618	1.763	-9.0	105	0.00
20	T	Methylene Chloride	0.681	0.726	-6.6	117	0.00
21	T	trans-1,2-Dichloroethene	0.703	0.781	-11.1	109	0.00
22	T	Diisopropyl ether	2.229	2.495	-11.9	108	0.00
23	T	Vinyl Acetate	1.263	1.390	-10.1	105	0.00
24	P	1,1-Dichloroethane	1.306	1.451	-11.1	109	0.00
25	T	2-Butanone	0.204	0.201	1.5	101	0.00
26	T	2,2-Dichloropropane	1.235	1.306	-5.7	110	0.00
27	T	cis-1,2-Dichloroethene	0.809	0.885	-9.4	108	0.00
28	T	Bromochloromethane	0.441	0.526	-19.3	106	0.00
29	T	Tetrahydrofuran	0.128	0.135	-5.5	101	0.00
30	C	Chloroform	1.528	1.488	2.6#	107	0.00
31	T	Cyclohexane	1.249	1.315	-5.3	109	0.00
32	T	1,1,1-Trichloroethane	1.200	1.333	-11.1	111	0.00
33	S	1,2-Dichloroethane-d4	0.548	0.514	6.2	90	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.352	0.333	5.4	93	0.00
36	T	1,1-Dichloropropene	0.643	0.692	-7.6	109	0.00
37	T	Ethyl Acetate	0.302	0.305	-1.0	103	0.00
38	T	Carbon Tetrachloride	0.711	0.776	-9.1	111	0.00
39	T	Methylcyclohexane	0.837	0.899	-7.4	108	0.00
40	TM	Benzene	1.883	2.047	-8.7	111	0.00
41	T	Methacrylonitrile	0.160	0.167	-4.4	109	0.00
42	TM	1,2-Dichloroethane	0.500	0.534	-6.8	107	0.00
43	T	Isopropyl Acetate	0.572	0.605	-5.8	104	0.00
44	TM	Trichloroethene	0.463	0.501	-8.2	110	0.00
45	C	1,2-Dichloropropane	0.440	0.476	-8.2#	110	0.00
46	T	Dibromomethane	0.233	0.244	-4.7	106	0.00
47	T	Bromodichloromethane	0.628	0.679	-8.1	108	0.00
48	T	Methyl methacrylate	0.272	0.292	-7.4	106	0.00

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	0.003	0.003	0.0	100	0.00
50	S	Toluene-d8	1.233	1.198	2.8	95	0.00
51	T	4-Methyl-2-Pentanone	0.302	0.306	-1.3	103	0.00
52	CM	Toluene	1.170	1.284	-9.7#	111	0.00
53	T	t-1,3-Dichloropropene	0.586	0.646	-10.2	108	0.00
54	T	cis-1,3-Dichloropropene	0.694	0.767	-10.5	109	0.00
55	T	1,1,2-Trichloroethane	0.308	0.324	-5.2	107	0.00
56	T	Ethyl methacrylate	0.446	0.491	-10.1	107	0.00
57	T	1,3-Dichloropropane	0.548	0.594	-8.4	107	0.00
58	T	2-Chloroethyl Vinyl ether	0.188	0.194	-3.2	113	0.00
59	T	2-Hexanone	0.194	0.204	-5.2	103	0.00
60	T	Dibromochloromethane	0.411	0.445	-8.3	106	0.00
61	T	1,2-Dibromoethane	0.286	0.306	-7.0	107	0.00
62	S	4-Bromofluorobenzene	0.482	0.430	10.8	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.470	0.514	-9.4	110	0.00
65	PM	Chlorobenzene	1.398	1.574	-12.6	111	0.00
66	T	1,1,1,2-Tetrachloroethane	0.478	0.536	-12.1	109	0.00
67	C	Ethyl Benzene	2.579	2.891	-12.1#	109	0.00
68	T	m/p-Xylenes	0.959	1.067	-11.3	108	0.00
69	T	o-Xylene	0.895	1.001	-11.8	108	0.00
70	T	Styrene	1.495	1.676	-12.1	108	0.00
71	P	Bromoform	0.269	0.293	-8.9	105	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	4.363	4.981	-14.2	109	0.00
74	T	N-amyl acetate	1.021	1.148	-12.4	103	0.00
75	P	1,1,2,2-Tetrachloroethane	0.708	0.769	-8.6	103	0.00
76	T	1,2,3-Trichloropropane	0.519	0.597	-15.0	109	0.00
77	T	Bromobenzene	0.950	1.043	-9.8	105	0.00
78	T	n-propylbenzene	5.257	5.926	-12.7	107	0.00
79	T	2-Chlorotoluene	2.958	3.328	-12.5	108	0.00
80	T	1,3,5-Trimethylbenzene	3.540	3.991	-12.7	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.247	0.283	-14.6	105	0.00
82	T	4-Chlorotoluene	3.068	3.430	-11.8	107	0.00
83	T	tert-Butylbenzene	3.206	3.569	-11.3	106	0.00
84	T	1,2,4-Trimethylbenzene	3.473	3.917	-12.8	106	0.00
85	T	sec-Butylbenzene	4.662	5.202	-11.6	106	0.00
86	T	p-Isopropyltoluene	3.844	4.324	-12.5	105	0.00
87	T	1,3-Dichlorobenzene	1.876	2.057	-9.6	105	0.00
88	T	1,4-Dichlorobenzene	1.858	2.024	-8.9	106	0.00
89	T	n-Butylbenzene	3.643	4.132	-13.4	105	0.00
90	T	Hexachloroethane	0.762	0.853	-11.9	107	0.00
91	T	1,2-Dichlorobenzene	1.626	1.783	-9.7	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.115	0.119	-3.5	100	0.00
93	T	1,2,4-Trichlorobenzene	0.983	1.120	-13.9	106	0.00
94	T	Hexachlorobutadiene	0.643	0.735	-14.3	107	0.00
95	T	Naphthalene	1.686	1.941	-15.1	105	0.00

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	0.831	0.948	-14.1	105	0.00

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

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	99	0.00
2	T	Dichlorodifluoromethane	50.000	53.424	-6.8	107	0.00
3	P	Chloromethane	50.000	58.456	-16.9	126	0.00
4	C	Vinyl Chloride	50.000	59.670	-19.3#	138	0.00
5	T	Bromomethane	50.000	57.301	-14.6	138	0.00
6	T	Chloroethane	50.000	61.198	-22.4	153	0.00
7	T	Trichlorofluoromethane	50.000	54.433	-8.9	123	0.00
8	T	Diethyl Ether	50.000	52.102	-4.2	113	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.155	-12.3	120	0.00
10	T	Methyl Iodide	50.000	58.838	-17.7	122	0.00
11	T	Tert butyl alcohol	250.000	215.219	13.9	100	0.01
12	CM	1,1-Dichloroethene	50.000	56.042	-12.1#	119	0.00
13	T	Acrolein	250.000	211.249	15.5	126	0.00
14	T	Allyl chloride	50.000	57.316	-14.6	122	0.00
15	T	Acrylonitrile	250.000	262.091	-4.8	102	0.01
16	T	Acetone	250.000	263.467	-5.4	116	0.00
17	T	Carbon Disulfide	50.000	56.844	-13.7	119	0.00
18	T	Methyl Acetate	50.000	54.317	-8.6	115	0.00
19	T	Methyl tert-butyl Ether	50.000	54.490	-9.0	105	0.00
20	T	Methylene Chloride	50.000	53.332	-6.7	117	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.526	-11.1	109	0.00
22	T	Diisopropyl ether	50.000	55.951	-11.9	108	0.00
23	T	Vinyl Acetate	250.000	275.244	-10.1	105	0.00
24	P	1,1-Dichloroethane	50.000	55.556	-11.1	109	0.00
25	T	2-Butanone	250.000	247.034	1.2	101	0.00
26	T	2,2-Dichloropropane	50.000	52.887	-5.8	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.730	-9.5	108	0.00
28	T	Bromochloromethane	50.000	59.728	-19.5	106	0.00
29	T	Tetrahydrofuran	250.000	262.171	-4.9	101	0.00
30	C	Chloroform	50.000	57.517	-15.0#	107	0.00
31	T	Cyclohexane	50.000	52.647	-5.3	109	0.00
32	T	1,1,1-Trichloroethane	50.000	55.569	-11.1	111	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.954	6.1	90	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	47.179	5.6	93	0.00
36	T	1,1-Dichloropropene	50.000	53.823	-7.6	109	0.00
37	T	Ethyl Acetate	50.000	50.503	-1.0	103	0.00
38	T	Carbon Tetrachloride	50.000	54.551	-9.1	111	0.00
39	T	Methylcyclohexane	50.000	53.675	-7.3	108	0.00
40	TM	Benzene	50.000	54.354	-8.7	111	0.00
41	T	Methacrylonitrile	50.000	52.153	-4.3	109	0.00
42	TM	1,2-Dichloroethane	50.000	53.455	-6.9	107	0.00
43	T	Isopropyl Acetate	50.000	52.850	-5.7	104	0.00
44	TM	Trichloroethene	50.000	54.118	-8.2	110	0.00
45	C	1,2-Dichloropropane	50.000	54.066	-8.1#	110	0.00
46	T	Dibromomethane	50.000	52.532	-5.1	106	0.00
47	T	Bromodichloromethane	50.000	54.016	-8.0	108	0.00
48	T	Methyl methacrylate	50.000	53.715	-7.4	106	0.00

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	994.589	0.5	100	0.00
50	S	Toluene-d8	50.000	48.577	2.8	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.299	-1.3	103	0.00
52	CM	Toluene	50.000	54.863	-9.7#	111	0.00
53	T	t-1,3-Dichloropropene	50.000	55.198	-10.4	108	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.269	-10.5	109	0.00
55	T	1,1,2-Trichloroethane	50.000	52.628	-5.3	107	0.00
56	T	Ethyl methacrylate	50.000	55.014	-10.0	107	0.00
57	T	1,3-Dichloropropane	50.000	54.170	-8.3	107	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	258.372	-3.3	113	0.00
59	T	2-Hexanone	250.000	262.911	-5.2	103	0.00
60	T	Dibromochloromethane	50.000	54.051	-8.1	106	0.00
61	T	1,2-Dibromoethane	50.000	53.556	-7.1	107	0.00
62	S	4-Bromofluorobenzene	50.000	44.531	10.9	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	54.665	-9.3	110	0.00
65	PM	Chlorobenzene	50.000	56.304	-12.6	111	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.082	-12.2	109	0.00
67	C	Ethyl Benzene	50.000	56.046	-12.1#	109	0.00
68	T	m/p-Xylenes	100.000	111.272	-11.3	108	0.00
69	T	o-Xylene	50.000	55.953	-11.9	108	0.00
70	T	Styrene	50.000	56.046	-12.1	108	0.00
71	P	Bromoform	50.000	54.507	-9.0	105	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	57.082	-14.2	109	0.00
74	T	N-amyl acetate	50.000	56.212	-12.4	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.292	-8.6	103	0.00
76	T	1,2,3-Trichloropropane	50.000	57.458	-14.9	109	0.00
77	T	Bromobenzene	50.000	54.846	-9.7	105	0.00
78	T	n-propylbenzene	50.000	56.363	-12.7	107	0.00
79	T	2-Chlorotoluene	50.000	56.258	-12.5	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.365	-12.7	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.195	-14.4	105	0.00
82	T	4-Chlorotoluene	50.000	55.900	-11.8	107	0.00
83	T	tert-Butylbenzene	50.000	55.648	-11.3	106	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.391	-12.8	106	0.00
85	T	sec-Butylbenzene	50.000	55.795	-11.6	106	0.00
86	T	p-Isopropyltoluene	50.000	56.247	-12.5	105	0.00
87	T	1,3-Dichlorobenzene	50.000	54.826	-9.7	105	0.00
88	T	1,4-Dichlorobenzene	50.000	54.463	-8.9	106	0.00
89	T	n-Butylbenzene	50.000	56.710	-13.4	105	0.00
90	T	Hexachloroethane	50.000	55.981	-12.0	107	0.00
91	T	1,2-Dichlorobenzene	50.000	54.837	-9.7	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.651	-3.3	100	0.00
93	T	1,2,4-Trichlorobenzene	50.000	56.949	-13.9	106	0.00
94	T	Hexachlorobutadiene	50.000	57.205	-14.4	107	0.00
95	T	Naphthalene	50.000	57.582	-15.2	105	0.00

Sample Results: **VY020624.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020624.D
Acq On : 18 Dec 2024 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Dec 18 14:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
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	57.038	-14.1	105	0.00

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

QC SAMPLE DATA

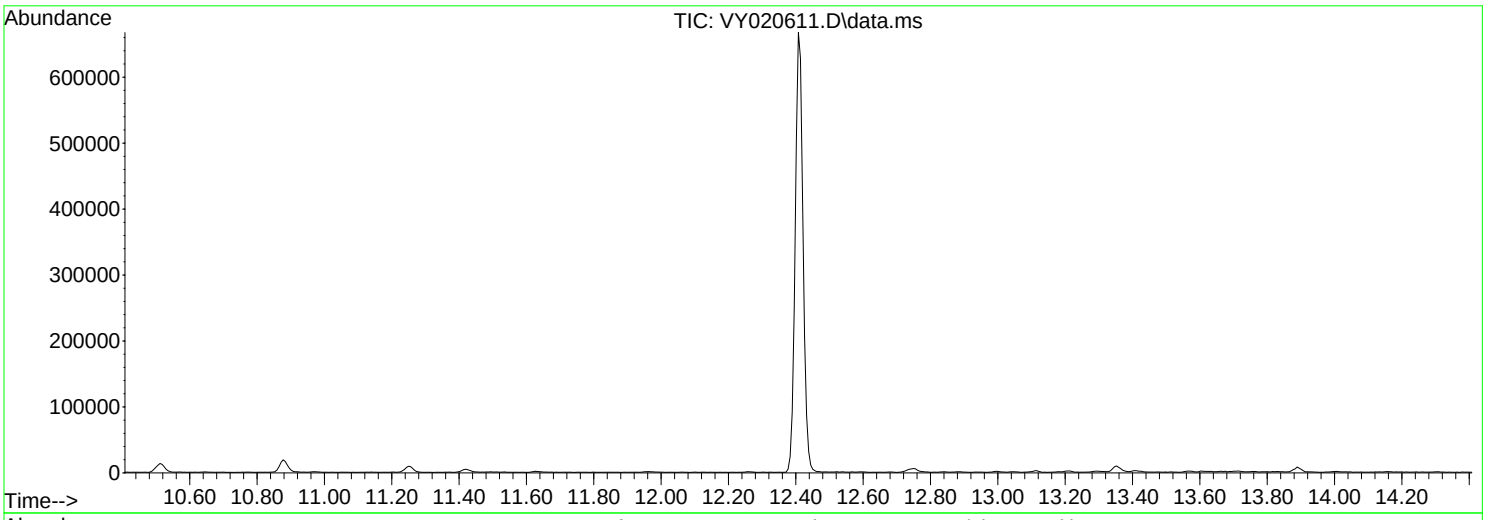
Sample Results: **VY020611.D**

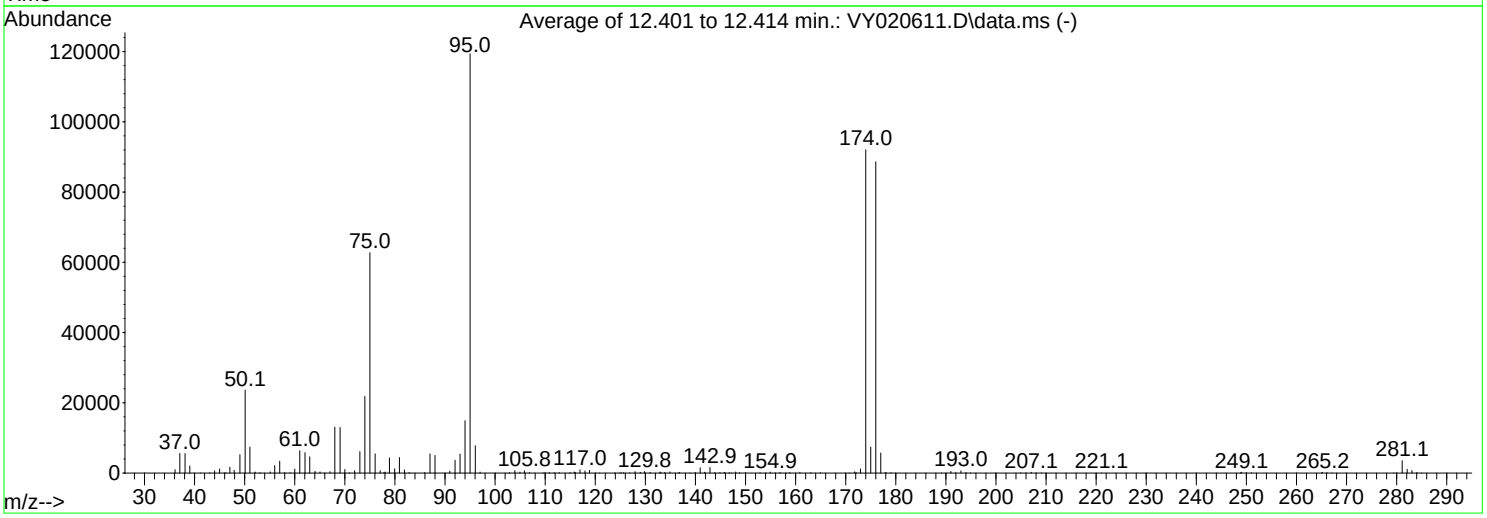
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020611.D
Acq On : 17 Dec 2024 09:00
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024





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	19.8	23624	PASS
75	95	30	60	52.6	62757	PASS
95	95	100	100	100.0	119384	PASS
96	95	5	9	6.5	7799	PASS
173	174	0.00	2	1.3	1208	PASS
174	95	50	100	77.1	92040	PASS
175	174	5	9	8.0	7407	PASS
176	174	95	101	96.3	88608	PASS
177	176	5	9	6.5	5728	PASS

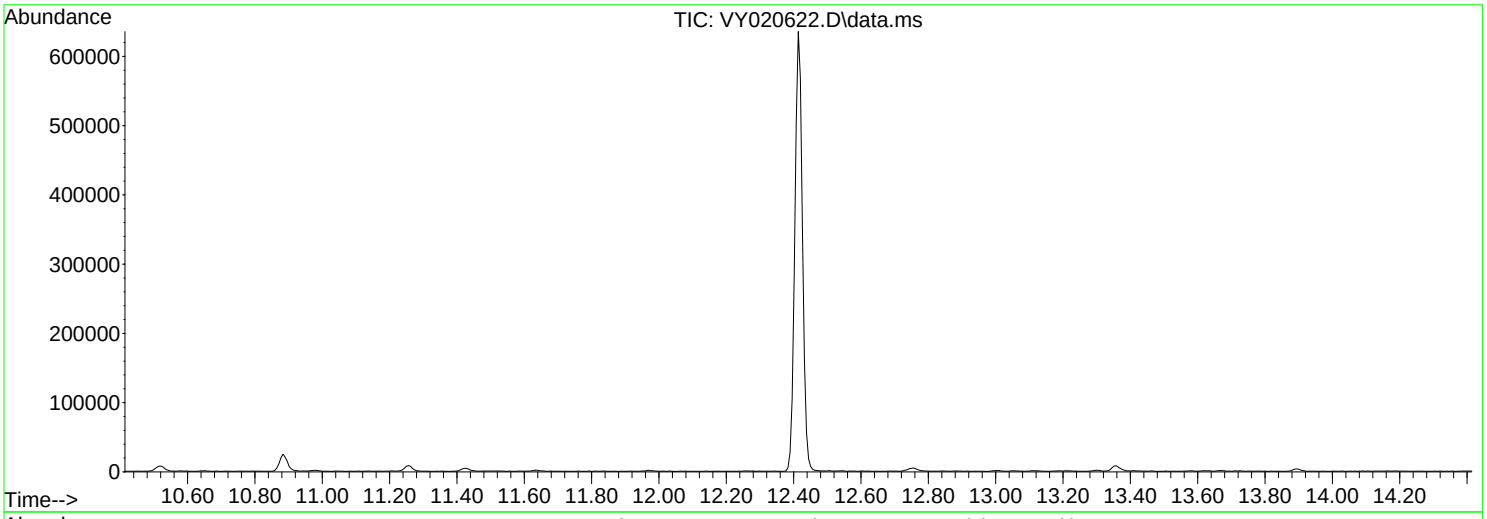
Sample Results: **VY020622.D**

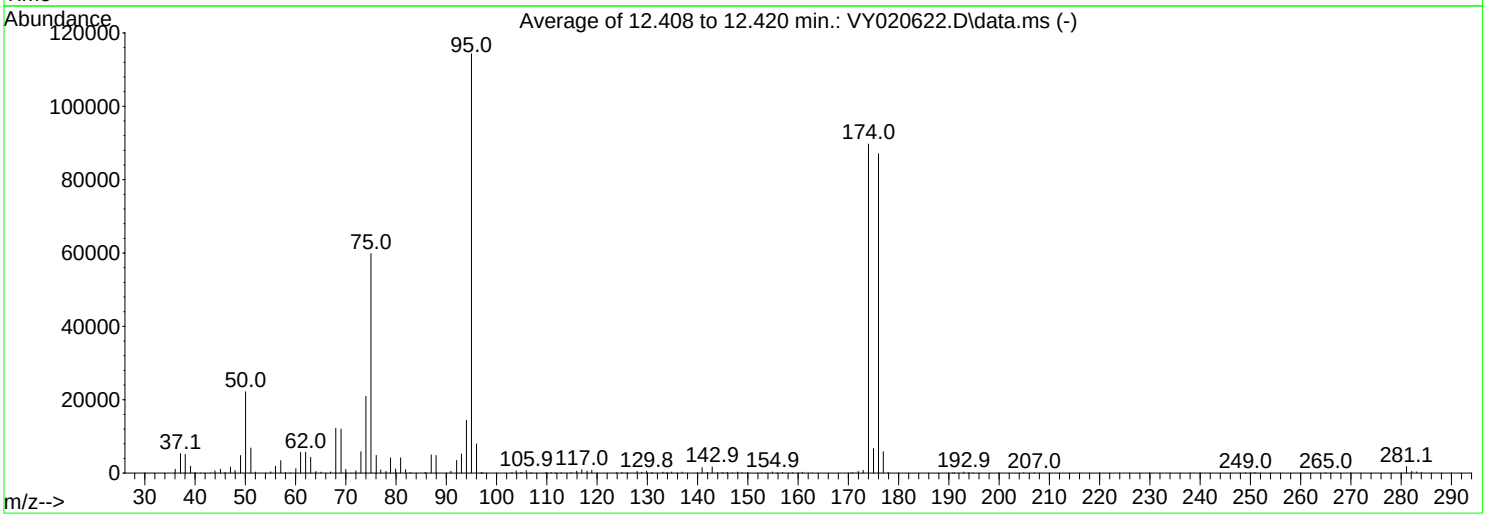
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020622.D
Acq On : 18 Dec 2024 08:46
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024





AutoFind: Scans 1753, 1754, 1755; 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	19.4	22181	PASS
75	95	30	60	52.4	59867	PASS
95	95	100	100	100.0	114336	PASS
96	95	5	9	7.0	7972	PASS
173	174	0.00	2	0.9	765	PASS
174	95	50	100	78.5	89720	PASS
175	174	5	9	7.4	6659	PASS
176	174	95	101	97.0	87059	PASS
177	176	5	9	6.7	5814	PASS

Raw Data: **VY020625.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 2024	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5299
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

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: **VY020625.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 2024	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5299
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

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	49.7		70 (50) - 130 (163)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		70 (54) - 130 (147)	89%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.4		70 (29) - 130 (146)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	356000	8.616			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY020625.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 2024	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5299
Lab Sample ID:	VY1218SBL01	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
VY020625.D	1		12/18/24 10:52	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001066-40-6	Silanol, trimethyl-	10.8	J		6.89	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Quant Time: Dec 18 14:21:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

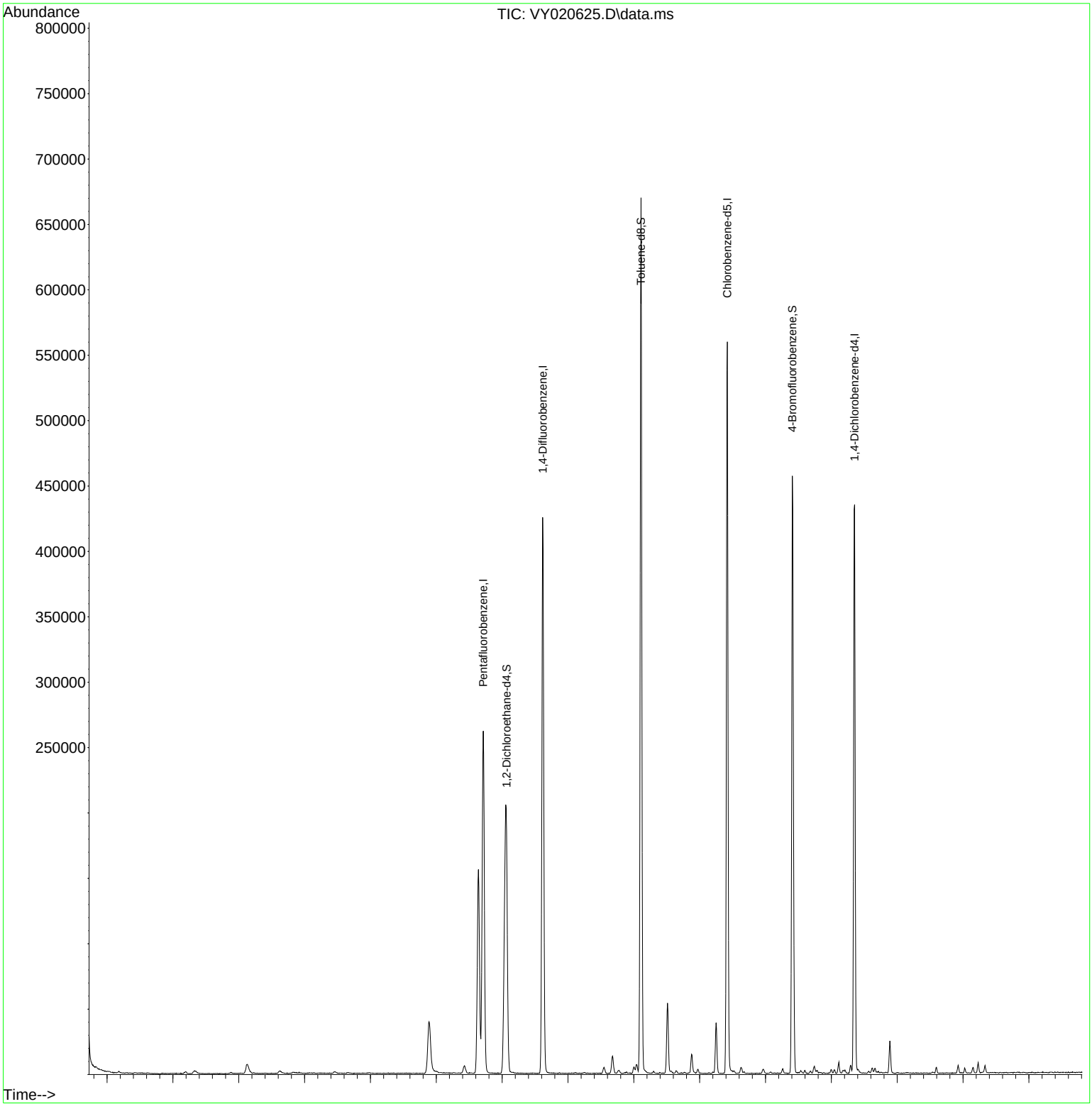
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	201389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	355898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	296016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	114022	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	109578	49.681	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.360%		
35) Dibromofluoromethane	7.640	113	112159	44.716	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	89.440%		
50) Toluene-d8	10.109	98	424991	48.408	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.820%		
62) 4-Bromofluorobenzene	12.408	95	128486	37.413	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	74.820%		
Target Compounds						Qvalue

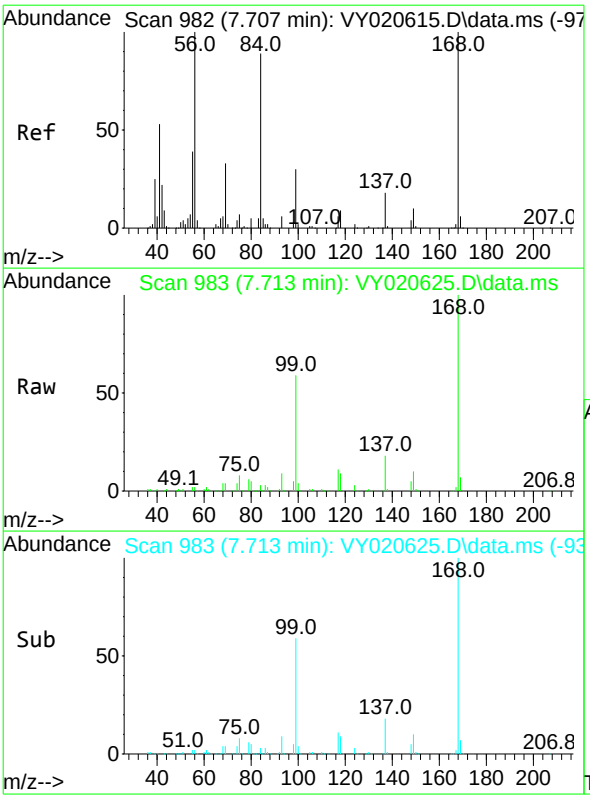
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Quant Time: Dec 18 14:21:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



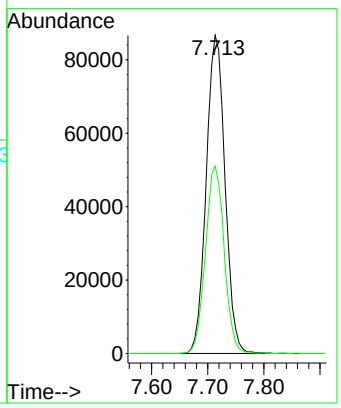


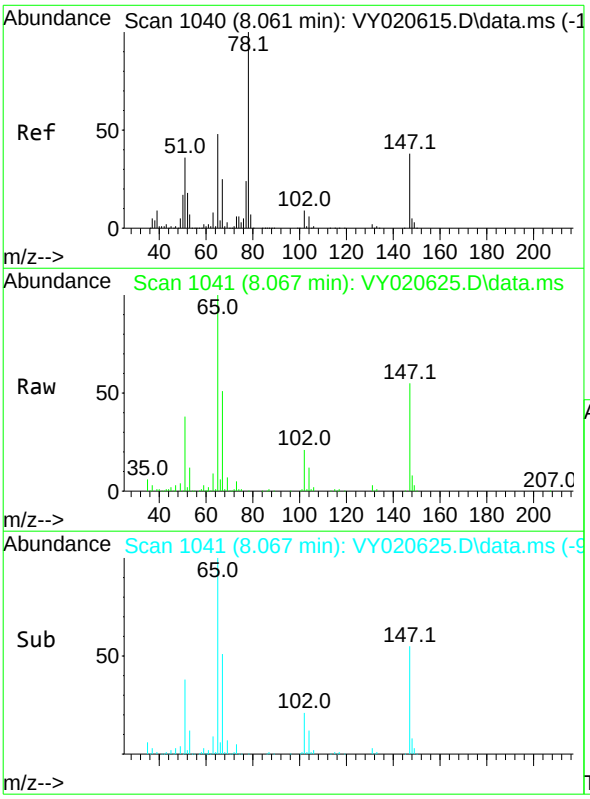
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Tgt Ion:168 Resp: 201389

Ion	Ratio	Lower	Upper
168	100		
99	58.9	47.0	70.6

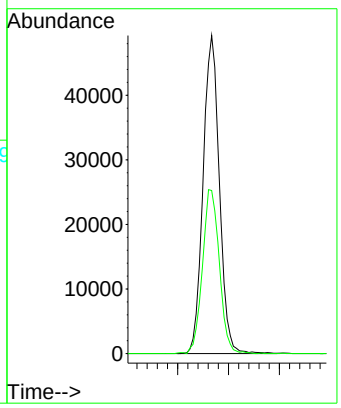


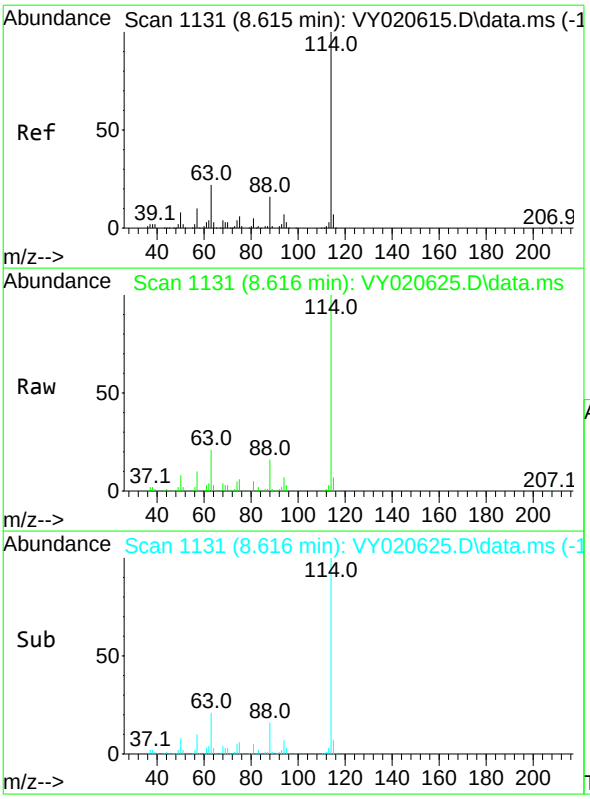


#33
1,2-Dichloroethane-d4
Concen: 49.681 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion: 65 Resp: 109578

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	108.0



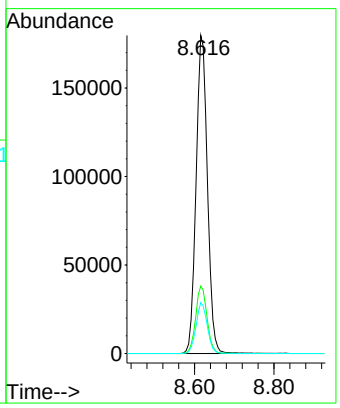


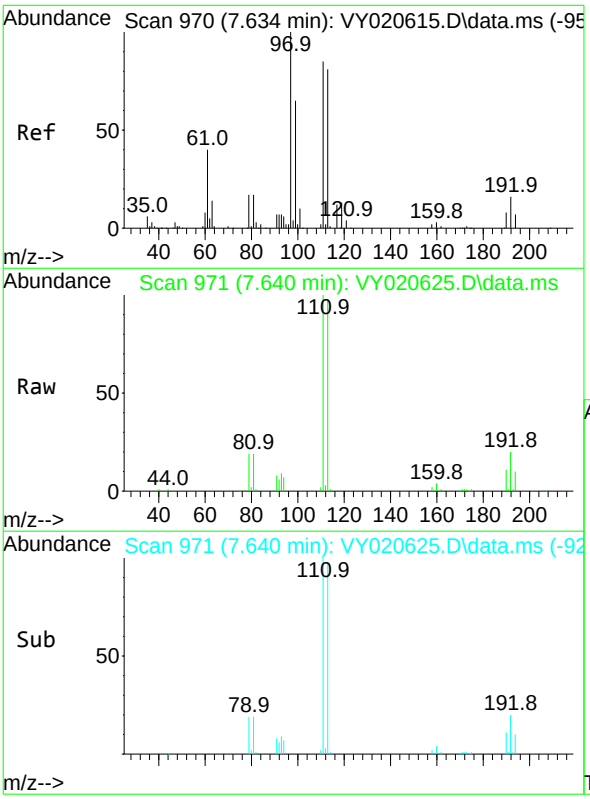
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Tgt Ion:114 Resp: 355898

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.0	0.0	32.8

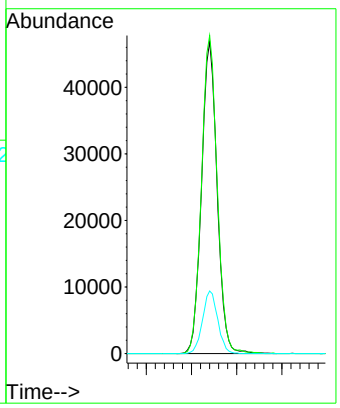


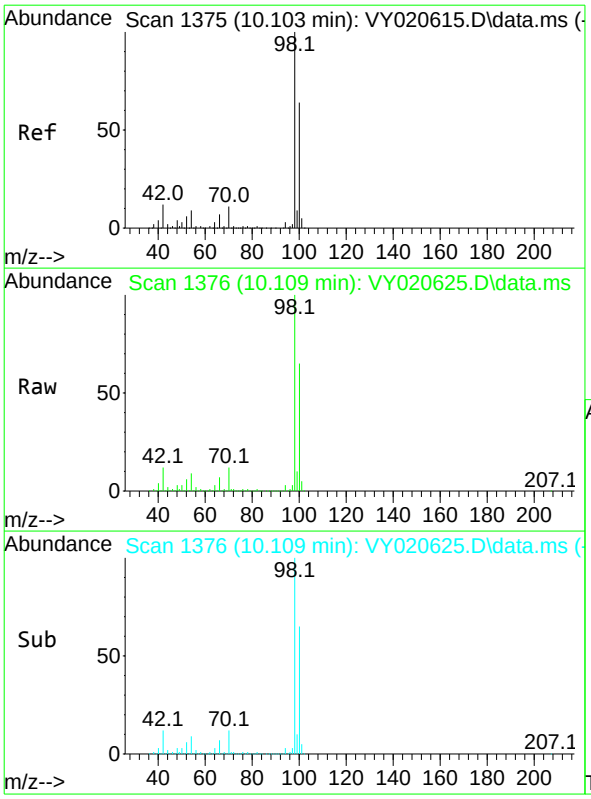


#35
Dibromofluoromethane
Concen: 44.716 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion:113 Resp: 112159

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	19.5	15.7	23.5



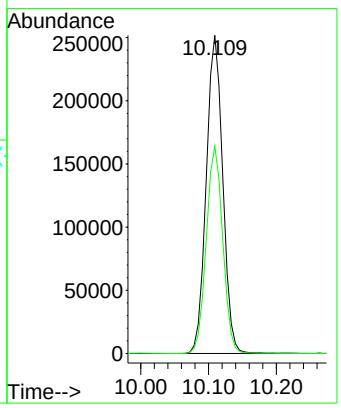


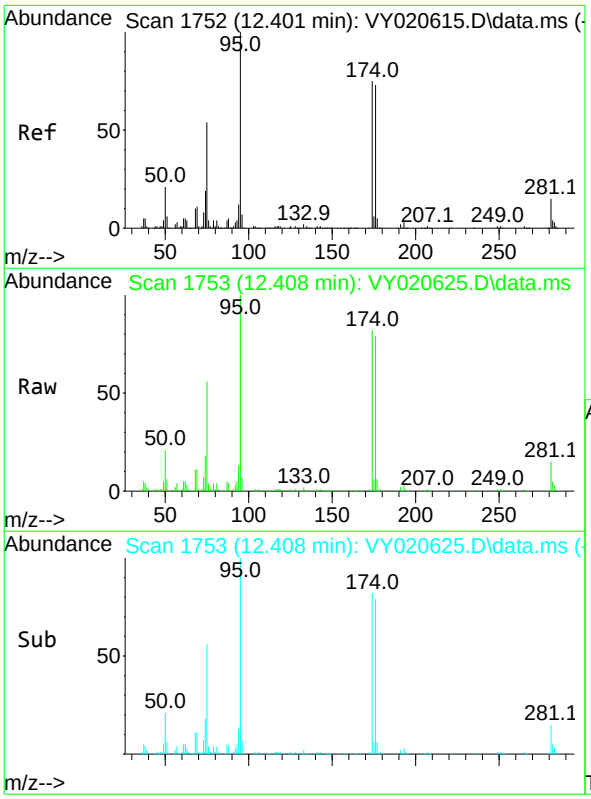
#50
Toluene-d8
Concen: 48.408 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Tgt Ion: 98 Resp: 424991

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.1	78.1

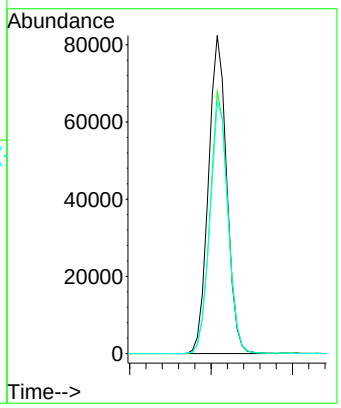


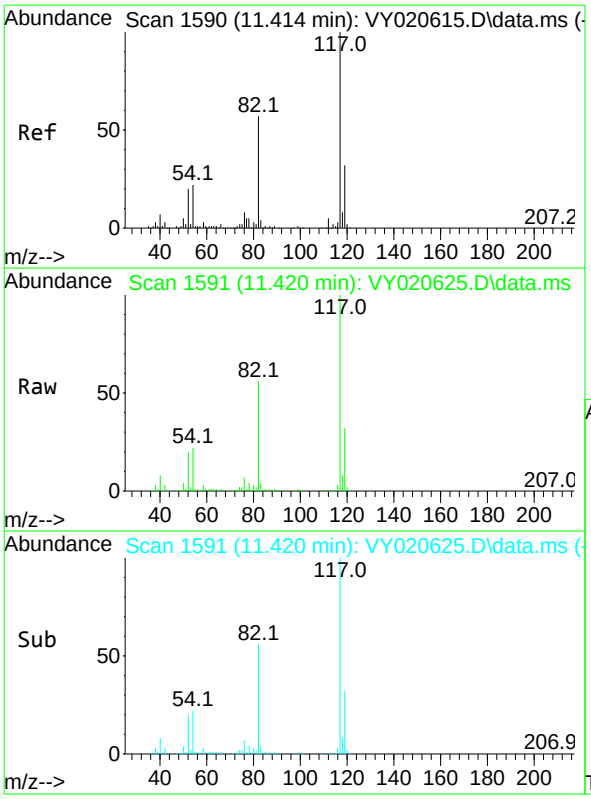


#62
4-Bromofluorobenzene
Concen: 37.413 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion: 95 Resp: 128486

Ion	Ratio	Lower	Upper
95	100		
174	81.0	0.0	161.8
176	78.5	0.0	156.6



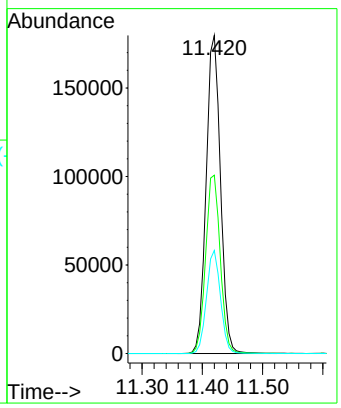


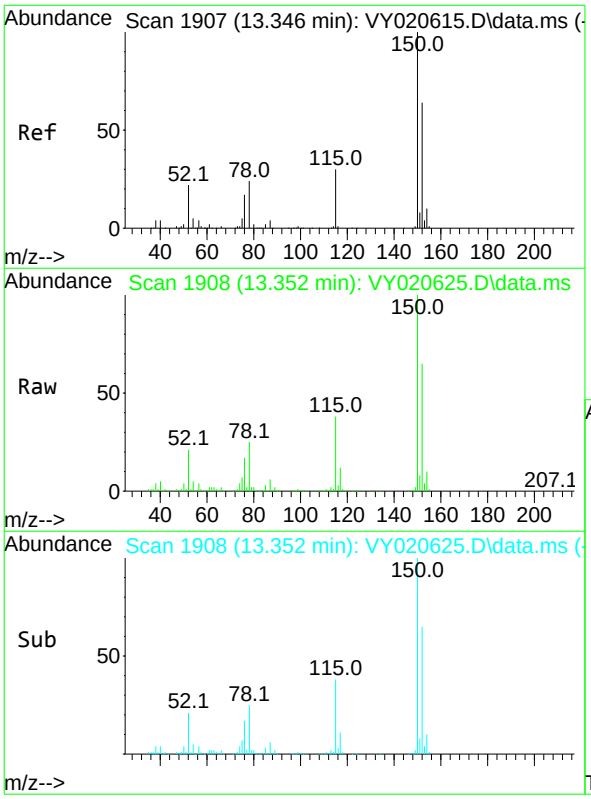
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Tgt Ion:117 Resp: 296016

Ion	Ratio	Lower	Upper
117	100		
82	56.0	45.8	68.6
119	32.4	25.3	37.9

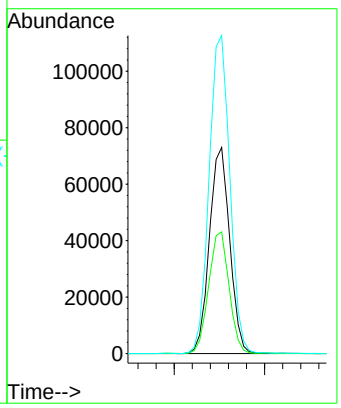




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020625.D
Acq: 18 Dec 2024 10:52

Tgt Ion:152 Resp: 114022

Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.2	90.6
150	157.4	0.0	355.4



Sample Results: **VY020625.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

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\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020625.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.129	387	395	408	rBV2	6863	22629	2.01%	0.350%
2	6.890	835	848	864	rBV	39554	130386	11.56%	2.018%
3	7.427	928	936	947	rVB2	5795	14603	1.29%	0.226%
4	7.640	960	971	977	rBV	155738	375567	33.29%	5.812%
5	7.713	977	983	997	rVB	261373	603053	53.46%	9.333%
6	8.055	1026	1039	1055	rBV2	205267	634157	56.22%	9.814%
7	8.616	1123	1131	1143	rBV	425042	835328	74.05%	12.927%
8	9.676	1297	1305	1312	rBV2	13236	27602	2.45%	0.427%
9	10.109	1369	1376	1389	rVB	668547	1128031	100.00%	17.457%
10	10.512	1433	1442	1449	rBV	53729	98773	8.76%	1.529%
11	10.877	1492	1502	1512	rBV2	14583	28096	2.49%	0.435%
12	11.249	1557	1563	1573	rVB	38665	65298	5.79%	1.011%
13	11.420	1583	1591	1602	rBV	559164	932078	82.63%	14.425%
14	12.408	1744	1753	1763	rBV2	456844	799524	70.88%	12.373%
15	13.115	1863	1869	1875	rBV2	8623	13062	1.16%	0.202%
16	13.352	1901	1908	1915	rVV	433095	701462	62.18%	10.856%
17	13.889	1991	1996	2008	rVB2	24932	40563	3.60%	0.628%
18	15.230	2210	2216	2221	rVB	7832	11481	1.02%	0.178%

Sum of corrected areas: 6461693

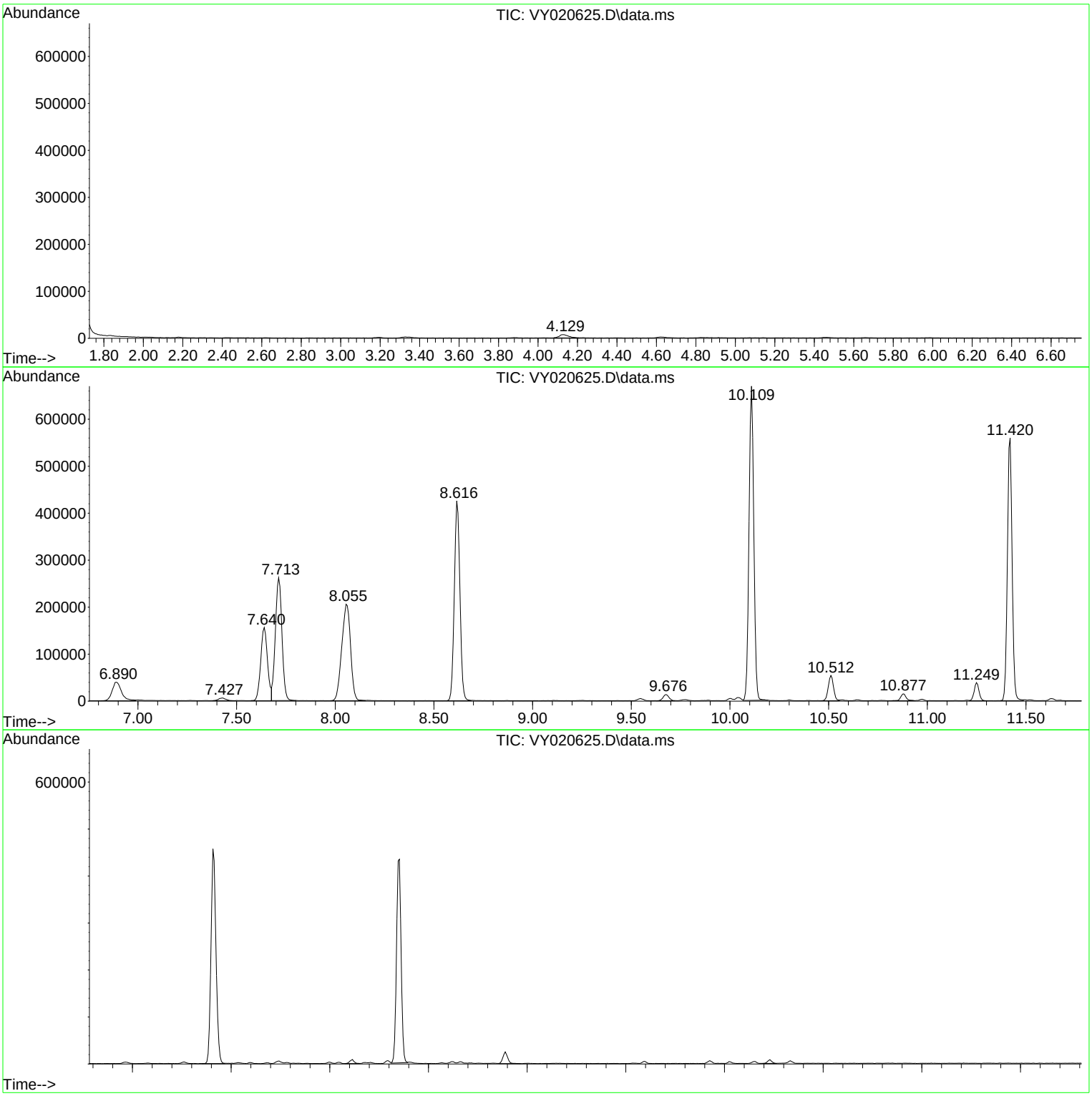
Sample Results: **VY020625.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

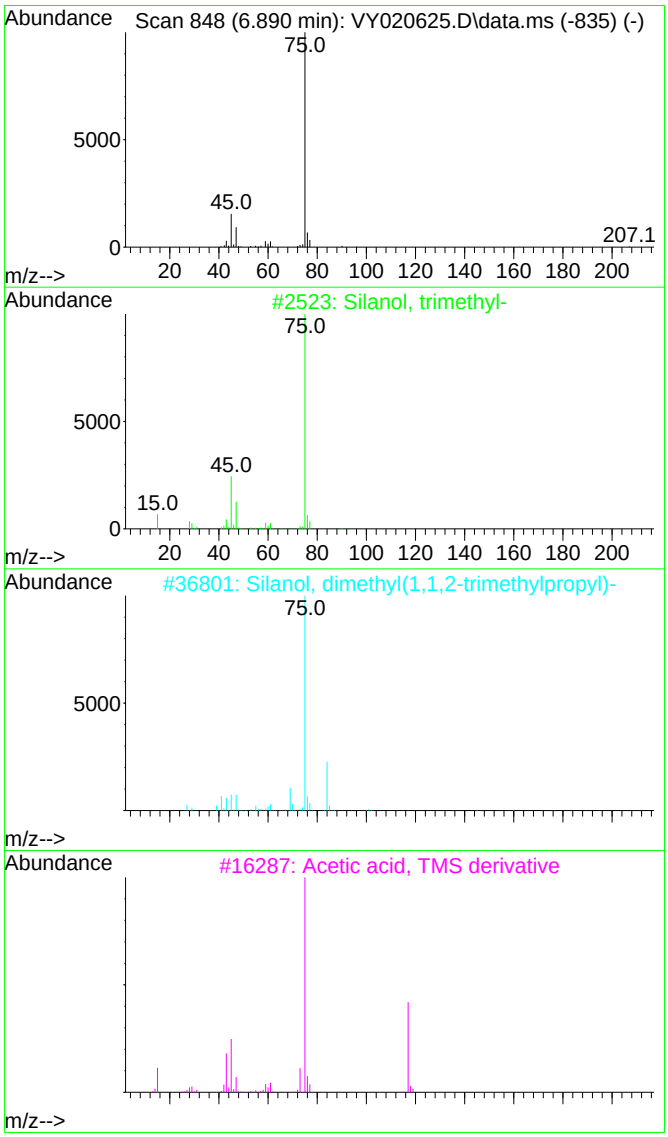
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

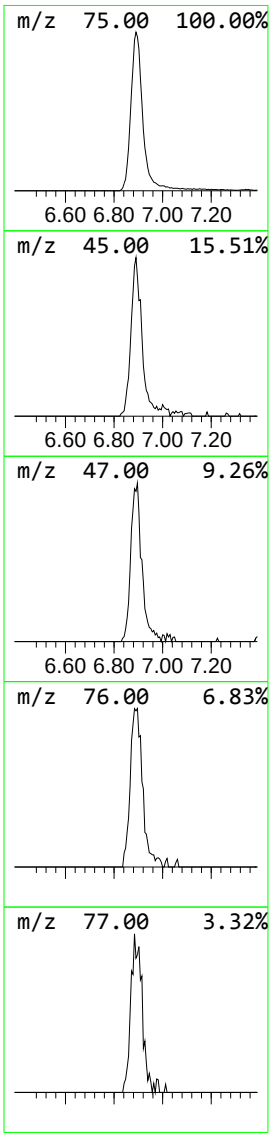
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Silanol, trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.890	10.81 ug/l	130386	Pentafluorobenzene	7.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	91
2	Silanol, dimethyl(1,1,2-trimethy...	160	C8H20OSi	055644-10-5	78
3	Acetic acid, TMS derivative	132	C5H12O2Si	002754-27-0	78
4	2-Methylpropanoic acid, TBDMS de...	202	C10H22O2Si	111864-21-2	64
5	3-(Methylthio)-2-butanone	118	C5H10OS	053475-15-3	56





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020625.D
Acq On : 18 Dec 2024 10:52
Operator : SY/MD
Sample : VY1218SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.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
Silanol, trimet...	6.890	10.8	ug/l	130386	1	7.713	603053	50.0

Raw Data: **VY020626.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 2024	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5299
Lab Sample ID:	VY1218SBS01	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
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.3		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.9		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	17.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	16.8		0.78	5.00	ug/Kg
67-64-1	Acetone	77.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.69	5.00	ug/Kg
78-93-3	2-Butanone	90.8		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	17.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	5.00	ug/Kg
71-43-2	Benzene	19.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.3		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.1		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		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 2024	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5299
Lab Sample ID:	VY1218SBS01	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
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		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	19.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.0		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.3		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.3		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.1		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.9		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.4		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.6		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 (54) - 130 (147)	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		70 (29) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	258000	8.616			
3114-55-4	Chlorobenzene-d5	227000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.347			

Raw Data: **VY020626.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 2024	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5299
Lab Sample ID:	VY1218SBS01	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
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	167281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	257615	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	226665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	127451	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	88674	48.401	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.800%			
35) Dibromofluoromethane	7.634	113	87767	48.340	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.680%			
50) Toluene-d8	10.103	98	309318	48.674	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.408	95	115004	46.263	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 92.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	40382	19.327	ug/l	99
3) Chloromethane	2.068	50	30252	19.541	ug/l	97
4) Vinyl Chloride	2.208	62	30090	20.882	ug/l	93
5) Bromomethane	2.592	94	17369	18.752	ug/l	94
6) Chloroethane	2.733	64	17918	20.123	ug/l	97
7) Trichlorofluoromethane	3.062	101	58469	19.392	ug/l	95
8) Diethyl Ether	3.452	74	18809	17.788	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	37241	17.232	ug/l	100
10) Methyl Iodide	4.007	142	41758	17.355	ug/l	100
11) Tert butyl alcohol	4.860	59	19583	78.568	ug/l	97
12) 1,1-Dichloroethene	3.787	96	35177	16.776	ug/l	99
13) Acrolein	3.653	56	8215	94.829	ug/l	94
14) Allyl chloride	4.385	41	69625	18.949	ug/l	99
15) Acrylonitrile	5.068	53	49364	97.584	ug/l	99
16) Acetone	3.873	43	29969	77.909	ug/l	98
17) Carbon Disulfide	4.110	76	119696	17.537	ug/l	99
18) Methyl Acetate	4.391	43	24523	19.673	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	107210	19.809	ug/l	95
20) Methylene Chloride	4.623	84	44364	19.476	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	44598	18.960	ug/l	96
22) Diisopropyl ether	6.019	45	148852	19.958	ug/l	95
23) Vinyl Acetate	5.964	43	416297	98.552	ug/l	99
24) 1,1-Dichloroethane	5.921	63	83933	19.210	ug/l	99
25) 2-Butanone	6.903	43	61848	90.838	ug/l	99
26) 2,2-Dichloropropane	6.890	77	71249	17.250	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	52075	19.243	ug/l	99
28) Bromochloromethane	7.244	49	25031	16.984	ug/l	99
29) Tetrahydrofuran	7.268	42	41982	97.675	ug/l	99
30) Chloroform	7.421	83	90485	17.145	ug/l	99
31) Cyclohexane	7.701	56	78663	18.829	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	77928	19.413	ug/l	99
36) 1,1-Dichloropropene	7.835	75	63989	19.328	ug/l	100
37) Ethyl Acetate	6.988	43	29965	19.242	ug/l	97
38) Carbon Tetrachloride	7.817	117	70634	19.284	ug/l	96
39) Methylcyclohexane	9.110	83	81692	18.932	ug/l	98
40) Benzene	8.079	78	189386	19.516	ug/l	97

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	18878	22.930 ug/l #	81
42) 1,2-Dichloroethane	8.158	62	50543	19.638 ug/l	99
43) Isopropyl Acetate	8.195	43	58670	19.900 ug/l #	91
44) Trichloroethene	8.866	130	46211	19.380 ug/l	98
45) 1,2-Dichloropropane	9.140	63	44886	19.791 ug/l	96
46) Dibromomethane	9.231	93	23180	19.339 ug/l	100
47) Bromodichloromethane	9.420	83	62416	19.278 ug/l	98
48) Methyl methacrylate	9.219	41	27180	19.393 ug/l	99
49) 1,4-Dioxane	9.225	88	5652	411.180 ug/l	95
51) 4-Methyl-2-Pentanone	10.000	43	151100	97.097 ug/l	100
52) Toluene	10.170	92	116630	19.339 ug/l	98
53) t-1,3-Dichloropropene	10.390	75	59203	19.624 ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	69444	19.425 ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	30990	19.556 ug/l	99
56) Ethyl methacrylate	10.439	69	45754	19.902 ug/l	99
57) 1,3-Dichloropropane	10.719	76	56163	19.881 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	95263	98.479 ug/l	99
59) 2-Hexanone	10.762	43	97879	97.964 ug/l	99
60) Dibromochloromethane	10.908	129	41648	19.651 ug/l	98
61) 1,2-Dibromoethane	11.018	107	29380	19.931 ug/l	99
64) Tetrachloroethene	10.646	164	39902	18.715 ug/l	97
65) Chlorobenzene	11.438	112	122617	19.347 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	42870	19.781 ug/l	98
67) Ethyl Benzene	11.518	91	226042	19.332 ug/l	99
68) m/p-Xylenes	11.627	106	166597	38.321 ug/l	99
69) o-Xylene	11.957	106	77614	19.134 ug/l	96
70) Styrene	11.969	104	131983	19.475 ug/l	99
71) Bromoform	12.133	173	24420	20.042 ug/l #	100
73) Isopropylbenzene	12.255	105	212024	19.063 ug/l	100
74) N-amyl acetate	12.072	43	50923	19.564 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	36238	20.073 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	26707m	20.172 ug/l	
77) Bromobenzene	12.536	156	46315	19.117 ug/l	97
78) n-propylbenzene	12.597	91	254635	19.003 ug/l	99
79) 2-Chlorotoluene	12.682	91	145409	19.287 ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	172109	19.071 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	12641	20.041 ug/l	98
82) 4-Chlorotoluene	12.780	91	149033	19.054 ug/l	100
83) tert-Butylbenzene	12.999	119	154550	18.910 ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	170656	19.278 ug/l	99
85) sec-Butylbenzene	13.176	105	224573	18.898 ug/l	100
86) p-Isopropyltoluene	13.292	119	184653	18.847 ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	91457	19.123 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	89466	18.888 ug/l	98
89) n-Butylbenzene	13.621	91	175462	18.896 ug/l	100
90) Hexachloroethane	13.883	117	37311	19.216 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	80206	19.356 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5613	19.150 ug/l	98
93) 1,2,4-Trichlorobenzene	14.926	180	46722	18.641 ug/l	98
94) Hexachlorobutadiene	15.029	225	29648	18.095 ug/l	99
95) Naphthalene	15.145	128	83096	19.338 ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	39852	18.819 ug/l	99

Sample Results: **VY020626.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

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

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

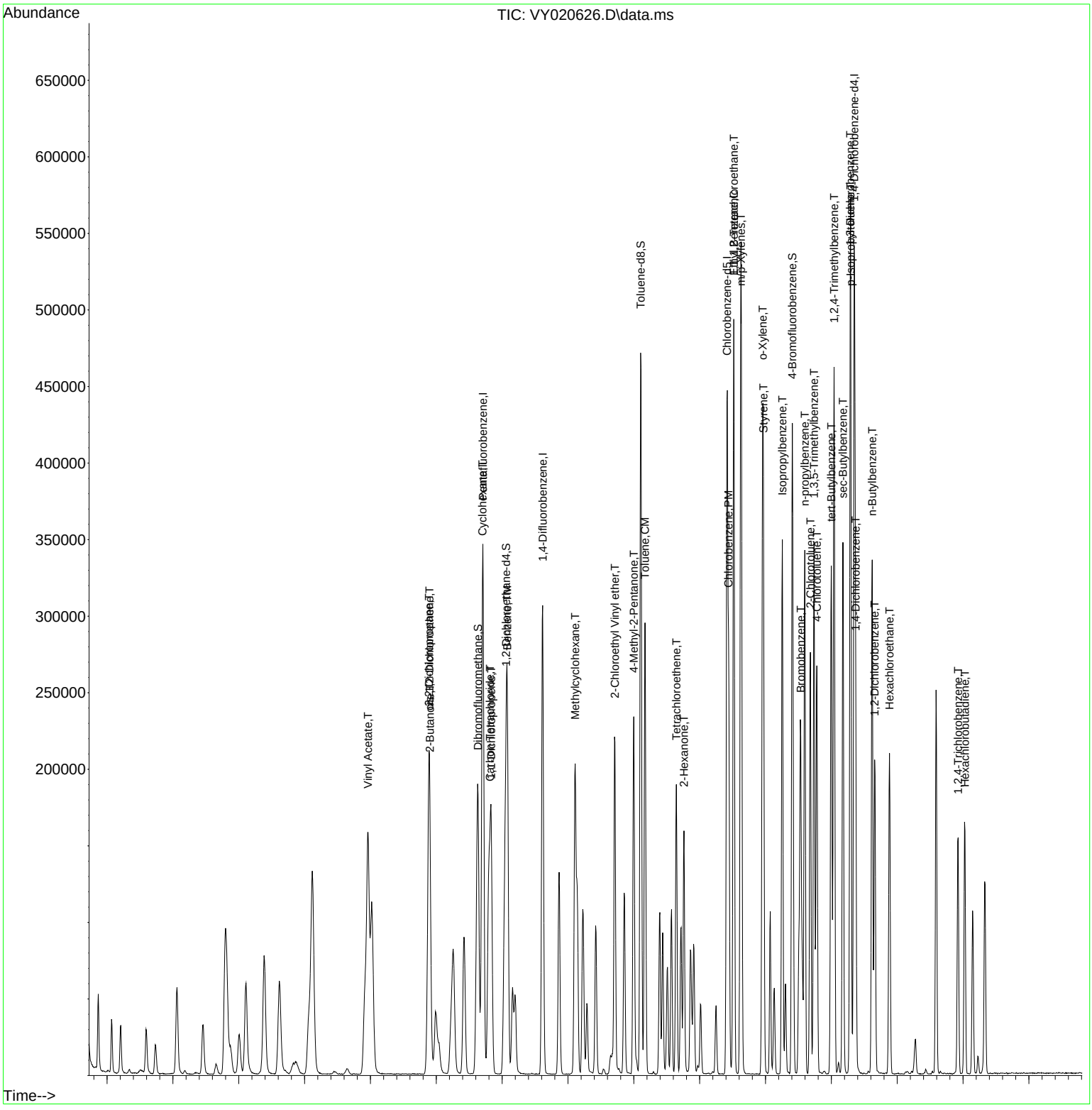
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020626.D
Acq On : 18 Dec 2024 11:19
Operator : SY/MD
Sample : VY1218SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 14:21:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



Raw Data: **VY020627.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 2024	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.9		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.2		0.78	5.00	ug/Kg
67-64-1	Acetone	92.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.3		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.2		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	20.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.7		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

Raw Data: **VY020627.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 2024	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.0		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	98.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.0		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.9		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (50) - 130 (163)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	7.707			
540-36-3	1,4-Difluorobenzene	244000	8.616			
3114-55-4	Chlorobenzene-d5	215000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.347			

Raw Data: **VY020627.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 2024	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5299
Lab Sample ID:	VY1218SBSD01	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
VY020627.D	1		12/18/24 11:42	VY121824

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\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	153098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	244096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	214944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	120747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	86732	51.726	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.460%			
35) Dibromofluoromethane	7.634	113	86233	50.126	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.260%			
50) Toluene-d8	10.103	98	310144	51.507	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.020%			
62) 4-Bromofluorobenzene	12.402	95	113747	48.292	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 96.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38435	20.099	ug/l	97
3) Chloromethane	2.074	50	26666	18.820	ug/l	98
4) Vinyl Chloride	2.208	62	25628	19.433	ug/l	95
5) Bromomethane	2.592	94	17707	20.888	ug/l	100
6) Chloroethane	2.739	64	16084	19.737	ug/l	100
7) Trichlorofluoromethane	3.062	101	54495	19.749	ug/l	97
8) Diethyl Ether	3.458	74	18841	19.469	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	38613	19.522	ug/l	100
10) Methyl Iodide	4.007	142	45735	20.769	ug/l	100
11) Tert butyl alcohol	4.860	59	18625	82.982	ug/l #	86
12) 1,1-Dichloroethene	3.793	96	36924	19.240	ug/l	96
13) Acrolein	3.659	56	8392	105.846	ug/l	98
14) Allyl chloride	4.385	41	71890	21.378	ug/l	99
15) Acrylonitrile	5.068	53	47243	102.042	ug/l	100
16) Acetone	3.873	43	32300	92.921	ug/l	95
17) Carbon Disulfide	4.104	76	128006	20.491	ug/l	99
18) Methyl Acetate	4.397	43	24304	21.304	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	105197	21.238	ug/l	99
20) Methylene Chloride	4.622	84	43686	20.955	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	43916	20.400	ug/l	96
22) Diisopropyl ether	6.019	45	148554	21.763	ug/l	95
23) Vinyl Acetate	5.964	43	408423	105.645	ug/l	99
24) 1,1-Dichloroethane	5.921	63	85392	21.354	ug/l	98
25) 2-Butanone	6.896	43	60654	97.337	ug/l	100
26) 2,2-Dichloropropane	6.890	77	70010	18.520	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	51600	20.834	ug/l	99
28) Bromochloromethane	7.250	49	24611	18.246	ug/l	100
29) Tetrahydrofuran	7.262	42	40544	103.068	ug/l	99
30) Chloroform	7.421	83	88937	18.850	ug/l	98
31) Cyclohexane	7.701	56	76241	19.940	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76355	20.784	ug/l	100
36) 1,1-Dichloropropene	7.835	75	62499	19.924	ug/l	99
37) Ethyl Acetate	6.988	43	28092	19.038	ug/l	99
38) Carbon Tetrachloride	7.817	117	69992	20.167	ug/l	95
39) Methylcyclohexane	9.110	83	79720	19.499	ug/l	98
40) Benzene	8.079	78	190548	20.723	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.232	41	15591	19.986 ug/l #	92
42) 1,2-Dichloroethane	8.158	62	50556	20.731 ug/l	100
43) Isopropyl Acetate	8.201	43	56566	20.249 ug/l #	88
44) Trichloroethene	8.866	130	46762	20.697 ug/l	94
45) 1,2-Dichloropropane	9.140	63	44913	20.900 ug/l	93
46) Dibromomethane	9.231	93	23137	20.372 ug/l	99
47) Bromodichloromethane	9.420	83	64097	20.894 ug/l	96
48) Methyl methacrylate	9.219	41	26036	19.605 ug/l	97
49) 1,4-Dioxane	9.231	88	4955	380.438 ug/l #	96
51) 4-Methyl-2-Pentanone	9.993	43	143998	97.658 ug/l	100
52) Toluene	10.170	92	116834	20.446 ug/l	97
53) t-1,3-Dichloropropene	10.396	75	59267	20.733 ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	69750	20.591 ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	31492	20.973 ug/l	99
56) Ethyl methacrylate	10.439	69	44249	20.313 ug/l	99
57) 1,3-Dichloropropane	10.719	76	55078	20.577 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	96709	105.511 ug/l	100
59) 2-Hexanone	10.762	43	93397	98.655 ug/l	100
60) Dibromochloromethane	10.908	129	41457	20.645 ug/l	97
61) 1,2-Dibromoethane	11.012	107	28993	20.758 ug/l	100
64) Tetrachloroethene	10.646	164	40481	20.022 ug/l	92
65) Chlorobenzene	11.438	112	122990	20.464 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	44028	21.424 ug/l	100
67) Ethyl Benzene	11.518	91	224839	20.278 ug/l	99
68) m/p-Xylenes	11.627	106	167194	40.556 ug/l	100
69) o-Xylene	11.957	106	79188	20.587 ug/l	99
70) Styrene	11.969	104	134103	20.867 ug/l	99
71) Bromoform	12.133	173	23868	20.657 ug/l #	100
73) Isopropylbenzene	12.255	105	212192	20.138 ug/l	100
74) N-amyl acetate	12.066	43	49369	20.020 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	35934	21.009 ug/l	96
76) 1,2,3-Trichloropropane	12.554	75	25214m	20.102 ug/l	
77) Bromobenzene	12.530	156	47727	20.794 ug/l	98
78) n-propylbenzene	12.597	91	256750	20.224 ug/l	100
79) 2-Chlorotoluene	12.676	91	145869	20.423 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	174821	20.447 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	11485	19.219 ug/l	98
82) 4-Chlorotoluene	12.780	91	152691	20.606 ug/l	99
83) tert-Butylbenzene	12.999	119	159815	20.640 ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	171781	20.483 ug/l	99
85) sec-Butylbenzene	13.176	105	227197	20.180 ug/l	100
86) p-Isopropyltoluene	13.292	119	188392	20.296 ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	91586	20.214 ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	91045	20.289 ug/l	98
89) n-Butylbenzene	13.621	91	174537	19.840 ug/l	99
90) Hexachloroethane	13.883	117	37017	20.123 ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	81563	20.777 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5446	19.612 ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	47095	19.833 ug/l	99
94) Hexachlorobutadiene	15.023	225	30799	19.841 ug/l	99
95) Naphthalene	15.145	128	81118	19.926 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	40302	20.088 ug/l	99

Sample Results: **VY020627.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024

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

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

Sample Results: **VY020627.D**

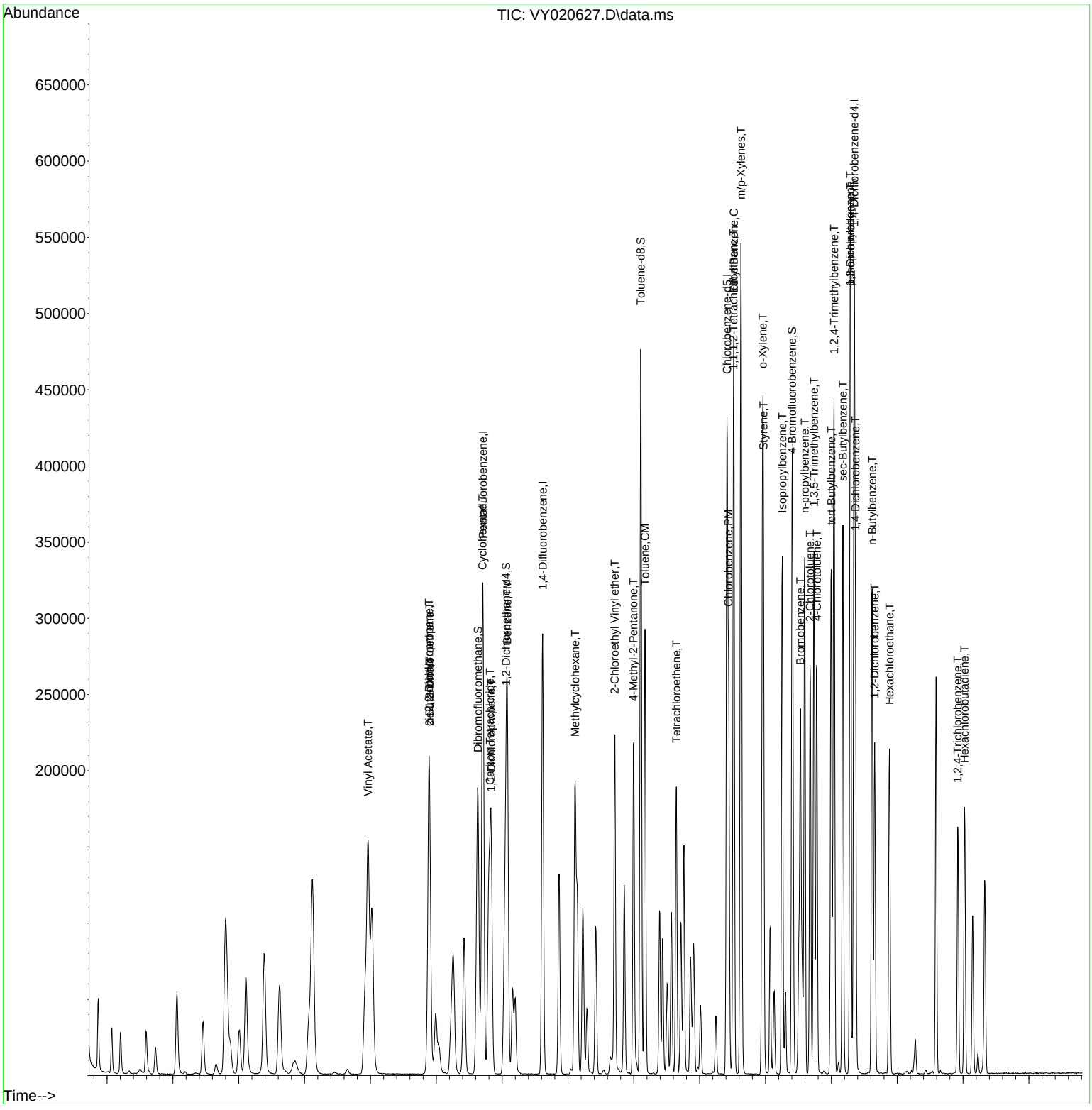
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121824\
Data File : VY020627.D
Acq On : 18 Dec 2024 11:42
Operator : SY/MD
Sample : VY1218SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 14:21:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1218SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 12/19/2024
Supervised By :Semsettin Yesilyurt 12/19/2024



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

Manual Integration Report

Sequence:	VY121724	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VY020613.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:29 AM	SAM	12/18/2024 8:50:42 AM	Peak Integrated by Software
VSTDICC020	VY020614.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:31 AM	SAM	12/18/2024 8:50:43 AM	Peak Integrated by Software
VSTDICCC050	VY020615.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:34 AM	SAM	12/18/2024 8:50:47 AM	Peak Integrated by Software
VSTDICC100	VY020616.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:37 AM	SAM	12/18/2024 8:50:48 AM	Peak Integrated by Software
VSTDICC150	VY020617.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:38 AM	SAM	12/18/2024 8:50:50 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	1,2,3-Trichloropropane	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICC005	VY020619.D	Methacrylonitrile	MMDadoda	12/18/2024 8:36:41 AM	SAM	12/18/2024 8:50:52 AM	Peak Integrated by Software
VSTDICV050	VY020620.D	1,2,3-Trichloropropane	Romaben	12/18/2024 8:31:07 AM	MMDadoda	12/18/2024 8:36:43 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY121824	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY020623.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:44 AM	SAM	12/19/2024 2:49:07 PM	Peak Integrated by Software
VSTDCCC050	VY020624.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:47 AM	SAM	12/19/2024 2:49:08 PM	Peak Integrated by Software
VY1218SBS01	VY020626.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:51 AM	SAM	12/19/2024 2:49:10 PM	Peak Integrated by Software
VY1218SBSD01	VY020627.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:54 AM	SAM	12/19/2024 2:49:10 PM	Peak Integrated by Software
VSTDCCC050	VY020643.D	1,2,3-Trichloropropane	Romaben	12/19/2024 9:18:40 AM	SAM	12/19/2024 2:49:13 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:38:34 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM		
SubDirectory	VY121724	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132182
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP132189
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020611.D	17 Dec 2024 09:00	SY/MD	Ok
2	VSTDICC005	VY020612.D	17 Dec 2024 09:38	SY/MD	Ok
3	VSTDICC010	VY020613.D	17 Dec 2024 10:01	SY/MD	Ok,M
4	VSTDICC020	VY020614.D	17 Dec 2024 10:23	SY/MD	Ok,M
5	VSTDICCC050	VY020615.D	17 Dec 2024 10:51	SY/MD	Ok,M
6	VSTDICC100	VY020616.D	17 Dec 2024 11:14	SY/MD	Ok,M
7	VSTDICC150	VY020617.D	17 Dec 2024 11:37	SY/MD	Ok,M
8	VIBLK	VY020618.D	17 Dec 2024 12:24	SY/MD	Ok
9	VSTDICC005	VY020619.D	17 Dec 2024 14:51	SY/MD	Ok,M
10	VSTDICV050	VY020620.D	17 Dec 2024 17:41	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM		
SubDirectory	VY121824	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132202
Initial Calibration Stds	
CCC	VP132203,VP132204
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	VY020622.D	18 Dec 2024 08:46	SY/MD	Ok
2	VSTDICV050	VY020623.D	18 Dec 2024 09:43	SY/MD	Ok,M
3	VSTDCCC050	VY020624.D	18 Dec 2024 10:06	SY/MD	Ok,M
4	VY1218SBL01	VY020625.D	18 Dec 2024 10:52	SY/MD	Ok
5	VY1218SBS01	VY020626.D	18 Dec 2024 11:19	SY/MD	Ok,M
6	VY1218SBSD01	VY020627.D	18 Dec 2024 11:42	SY/MD	Ok,M
7	P5277-01	VY020628.D	18 Dec 2024 12:05	SY/MD	Not Ok
8	P5277-02	VY020629.D	18 Dec 2024 12:33	SY/MD	Ok
9	P5277-03	VY020630.D	18 Dec 2024 12:57	SY/MD	Ok
10	P5287-01	VY020631.D	18 Dec 2024 13:20	SY/MD	Ok
11	P5287-03	VY020632.D	18 Dec 2024 13:44	SY/MD	Ok
12	P5312-03	VY020633.D	18 Dec 2024 14:07	SY/MD	ReRun
13	P5312-01	VY020634.D	18 Dec 2024 14:30	SY/MD	ReRun
14	P5299-04	VY020635.D	18 Dec 2024 14:54	SY/MD	Ok
15	P5301-03	VY020636.D	18 Dec 2024 15:17	SY/MD	ReRun
16	P5277-02	VY020637.D	18 Dec 2024 15:41	SY/MD	Not Ok
17	P5301-01	VY020638.D	18 Dec 2024 16:04	SY/MD	Ok
18	P5299-02	VY020639.D	18 Dec 2024 16:27	SY/MD	Ok
19	P5299-03	VY020640.D	18 Dec 2024 16:51	SY/MD	Ok
20	P5279-03	VY020641.D	18 Dec 2024 17:14	SY/MD	Not Ok
21	P5299-01	VY020642.D	18 Dec 2024 17:38	SY/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM		
SubDirectory	VY121824	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132202
Initial Calibration Stds	
CCC	VP132203,VP132204
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY020643.D	18 Dec 2024 18:00	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

Review By	Mahesh Dadoda	Review On	12/18/2024 8:38:34 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:51:04 AM		
SubDirectory	VY121724	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132182
Initial Calibration Stds	VP132183,VP132184,VP132185,VP132186,VP132187,VP132188
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP132189
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020611.D	17 Dec 2024 09:00		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020612.D	17 Dec 2024 09:38		SY/MD	Ok
3	VSTDICC010	VSTDICC010	VY020613.D	17 Dec 2024 10:01	Com #16,30 on LR	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020614.D	17 Dec 2024 10:23	Com #11 on QR	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020615.D	17 Dec 2024 10:51	Com #13 fail for method	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020616.D	17 Dec 2024 11:14		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020617.D	17 Dec 2024 11:37		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020618.D	17 Dec 2024 12:24		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VY020619.D	17 Dec 2024 14:51	%D fail for com #11	SY/MD	Ok,M
10	VSTDICV050	ICVVY121724	VY020620.D	17 Dec 2024 17:41	ICV fail for com #11,16	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM		
SubDirectory	VY121824	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132202
Initial Calibration Stds	
CCC	VP132203,VP132204
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	VY020622.D	18 Dec 2024 08:46		SY/MD	Ok
2	VSTDICV050	ICVVY121824	VY020623.D	18 Dec 2024 09:43		SY/MD	Ok,M
3	VSTDCCC050	VSTDCCC050	VY020624.D	18 Dec 2024 10:06		SY/MD	Ok,M
4	VY1218SBL01	VY1218SBL01	VY020625.D	18 Dec 2024 10:52		SY/MD	Ok
5	VY1218SBS01	VY1218SBS01	VY020626.D	18 Dec 2024 11:19		SY/MD	Ok,M
6	VY1218SBSD01	VY1218SBSD01	VY020627.D	18 Dec 2024 11:42		SY/MD	Ok,M
7	P5277-01	COMP-1A	VY020628.D	18 Dec 2024 12:05	vial-A Not purged	SY/MD	Not Ok
8	P5277-02	COMP-2A	VY020629.D	18 Dec 2024 12:33	vial-A	SY/MD	Ok
9	P5277-03	COMP-3A	VY020630.D	18 Dec 2024 12:57	vial-A	SY/MD	Ok
10	P5287-01	STONES-A	VY020631.D	18 Dec 2024 13:20	vial-A	SY/MD	Ok
11	P5287-03	STONES-B	VY020632.D	18 Dec 2024 13:44	vial-A	SY/MD	Ok
12	P5312-03	CONCRETE-VNJ-222	VY020633.D	18 Dec 2024 14:07	vial-A Surrogate Fail	SY/MD	ReRun
13	P5312-01	SOIL-VNJ-222	VY020634.D	18 Dec 2024 14:30	vial-A Internal Standard Fail	SY/MD	ReRun
14	P5299-04	SB-02	VY020635.D	18 Dec 2024 14:54	vial-A	SY/MD	Ok
15	P5301-03	HR-04-121624	VY020636.D	18 Dec 2024 15:17	vial-A Internal Standard Fail	SY/MD	ReRun
16	P5277-02	COMP-2A	VY020637.D	18 Dec 2024 15:41	vial-B NOT PURGE	SY/MD	Not Ok
17	P5301-01	HR-01-121624	VY020638.D	18 Dec 2024 16:04	vial-B	SY/MD	Ok
18	P5299-02	SB-02	VY020639.D	18 Dec 2024 16:27	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY121824

Review By	Mahesh Dadoda	Review On	12/19/2024 2:48:41 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/19/2024 2:49:14 PM		
SubDirectory	VY121824	HP Acquire Method		HP Processing Method	82y121724s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132202
Initial Calibration Stds	
CCC	VP132203,VP132204
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5299-03	SB-01	VY020640.D	18 Dec 2024 16:51	vial-A	SY/MD	Ok
20	P5279-03	ROCKAWAY-PARK	VY020641.D	18 Dec 2024 17:14	vial-A NOT PURGE	SY/MD	Not Ok
21	P5299-01	SB-01	VY020642.D	18 Dec 2024 17:38	vial-A	SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY020643.D	18 Dec 2024 18:00		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133976

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
P5245-03	72-12016	1	1.15	8.37	9.52	8.99	93.7	
P5299-01	SB-01	2	1.15	8.40	9.55	7.74	78.5	
P5299-02	SB-02	3	1.16	8.70	9.86	7.73	75.5	
P5299-03	SB-01	33	1.13	8.61	9.74	7.05	68.8	
P5299-04	SB-02	4	1.15	8.75	9.9	8.08	79.2	
P5306-01	OU4-VSL-07-121224	5	1.16	8.52	9.68	8.9	90.8	
P5306-03	OU4-VSL-08-121224	6	1.17	8.73	9.9	9.1	90.8	
P5306-05	OU4-VSL-09-121224	7	1.19	8.45	9.64	8.8	90.1	
P5306-07	OU4-VSL-10-121224	8	1.15	8.65	9.8	9.37	95.0	
P5306-09	OU4-VSL-11-121224	9	1.11	8.77	9.88	9.32	93.6	
P5306-11	OU4-VSL-12-121224	10	1.12	8.65	9.77	8.97	90.8	
P5306-13	OU4-VSL-13-121224	11	1.13	8.72	9.85	8.98	90.0	
P5306-15	OU4-VSL-14-121224	12	1.18	8.46	9.64	9.29	95.9	
P5306-17	OU4-VSL-06R-121224	13	1.15	8.80	9.95	9.22	91.7	
P5307-01	1A-1B-1C-ROOF-2	14	1.00	1.00	2.00	2.00	100.0	caluk
P5307-02	2A-2B-2C-ROOF-2	15	1.00	1.00	2.00	2.00	100.0	caluk
P5307-03	3A-3B-3C-1907	16	1.00	1.00	2.00	2.00	100.0	caluk
P5307-04	4A-4B-4C-1907	17	1.00	1.00	2.00	2.00	100.0	caluk
P5307-05	5A-5B-5C-1907	18	1.00	1.00	2.00	2.00	100.0	caluk
P5307-06	6A-6B-6C-1952	19	1.00	1.00	2.00	2.00	100.0	caluk
P5307-07	1907-BLDG-GRAY	20	1.00	1.00	2.00	2.00	100.0	caluk
P5307-08	1952-BLDG	21	1.00	1.00	2.00	2.00	100.0	caluk
P5307-09	9A-9B-9C-1907	22	1.00	1.00	2.00	2.00	100.0	caluk
P5307-10	1907-BLDG-OFF-WHITE	23	1.00	1.00	2.00	2.00	100.0	caluk
P5307-11	11A-11B-11C-1952-BLDG	24	1.00	1.00	2.00	2.00	100.0	caluk
P5307-12	12A-12B-12C-1952	25	1.00	1.00	2.00	2.00	100.0	caluk
P5307-13	13A-13B-13C-1952	26	1.00	1.00	2.00	2.00	100.0	caluk
P5307-14	14A-14B-14C-1907	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133976

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
P5307-15	15A-15B-15C-ROOF-7	28	1.00	1.00	2.00	2.00	100.0	caluk
P5312-01	SOIL-VNJ-222	29	1.15	8.43	9.58	8.55	87.8	
P5312-02	SOIL-VNJ-222	30	1.12	8.66	9.78	9.35	95.0	
P5312-03	CONCRETE-VNJ-222	31	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P5312-04	CONCRETE-VNJ-222	32	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

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

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO.
QUOTE NO. P5299
COC Number 2041521

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adams Ave
CITY Audobon STATE: PA ZIP: 19405
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Relacement of SB
PROJECT NO: 15000318 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@PEMSYS.COM
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield st
CITY Mountainside STATE: NJ ZIP: 07093
ATTENTION: Samantha Beasley PHONE: 908-788-3148

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 DAYS

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 VOC's + TICs
2 TCL SVOCs + TICs
3 ~~TAL Metals~~ PCBs
4 TAL metals
5 Cr (III)
6 Cr (VI)
7 EDH
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1. B-124	SB-01	S		X	12/14	9:14 PM	5		X	X	X	X	X	X	X			
2. B-124	SB02				12/15	10:17AM	6		X	X	X	X	X	X	X			
3. B-134	SB-01				12/15	4:02 PM	6		X	X	X	X	X	X	X			
4. B-134	SB-02				12/15	5:27 PM	6		X	X	X	X	X	X	X			
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. Dylan Grama	1100 12-16-24	1. 1100 12-16-24
2.		2.
3.	1700 12-16-24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.5 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH 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 : P5299 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 12/16/2024 12:24:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 12/16/2024 11:00:00 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
P5299-01	SB-01	Solid	12/14/2024	16:14					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P5299-02	SB-02	Solid	12/15/2024	10:17					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P5299-03	SB-01	Solid	12/15/2024	16:02					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P5299-04	SB-02	Solid	12/15/2024	17:27					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 12/17/24 0900

Received By :
Date / Time : 12.17.24 09:00

Storage Area : VOA Refridgerator Room