

Cover Page

Order ID : P4718

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number

P4718-01
P4718-02
P4718-03
P4718-04
P4718-05

Client Sample Number

WB-307-SB01
WB-307-SB02
WB-307-SB02
WB-307-SW
TB-11042024

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: 11/15/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4718

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: SHREENA PATEL

Date: 11/15/2024

LAB CHRONICLE

OrderID:	P4718	OrderDate:	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	WB-307-SB01	SOIL	VOC-TCLVOA-10	8260D	11/04/24		11/08/24	11/05/24
P4718-02	WB-307-SB02	SOIL	VOC-TCLVOA-10	8260D	11/04/24		11/08/24	11/05/24
P4718-03	WB-307-SB02	TCLP	TCLP VOA	8260D	11/04/24		11/07/24	11/05/24
P4718-04	WB-307-SW	Water	VOC-TCLVOA-10	8260-Low	11/04/24		11/14/24	11/05/24
P4718-05	TB-11042024	Water	VOC-TCLVOA-10	8260-Low	11/04/24		11/14/24	11/05/24

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-307-SB01							
P4718-01	WB-307-SB01	SOIL	Acetone	7.50	J	5.40	21.5	ug/Kg
P4718-01	WB-307-SB01	SOIL	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
P4718-01	WB-307-SB01	SOIL	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
			Total Voc :	15.3				
			Total Concentration:	15.3				
Client ID:	WB-307-SB02							
P4718-02	WB-307-SB02	SOIL	Acetone	5.90	J	5.10	20.2	ug/Kg
P4718-02	WB-307-SB02	SOIL	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
			Total Voc :	9.70				
			Total Concentration:	9.70				



QC SUMMARY

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4718-01	WB-307-SB01	1,2-Dichloroethane-d4	50	60.7	121	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	49.3	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94	70 (29)	130 (146)
P4718-02	WB-307-SB02	1,2-Dichloroethane-d4	50	63.1	126	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	49.0	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.5	95	70 (29)	130 (146)
VY1108SBL01	VY1108SBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.6	101	70 (54)	130 (147)
		Toluene-d8	50	48.3	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.7	89	70 (29)	130 (146)
VY1108SBS01	VY1108SBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100	70 (29)	130 (146)
VY1108SBSD01	VY1108SBSD01	1,2-Dichloroethane-d4	50	57.8	116	70 (50)	130 (163)
		Dibromofluoromethane	50	55.4	111	70 (54)	130 (147)
		Toluene-d8	50	54.3	109	70 (58)	130 (134)
		4-Bromofluorobenzene	50	55.5	111	70 (29)	130 (146)

Surrogate Summary

SDG No.: **P4718**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4718-04	WB-307-SW	1,2-Dichloroethane-d4	50	47.8	96	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	46.2	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.2	92	70 (77)	130 (121)
P4718-05	TB-11042024	1,2-Dichloroethane-d4	50	48.2	96	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	46.0	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94	70 (77)	130 (121)
VN1114WBL01	VN1114WBL01	1,2-Dichloroethane-d4	50	51.0	102	70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104	70 (75)	130 (124)
		Toluene-d8	50	46.3	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VN1114WBS02	VN1114WBS02	1,2-Dichloroethane-d4	50	46.6	93	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	49.0	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)
VN1114WBSD0	VN1114WBSD02	1,2-Dichloroethane-d4	50	49.6	99	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	102	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.4	103	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1114WBS02	Dichlorodifluoromethane	20	19.4	ug/L	97			40 (69)	160 (116)	
	Chloromethane	20	16.3	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	21.6	ug/L	108			70 (65)	130 (117)	
	Bromomethane	20	20.5	ug/L	103			40 (58)	160 (125)	
	Chloroethane	20	21.5	ug/L	108			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.9	ug/L	100			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.8	ug/L	94			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	17.3	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			70 (78)	130 (114)	
	Methyl Acetate	20	15.1	ug/L	76			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.0	ug/L	95			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.2	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	19.1	ug/L	96			70 (75)	130 (110)	
	2-Butanone	100	98.4	ug/L	98			40 (65)	160 (122)	
	Carbon Tetrachloride	20	22.2	ug/L	111			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	20.5	ug/L	103			70 (70)	130 (124)	
	Chloroform	20	20.2	ug/L	101			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	22.5	ug/L	113			70 (72)	130 (115)	
	Benzene	20	20.6	ug/L	103			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.7	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	21.2	ug/L	106			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.0	ug/L	105			70 (83)	130 (111)	
	Bromodichloromethane	20	20.5	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	21.6	ug/L	108			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.6	ug/L	108			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.1	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.1	ug/L	106			70 (82)	130 (109)	
	Ethyl Benzene	20	21.4	ug/L	107			70 (83)	130 (109)	
	m/p-Xylenes	40	43.2	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	22.6	ug/L	113			70 (83)	130 (109)	
	Styrene	20	22.0	ug/L	110			70 (80)	130 (111)	
	Bromoform	20	20.9	ug/L	104			70 (79)	130 (109)	
	Isopropylbenzene	20	21.3	ug/L	106			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1114WBS02	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1114WBSD02	Dichlorodifluoromethane	20	18.7	ug/L	94	3		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.7	ug/L	84	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	21.2	ug/L	106	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.8	ug/L	104	1		40 (58)	160 (125)	20 (20)
	Chloroethane	20	22.1	ug/L	111	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	2		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100	4		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.5	ug/L	98	4		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	10		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.2	ug/L	86	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.8	ug/L	109	7		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	16.8	ug/L	84	10		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.0	ug/L	100	4		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.4	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.7	ug/L	94	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	12		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.3	ug/L	106	5		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.4	ug/L	102	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.4	ug/L	112	8		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.7	ug/L	104	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.8	ug/L	104	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.8	ug/L	109	4		70 (72)	130 (115)	20 (20)
	Benzene	20	20.3	ug/L	102	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.3	ug/L	106	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.8	ug/L	104	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.2	ug/L	106	1		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.1	ug/L	106	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.8	ug/L	109	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.6	ug/L	103	0		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.2	ug/L	106	2		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.2	ug/L	111	3		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.5	ug/L	108	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.9	ug/L	110	1		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.1	ug/L	106	0		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.4	ug/L	107	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	43.6	ug/L	109	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	22.2	ug/L	111	2		70 (83)	130 (109)	20 (20)
	Styrene	20	21.7	ug/L	109	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	21.6	ug/L	108	4		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.8	ug/L	109	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104	7		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.4	ug/L	97	1		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.8	ug/L	104	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	19.4	ug/L	97	0		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1114WBSD02	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	5		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.4	ug/L	92	2		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.0	ug/L	90	3		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1108SBS01	Dichlorodifluoromethane	20	17.2	ug/Kg	86			40 (64)	160 (136)	
	Chloromethane	20	18.6	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.2	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.4	ug/Kg	107			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	17.1	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.8	ug/Kg	109			70 (77)	130 (129)	
	Methyl Acetate	20	20.8	ug/Kg	104			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Cyclohexane	20	18.5	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	19.9	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	18.5	ug/Kg	93			70 (77)	130 (123)	
	Benzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.7	ug/Kg	99			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.7	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.4	ug/Kg	102			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.1	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	m/p-Xylenes	40	40.6	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.0	ug/Kg	100			70 (83)	130 (123)	
	Styrene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	21.4	ug/Kg	107			70 (75)	130 (127)	
	Isopropylbenzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718
Client: Portal Partners Tri-Venture
Analytical Method: SW8260D **Datafile :** VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1108SBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/Kg	108			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1108SBSD01	Dichlorodifluoromethane	20	19.9	ug/Kg	100	15		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.8	ug/Kg	99	6		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	20.4	ug/Kg	102	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	21.2	ug/Kg	106	5		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	6		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	22.6	ug/Kg	113	5		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	21.1	ug/Kg	106	5		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.0	ug/Kg	90	5		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	23.6	ug/Kg	118	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.5	ug/Kg	123	17		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.4	ug/Kg	102	9		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.3	ug/Kg	102	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.5	ug/Kg	108	5		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	18		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	21.0	ug/Kg	105	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	17.7	ug/Kg	89	12		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.9	ug/Kg	110	4		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	6		70 (77)	130 (123)	30 (20)
	Benzene	20	20.8	ug/Kg	104	5		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	22.5	ug/Kg	113	10		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.1	ug/Kg	106	7		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.9	ug/Kg	110	7		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	22.2	ug/Kg	111	7		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	18		40 (70)	160 (135)	30 (20)
	Toluene	20	21.4	ug/Kg	107	7		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111	10		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	21.7	ug/Kg	109	7		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115	11		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	22.8	ug/Kg	114	9		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	22.5	ug/Kg	113	10		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.4	ug/Kg	107	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.5	ug/Kg	108	7		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.2	ug/Kg	106	7		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	42.5	ug/Kg	106	4		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.5	ug/Kg	108	8		70 (83)	130 (123)	30 (20)
	Styrene	20	21.8	ug/Kg	109	5		70 (82)	130 (124)	30 (20)
	Bromoform	20	23.6	ug/Kg	118	10		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.6	ug/Kg	108	5		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	22.7	ug/Kg	114	9		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108	4		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	22.0	ug/Kg	110	7		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718
Client: Portal Partners Tri-Venture
Analytical Method: SW8260D **Datafile :** VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1108SBSD01	1,2-Dibromo-3-Chloropropane	20	23.4	ug/Kg	117	8		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104	5		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.4	ug/Kg	102	6		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1114WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084844.D

Lab Sample ID: VN1114WBL01

Date Analyzed: 11/14/2024

Time Analyzed: 10:52

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024
TB-11042024	P4718-05	VN084851.D	11/14/2024
WB-307-SW	P4718-04	VN084853.D	11/14/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1108SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4718

SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020222.D

Lab Sample ID: VY1108SBL01

Date Analyzed: 11/08/2024

Time Analyzed: 10:40

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
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024
WB-307-SB01	P4718-01	VY020233.D	11/08/2024
WB-307-SB02	P4718-02	VY020234.D	11/08/2024

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VN084569.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VN084841.D BFB Injection Date: 11/14/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:53
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.9
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.4
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	73.3 (98.5) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 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	VN084842.D	11/14/2024	09:54
VN1114WBL01	VN1114WBL01	VN084844.D	11/14/2024	10:52
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024	12:50
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024	13:24
TB-11042024	P4718-05	VN084851.D	11/14/2024	14:59
WB-307-SW	P4718-04	VN084853.D	11/14/2024	15:47



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VY020074.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_Y BFB Injection Time: 12:07
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	24
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY020075.D	10/30/2024	12:39
VSTDIC010	VSTDIC010	VY020076.D	10/30/2024	13:02
VSTDIC020	VSTDIC020	VY020077.D	10/30/2024	13:24
VSTDIC050	VSTDIC050	VY020078.D	10/30/2024	14:06
VSTDIC100	VSTDIC100	VY020079.D	10/30/2024	14:29
VSTDIC150	VSTDIC150	VY020080.D	10/30/2024	14:52



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VY020220.D BFB Injection Date: 11/08/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:45
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	23
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	72.6 (98.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.6) 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	VY020221.D	11/08/2024	09:33
VY1108SBL01	VY1108SBL01	VY020222.D	11/08/2024	10:40
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024	11:19
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024	11:41
WB-307-SB01	P4718-01	VY020233.D	11/08/2024	15:12
WB-307-SB02	P4718-02	VY020234.D	11/08/2024	15:35

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
 Lab File ID: VN084842.D Date Analyzed: 11/14/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:54
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	192160	8.22	316615	9.09	272995	11.87
UPPER LIMIT	384320	8.718	633230	9.594	545990	12.365
LOWER LIMIT	96080	7.718	158308	8.594	136498	11.365
EPA SAMPLE NO.						
WB-307-SW	203676	8.22	345476	9.09	299825	11.87
TB-11042024	193262	8.22	335586	9.10	288886	11.87
VN1114WBL01	203029	8.22	340637	9.09	293869	11.86
VN1114WBS02	169550	8.22	270058	9.09	234639	11.87
VN1114WBSD02	161141	8.22	263729	9.10	229436	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
 Lab File ID: VN084842.D Date Analyzed: 11/14/2024
 Instrument ID: MSVOA_N Time Analyzed: 09:54
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	137639	13.788				
UPPER LIMIT	275278	14.288				
LOWER LIMIT	68819.5	13.288				
EPA SAMPLE NO.						
WB-307-SW	136300	13.79				
TB-11042024	136820	13.79				
VN1114WBL01	131669	13.79				
VN1114WBS02	118912	13.79				
VN1114WBSD02	112382	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab File ID: VY020221.D Date Analyzed: 11/08/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:33
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	282936	7.71	514187	8.62	441792	11.42
UPPER LIMIT	565872	8.213	1028370	9.116	883584	11.92
LOWER LIMIT	141468	7.213	257094	8.116	220896	10.92
EPA SAMPLE NO.						
WB-307-SB01	200375	7.71	415302	8.62	374550	11.41
WB-307-SB02	200262	7.71	428332	8.62	399084	11.41
VY1108SBL01	212436	7.71	452508	8.62	403401	11.42
VY1108SBS01	263593	7.71	480169	8.62	412478	11.41
VY1108SBSD01	271139	7.71	485080	8.62	417238	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
 Lab File ID: VY020221.D Date Analyzed: 11/08/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:33
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	208354	13.353				
UPPER LIMIT	416708	13.853				
LOWER LIMIT	104177	12.853				
EPA SAMPLE NO.						
WB-307-SB01	128433	13.35				
WB-307-SB02	136217	13.35				
VY1108SBL01	137264	13.35				
VY1108SBS01	187903	13.35				
VY1108SBSD01	193395	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.78	U	0.78	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	7.50	J	5.40	21.5	ug/Kg
75-15-0	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.30	ug/Kg
75-09-2	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.52	U	0.52	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.52	U	0.52	4.30	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	21.5	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	11/05/24	
Client Sample ID:	WB-307-SB01		SDG No.:	P4718	
Lab Sample ID:	P4718-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	78	
Sample Wt/Vol:	7.46	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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.76	U	0.76	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		70 (50) - 130 (163)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	415000	8.615			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VY110824\
 Data File : VY020233.D
 Acq On : 08 Nov 2024 15:12
 Operator : SY/MD
 Sample : P4718-01
 Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

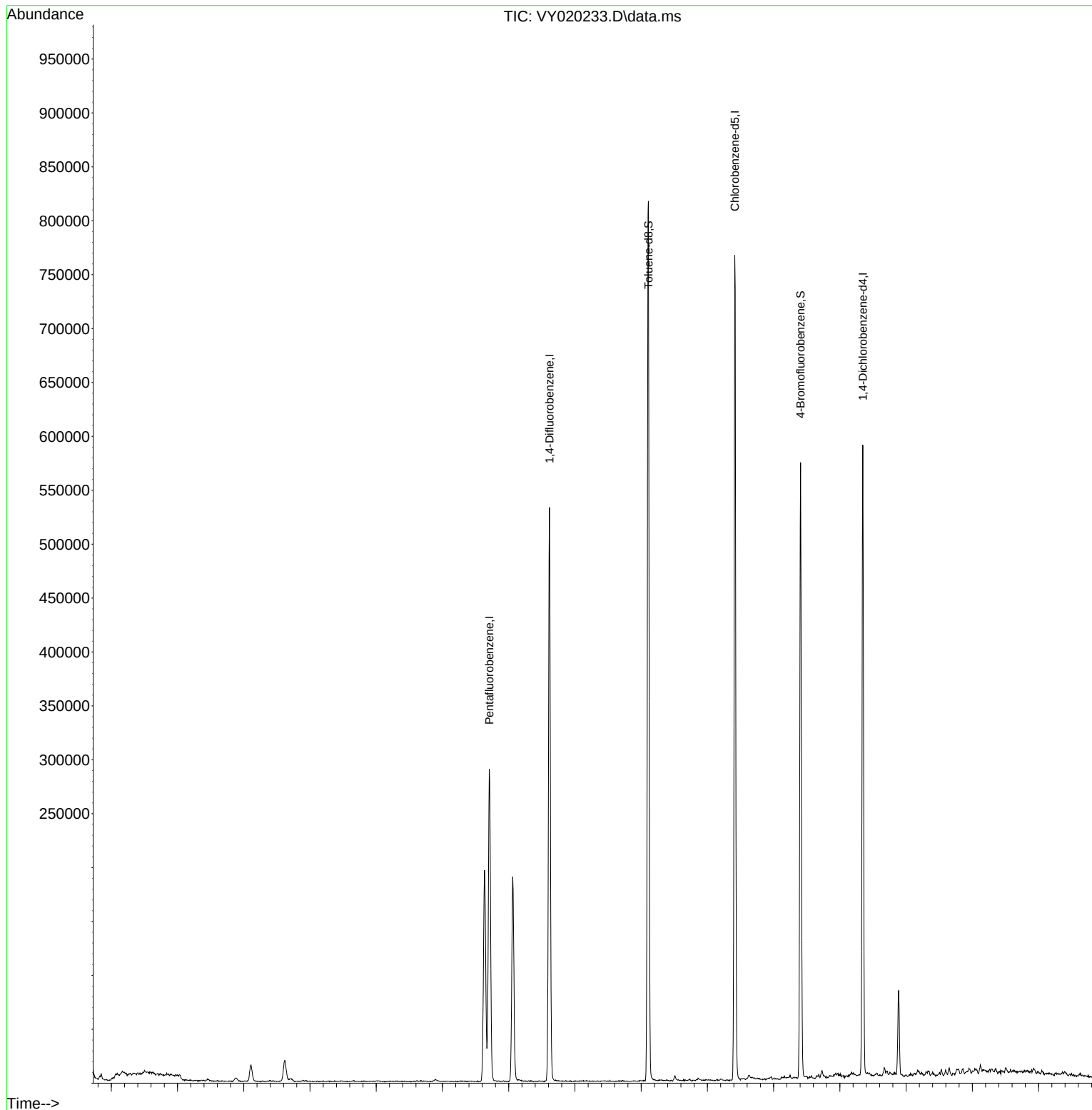
Internal Standards						
1) Pentafluorobenzene	7.707	168	200375	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	415302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	374550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151753	60.682	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.360%	
35) Dibromofluoromethane	7.634	113	138097	52.300	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.600%	
50) Toluene-d8	10.109	98	518276	49.311	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.620%	
62) 4-Bromofluorobenzene	12.407	95	160323	46.962	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 93.920%	
Target Compounds						
						Qvalue
16) Acetone	3.891	43	5109	8.785	ug/l	# 63
17) Carbon Disulfide	4.110	76	29580	4.111	ug/l	99
20) Methylene Chloride	4.622	84	13173	5.042	ug/l	# 83

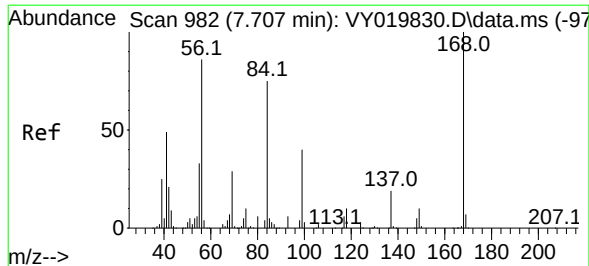
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

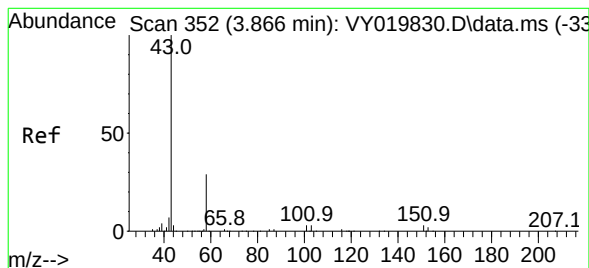
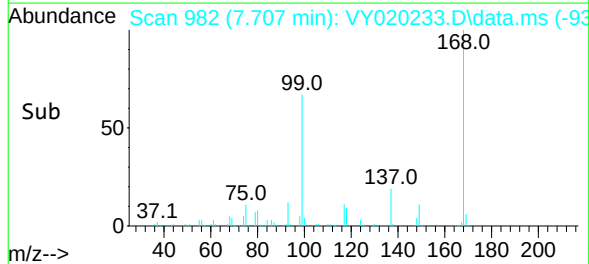
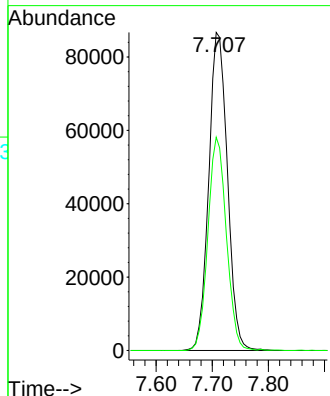
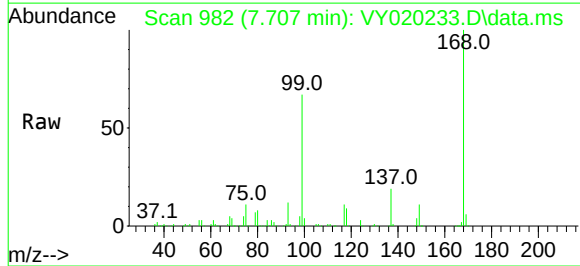




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

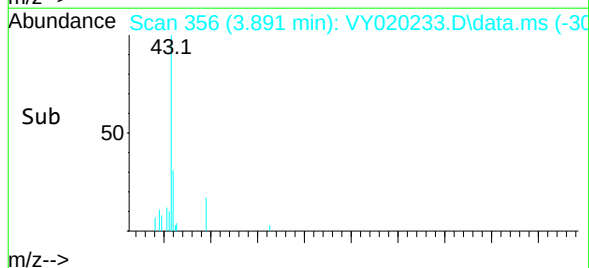
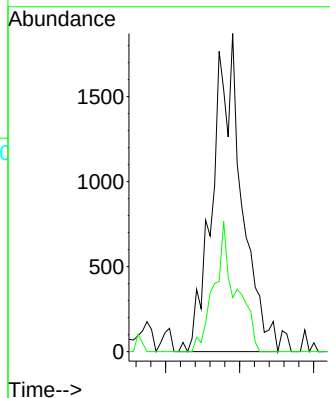
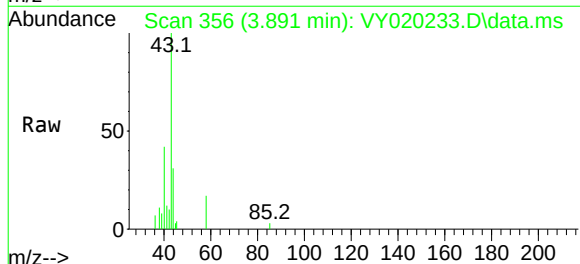
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

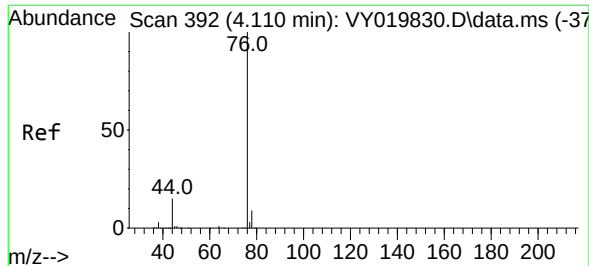
Tgt Ion: 168 Resp: 200375
Ion Ratio Lower Upper
168 100
99 67.1 39.1 58.7#



#16
Acetone
Concen: 8.785 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 43 Resp: 5109
Ion Ratio Lower Upper
43 100
58 17.0 31.7 47.5#





#17

Carbon Disulfide

Concen: 4.111 ug/l

RT: 4.110 min Scan# 39

Delta R.T. 0.006 min

Lab File: VY020233.D

Acq: 08 Nov 2024 15:12

Instrument :

MSVOA_Y

ClientSampleId :

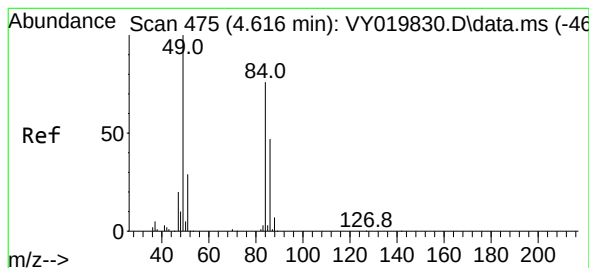
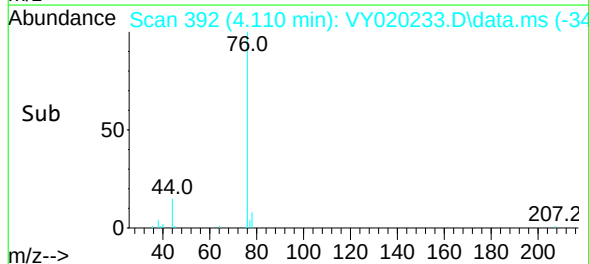
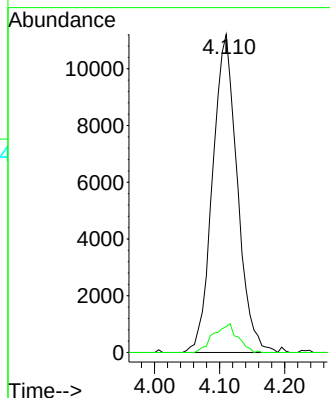
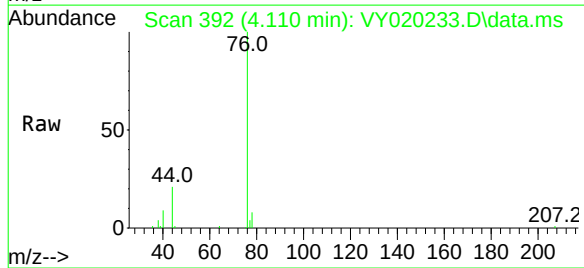
WB-307-SB01

Tgt Ion: 76 Resp: 29580

Ion Ratio Lower Upper

76 100

78 8.1 6.8 10.2



#20

Methylene Chloride

Concen: 5.042 ug/l

RT: 4.622 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY020233.D

Acq: 08 Nov 2024 15:12

Tgt Ion: 84 Resp: 13173

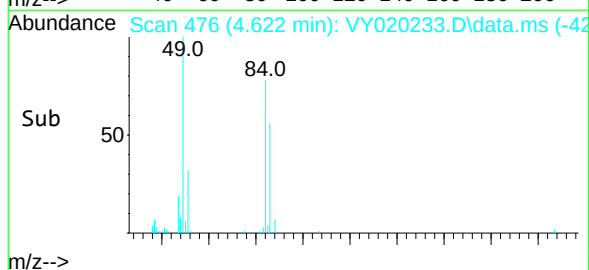
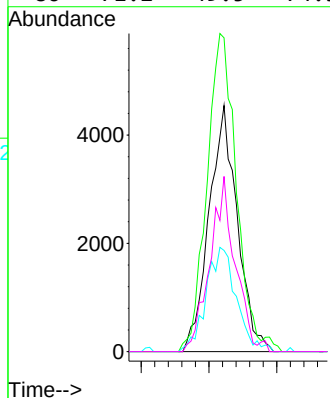
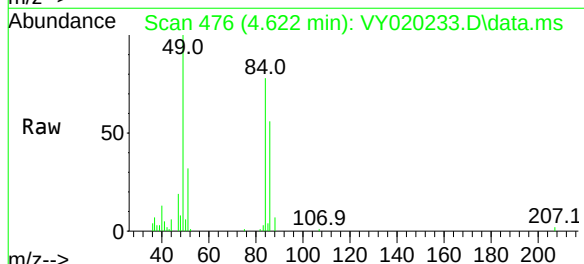
Ion Ratio Lower Upper

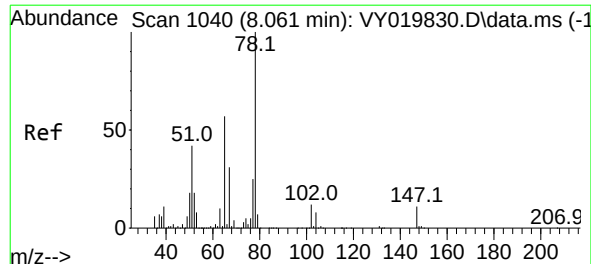
84 100

49 127.5 84.4 126.6#

51 41.1 26.0 39.0#

86 71.2 49.5 74.3

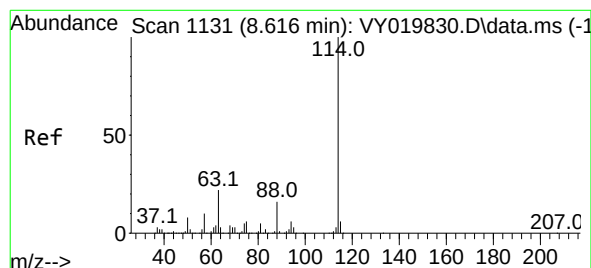
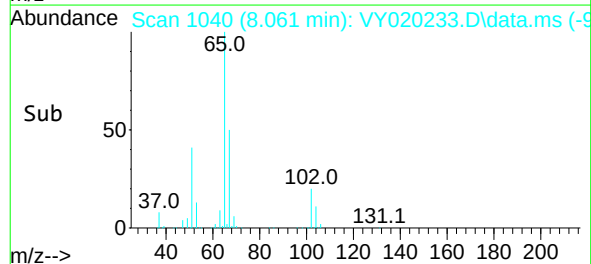
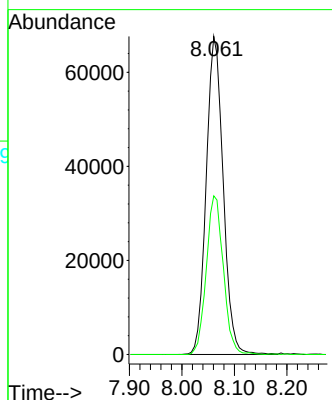
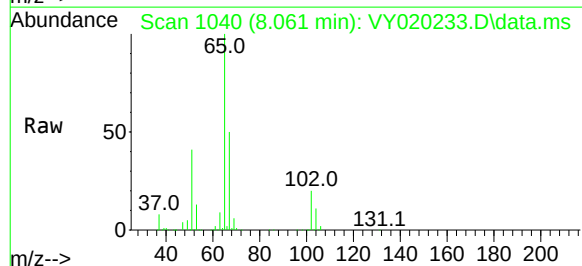




#33
1,2-Dichloroethane-d4
Concen: 60.682 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

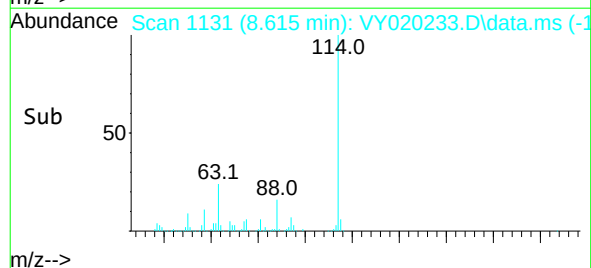
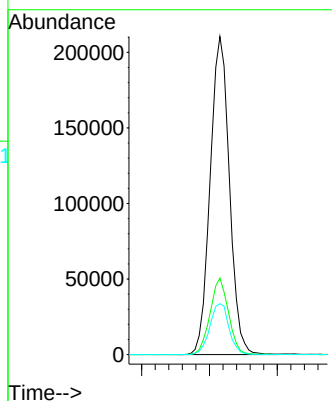
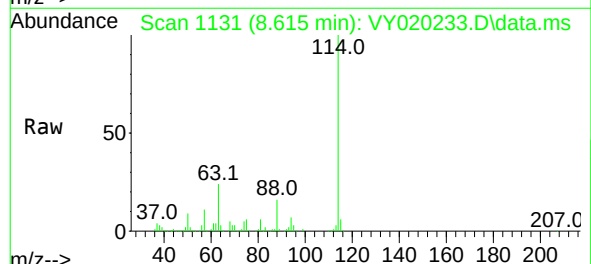
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

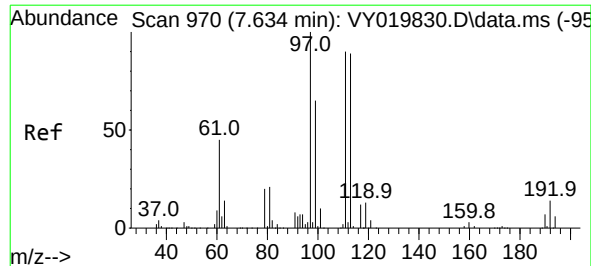
Tgt Ion: 65 Resp: 151753
Ion Ratio Lower Upper
65 100
67 50.1 0.0 109.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 114 Resp: 415302
Ion Ratio Lower Upper
114 100
63 24.1 0.0 35.0
88 16.0 0.0 27.2





#35

Dibromofluoromethane

Concen: 52.300 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020233.D

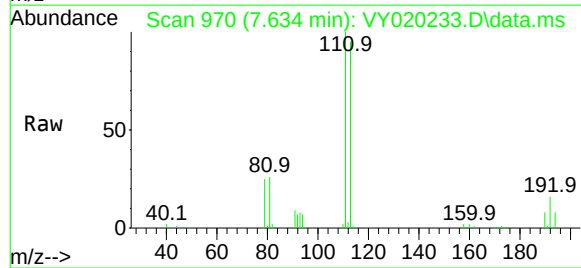
Acq: 08 Nov 2024 15:12

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB01



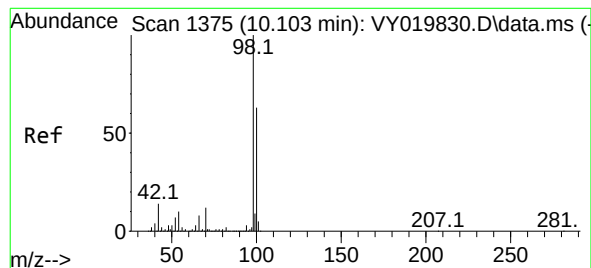
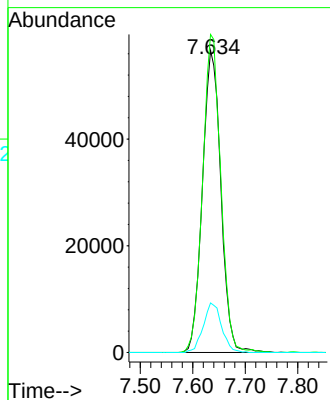
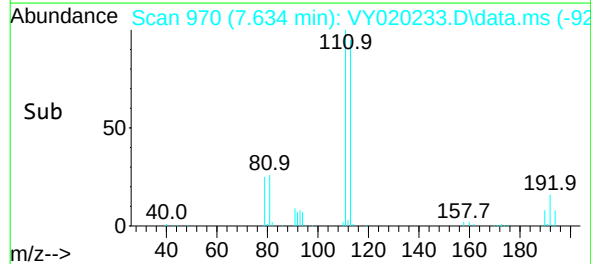
Tgt Ion:113 Resp: 138097

Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

192 16.3 15.9 23.9



#50

Toluene-d8

Concen: 49.311 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY020233.D

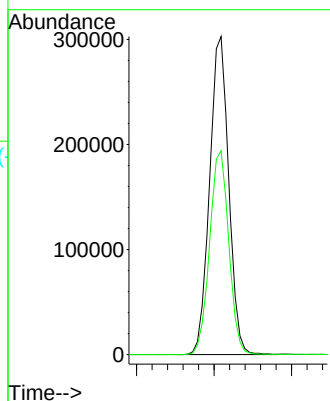
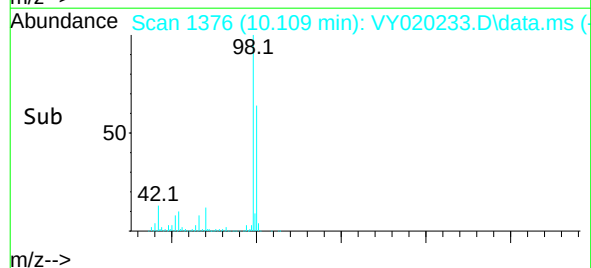
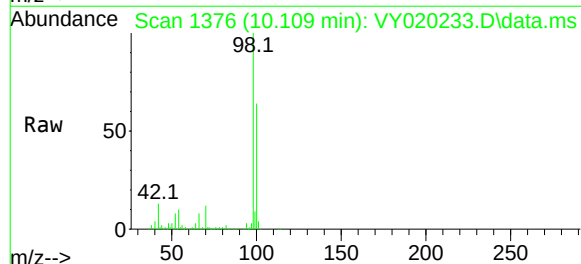
Acq: 08 Nov 2024 15:12

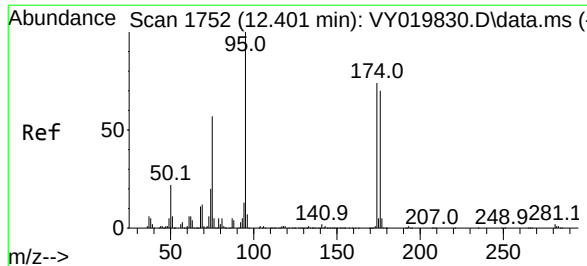
Tgt Ion: 98 Resp: 518276

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 46.962 ug/l

RT: 12.407 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY020233.D

Acq: 08 Nov 2024 15:12

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB01

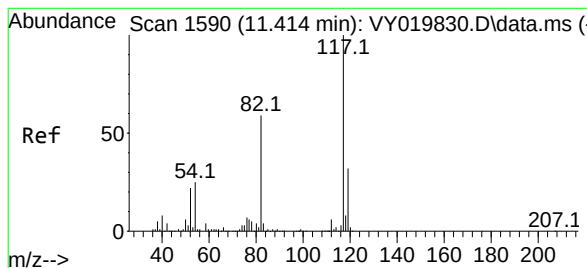
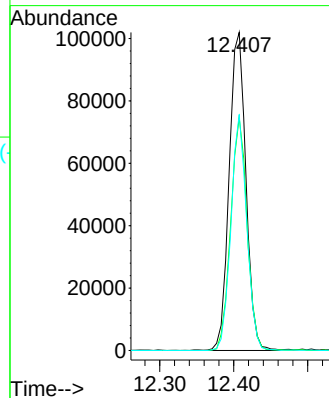
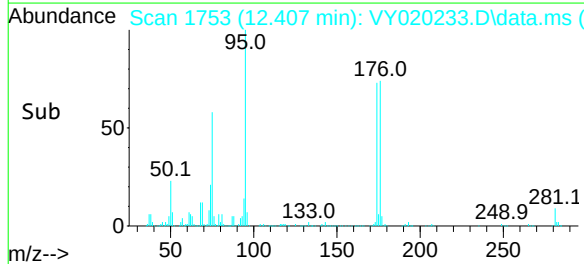
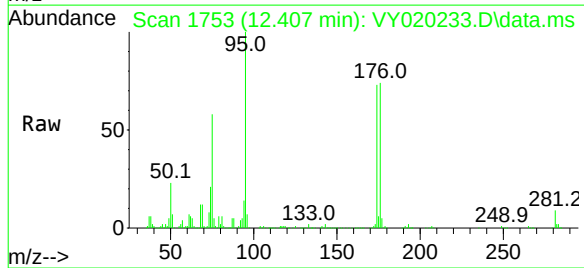
Tgt Ion: 95 Resp: 160323

Ion Ratio Lower Upper

95 100

174 71.6 0.0 175.6

176 69.6 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020233.D

Acq: 08 Nov 2024 15:12

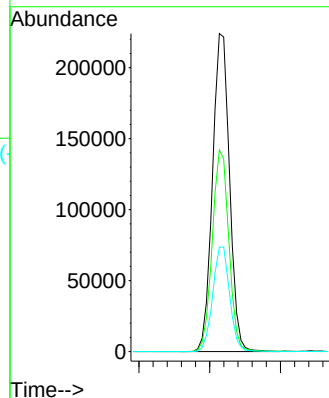
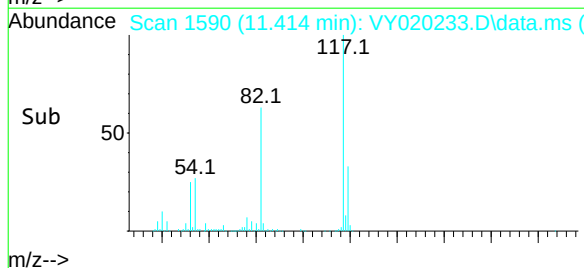
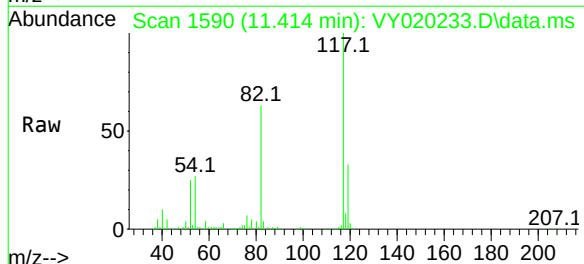
Tgt Ion: 117 Resp: 374550

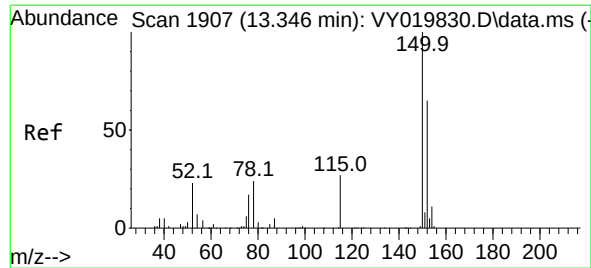
Ion Ratio Lower Upper

117 100

82 63.4 42.4 63.6

119 32.9 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 19

Delta R.T. 0.000 min

Lab File: VY020233.D

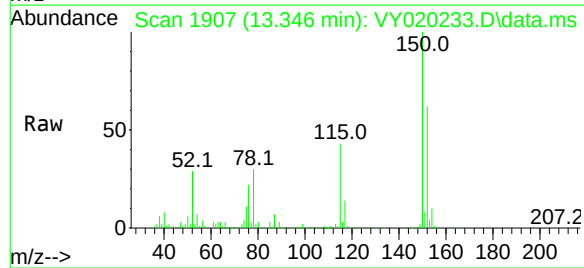
Acq: 08 Nov 2024 15:12

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB01



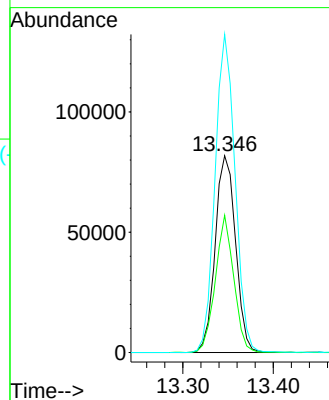
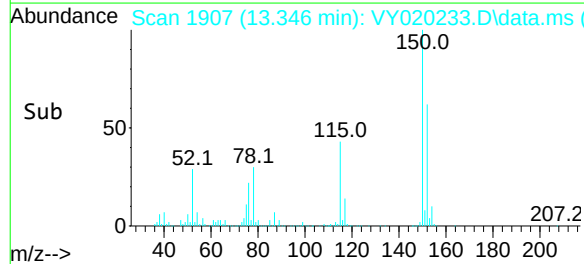
Tgt Ion:152 Resp: 128433

Ion Ratio Lower Upper

152 100

115 63.2 28.2 84.7

150 158.7 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020233.D
 Acq On : 08 Nov 2024 15:12
 Operator : SY/MD
 Sample : P4718-01
 Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-307-SB01

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Title : SW846 8260

Signal : TIC: VY020233.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	382	392	403	rBV2	15164	41548	2.89%	0.562%
2	4.622	464	476	485	rBV2	19313	60061	4.18%	0.812%
3	7.634	961	970	976	rBV	195879	470590	32.72%	6.366%
4	7.707	976	982	994	rVB	289307	669792	46.57%	9.060%
5	8.061	1030	1040	1053	rBV	190065	427315	29.71%	5.780%
6	8.615	1119	1131	1145	rBV	532669	1046034	72.73%	14.150%
7	10.109	1368	1376	1388	rBV	816255	1438304	100.00%	19.456%
8	11.414	1583	1590	1600	rBV	765257	1269686	88.28%	17.175%
9	12.407	1744	1753	1763	rBV2	571666	940488	65.39%	12.722%
10	13.346	1900	1907	1915	rBV	584463	898583	62.48%	12.155%
11	13.889	1989	1996	2003	rVB2	78299	130057	9.04%	1.759%

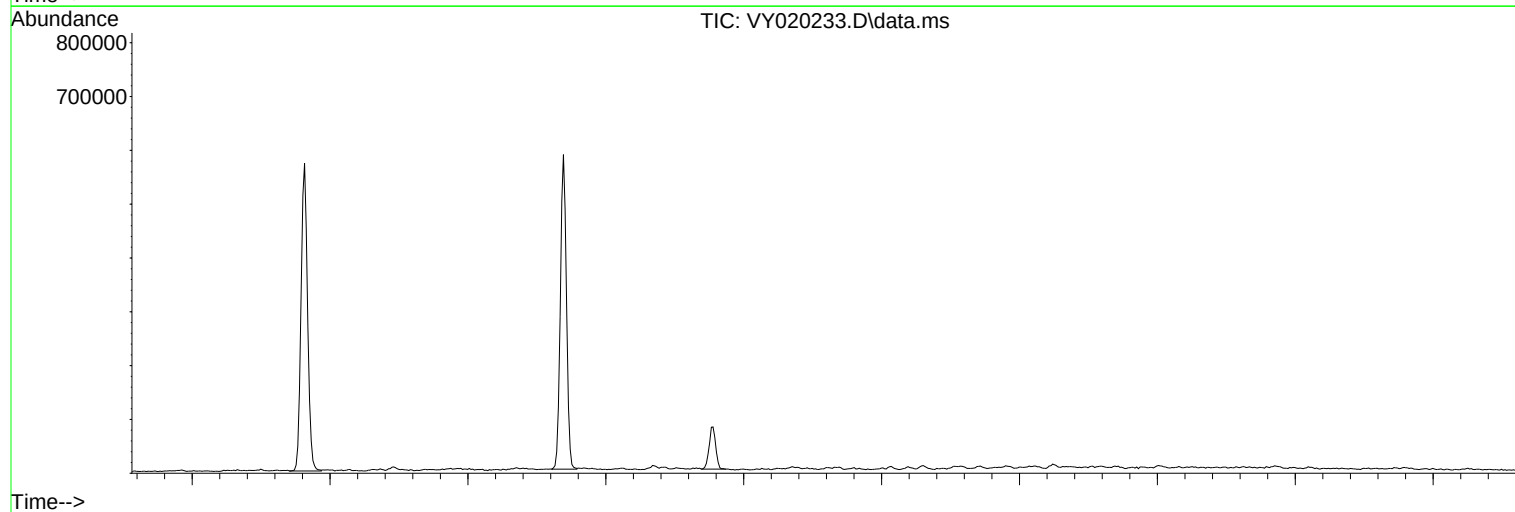
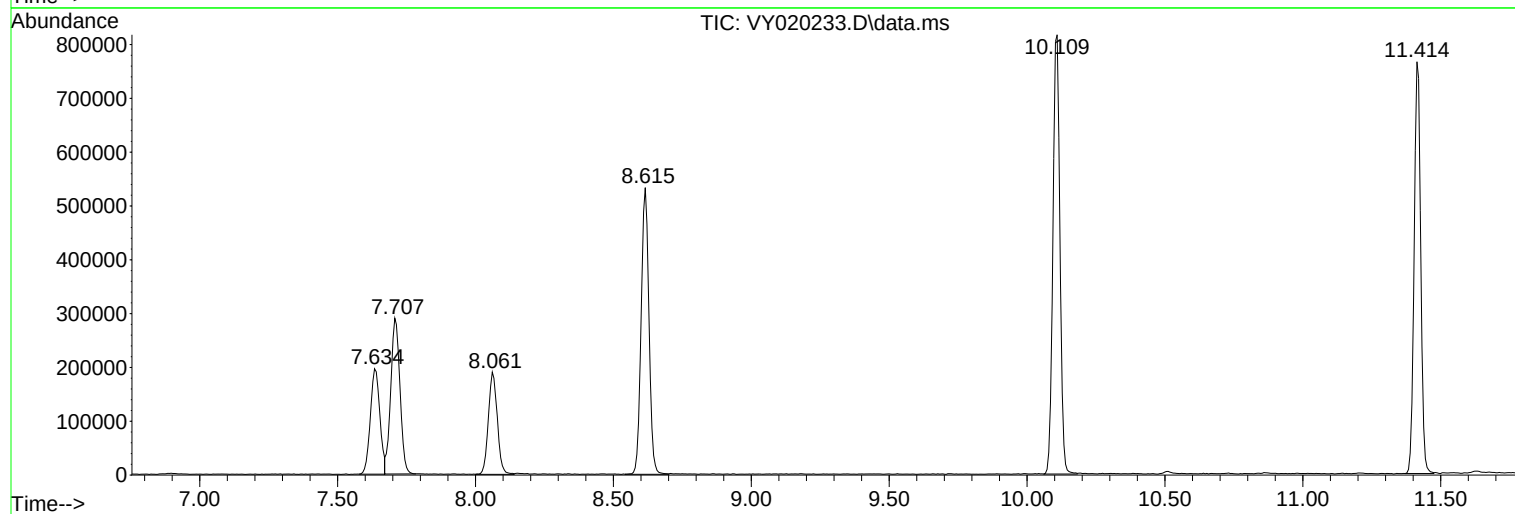
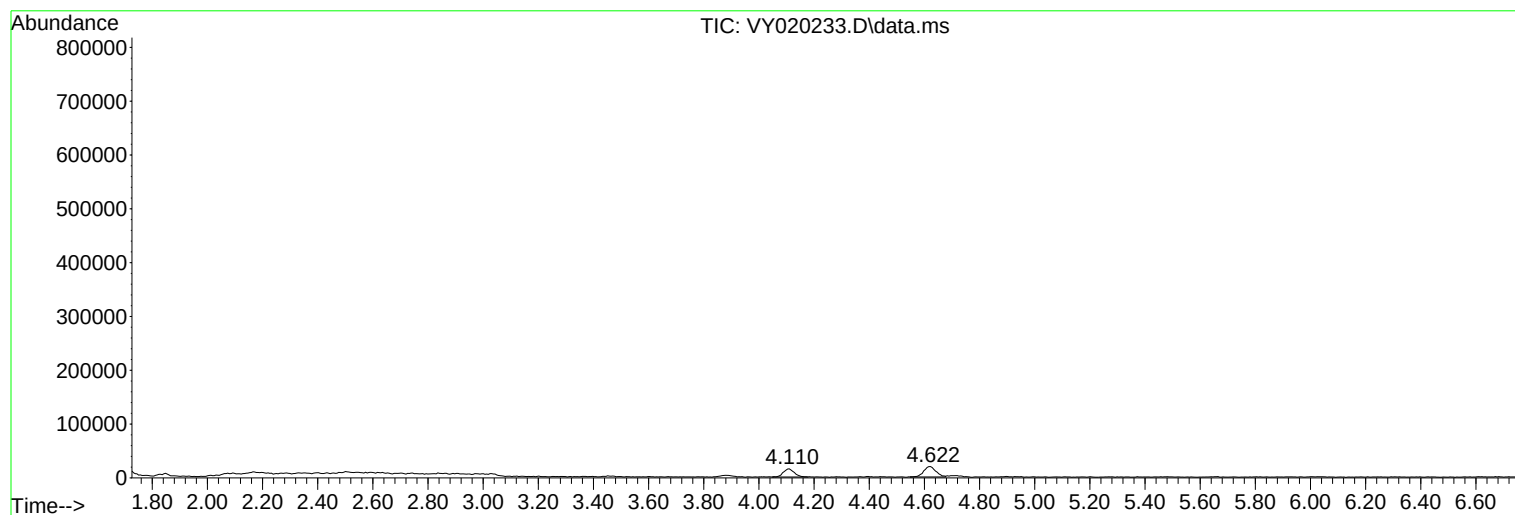
Sum of corrected areas: 7392458

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96	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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.00	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.00	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.00	ug/Kg
67-64-1	Acetone	5.90	J	5.10	20.2	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.00	ug/Kg
75-09-2	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.00	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.00	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.70	U	0.70	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.00	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.00	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	4.00	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.00	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.53	U	0.53	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.2	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	11/05/24	
Client Sample ID:	WB-307-SB02		SDG No.:	P4718	
Lab Sample ID:	P4718-02		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	77.6	
Sample Wt/Vol:	7.96	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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.00	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.00	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.00	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.00	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.1		70 (50) - 130 (163)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	428000	8.615			
3114-55-4	Chlorobenzene-d5	399000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/05/24	
Client Sample ID:	WB-307-SB02			SDG No.:	P4718	
Lab Sample ID:	P4718-02			Matrix:	SOIL	
Analytical Method:	SW8260			% Solid:	77.6	
Sample Wt/Vol:	7.96	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
VY020234.D	1		11/08/24 15:35	VY110824

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\VY110824\
 Data File : VY020234.D
 Acq On : 08 Nov 2024 15:35
 Operator : SY/MD
 Sample : P4718-02
 Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

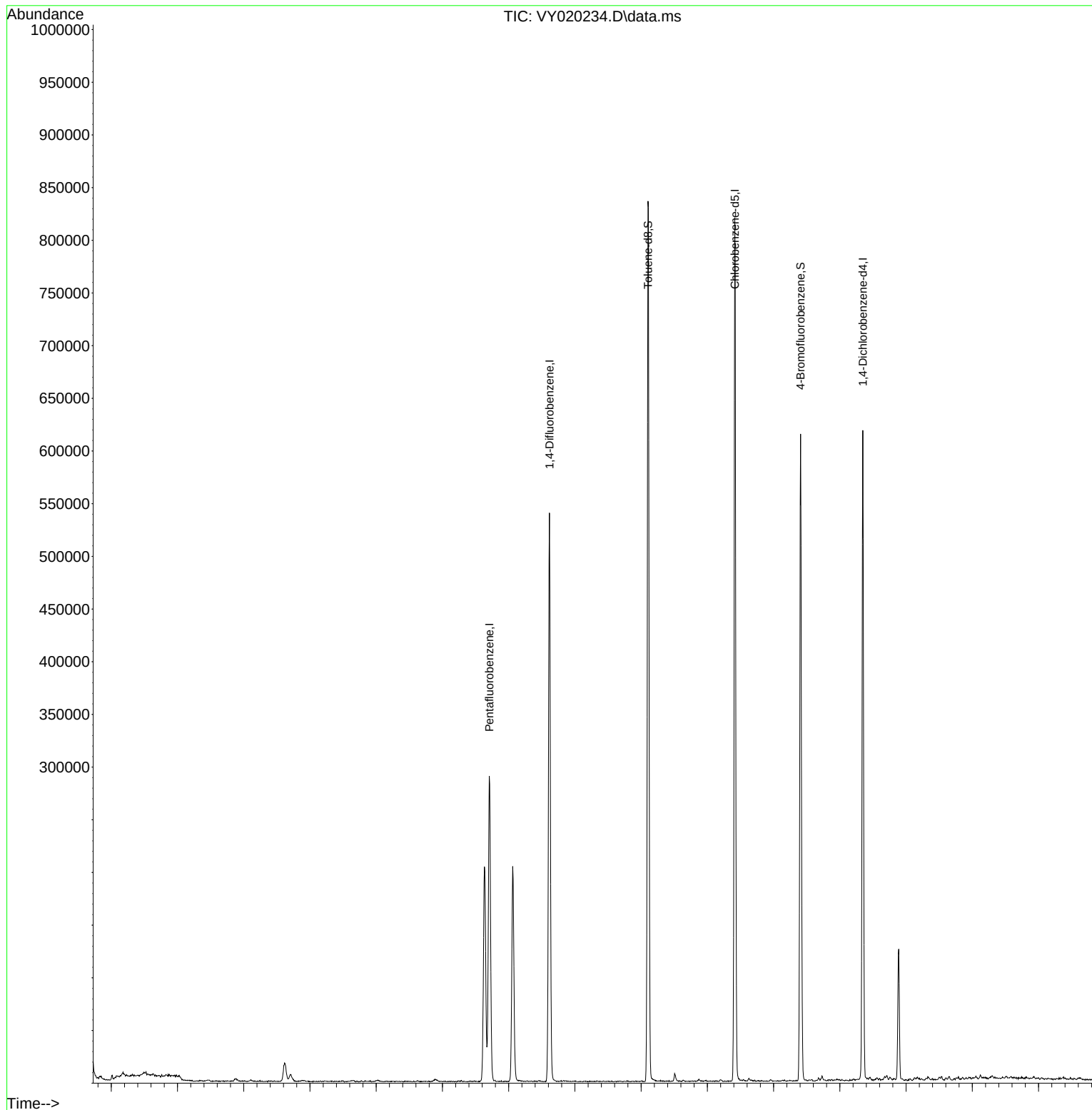
Internal Standards						
1) Pentafluorobenzene	7.707	168	200262	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	428332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	399084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	136217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	157720	63.103	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	126.200%
35) Dibromofluoromethane	7.634	113	140994	51.773	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.540%
50) Toluene-d8	10.103	98	531619	49.042	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.080%
62) 4-Bromofluorobenzene	12.408	95	167289	47.512	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	95.020%
Target Compounds						
16) Acetone	3.885	43	4260	7.329	ug/l	# 81
20) Methylene Chloride	4.616	84	12182	4.665	ug/l	# 82

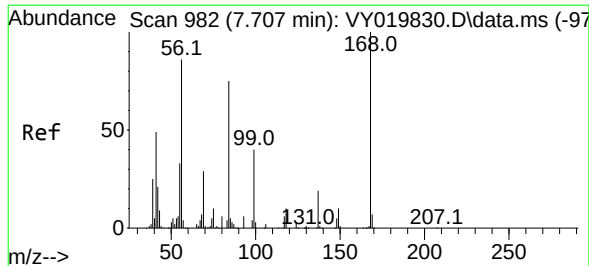
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

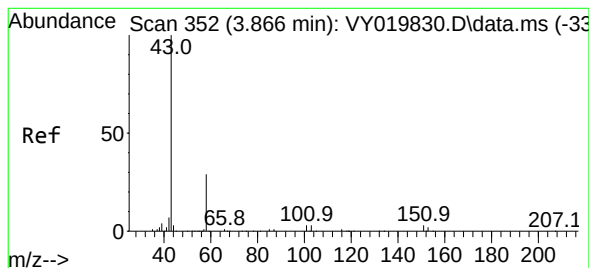
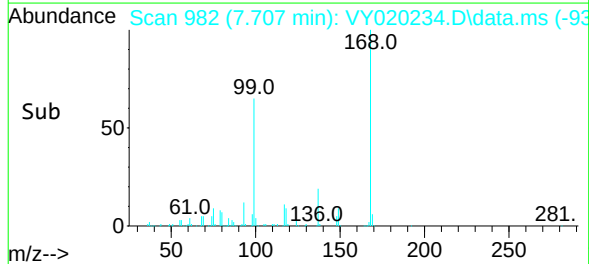
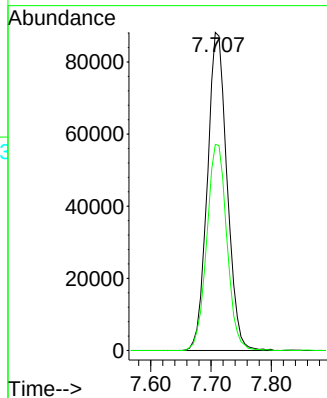
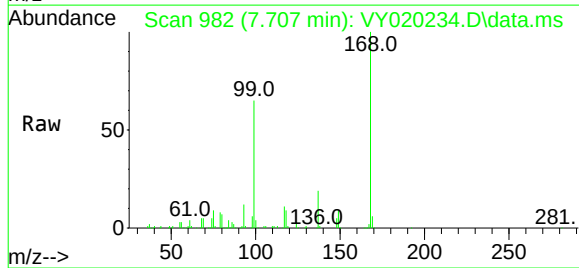




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

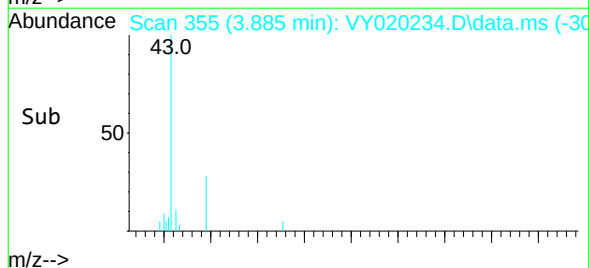
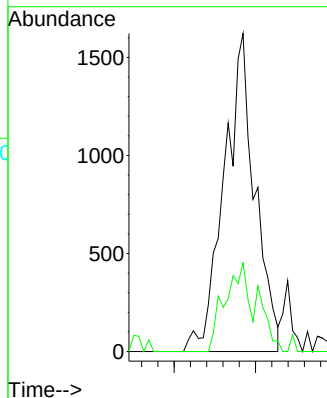
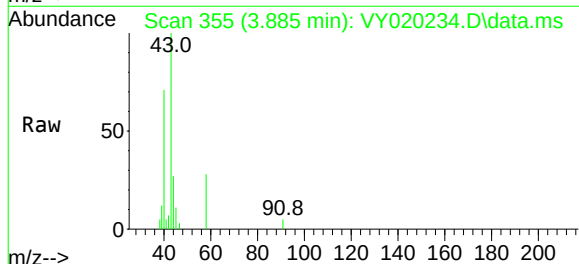
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

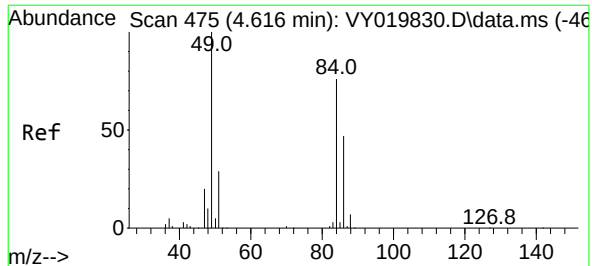
Tgt Ion: 168 Resp: 200262
Ion Ratio Lower Upper
168 100
99 64.8 39.1 58.7#



#16
Acetone
Concen: 7.329 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 43 Resp: 4260
Ion Ratio Lower Upper
43 100
58 27.9 31.7 47.5#





#20

Methylene Chloride

Concen: 4.665 ug/l

RT: 4.616 min Scan# 47

Delta R.T. 0.000 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB02

Tgt Ion: 84 Resp: 12182

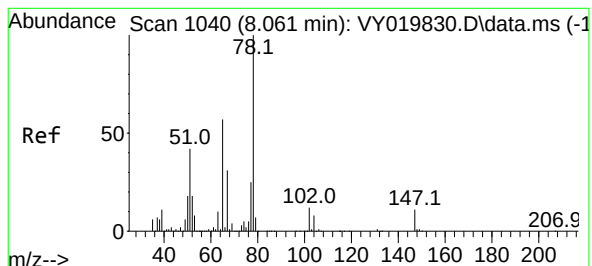
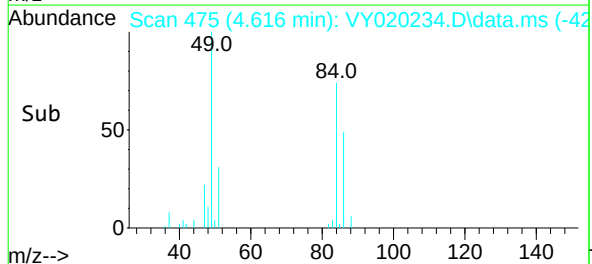
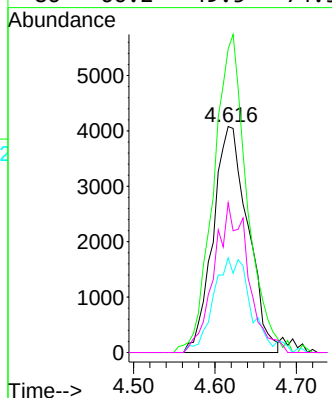
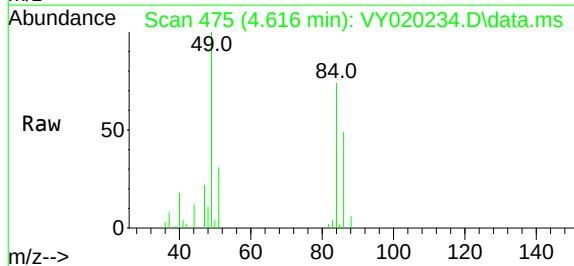
Ion Ratio Lower Upper

84 100

49 131.8 84.4 126.6#

51 41.9 26.0 39.0#

86 66.2 49.5 74.3



#33

1,2-Dichloroethane-d4

Concen: 63.103 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY020234.D

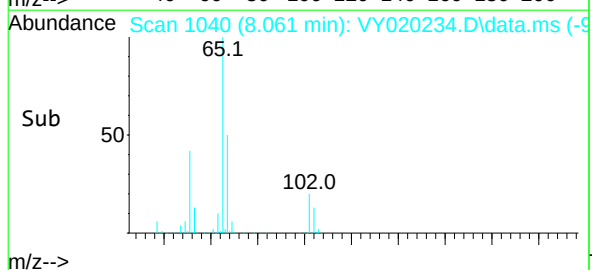
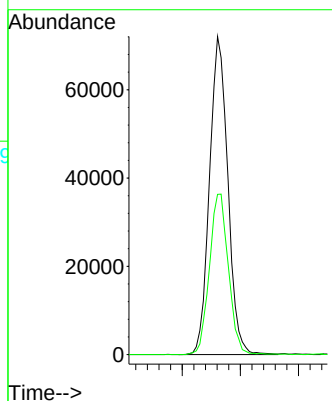
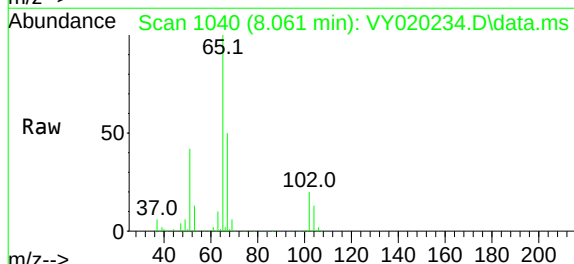
Acq: 08 Nov 2024 15:35

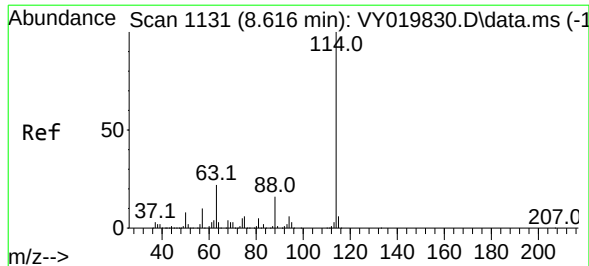
Tgt Ion: 65 Resp: 157720

Ion Ratio Lower Upper

65 100

67 52.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB02

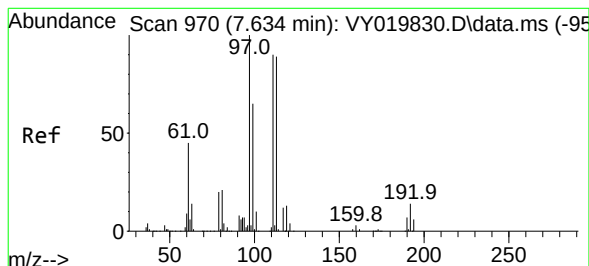
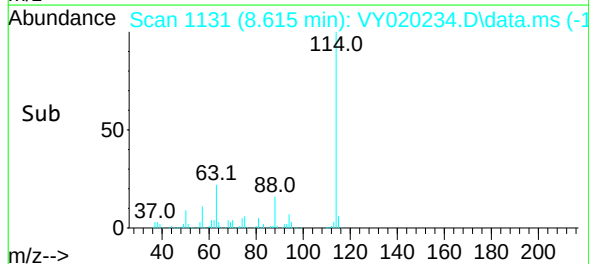
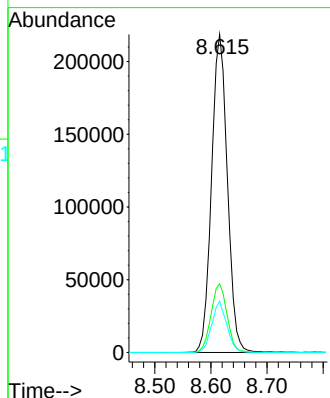
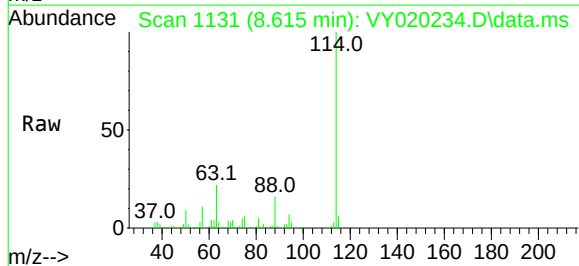
Tgt Ion:114 Resp: 428332

Ion Ratio Lower Upper

114 100

63 21.6 0.0 35.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 51.773 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

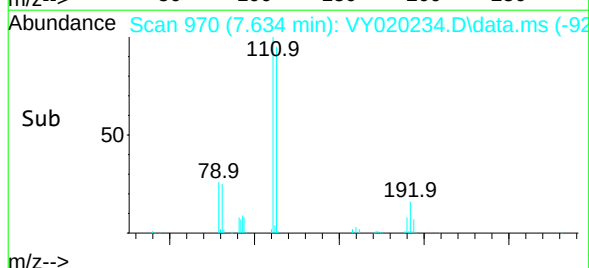
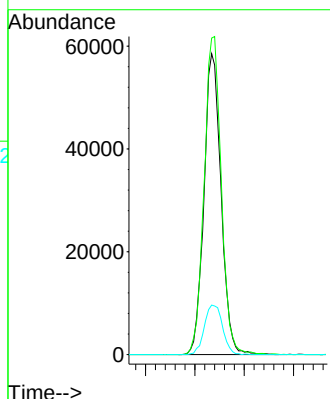
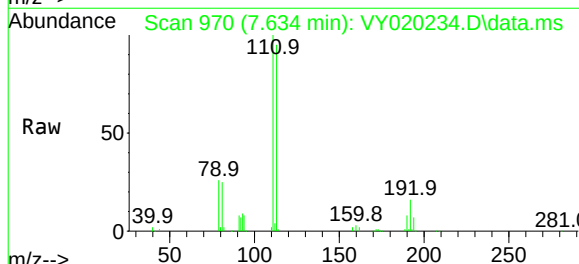
Tgt Ion:113 Resp: 140994

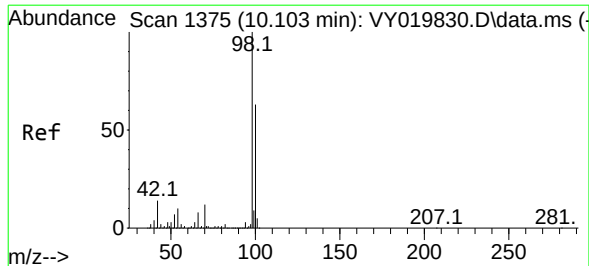
Ion Ratio Lower Upper

113 100

111 106.2 82.2 123.4

192 17.5 15.9 23.9





#50

Toluene-d8

Concen: 49.042 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

Instrument :

MSVOA_Y

ClientSampleId :

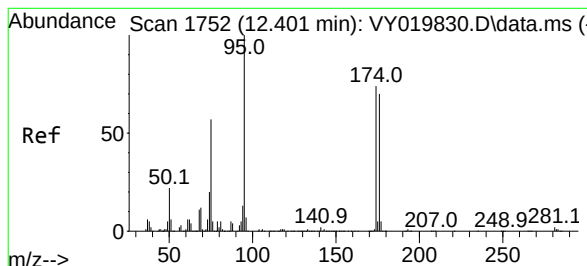
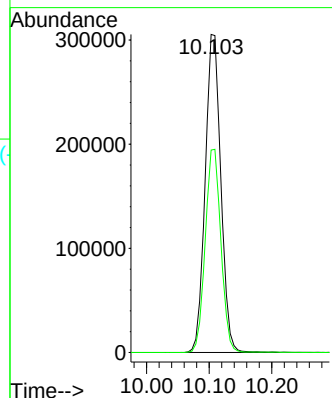
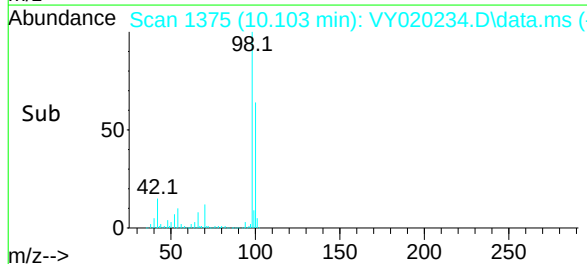
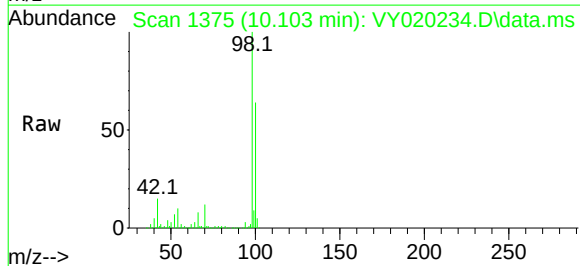
WB-307-SB02

Tgt Ion: 98 Resp: 531619

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 47.512 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

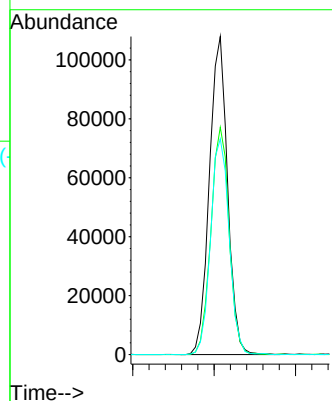
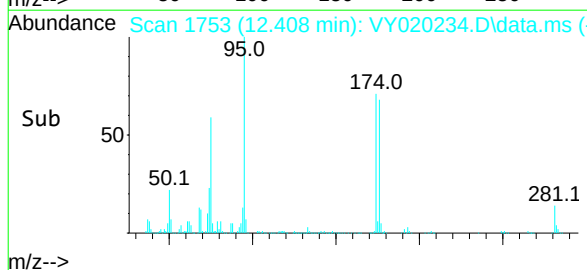
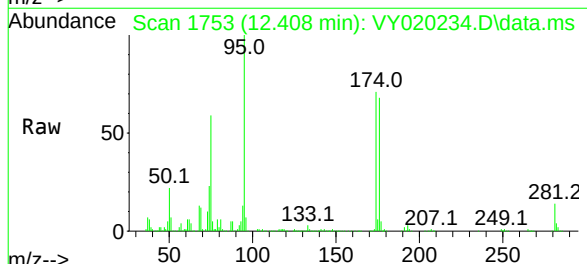
Tgt Ion: 95 Resp: 167289

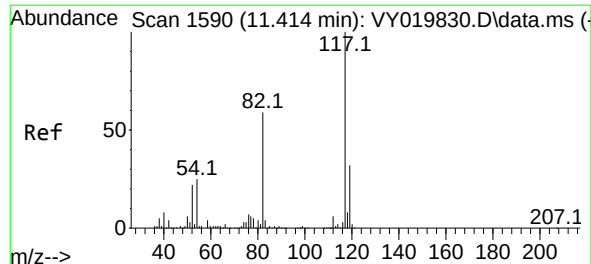
Ion Ratio Lower Upper

95 100

174 71.6 0.0 175.6

176 69.2 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

Instrument :

MSVOA_Y

ClientSampleId :

WB-307-SB02

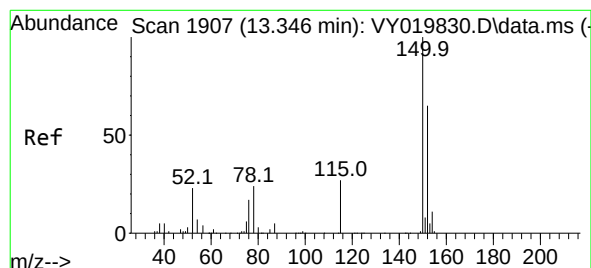
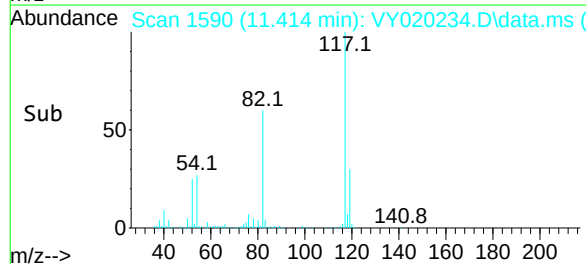
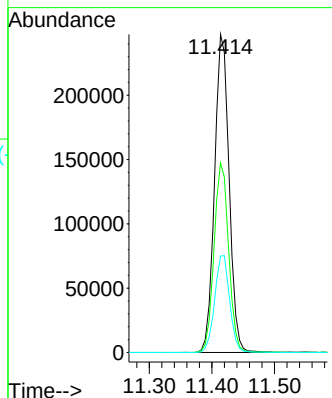
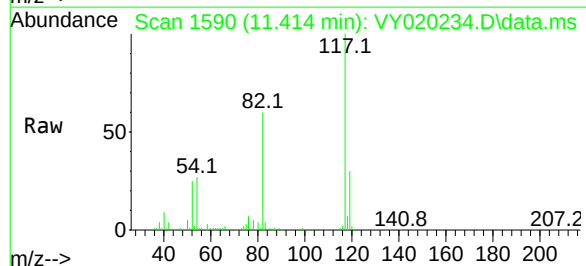
Tgt Ion:117 Resp: 399084

Ion Ratio Lower Upper

117 100

82 59.6 42.4 63.6

119 30.3 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY020234.D

Acq: 08 Nov 2024 15:35

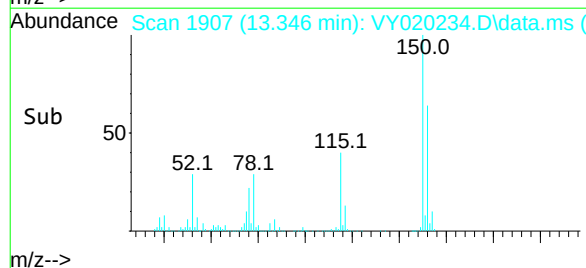
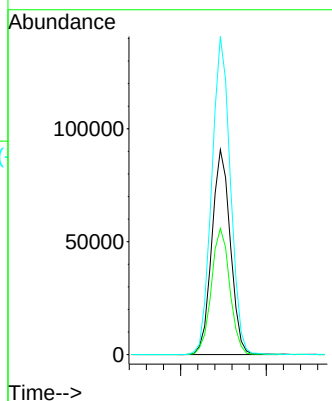
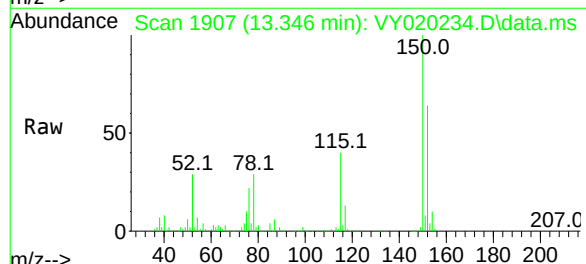
Tgt Ion:152 Resp: 136217

Ion Ratio Lower Upper

152 100

115 61.4 28.2 84.7

150 156.2 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020234.D
 Acq On : 08 Nov 2024 15:35
 Operator : SY/MD
 Sample : P4718-02
 Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-307-SB02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Title : SW846 8260

Signal : TIC: VY020234.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	484	rBV	17653	55631	3.77%	0.718%
2	4.702	484	489	499	rVB3	6460	19549	1.33%	0.252%
3	7.634	957	970	976	rBV	204041	494887	33.55%	6.387%
4	7.707	976	982	993	rVB	289449	667907	45.28%	8.621%
5	8.061	1029	1040	1054	rBV	204433	454072	30.78%	5.861%
6	8.615	1121	1131	1142	rBV	539980	1064455	72.16%	13.739%
7	10.103	1366	1375	1388	rBV	835749	1475096	100.00%	19.039%
8	11.414	1580	1590	1600	rBV	819802	1332969	90.36%	17.204%
9	12.408	1745	1753	1764	rBV2	613834	1041542	70.61%	13.443%
10	13.346	1898	1907	1914	rBV	616011	938495	63.62%	12.113%
11	13.889	1988	1996	2003	rBV2	124067	203199	13.78%	2.623%

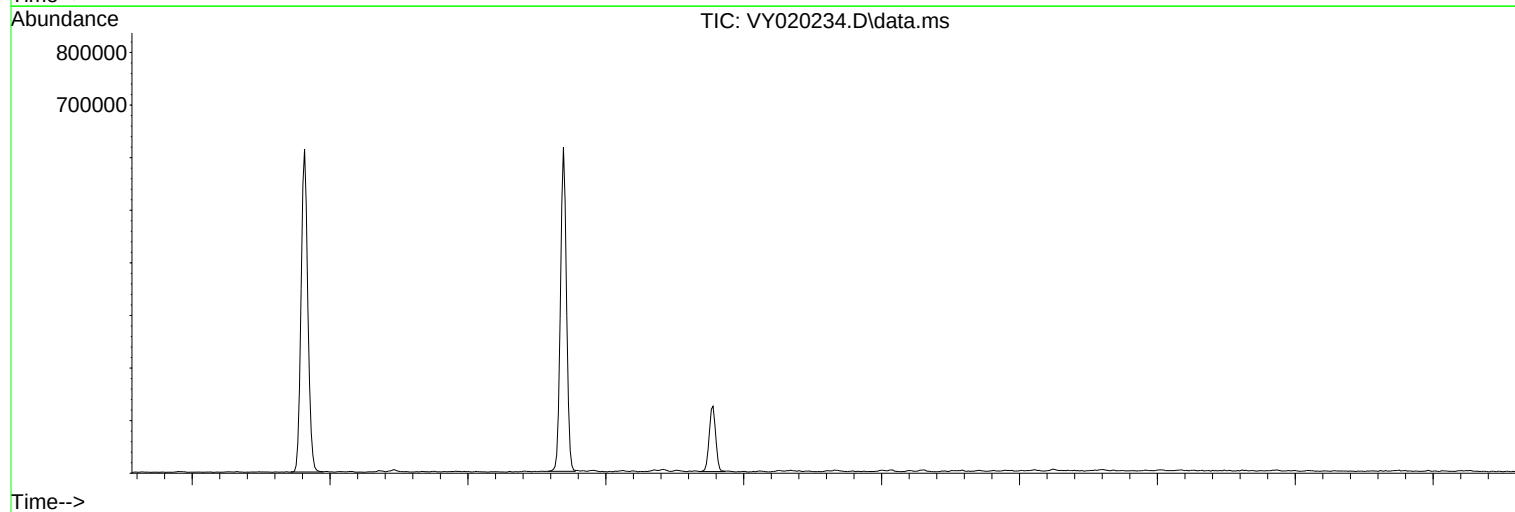
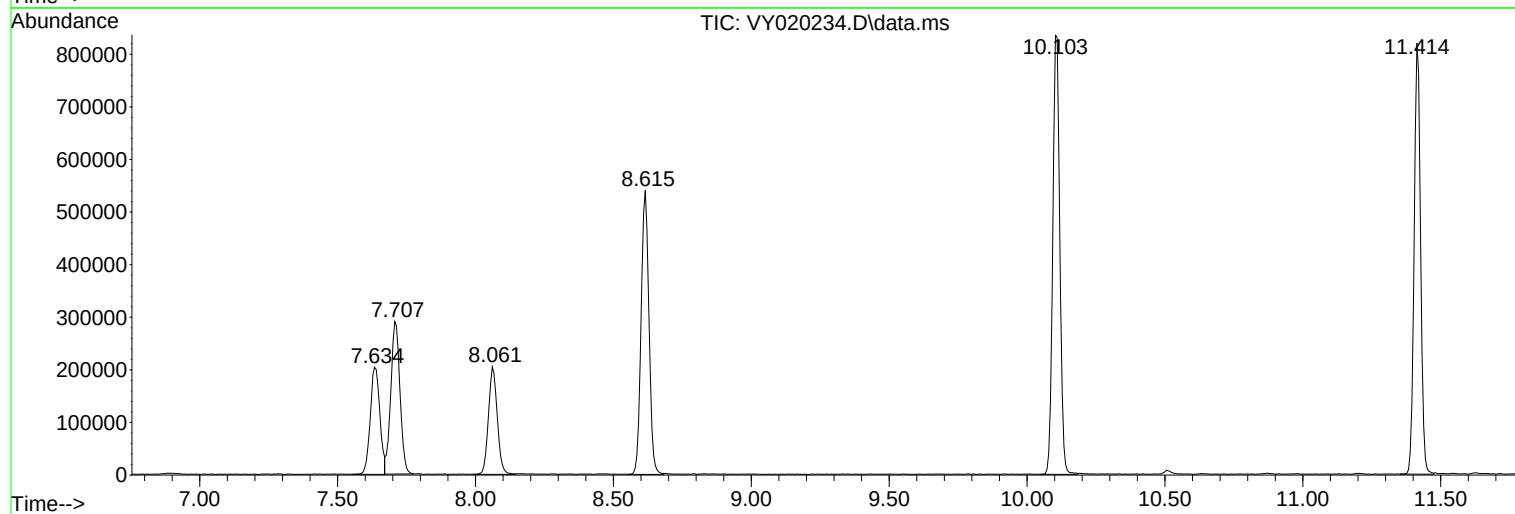
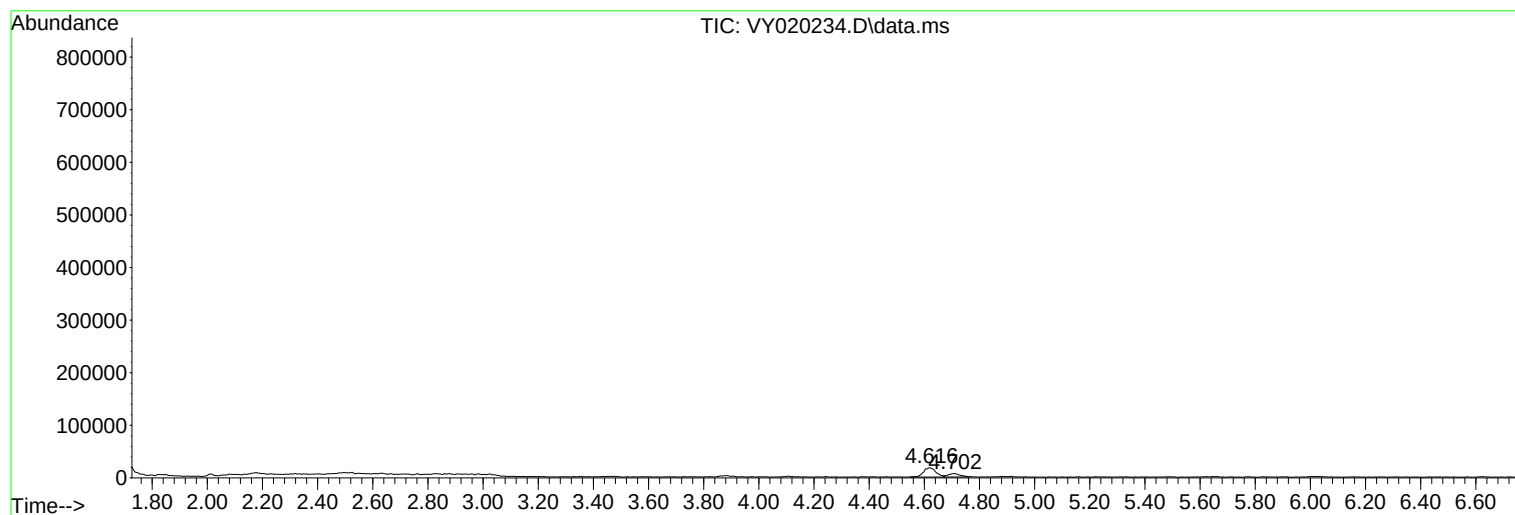
Sum of corrected areas: 7747802

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	11/05/24	
Client Sample ID:	WB-307-SW		SDG No.:	P4718	
Lab Sample ID:	P4718-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084853.D	1		11/14/24 15:47	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/05/24	
Client Sample ID:	WB-307-SW			SDG No.:	P4718	
Lab Sample ID:	P4718-04			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084853.D	1		11/14/24 15:47	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	46.2		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		70 (77) - 130 (121)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	8.218			
540-36-3	1,4-Difluorobenzene	345000	9.094			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084853.D	1		11/14/24 15:47	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	203676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	345476	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136300	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	140566	47.783	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.560%
35) Dibromofluoromethane	8.159	113	112509	48.113	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.220%
50) Toluene-d8	10.565	98	397675	46.166	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.340%
62) 4-Bromofluorobenzene	12.847	95	148708	46.192	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.380%

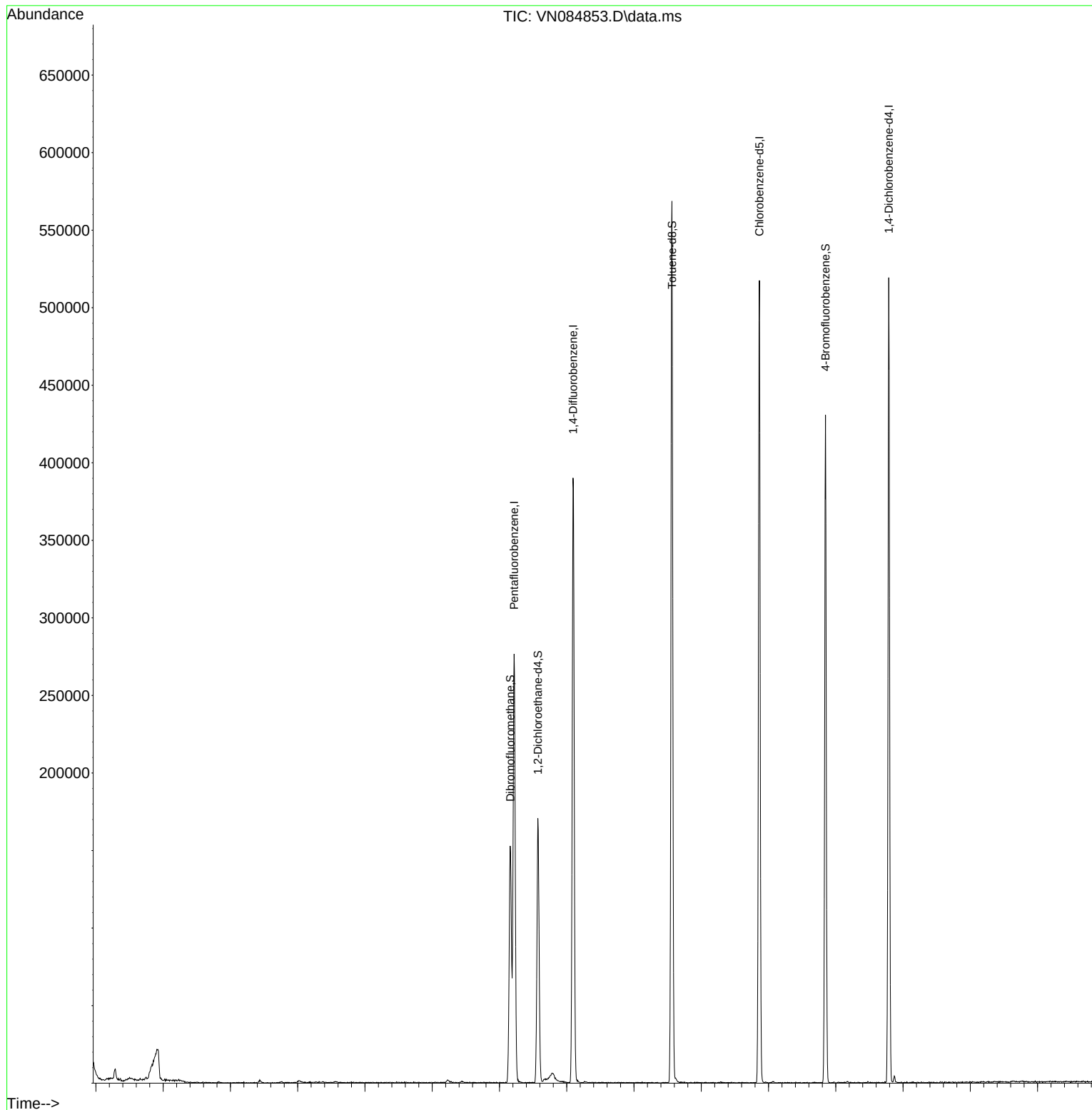
Target Compounds	Qvalue

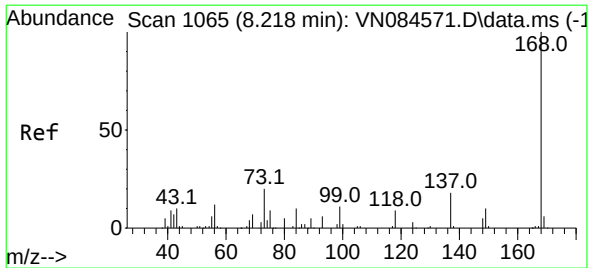
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

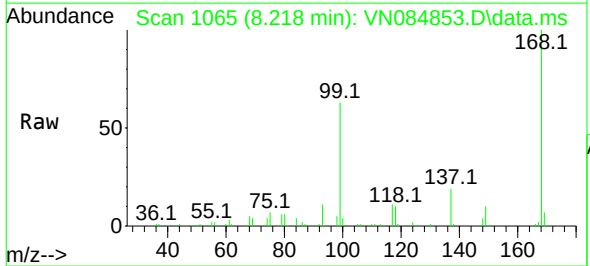
Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



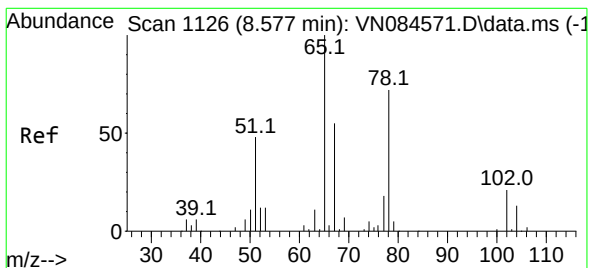
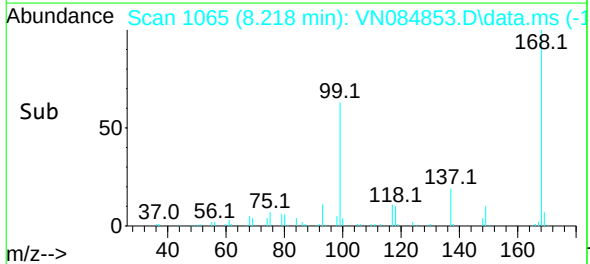
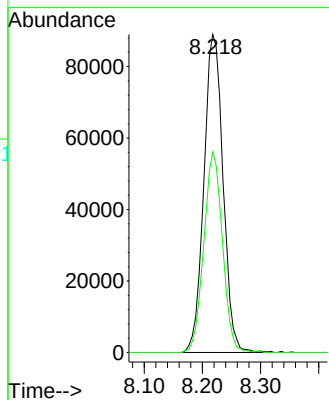


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

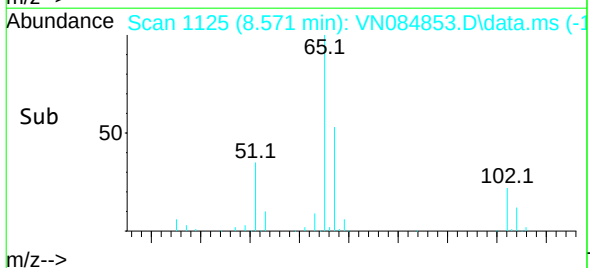
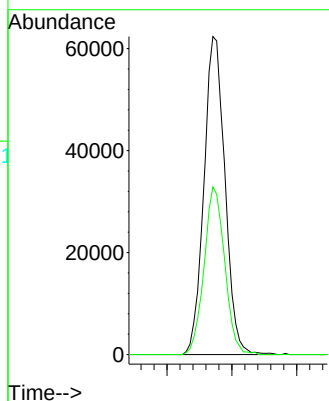
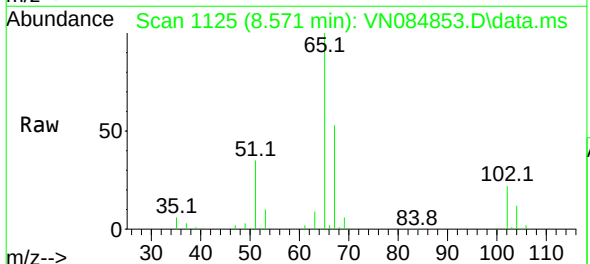


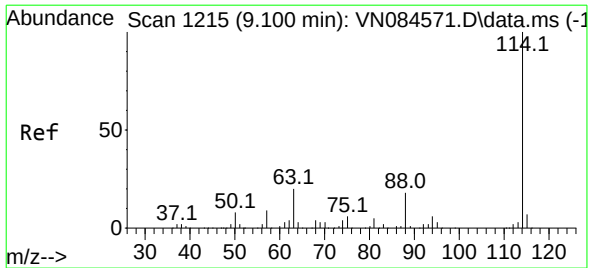
Tgt Ion:168 Resp: 203676
Ion Ratio Lower Upper
168 100
99 63.0 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 47.783 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion: 65 Resp: 140566
Ion Ratio Lower Upper
65 100
67 51.6 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN084853.D

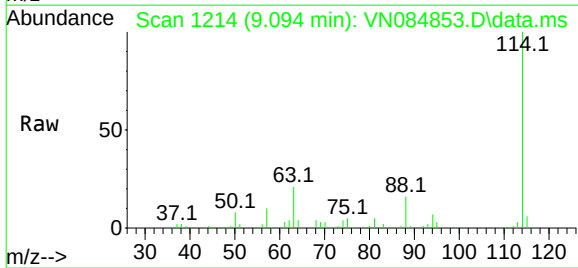
Acq: 14 Nov 2024 15:47

Instrument :

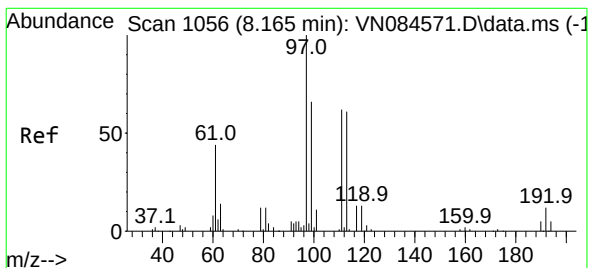
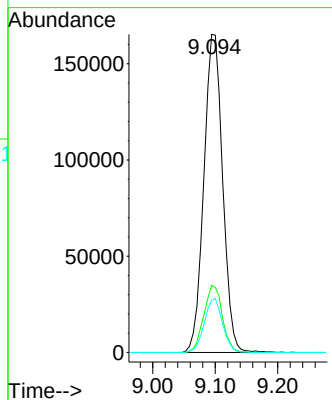
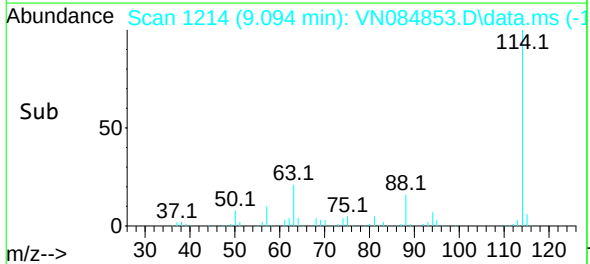
MSVOA_N

ClientSampleId :

WB-307-SW



Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.4	0.0	31.6



#35

Dibromofluoromethane

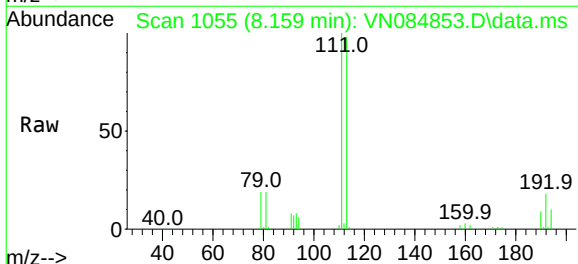
Concen: 48.113 ug/l

RT: 8.159 min Scan# 1055

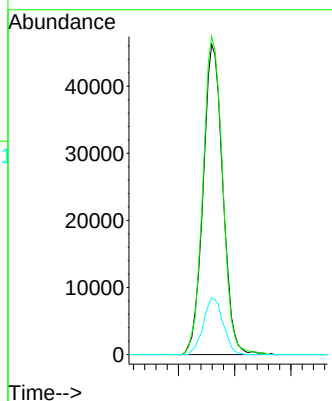
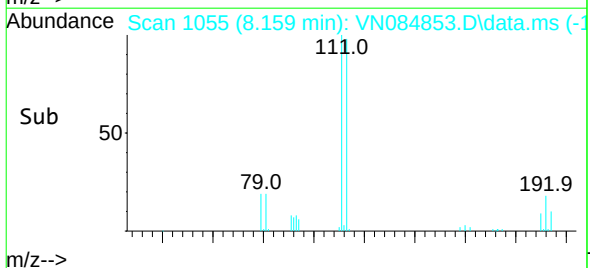
Delta R.T. -0.006 min

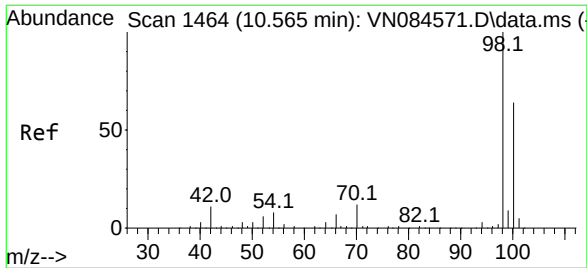
Lab File: VN084853.D

Acq: 14 Nov 2024 15:47



Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.3	124.9
192	18.4	13.5	20.3





#50

Toluene-d8

Concen: 46.166 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084853.D

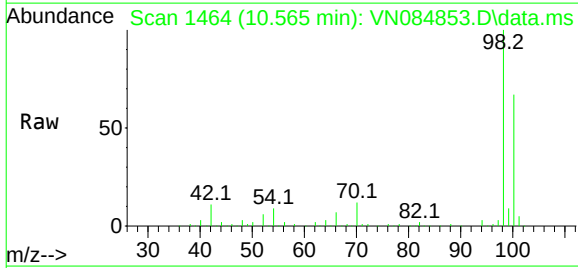
Acq: 14 Nov 2024 15:47

Instrument :

MSVOA_N

ClientSampleId :

WB-307-SW

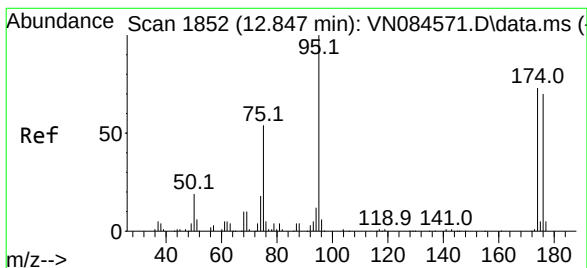
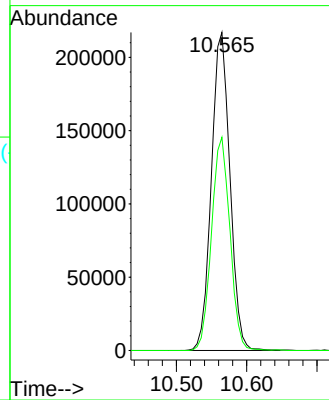
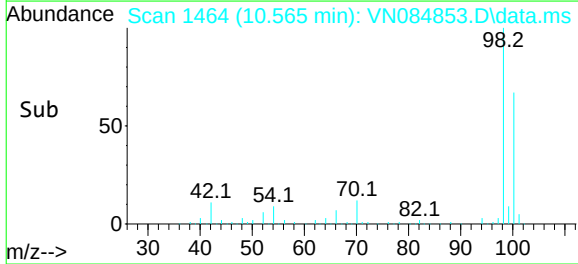


Tgt Ion: 98 Resp: 397675

Ion Ratio Lower Upper

98 100

100 66.6 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.192 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084853.D

Acq: 14 Nov 2024 15:47

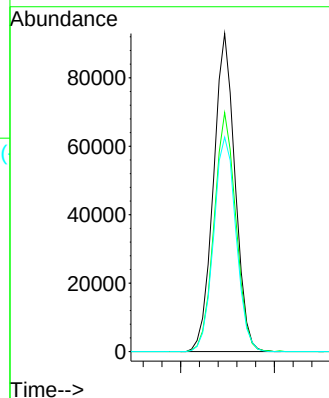
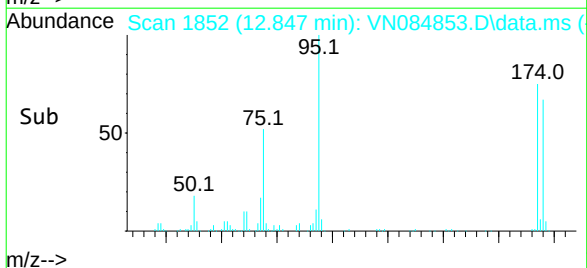
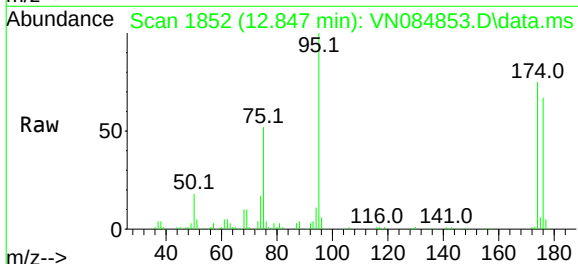
Tgt Ion: 95 Resp: 148708

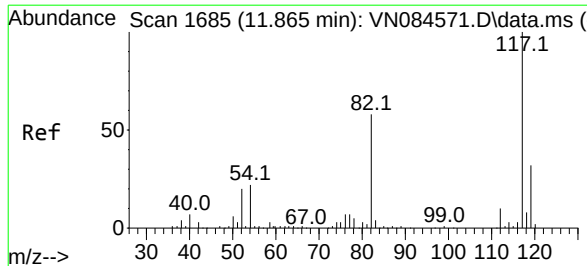
Ion Ratio Lower Upper

95 100

174 75.7 0.0 145.2

176 70.0 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084853.D

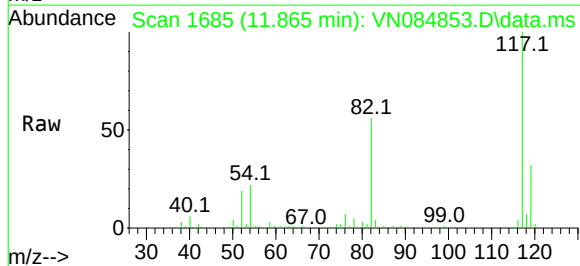
Acq: 14 Nov 2024 15:47

Instrument :

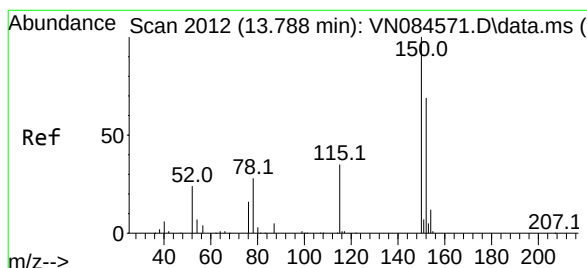
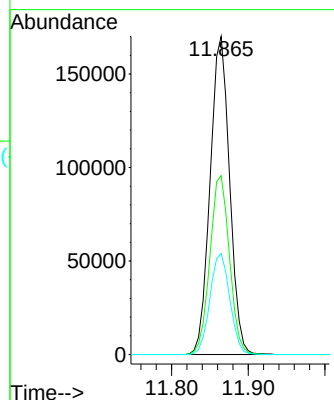
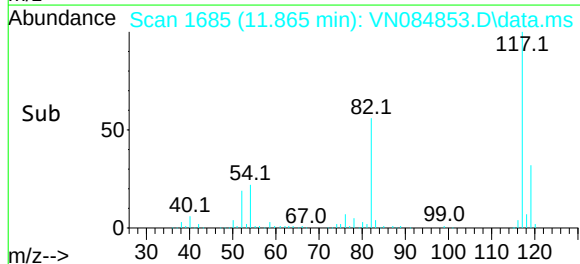
MSVOA_N

ClientSampleId :

WB-307-SW



Tgt Ion:	117	Resp:	299825
Ion	Ratio	Lower	Upper
117	100		
82	56.3	47.2	70.8
119	31.8	25.4	38.0



#72

1,4-Dichlorobenzene-d4

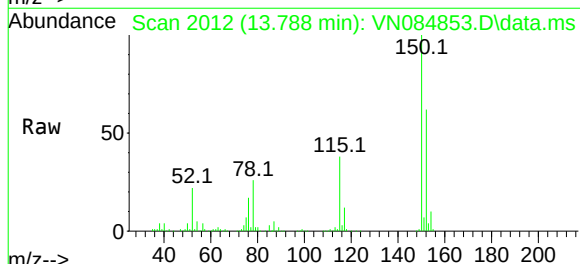
Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

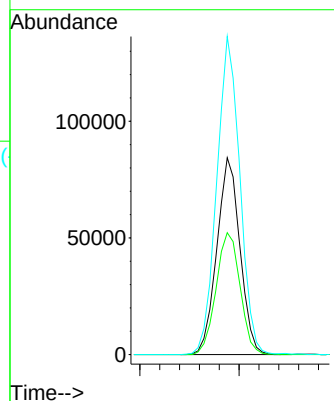
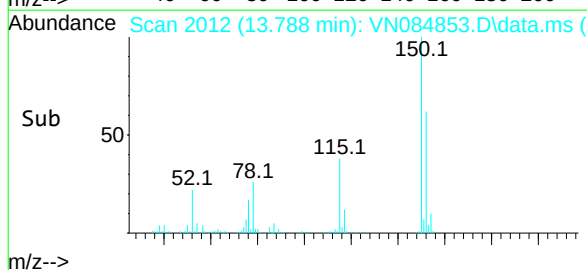
Delta R.T. 0.000 min

Lab File: VN084853.D

Acq: 14 Nov 2024 15:47



Tgt Ion:	152	Resp:	136300
Ion	Ratio	Lower	Upper
152	100		
115	64.3	31.3	93.9
150	162.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084853.D
 Acq On : 14 Nov 2024 15:47
 Operator : JC\MD
 Sample : P4718-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WB-307-SW

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Title : SW846 8260

Signal : TIC: VN084853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.289	52	57	64	rVB4	7051	13864	1.32%	0.242%
2	2.836	139	150	151	rBV4	9011	21839	2.08%	0.381%
3	2.906	151	162	163	rBV5	10463	25958	2.48%	0.453%
4	8.159	1045	1055	1060	rBV	152805	372002	35.47%	6.491%
5	8.218	1060	1065	1074	rVB	275210	605931	57.78%	10.572%
6	8.571	1117	1125	1135	rBV	170467	375585	35.82%	6.553%
7	9.094	1205	1214	1225	rBV	389991	807012	76.96%	14.081%
8	10.565	1455	1464	1472	rBV	568251	1048669	100.00%	18.297%
9	11.865	1677	1685	1696	rBV	517163	916171	87.37%	15.985%
10	12.847	1844	1852	1861	rBV	430564	699970	66.75%	12.213%
11	13.788	2005	2012	2022	rVB	518697	844413	80.52%	14.733%

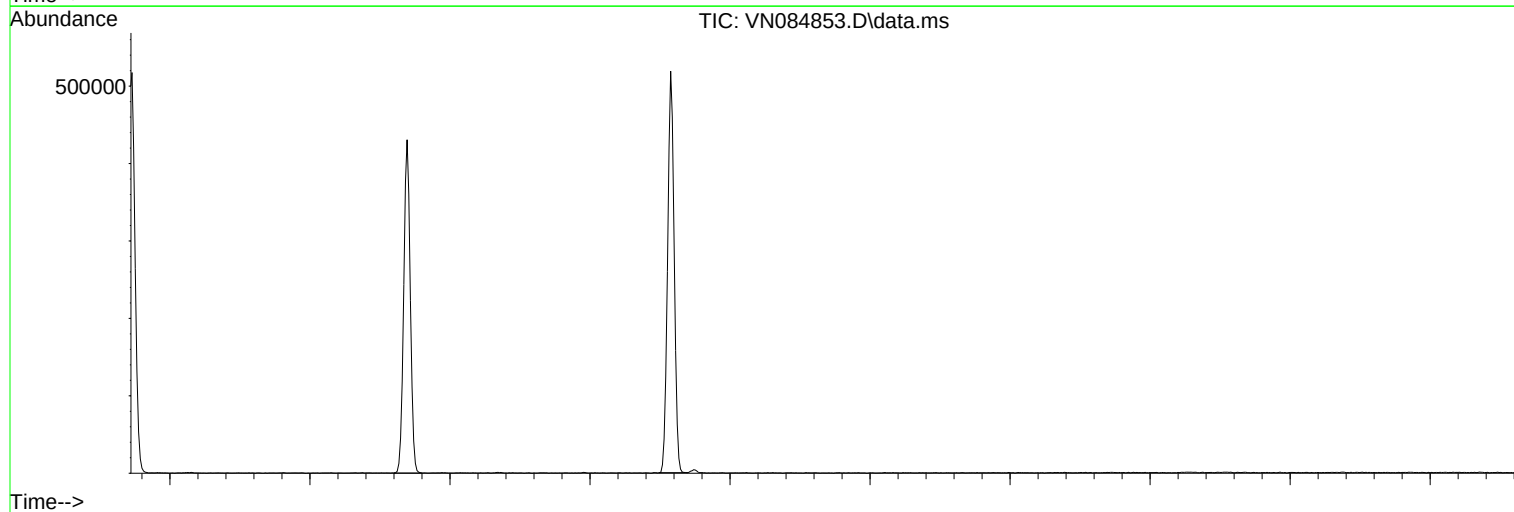
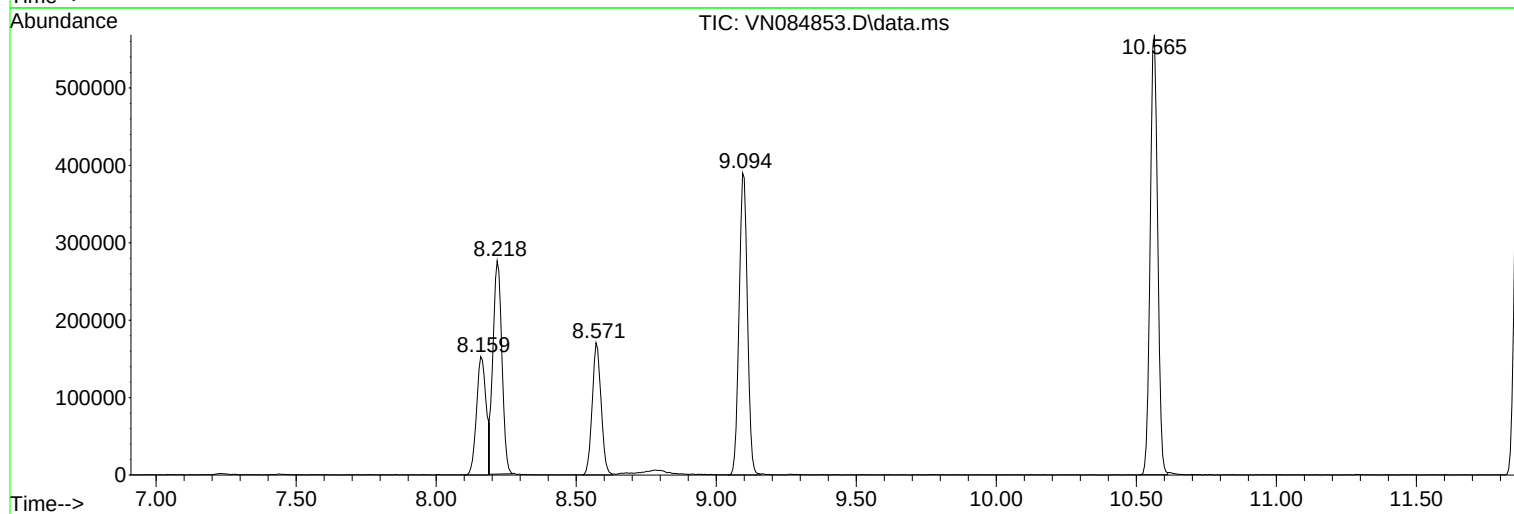
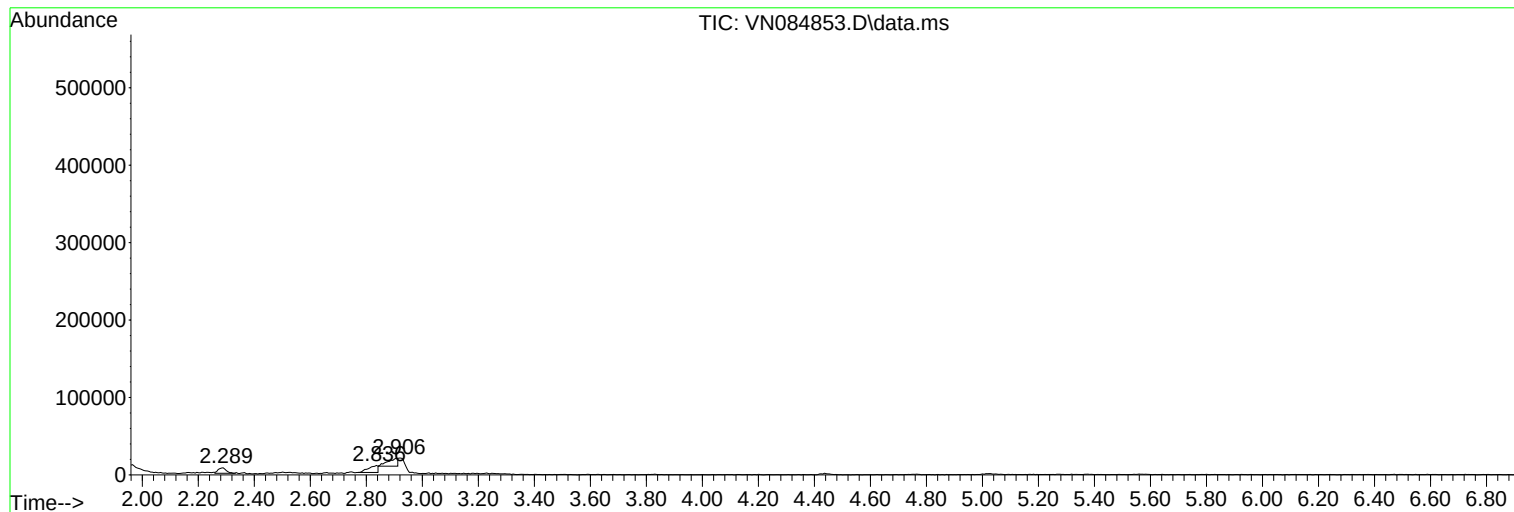
Sum of corrected areas: 5731414

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/04/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/05/24	
Client Sample ID:	TB-11042024			SDG No.:	P4718	
Lab Sample ID:	P4718-05			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	46.0		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	8.218			
540-36-3	1,4-Difluorobenzene	336000	9.1			
3114-55-4	Chlorobenzene-d5	289000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	193262	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	335586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136820	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134514	48.189	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	96.380%	
35) Dibromofluoromethane	8.159	113	107135	47.165	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	94.320%	
50) Toluene-d8	10.565	98	384699	45.975	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	91.960%	
62) 4-Bromofluorobenzene	12.847	95	147170	47.061	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	94.120%	

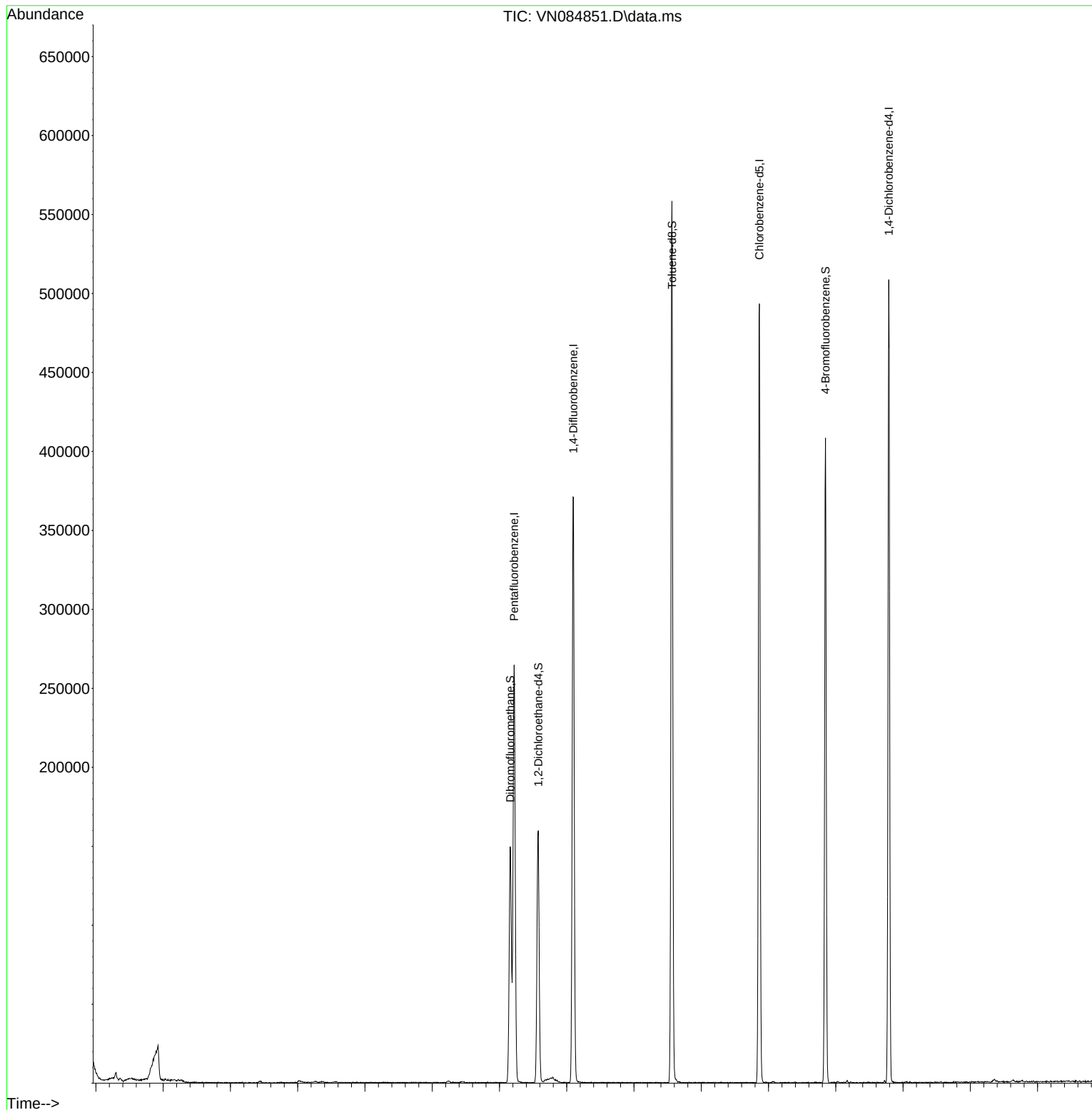
Target Compounds	Qvalue

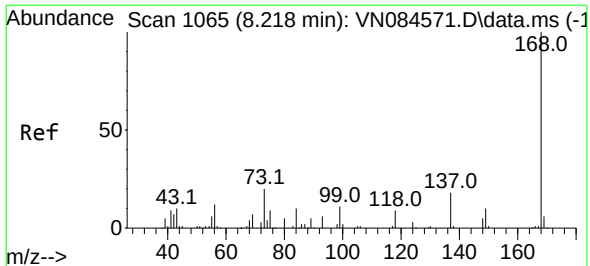
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

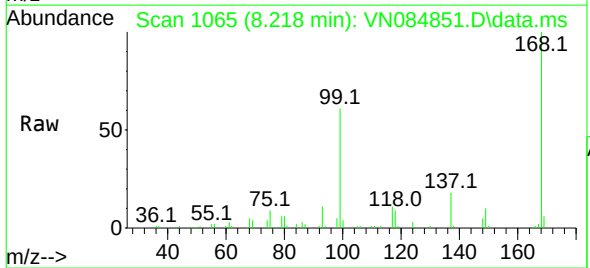
Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



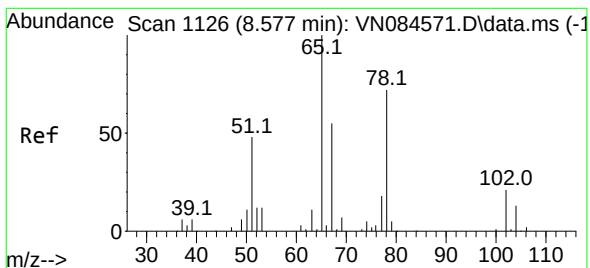
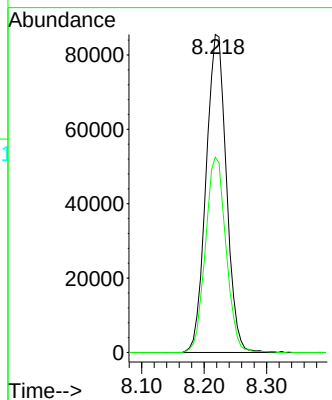
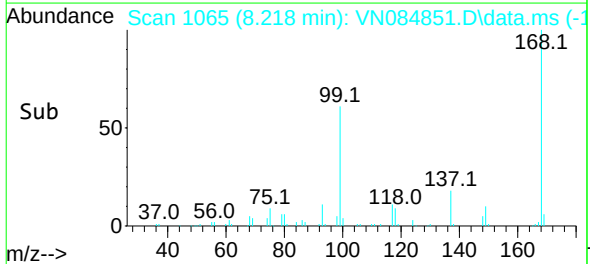


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

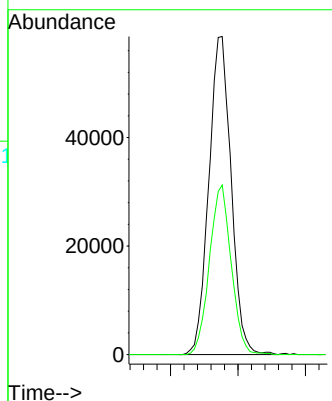
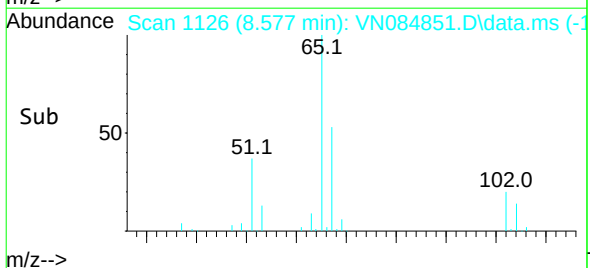
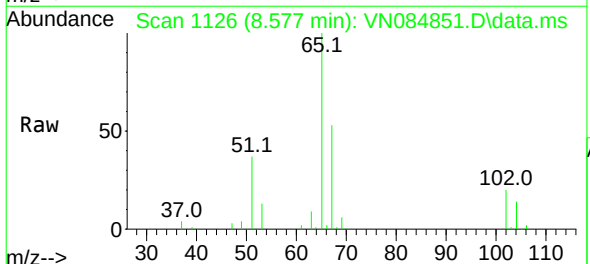


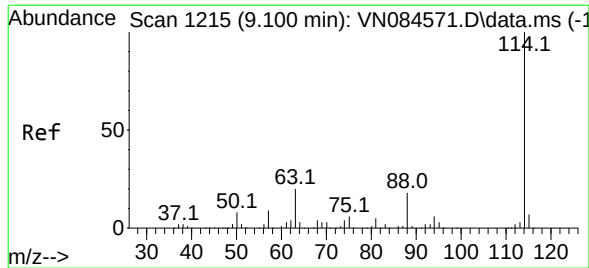
Tgt Ion:168 Resp: 193262
Ion Ratio Lower Upper
168 100
99 61.4 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 48.189 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion: 65 Resp: 134514
Ion Ratio Lower Upper
65 100
67 52.0 0.0 102.0

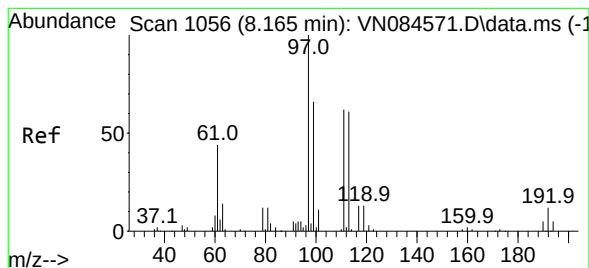
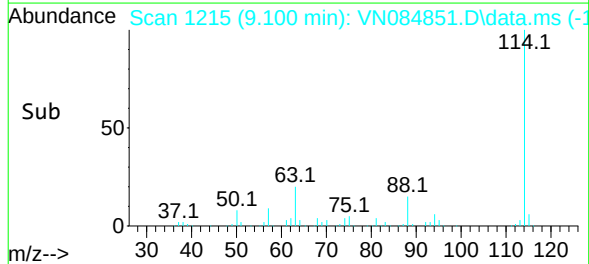
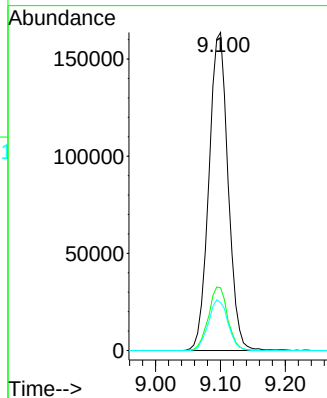
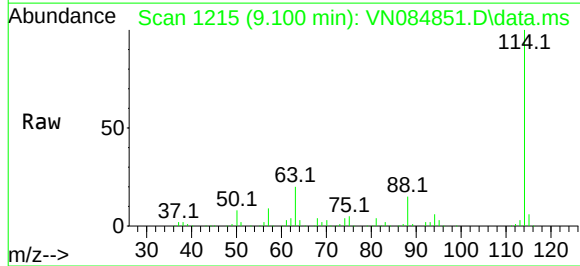




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

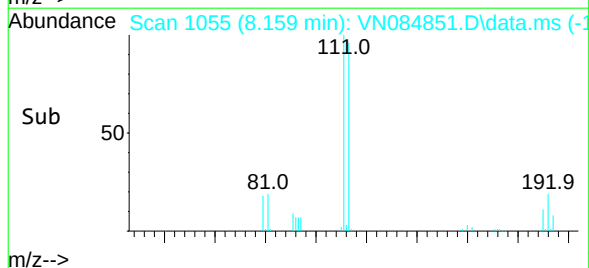
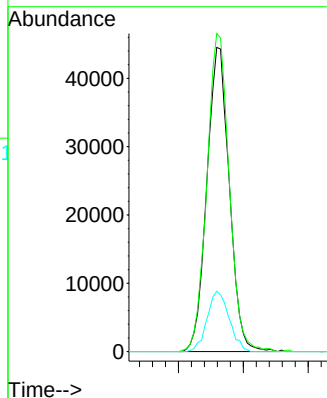
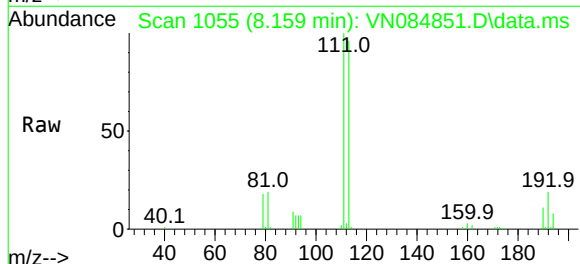
Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

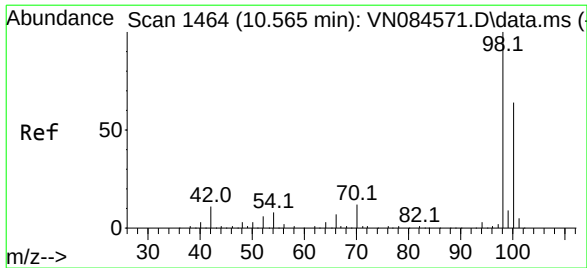
Tgt Ion:	114	Resp:	335586
Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	43.8
88	15.1	0.0	31.6



#35
Dibromofluoromethane
Concen: 47.165 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion:	113	Resp:	107135
Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.3	124.9
192	19.4	13.5	20.3





#50

Toluene-d8

Concen: 45.975 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084851.D

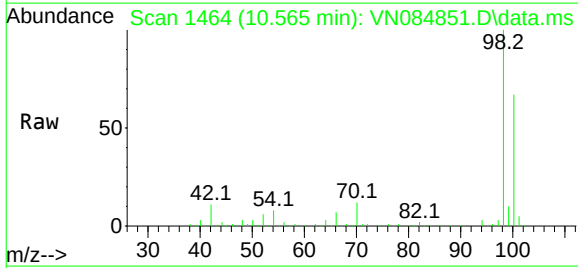
Acq: 14 Nov 2024 14:59

Instrument :

MSVOA_N

ClientSampleId :

TB-11042024

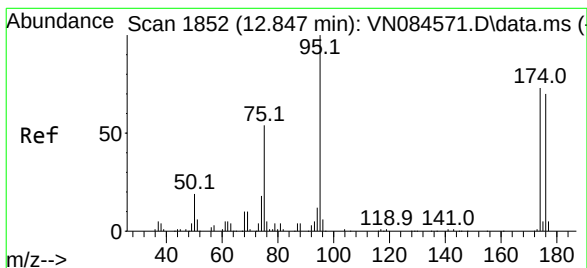
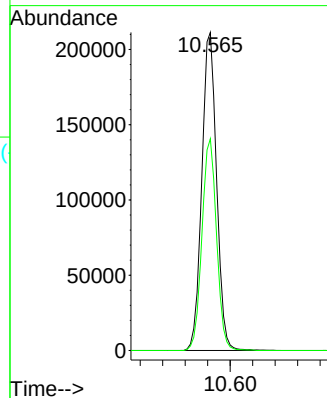
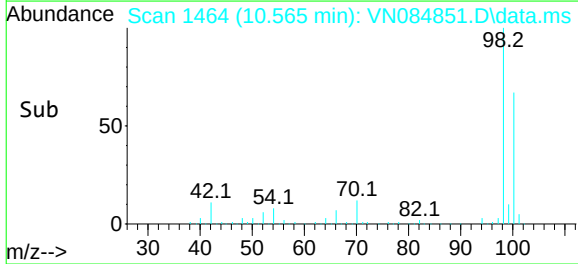


Tgt Ion: 98 Resp: 384699

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 47.061 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084851.D

Acq: 14 Nov 2024 14:59

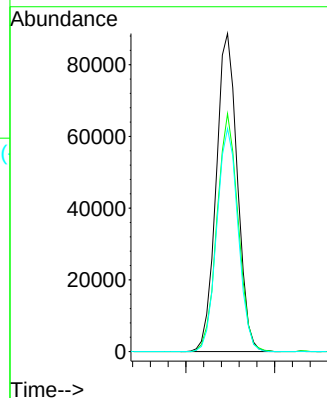
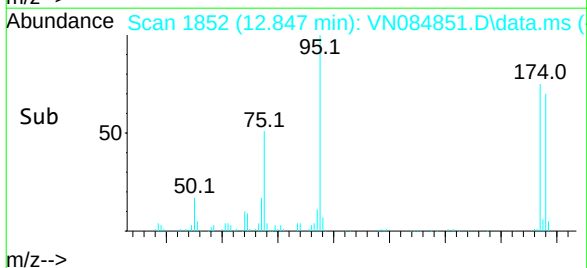
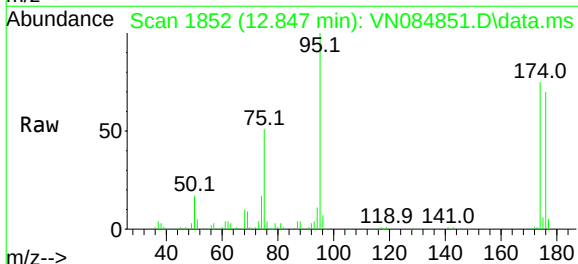
Tgt Ion: 95 Resp: 147170

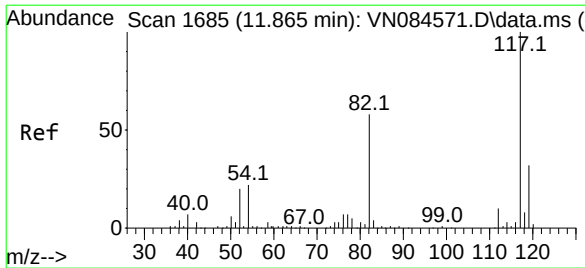
Ion Ratio Lower Upper

95 100

174 74.4 0.0 145.2

176 70.4 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. -0.000 min

Lab File: VN084851.D

Acq: 14 Nov 2024 14:59

Instrument :

MSVOA_N

ClientSampleId :

TB-11042024

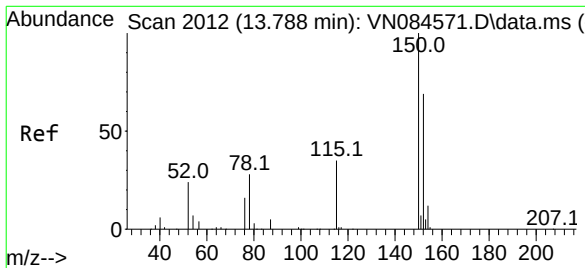
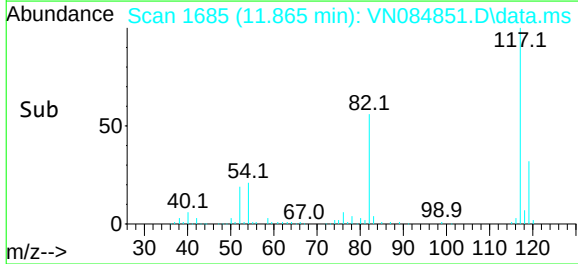
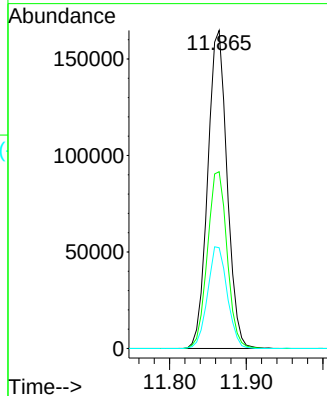
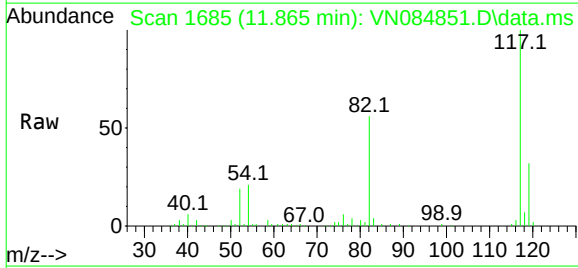
Tgt Ion:117 Resp: 288886

Ion Ratio Lower Upper

117 100

82 55.6 47.2 70.8

119 31.7 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084851.D

Acq: 14 Nov 2024 14:59

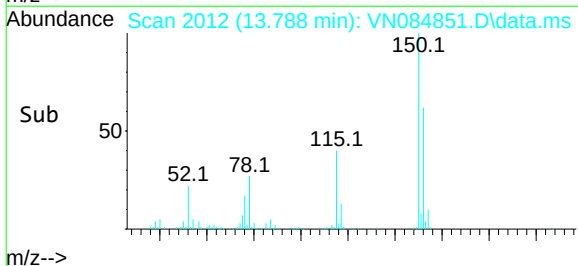
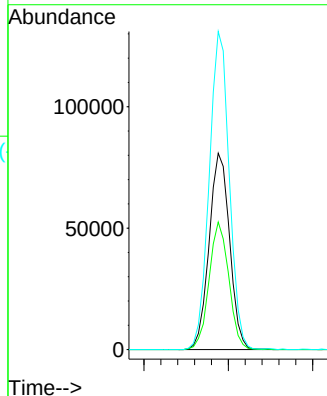
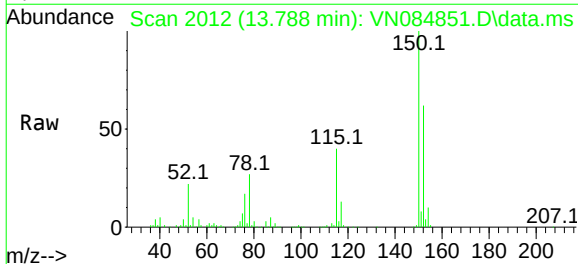
Tgt Ion:152 Resp: 136820

Ion Ratio Lower Upper

152 100

115 62.3 31.3 93.9

150 158.2 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084851.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	138	146	147	rBV	7379	12410	1.22%	0.222%
2	2.924	154	165	172	rVB4	21589	83495	8.23%	1.492%
3	8.159	1044	1055	1060	rBV	149526	356274	35.11%	6.367%
4	8.218	1060	1065	1076	rVB	263937	582132	57.36%	10.404%
5	8.577	1116	1126	1136	rBV	159657	362261	35.70%	6.474%
6	9.094	1204	1214	1226	rBV	370816	774636	76.33%	13.844%
7	10.565	1454	1464	1479	rBV	558325	1014793	100.00%	18.136%
8	11.865	1677	1685	1695	rBV	493592	884489	87.16%	15.808%
9	12.847	1843	1852	1861	rVB	408355	686073	67.61%	12.261%
10	13.788	2005	2012	2021	rBV	508600	838803	82.66%	14.991%

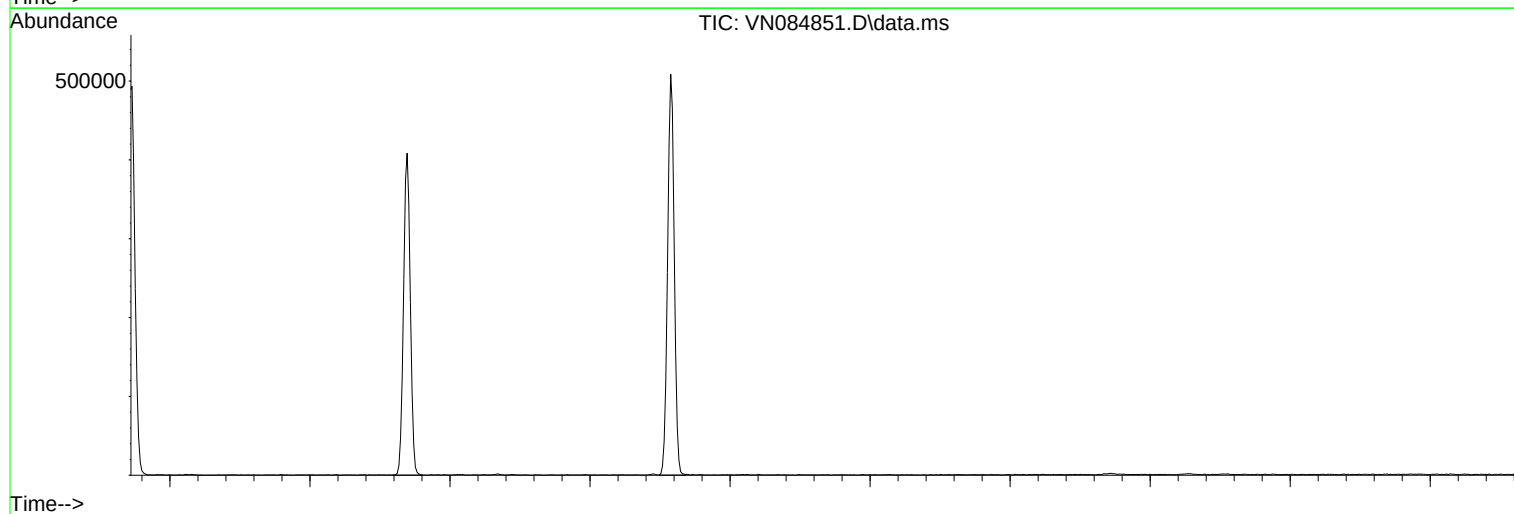
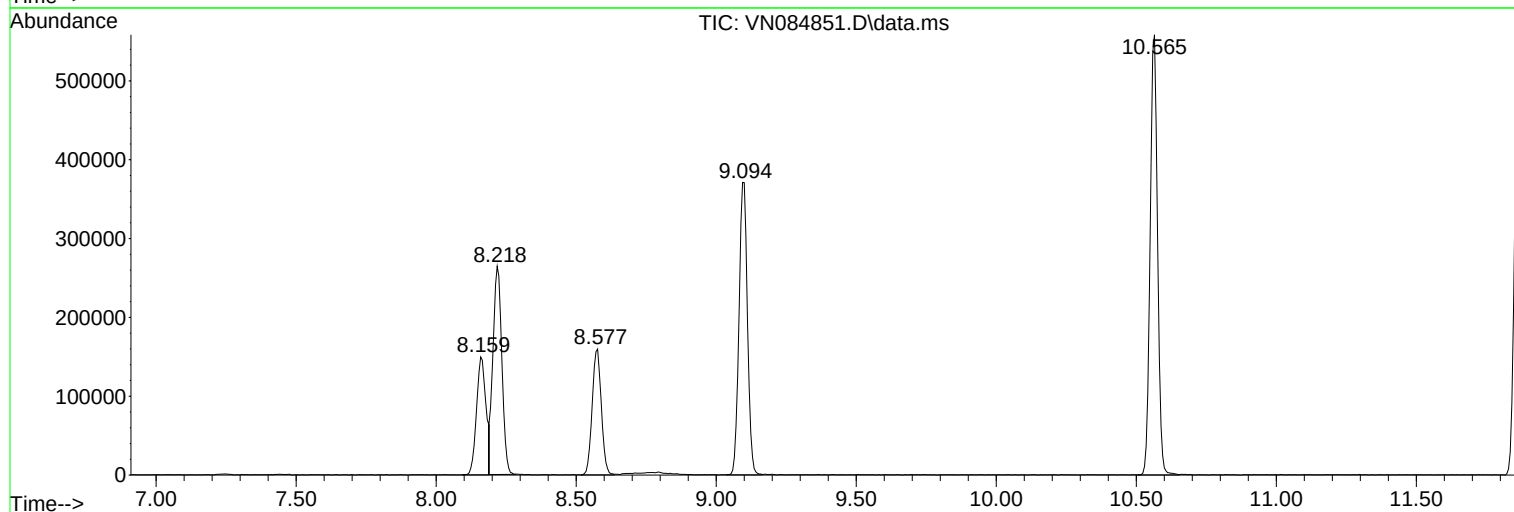
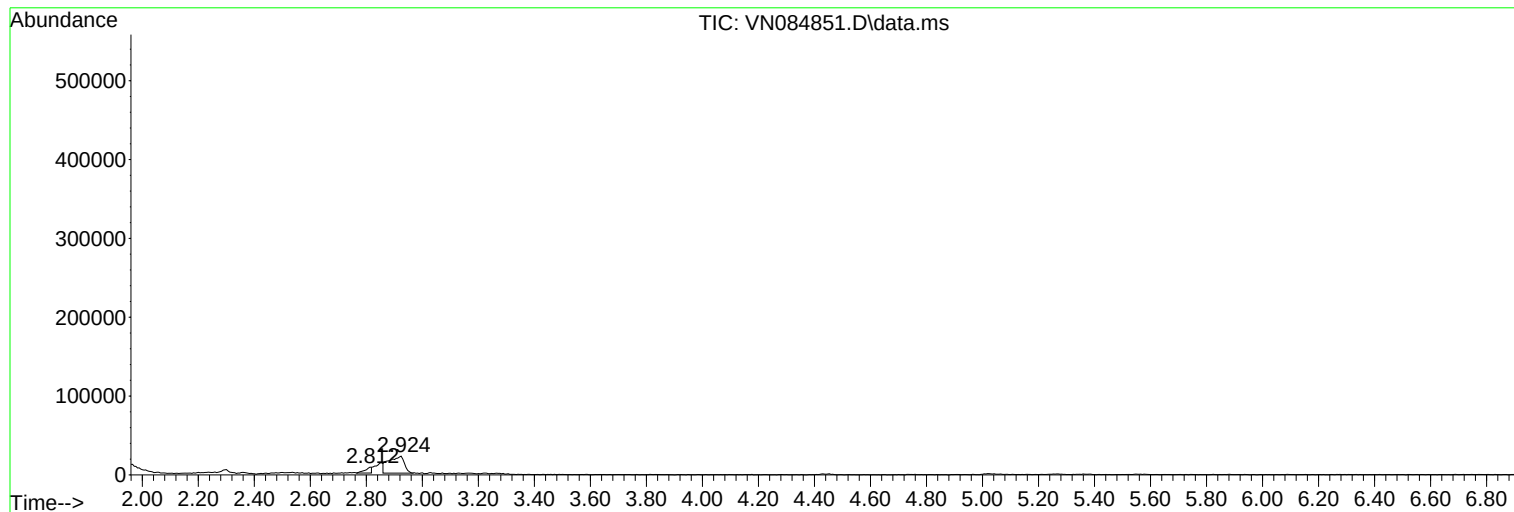
Sum of corrected areas: 5595366

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN084570.D			RRF050 = VN084571.D		RRF020 = VN084572.D		
	RRF010 = VN084573.D			RRF005 = VN084574.D		RRF001 = VN084575.D		
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.571	0.552	0.552	0.598	0.594	0.581	0.575	3.4
Chloromethane	0.658	0.672	0.725	0.871	0.995	1.789	0.952	45.2
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
Bromomethane	0.292	0.296	0.310	0.336	0.405		0.328	14.2
Chloroethane	0.378	0.376	0.413	0.426	0.475	0.863	0.488	38.3
Trichlorofluoromethane	0.971	0.959	1.017	1.022	1.070	1.071	1.018	4.7
1,1,2-Trichlorotrifluoroethane	0.566	0.557	0.571	0.585	0.588	0.586	0.575	2.2
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
Acetone	0.209	0.204	0.213	0.223	0.241	0.338	0.238	21.3
Carbon Disulfide	1.604	1.603	1.700	1.714	1.784	2.117	1.753	10.9
Methyl tert-butyl Ether	1.773	1.758	1.802	1.779	1.786	1.572	1.745	4.9
Methyl Acetate	0.731	0.749	0.954	1.044	1.266	2.291	1.172	49.7
Methylene Chloride	0.604	0.602	0.633	0.658	0.714	0.600	0.635	7.1
trans-1,2-Dichloroethene	0.565	0.563	0.596	0.600	0.584	0.601	0.585	2.9
1,1-Dichloroethane	1.067	1.066	1.114	1.127	1.203	1.033	1.102	5.5
Cyclohexane	0.956	0.938	0.956	1.043	1.093		0.997	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
cis-1,2-Dichloroethene	0.675	0.662	0.697	0.685	0.705	0.673	0.683	2.4
Bromochloromethane	0.483	0.511	0.388	0.415	0.408	0.429	0.439	10.8
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
1,1,1-Trichloroethane	1.000	0.991	1.046	1.073	1.032	0.980	1.021	3.5
Methylcyclohexane	0.546	0.509	0.495	0.487	0.458	0.371	0.478	12.5
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
1,2-Dichloropropane	0.356	0.348	0.358	0.357	0.373	0.330	0.354	4
Bromodichloromethane	0.528	0.521	0.526	0.522	0.529	0.530	0.526	0.7
4-Methyl-2-Pentanone	0.424	0.423	0.416	0.417	0.412	0.344	0.406	7.6
Toluene	0.923	0.899	0.919	0.902	0.891	0.757	0.882	7.1

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN084570.D		RRF050 = VN084571.D		RRF020 = VN084572.D			
		RRF010 = VN084573.D		RRF005 = VN084574.D		RRF001 = VN084575.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
t-1,3-Dichloropropene	0.552	0.543	0.538	0.532	0.547	0.555	0.544	1.6	
cis-1,3-Dichloropropene	0.592	0.581	0.582	0.569	0.584	0.548	0.576	2.7	
1,1,2-Trichloroethane	0.336	0.329	0.334	0.342	0.342	0.309	0.332	3.7	
2-Hexanone	0.314	0.312	0.301	0.297	0.294	0.256	0.296	7.1	
Dibromochloromethane	0.404	0.394	0.391	0.393	0.377	0.312	0.378	8.9	
1,2-Dibromoethane	0.340	0.333	0.341	0.335	0.355	0.336	0.340	2.4	
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3	
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9	
Ethyl Benzene	1.957	1.891	1.928	1.880	1.849	1.697	1.867	4.9	
m/p-Xylenes	0.737	0.728	0.737	0.701	0.683	0.654	0.707	4.8	
o-Xylene	0.703	0.690	0.701	0.679	0.645	0.550	0.661	8.9	
Styrene	1.223	1.205	1.206	1.144	1.093	1.050	1.154	6.1	
Bromoform	0.287	0.295	0.298	0.289	0.302	0.286	0.293	2.3	
Isopropylbenzene	3.558	3.570	3.701	3.605	3.402	3.188	3.504	5.2	
1,1,2,2-Tetrachloroethane	1.052	1.073	1.163	1.190	1.317	1.222	1.170	8.4	
1,3-Dichlorobenzene	1.642	1.668	1.770	1.802	1.884	2.264	1.838	12.3	
1,4-Dichlorobenzene	1.646	1.674	1.782	1.867	1.879	2.773	1.937	21.7	
1,2-Dichlorobenzene	1.601	1.618	1.748	1.732	1.879	2.021	1.766	9.1	
1,2-Dibromo-3-Chloropropane	0.204	0.217	0.229	0.226	0.274	0.272	0.237	12.3	
1,2,4-Trichlorobenzene	0.852	0.865	0.895	0.881	0.956	1.353	0.967	19.9	
1,2,3-Trichlorobenzene	0.832	0.841	0.953	0.877	0.939	1.189	0.939	14.1	
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2	
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1	
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3	
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N103024W.M
 Title : SW846 8260
 Last Update : Thu Oct 31 18:45:38 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN084575.D 5 =VN084574.D 10 =VN084573.D 20 =VN084572.D 50 =VN084571.D 100 =VN084570.

D

Compound		1	5	10	20	50	100	Avg	%RSD

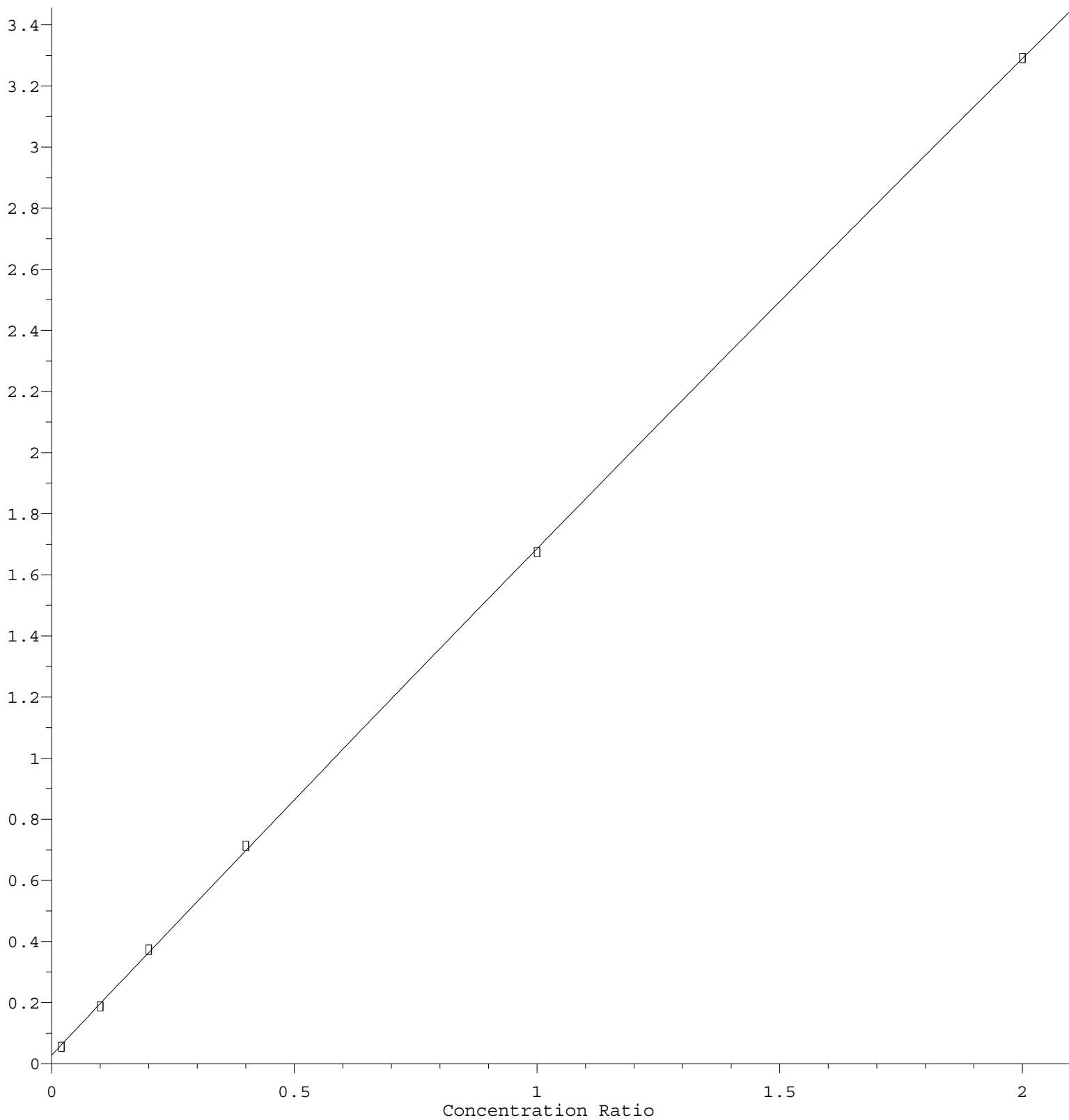
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.581	0.594	0.598	0.552	0.552	0.571	0.575	3.43
3) P	Chloromethane	1.789	0.995	0.871	0.725	0.672	0.658	0.952	45.21
4) C	Vinyl Chloride	0.581	0.651	0.636	0.623	0.605	0.613	0.618	3.98#
5) T	Bromomethane		0.405	0.336	0.310	0.296	0.292	0.328	14.16
6) T	Chloroethane	0.863	0.475	0.426	0.413	0.376	0.378	0.488	38.29
7) T	Trichlorofluor...	1.071	1.070	1.022	1.017	0.959	0.971	1.018	4.66
8) T	Diethyl Ether	0.358	0.371	0.364	0.359	0.353	0.351	0.359	2.08
9) T	1,1,2-Trichlor...	0.586	0.588	0.585	0.571	0.557	0.566	0.575	2.23
10) T	Methyl Iodide		0.817	0.800	0.764	0.736	0.728	0.769	5.08
11) T	Tert butyl alc...		0.118	0.100	0.090	0.086	0.082	0.095	15.11
12) CM	1,1-Dichloroet...	0.644	0.552	0.575	0.560	0.538	0.548	0.569	6.78#
13) T	Acrolein		0.104	0.096	0.101	0.088	0.086	0.095	8.16
14) T	Allyl chloride	0.849	0.977	0.925	0.939	0.917	0.934	0.923	4.56
15) T	Acrylonitrile	0.263	0.294	0.282	0.282	0.271	0.264	0.276	4.42
16) T	Acetone	0.338	0.241	0.223	0.213	0.204	0.209	0.238	21.31
17) T	Carbon Disulfide	2.117	1.784	1.714	1.700	1.603	1.604	1.753	10.90
18) T	Methyl Acetate	2.291	1.266	1.044	0.954	0.749	0.731	1.172	49.71
19) T	Methyl tert-bu...	1.572	1.786	1.779	1.802	1.758	1.773	1.745	4.92
20) T	Methylene Chlo...	0.600	0.714	0.658	0.633	0.602	0.604	0.635	7.09
21) T	trans-1,2-Dich...	0.601	0.584	0.600	0.596	0.563	0.565	0.585	2.94
22) T	Diisopropyl ether	1.623	1.843	1.909	1.921	1.855	1.858	1.835	5.91
23) T	Vinyl Acetate	1.090	1.297	1.298	1.306	1.299	1.303	1.265	6.81
24) P	1,1-Dichloroet...	1.033	1.203	1.127	1.114	1.066	1.067	1.102	5.49
25) T	2-Butanone	0.334	0.370	0.338	0.348	0.315	0.316	0.337	6.14
26) T	2,2-Dichloropr...	0.933	0.959	0.978	0.974	0.941	0.968	0.959	1.93
27) T	cis-1,2-Dichlo...	0.673	0.705	0.685	0.697	0.662	0.675	0.683	2.38
28) T	Bromochloromet...	0.429	0.408	0.415	0.388	0.511	0.483	0.439	10.79
29) T	Tetrahydrofuran	0.197	0.236	0.234	0.231	0.222	0.221	0.224	6.52
30) C	Chloroform	1.025	1.222	1.154	1.142	1.086	1.099	1.121	6.02#
31) T	Cyclohexane		1.093	1.043	0.956	0.938	0.956	0.997	6.75
32) T	1,1,1-Trichlor...	0.980	1.032	1.073	1.046	0.991	1.000	1.021	3.53
33) S	1,2-Dichloroet...		0.771	0.722	0.708	0.721	0.689	0.722	4.20
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.353	0.336	0.326	0.344	0.334	0.338	3.07
36) T	1,1-Dichloropr...	0.474	0.477	0.468	0.471	0.451	0.476	0.469	2.02
37) T	Ethyl Acetate	0.410	0.466	0.404	0.429	0.422	0.424	0.426	5.14
38) T	Carbon Tetrach...	0.488	0.537	0.548	0.532	0.514	0.530	0.525	4.04
39) T	Methylcyclohexane	0.371	0.458	0.487	0.495	0.509	0.546	0.478	12.46
40) TM	Benzene	1.540	1.546	1.507	1.509	1.448	1.494	1.507	2.35
41) T	Methacrylonitrile	0.184	0.238	0.232	0.239	0.246	0.235	0.229	9.89
42) TM	1,2-Dichloroet...	0.459	0.503	0.492	0.493	0.494	0.488	0.488	3.10
43) T	Isopropyl Acetate	1.297	1.009	0.895	0.820	0.756	0.786	0.927	21.85
44) TM	Trichloroethene	0.387	0.341	0.338	0.345	0.335	0.339	0.348	5.66
45) C	1,2-Dichloropr...	0.330	0.373	0.357	0.358	0.348	0.356	0.354	3.95#
46) T	Dibromomethane	0.247	0.260	0.244	0.257	0.244	0.245	0.250	2.89
47) T	Bromodichlorom...	0.530	0.529	0.522	0.526	0.521	0.528	0.526	0.70
48) T	Methyl methacr...	0.277	0.335	0.336	0.339	0.346	0.355	0.331	8.32
49) T	1,4-Dioxane	0.005	0.006	0.006	0.006	0.006	0.006	0.006	8.90
50) S	Toluene-d8		1.217	1.231	1.216	1.303	1.267	1.247	3.02
51) T	4-Methyl-2-Pen...	0.344	0.412	0.417	0.416	0.423	0.424	0.406	7.59
52) CM	Toluene	0.757	0.891	0.902	0.919	0.899	0.923	0.882	7.07#
53) T	t-1,3-Dichloro...	0.555	0.547	0.532	0.538	0.543	0.552	0.544	1.60
54) T	cis-1,3-Dichlo...	0.548	0.584	0.569	0.582	0.581	0.592	0.576	2.69
55) T	1,1,2-Trichlor...	0.309	0.342	0.342	0.334	0.329	0.336	0.332	3.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\										
Method File : 82N103024W.M										
56)	T	Ethyl methacry...	0.371	0.449	0.477	0.495	0.539	0.550	0.480	13.66
57)	T	1,3-Dichloropr...	0.527	0.598	0.573	0.579	0.565	0.577	0.570	4.16
58)	T	2-Chloroethyl ...	0.167	0.202	0.214	0.229	0.262	0.275	0.225	17.62
59)	T	2-Hexanone	0.256	0.294	0.297	0.301	0.312	0.314	0.296	7.11
60)	T	Dibromochlorom...	0.312	0.377	0.393	0.391	0.394	0.404	0.378	8.92
61)	T	1,2-Dibromoethane	0.336	0.355	0.335	0.341	0.333	0.340	0.340	2.38
62)	S	4-Bromofluorob...	0.454	0.451	0.450	0.493	0.481	0.466		4.26
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.325	0.351	0.347	0.333	0.313	0.326	0.333	4.29
65)	PM	Chlorobenzene	1.146	1.164	1.123	1.149	1.061	1.068	1.119	3.93
66)	T	1,1,1,2-Tetrac...	0.399	0.404	0.390	0.392	0.375	0.375	0.389	3.01
67)	C	Ethyl Benzene	1.697	1.849	1.880	1.928	1.891	1.957	1.867	4.90#
68)	T	m/p-Xylenes	0.654	0.683	0.701	0.737	0.728	0.737	0.707	4.76
69)	T	o-Xylene	0.550	0.645	0.679	0.701	0.690	0.703	0.661	8.89
70)	T	Styrene	1.050	1.093	1.144	1.206	1.205	1.223	1.154	6.11
71)	P	Bromoform	0.286	0.302	0.289	0.298	0.295	0.287	0.293	2.26
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.188	3.402	3.605	3.701	3.570	3.558	3.504	5.21
74)	T	N-amyl acetate	1.223	1.572	1.527	1.552	1.528	1.546	1.491	8.88
75)	P	1,1,2,2-Tetrac...	1.222	1.317	1.190	1.163	1.073	1.052	1.170	8.39
76)	T	1,2,3-Trichlor...	1.246	1.013	1.020	0.958	0.887	0.873	0.999	13.58
77)	T	Bromobenzene	1.114	0.931	0.943	0.921	0.883	0.860	0.942	9.52
78)	T	n-propylbenzene	3.621	4.041	4.188	4.316	4.236	4.233	4.106	6.19
79)	T	2-Chlorotoluene	2.601	2.746	2.700	2.848	2.621	2.581	2.683	3.82
80)	T	1,3,5-Trimethy...	2.418	2.765	3.038	3.099	3.068	3.037	2.904	9.19
81)	T	trans-1,4-Dich...	0.431	0.446	0.423	0.401	0.406	0.421		4.33
82)	T	4-Chlorotoluene	3.049	2.848	2.822	2.838	2.716	2.667	2.823	4.70
83)	T	tert-Butylbenzene	1.893	2.271	2.461	2.648	2.531	2.617	2.403	11.81
84)	T	1,2,4-Trimethy...	2.579	2.766	3.075	3.265	3.148	3.151	2.997	8.86
85)	T	sec-Butylbenzene	2.962	3.145	3.517	3.608	3.538	3.600	3.395	8.04
86)	T	p-Isopropyltol...	2.218	2.518	2.843	3.003	3.050	3.075	2.784	12.43
87)	T	1,3-Dichlorobe...	2.264	1.884	1.802	1.770	1.668	1.642	1.838	12.33
88)	T	1,4-Dichlorobe...	2.773	1.879	1.867	1.782	1.674	1.646	1.937	21.72
89)	T	n-Butylbenzene	2.747	2.454	2.457	2.623	2.619	2.728	2.605	4.88
90)	T	Hexachloroethane	0.681	0.626	0.633	0.617	0.589	0.578	0.621	5.88
91)	T	1,2-Dichlorobe...	2.021	1.879	1.732	1.748	1.618	1.601	1.766	9.07
92)	T	1,2-Dibromo-3-...	0.272	0.274	0.226	0.229	0.217	0.204	0.237	12.28
93)	T	1,2,4-Trichlor...	1.353	0.956	0.881	0.895	0.865	0.852	0.967	19.90
94)	T	Hexachlorobuta...	0.551	0.438	0.403	0.426	0.369	0.359	0.425	16.33
95)	T	Naphthalene	3.355	2.788	2.710	2.953	2.780	2.778	2.894	8.29
96)	T	1,2,3-Trichlor...	1.189	0.939	0.877	0.953	0.841	0.832	0.939	14.09

(#) = Out of Range

1,4-Dichlorobenzene

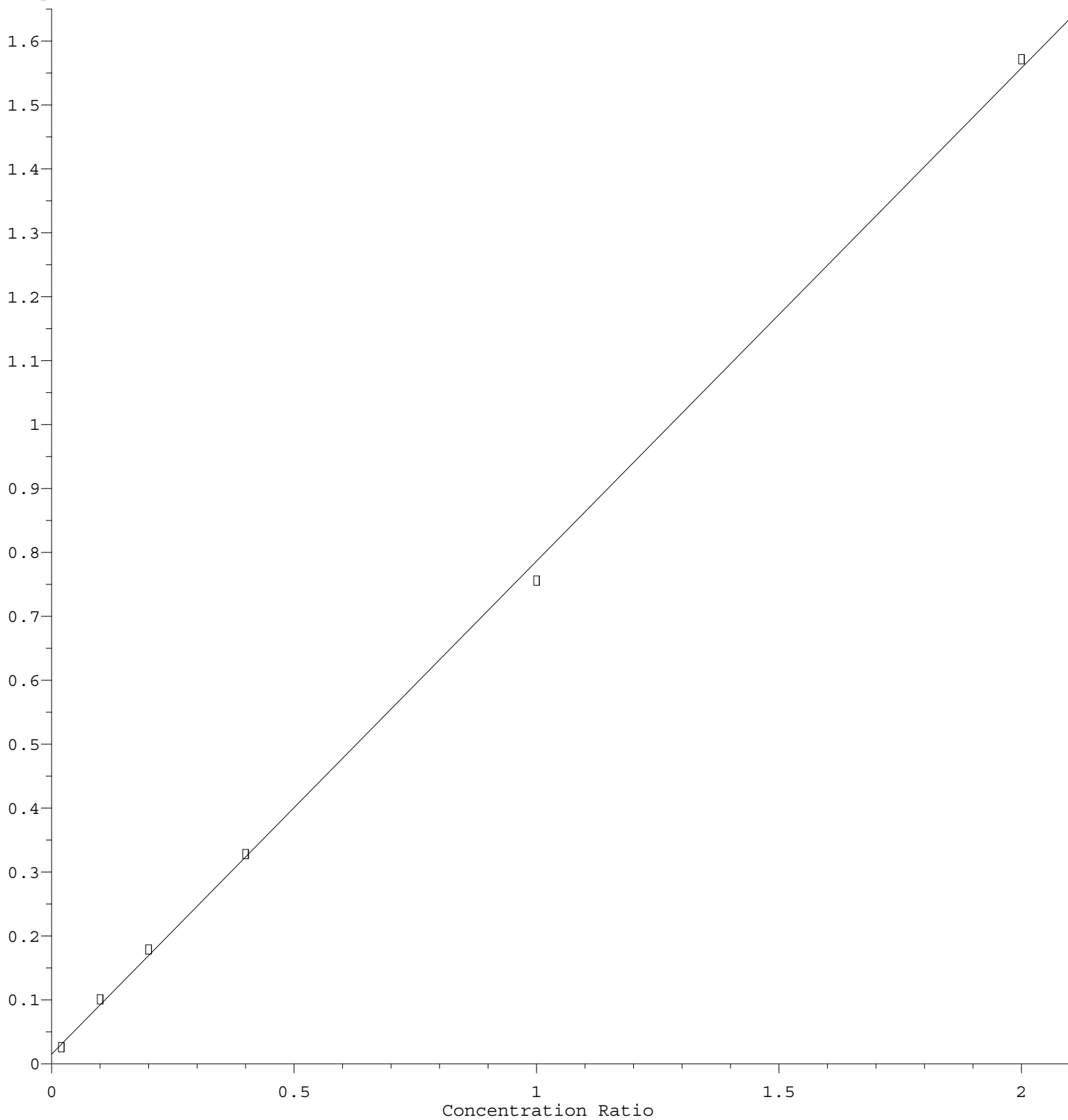
Response Ratio



$R = -2.647e-002 A^2 + 1.683e+000 A + 2.851e-002$
 Coef of Det (r^2) = 0.999927 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
 Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Isopropyl Acetate

Response Ratio



$$\text{Response} = 7.716\text{e-}001 * \text{Amt} + 1.519\text{e-}002$$

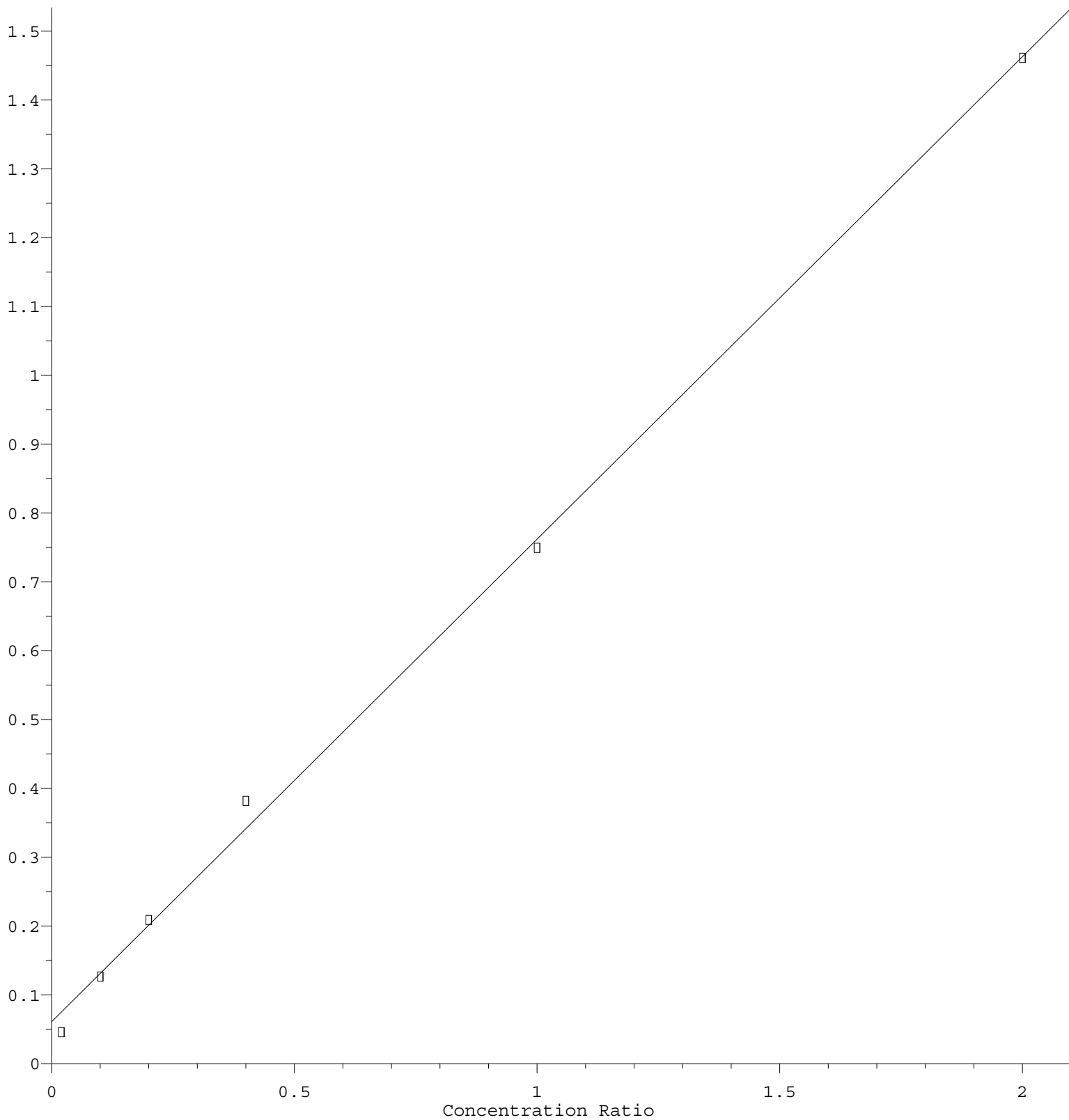
Coef of Det (r^2) = 0.999234 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Methyl Acetate

Response Ratio



$$\text{Response} = 7.012\text{e-}001 * \text{Amt} + 6.084\text{e-}002$$

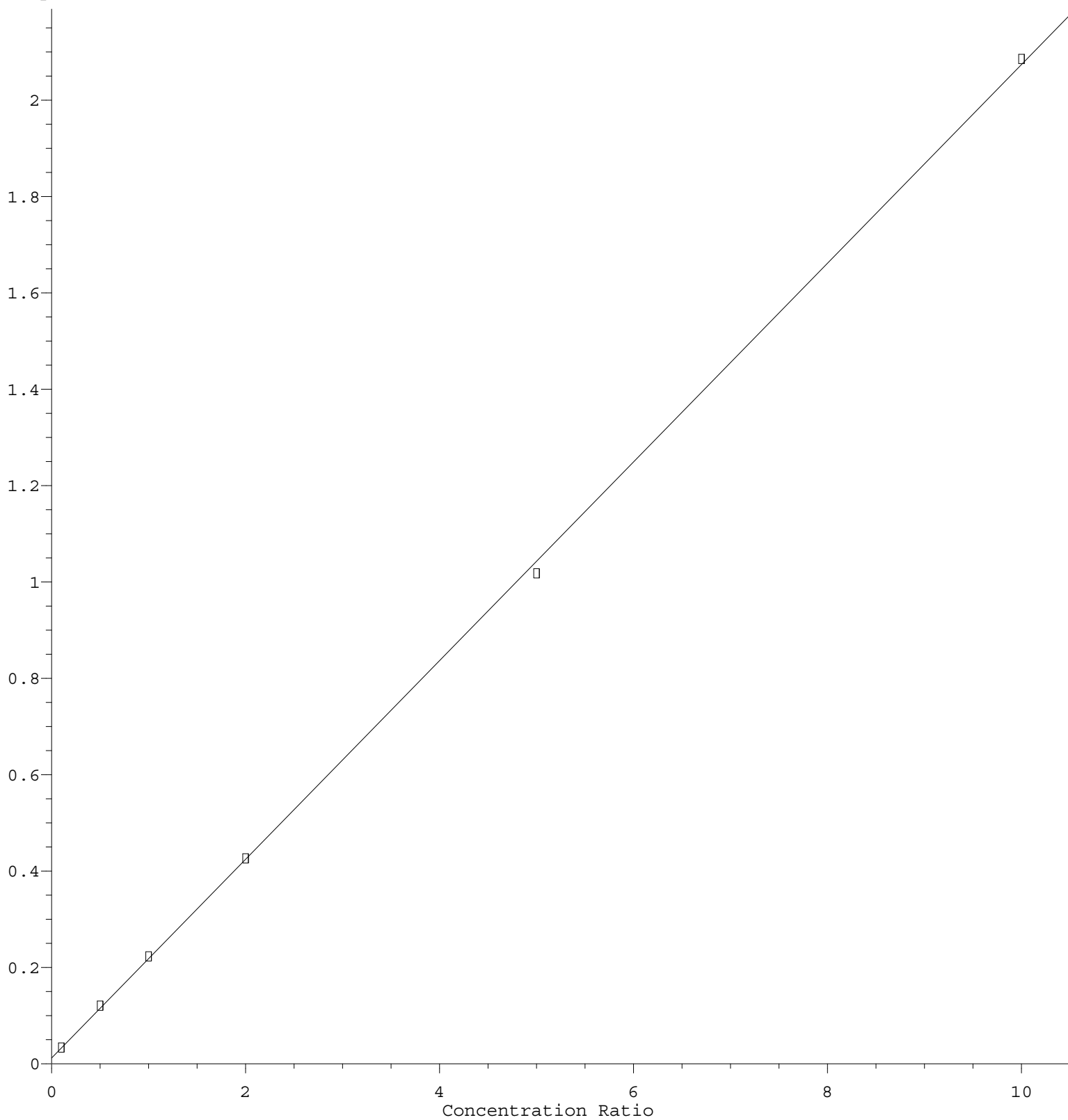
Coef of Det (r^2) = 0.998099 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Acetone

Response Ratio



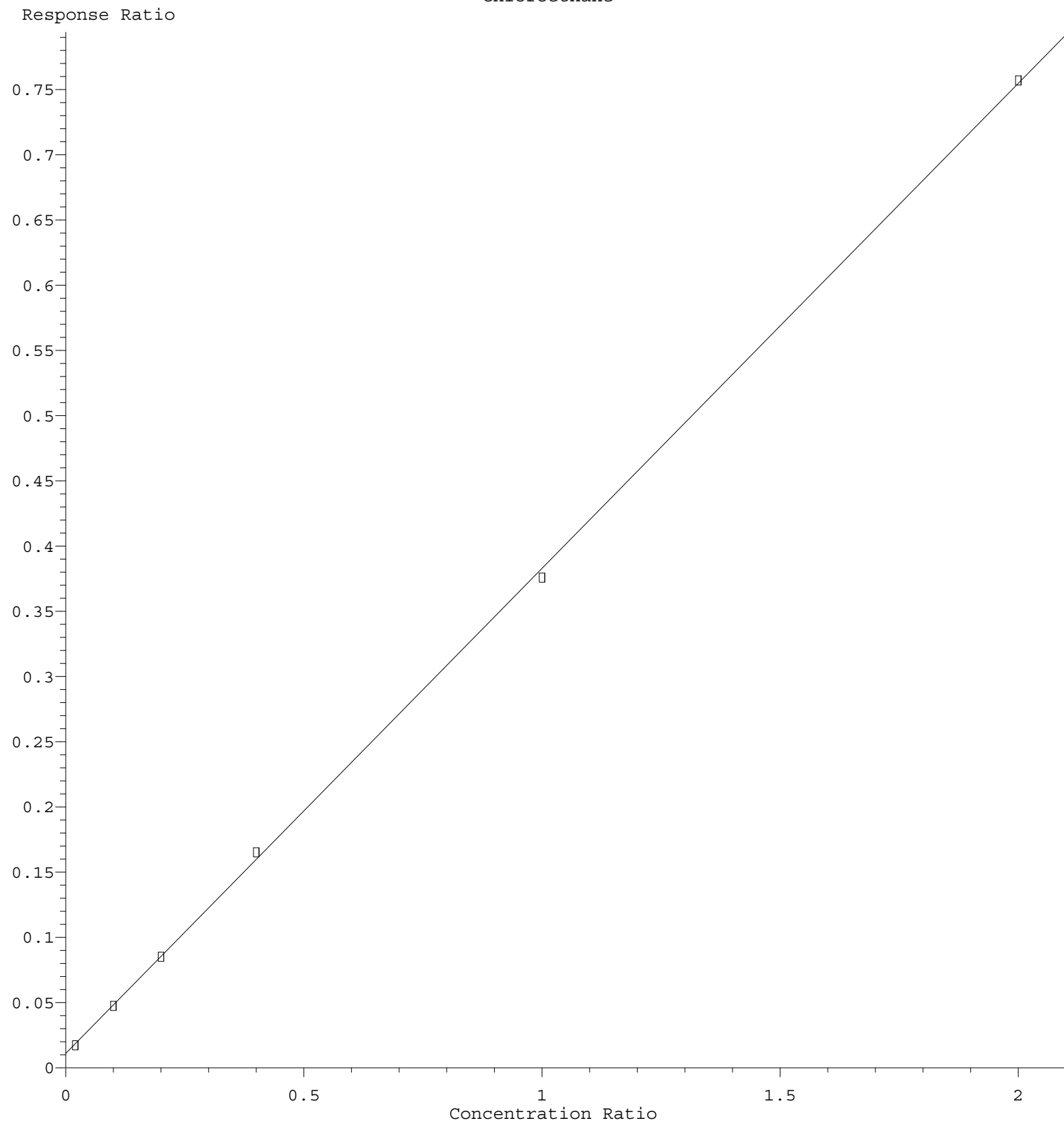
$$\text{Response} = 2.062\text{e-}001 * \text{Amt} + 1.190\text{e-}002$$

Coef of Det (r^2) = 0.999735 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

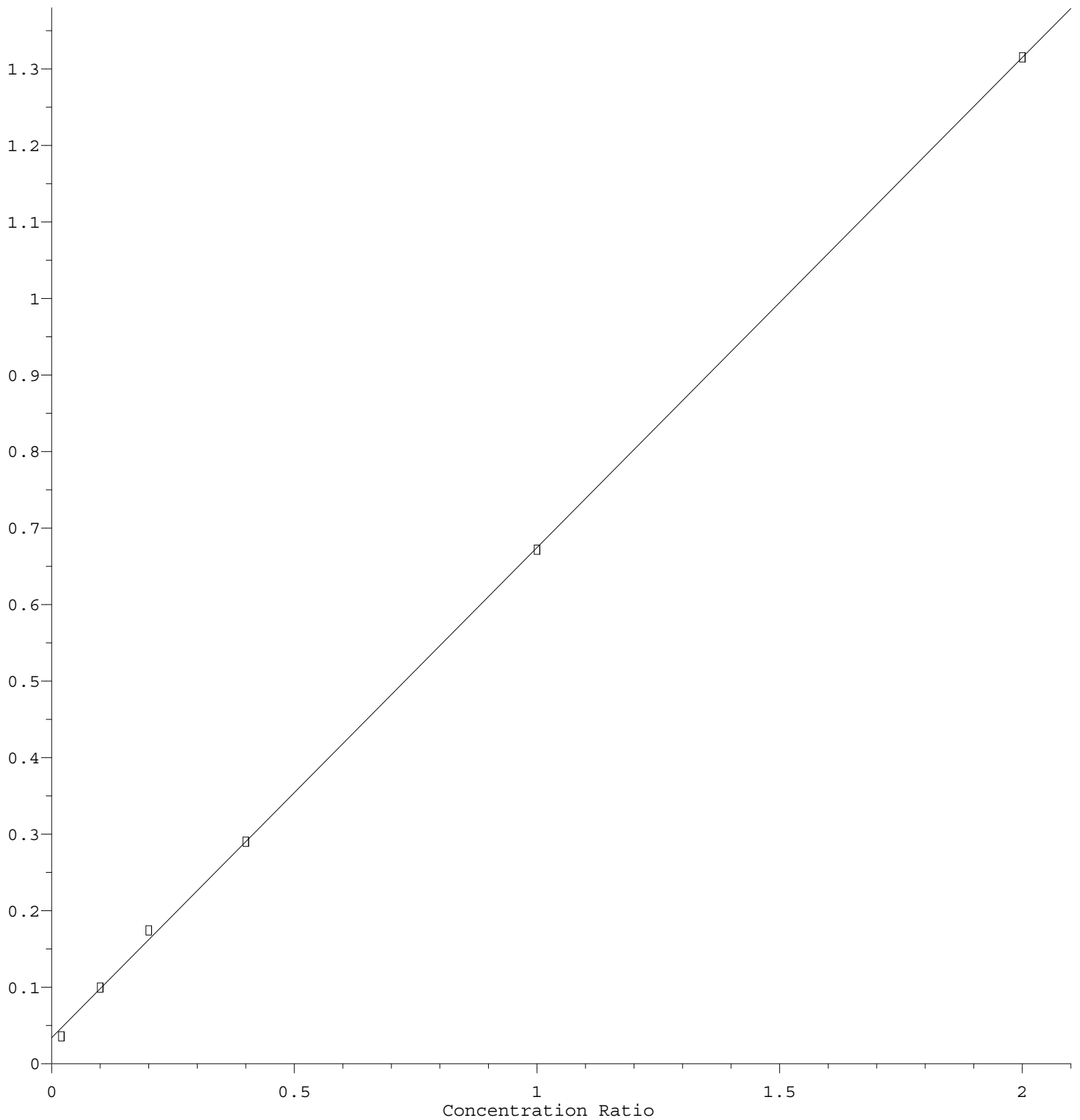
Chloroethane



Response = $3.720 \times 10^{-1} \times \text{Amt} + 1.067 \times 10^{-2}$
Coef of Det (r^2) = 0.999785 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M
Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Chloromethane

Response Ratio



$$\text{Response} = 6.405\text{e-}001 * \text{Amt} + 3.399\text{e-}002$$

Coef of Det (r^2) = 0.999766 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N103024W.M

Calibration Table Last Updated: Thu Oct 31 18:45:38 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084570.D
 Acq On : 30 Oct 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:18:08 2024

Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	187429	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	142702	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	258269	95.404	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	190.800%#
35) Dibromofluoromethane	8.165	113	206417	98.617	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	197.240%#
50) Toluene-d8	10.565	98	783727	101.646	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	203.300%#
62) 4-Bromofluorobenzene	12.847	95	297647	103.292	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	206.580%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	214094	99.364	ug/l	93
3) Chloromethane	2.359	50	246492	100.015	ug/l	97
4) Vinyl Chloride	2.512	62	229760	99.144	ug/l	99
5) Bromomethane	2.901	94	109436	89.128	ug/l	97
6) Chloroethane	3.071	64	141883	100.310	ug/l	98
7) Trichlorofluoromethane	3.465	101	363937	95.335	ug/l	100
8) Diethyl Ether	3.953	74	131399	97.575	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.347	101	212244	98.394	ug/l	99
10) Methyl Iodide	4.577	142	272990	94.692	ug/l	96
11) Tert butyl alcohol	5.547	59	153595	429.840	ug/l	100
12) 1,1-Dichloroethene	4.324	96	205332	96.200	ug/l	98
13) Acrolein	4.171	56	161607	453.545	ug/l	100
14) Allyl chloride	5.012	41	350014	101.116	ug/l	92
15) Acrylonitrile	5.712	53	494070	477.613	ug/l	100
16) Acetone	4.424	43	390888	502.753	ug/l	98
17) Carbon Disulfide	4.700	76	601202	91.464	ug/l	99
18) Methyl Acetate	5.018	43	273870	99.857	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	664800	101.618	ug/l	99
20) Methylene Chloride	5.271	84	226231	95.017	ug/l	90
21) trans-1,2-Dichloroethene	5.777	96	211649	96.569	ug/l	93
22) Diisopropyl ether	6.665	45	696527	101.268	ug/l	99
23) Vinyl Acetate	6.600	43	2441301	514.697	ug/l	99
24) 1,1-Dichloroethane	6.559	63	399999	96.866	ug/l	98
25) 2-Butanone	7.483	43	591863	468.634	ug/l	98
26) 2,2-Dichloropropane	7.483	77	362927	100.979	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	252932	98.835	ug/l	96
28) Bromochloromethane	7.812	49	180881	109.944	ug/l	96
29) Tetrahydrofuran	7.835	42	415033	495.347	ug/l	97
30) Chloroform	7.959	83	412084	98.045	ug/l	100
31) Cyclohexane	8.253	56	358350	95.881	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	374940	98.012	ug/l	98
36) 1,1-Dichloropropene	8.365	75	294131	101.323	ug/l	99
37) Ethyl Acetate	7.559	43	262200	99.553	ug/l	98
38) Carbon Tetrachloride	8.359	117	327651	100.981	ug/l	98
39) Methylcyclohexane	9.600	83	337677	114.344	ug/l	97
40) Benzene	8.600	78	924038	99.119	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084570.D
 Acq On : 30 Oct 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	145041	102.406	ug/l	95
42) 1,2-Dichloroethane	8.665	62	301932	100.005	ug/l	100
43) Isopropyl Acetate	8.688	43	485962	100.857	ug/l	99
44) Trichloroethene	9.347	130	209438	97.413	ug/l	98
45) 1,2-Dichloropropane	9.618	63	220258	100.718	ug/l	95
46) Dibromomethane	9.706	93	151661	98.281	ug/l	98
47) Bromodichloromethane	9.888	83	326466	100.364	ug/l #	96
48) Methyl methacrylate	9.677	41	219838	107.249	ug/l	98
49) 1,4-Dioxane	9.694	88	76189	2097.505	ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	1312148	522.607	ug/l	99
52) Toluene	10.629	92	570832	104.696	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	341196	101.334	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	366358	102.804	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	207689	101.124	ug/l	97
56) Ethyl methacrylate	10.871	69	340367	114.573	ug/l	97
57) 1,3-Dichloropropane	11.165	76	357131	101.320	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	849817	611.330	ug/l	98
59) 2-Hexanone	11.194	43	971064	531.346	ug/l	97
60) Dibromochloromethane	11.359	129	249733	106.691	ug/l	99
61) 1,2-Dibromoethane	11.471	107	210043	99.870	ug/l	100
64) Tetrachloroethene	11.100	164	184478	98.169	ug/l	96
65) Chlorobenzene	11.888	112	603595	95.500	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	212055	96.458	ug/l	99
67) Ethyl Benzene	11.965	91	1106035	104.837	ug/l	99
68) m/p-Xylenes	12.070	106	832448	208.419	ug/l	99
69) o-Xylene	12.400	106	397449	106.372	ug/l	100
70) Styrene	12.412	104	691175	106.042	ug/l	98
71) Bromoform	12.582	173	162189	98.044	ug/l #	97
73) Isopropylbenzene	12.694	105	1015352	101.533	ug/l	100
74) N-amyl acetate	12.494	43	441232	103.666	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	300162	89.924	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	249062m	88.446	ug/l	
77) Bromobenzene	12.982	156	245558	91.341	ug/l	94
78) n-propylbenzene	13.035	91	1208185	103.100	ug/l	98
79) 2-Chlorotoluene	13.123	91	736738	96.217	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	866736	104.573	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	115847	96.347	ug/l	98
82) 4-Chlorotoluene	13.217	91	761196	94.462	ug/l	99
83) tert-Butylbenzene	13.435	119	746926	108.888	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	899374	105.136	ug/l	99
85) sec-Butylbenzene	13.617	105	1027413	106.032	ug/l	99
86) p-Isopropyltoluene	13.729	119	877717	110.451	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	468620	89.320	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	469714	100.067	ug/l	98
89) n-Butylbenzene	14.053	91	778487	104.727	ug/l	100
90) Hexachloroethane	14.335	117	165030	93.123	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	456925	90.631	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	58247	86.136	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	243087	88.091	ug/l	99
94) Hexachlorobutadiene	15.500	225	102558	84.631	ug/l	99
95) Naphthalene	15.641	128	792903	95.997	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	237515	88.667	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084570.D
Acq On : 30 Oct 2024 11:46
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

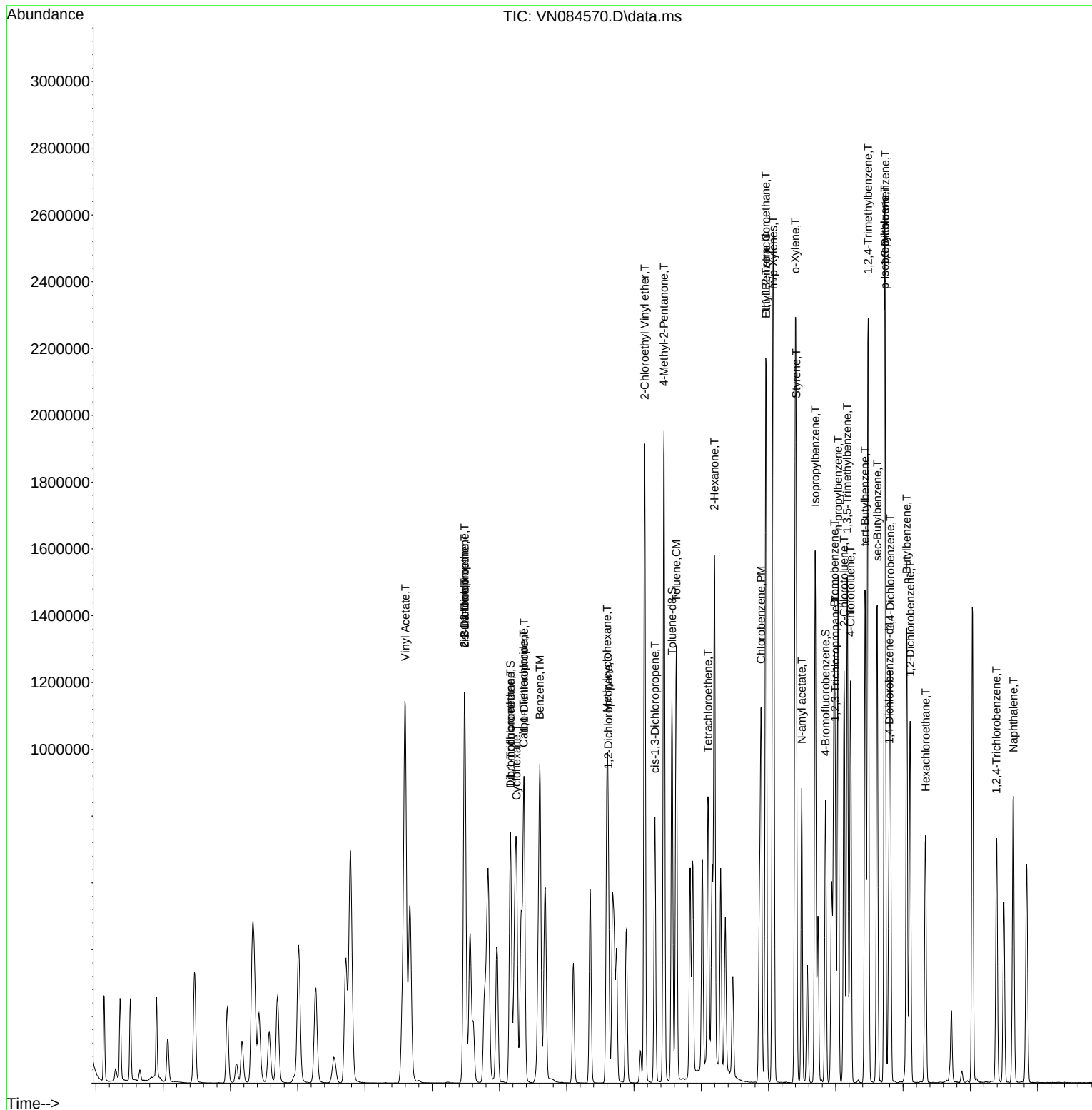
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084570.D  
Acq On    : 30 Oct 2024   11:46  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084571.D
 Acq On : 30 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	186594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138307	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134521	49.914	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.820%
35) Dibromofluoromethane	8.165	113	107131	50.801	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.600%
50) Toluene-d8	10.565	98	405874	52.247	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.500%
62) 4-Bromofluorobenzene	12.847	95	153622	52.913	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.820%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	103092	48.061	ug/l	97
3) Chloromethane	2.365	50	125344	49.788	ug/l	95
4) Vinyl Chloride	2.512	62	112961	48.962	ug/l	95
5) Bromomethane	2.901	94	55194	45.153	ug/l	100
6) Chloroethane	3.071	64	70126	49.078	ug/l	96
7) Trichlorofluoromethane	3.471	101	178947	47.086	ug/l	97
8) Diethyl Ether	3.953	74	65946	49.190	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	103864	48.366	ug/l	98
10) Methyl Iodide	4.583	142	137274	47.829	ug/l	97
11) Tert butyl alcohol	5.536	59	80598	226.565	ug/l	100
12) 1,1-Dichloroethene	4.324	96	100445	47.270	ug/l	96
13) Acrolein	4.171	56	82129	231.524	ug/l	99
14) Allyl chloride	5.012	41	171045	49.635	ug/l	92
15) Acrylonitrile	5.718	53	252853	245.525	ug/l	98
16) Acetone	4.424	43	189949	243.925	ug/l	99
17) Carbon Disulfide	4.700	76	299041	45.698	ug/l	99
18) Methyl Acetate	5.024	43	139826	49.097	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	328099	50.376	ug/l	97
20) Methylene Chloride	5.271	84	112282	47.370	ug/l	92
21) trans-1,2-Dichloroethene	5.777	96	105050	48.146	ug/l	96
22) Diisopropyl ether	6.671	45	346126	50.549	ug/l	98
23) Vinyl Acetate	6.600	43	1212022	256.673	ug/l	99
24) 1,1-Dichloroethane	6.559	63	198817	48.362	ug/l	100
25) 2-Butanone	7.483	43	294207	233.994	ug/l	98
26) 2,2-Dichloropropane	7.483	77	175511	49.052	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	123436	48.450	ug/l	97
28) Bromochloromethane	7.812	49	95269	58.166	ug/l	95
29) Tetrahydrofuran	7.835	42	206980	248.139	ug/l	97
30) Chloroform	7.965	83	202589	48.417	ug/l	98
31) Cyclohexane	8.253	56	175038	47.043	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	184986	48.573	ug/l	98
36) 1,1-Dichloropropene	8.365	75	140593	48.071	ug/l	99
37) Ethyl Acetate	7.553	43	131332	49.493	ug/l	99
38) Carbon Tetrachloride	8.359	117	160134	48.985	ug/l	97
39) Methylcyclohexane	9.600	83	158489	53.267	ug/l	99
40) Benzene	8.600	78	451074	48.024	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084571.D
 Acq On : 30 Oct 2024 12:09
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	76791	53.814	ug/l	97
42) 1,2-Dichloroethane	8.665	62	153960	50.614	ug/l	100
43) Isopropyl Acetate	8.688	43	235517	48.004	ug/l	99
44) Trichloroethene	9.353	130	104498	48.241	ug/l	98
45) 1,2-Dichloropropane	9.618	63	108302	49.154	ug/l	95
46) Dibromomethane	9.706	93	76019	48.895	ug/l	97
47) Bromodichloromethane	9.888	83	162307	49.525	ug/l	97
48) Methyl methacrylate	9.677	41	107828	52.212	ug/l	98
49) 1,4-Dioxane	9.694	88	37719	1030.669	ug/l #	82
51) 4-Methyl-2-Pentanone	10.447	43	658351	260.254	ug/l	98
52) Toluene	10.629	92	280034	50.978	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	169085	49.843	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	180909	50.386	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	102401	49.487	ug/l	98
56) Ethyl methacrylate	10.871	69	168060	56.150	ug/l	96
57) 1,3-Dichloropropane	11.159	76	175929	49.539	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	407857	291.210	ug/l	97
59) 2-Hexanone	11.194	43	485391	263.615	ug/l	98
60) Dibromochloromethane	11.359	129	122816	52.078	ug/l	98
61) 1,2-Dibromoethane	11.465	107	103901	49.034	ug/l	98
64) Tetrachloroethene	11.100	164	87457	47.088	ug/l	96
65) Chlorobenzene	11.888	112	296199	47.416	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	104844	48.252	ug/l	99
67) Ethyl Benzene	11.965	91	528107	50.646	ug/l	100
68) m/p-Xylenes	12.070	106	406816	103.053	ug/l	98
69) o-Xylene	12.394	106	192710	52.183	ug/l	99
70) Styrene	12.412	104	336570	52.245	ug/l	99
71) Bromoform	12.576	173	82245	50.303	ug/l #	99
73) Isopropylbenzene	12.694	105	493742	50.942	ug/l	99
74) N-amyl acetate	12.494	43	211326	51.228	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	148441	45.884	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	122649m	44.939	ug/l	
77) Bromobenzene	12.982	156	122062	46.847	ug/l	95
78) n-propylbenzene	13.035	91	585903	51.587	ug/l	100
79) 2-Chlorotoluene	13.123	91	362526	48.850	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	424332	52.823	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	55485	47.612	ug/l	92
82) 4-Chlorotoluene	13.217	91	375636	48.097	ug/l	99
83) tert-Butylbenzene	13.435	119	350031	52.649	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	435421	52.518	ug/l	99
85) sec-Butylbenzene	13.612	105	489305	52.102	ug/l	100
86) p-Isopropyltoluene	13.729	119	421834	54.770	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	230686	45.366	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	231568	49.658	ug/l	98
89) n-Butylbenzene	14.053	91	362215	50.276	ug/l	99
90) Hexachloroethane	14.335	117	81515	47.459	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	223772	45.796	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	29987	45.754	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	119579	44.711	ug/l	99
94) Hexachlorobutadiene	15.500	225	51033	43.451	ug/l	98
95) Naphthalene	15.635	128	384553	48.037	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116341	44.812	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084571.D
Acq On : 30 Oct 2024 12:09
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:18:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

TIC: VN084571.D\data.ms

The chromatogram displays a series of peaks corresponding to various compounds. Key labeled peaks include:

- Vinyl Acetate, T
- Methyl tert-butyl Ether, T
- 2-Ethyl-1-hexanol, T
- Pentamethylsilane, S
- Diisobutylamine, T
- 1,2-Dichloropropane, T
- Benzene, TM
- 1,4-Difluorobenzene, I
- 1,2-Dichloroethane, T
- cis-1,3-Dichloropropene, T
- Toluene, CM
- 2-Hexanone, T
- Tetrachloroethene, T
- Chlorobenzene, TM
- Ethyl Benzoate, T
- N-amyl acetate, T
- Isopropylbenzene, T
- 4-Bromofluorobenzene, S
- 1,2-Dichlorobenzene, T
- tert-Butylbenzene, T
- sec-Butylbenzene, T
- 1,4-Dichlorobenzene, T
- Hexachloroethane, T
- 1,2,4-Trichlorobenzene, T
- Naphthalene, T

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084572.D
 Acq On : 30 Oct 2024 12:33
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	187576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	319890	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130374	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	53102	19.600	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	39.200%#
35) Dibromofluoromethane	8.165	113	41686	19.252	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.500%#
50) Toluene-d8	10.565	98	155563	19.504	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.000%#
62) 4-Bromofluorobenzene	12.847	95	57622	19.330	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.660%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	41443	19.219	ug/l	99
3) Chloromethane	2.359	50	54414	19.993	ug/l	97
4) Vinyl Chloride	2.512	62	46710	20.140	ug/l	93
5) Bromomethane	2.901	94	23244	18.916	ug/l	100
6) Chloroethane	3.042	64	30992	20.772	ug/l	94
7) Trichlorofluoromethane	3.442	101	76339	19.982	ug/l	96
8) Diethyl Ether	3.948	74	26904	19.963	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.342	101	42830	19.840	ug/l	99
10) Methyl Iodide	4.565	142	57315	19.865	ug/l	96
11) Tert butyl alcohol	5.559	59	33927	94.871	ug/l	99
12) 1,1-Dichloroethene	4.318	96	41980	19.653	ug/l	89
13) Acrolein	4.171	56	38007	106.582	ug/l	96
14) Allyl chloride	5.006	41	70420	20.328	ug/l	92
15) Acrylonitrile	5.718	53	105912	102.304	ug/l	97
16) Acetone	4.430	43	79971	100.481	ug/l	99
17) Carbon Disulfide	4.689	76	127521	19.385	ug/l	98
18) Methyl Acetate	5.024	43	71604	22.882	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	135170	20.645	ug/l	100
20) Methylene Chloride	5.271	84	47467	19.921	ug/l	88
21) trans-1,2-Dichloroethene	5.771	96	44697	20.378	ug/l	93
22) Diisopropyl ether	6.671	45	144115	20.937	ug/l	97
23) Vinyl Acetate	6.594	43	490034	103.232	ug/l	100
24) 1,1-Dichloroethane	6.559	63	83555	20.218	ug/l	97
25) 2-Butanone	7.483	43	130541	103.281	ug/l	99
26) 2,2-Dichloropropane	7.483	77	73066	20.313	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	52279	20.412	ug/l	97
28) Bromochloromethane	7.806	49	29146	17.702	ug/l	91
29) Tetrahydrofuran	7.836	42	86837	103.560	ug/l	97
30) Chloroform	7.959	83	85675	20.368	ug/l	100
31) Cyclohexane	8.247	56	71698	19.169	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	78458	20.493	ug/l	97
36) 1,1-Dichloropropene	8.371	75	60208	20.050	ug/l	99
37) Ethyl Acetate	7.559	43	54942	20.165	ug/l	97
38) Carbon Tetrachloride	8.359	117	68076	20.282	ug/l	98
39) Methylcyclohexane	9.600	83	63305	20.722	ug/l	93
40) Benzene	8.600	78	193129	20.026	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084572.D
 Acq On : 30 Oct 2024 12:33
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	30596	20.882	ug/l	97
42) 1,2-Dichloroethane	8.665	62	63026	20.180	ug/l	99
43) Isopropyl Acetate	8.688	43	104951	20.277	ug/l	98
44) Trichloroethene	9.347	130	44176	19.862	ug/l	99
45) 1,2-Dichloropropane	9.618	63	45764	20.229	ug/l	93
46) Dibromomethane	9.706	93	32857	20.583	ug/l	99
47) Bromodichloromethane	9.888	83	67288	19.997	ug/l #	98
48) Methyl methacrylate	9.682	41	43398	20.466	ug/l	97
49) 1,4-Dioxane	9.700	88	15417	410.291	ug/l #	79
51) 4-Methyl-2-Pentanone	10.447	43	266010	102.417	ug/l	100
52) Toluene	10.629	92	117530	20.838	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	68847	19.766	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	74498	20.208	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	42791	20.141	ug/l	95
56) Ethyl methacrylate	10.871	69	63347	20.613	ug/l	96
57) 1,3-Dichloropropane	11.159	76	74082	20.317	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	146372	101.786	ug/l	98
59) 2-Hexanone	11.194	43	192335	101.735	ug/l	99
60) Dibromochloromethane	11.359	129	50039	20.665	ug/l	99
61) 1,2-Dibromoethane	11.465	107	43666	20.070	ug/l	100
64) Tetrachloroethene	11.106	164	36798	20.054	ug/l	92
65) Chlorobenzene	11.888	112	126753	20.539	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	43201	20.125	ug/l	99
67) Ethyl Benzene	11.965	91	212737	20.651	ug/l	99
68) m/p-Xylenes	12.071	106	162754	41.732	ug/l	99
69) o-Xylene	12.400	106	77396	21.214	ug/l	99
70) Styrene	12.412	104	133059	20.907	ug/l	96
71) Bromoform	12.576	173	32901	20.369	ug/l #	99
73) Isopropylbenzene	12.694	105	193023	21.127	ug/l	100
74) N-ethyl acetate	12.494	43	80939	20.815	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60645	19.886	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	49947m	19.414	ug/l	
77) Bromobenzene	12.976	156	48017	19.550	ug/l	97
78) n-propylbenzene	13.035	91	225085	21.024	ug/l	99
79) 2-Chlorotoluene	13.123	91	148533	21.233	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	161619	21.343	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	22047	20.070	ug/l #	85
82) 4-Chlorotoluene	13.218	91	147989	20.102	ug/l	100
83) tert-Butylbenzene	13.435	119	138079	22.033	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	170246	21.783	ug/l	99
85) sec-Butylbenzene	13.618	105	188158	21.255	ug/l	100
86) p-Isopropyltoluene	13.729	119	156598	21.569	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	92310	19.258	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	92940	20.458	ug/l	99
89) n-Butylbenzene	14.053	91	136771	20.139	ug/l	99
90) Hexachloroethane	14.329	117	32199	19.887	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	91138	19.787	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11962	19.362	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	46698	18.523	ug/l	96
94) Hexachlorobutadiene	15.500	225	22216	20.066	ug/l	96
95) Naphthalene	15.635	128	153972	20.404	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	49699	20.308	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084572.D
Acq On : 30 Oct 2024 12:33
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

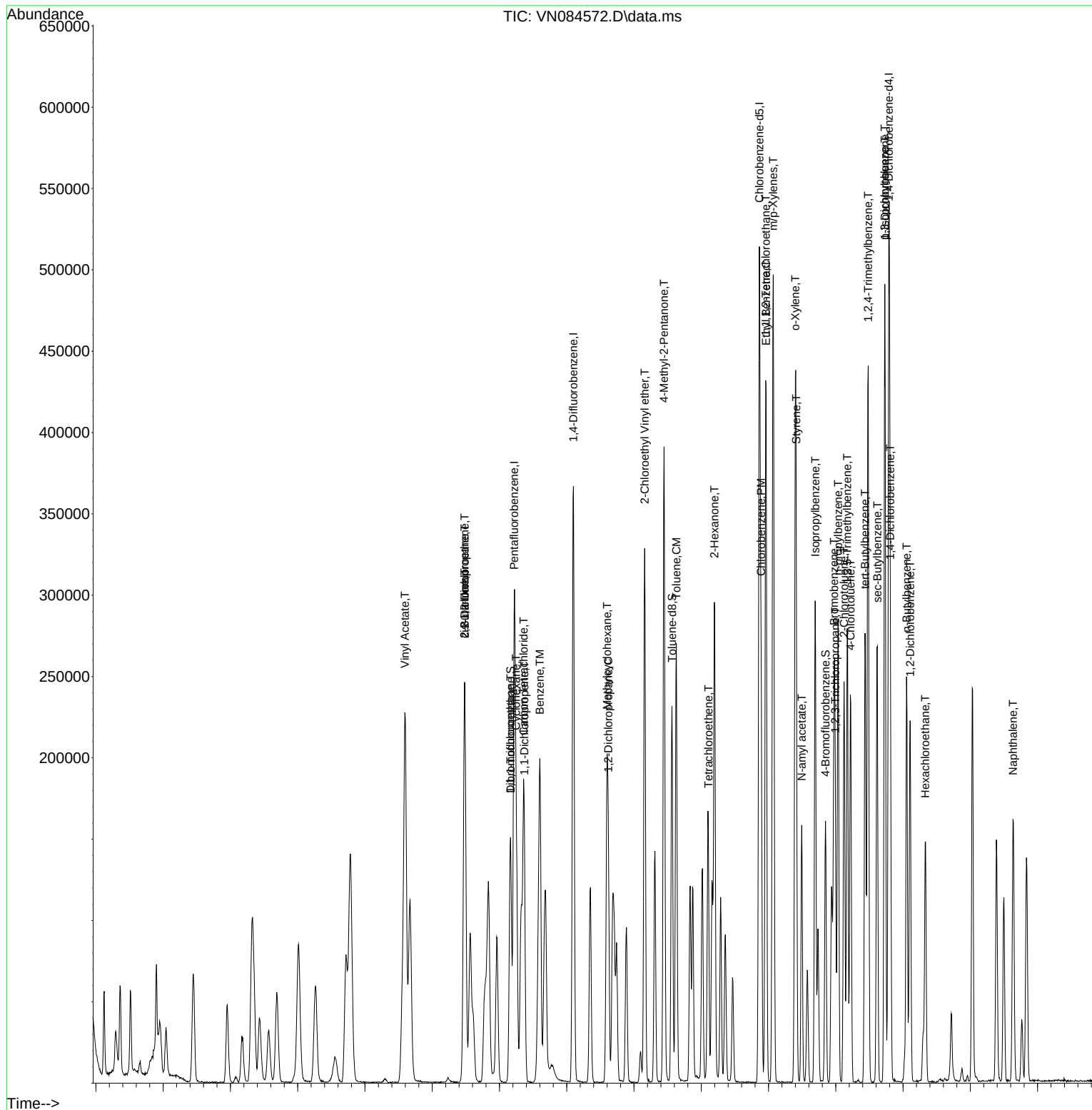
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\  
Data File : VN084572.D  
Acq On    : 30 Oct 2024 12:33  
Operator  : JC\MD  
Sample    : VSTDICC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1 Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084573.D
 Acq On : 30 Oct 2024 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	179863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	25986	10.003	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	20.000%#		
35) Dibromofluoromethane	8.159	113	20969	9.921	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.840%#		
50) Toluene-d8	10.565	98	76892	9.876	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	19.760%#		
62) 4-Bromofluorobenzene	12.847	95	28191	9.689	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	19.380%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	21501	10.399	ug/l	96
3) Chloromethane	2.359	50	31342	10.950	ug/l	98
4) Vinyl Chloride	2.512	62	22896	10.295	ug/l	93
5) Bromomethane	2.901	94	12071	10.245	ug/l	95
6) Chloroethane	3.059	64	15315	10.010	ug/l #	83
7) Trichlorofluoromethane	3.459	101	36747	10.031	ug/l	99
8) Diethyl Ether	3.953	74	13090	10.129	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.353	101	21028	10.158	ug/l	98
10) Methyl Iodide	4.577	142	28795	10.408	ug/l	97
11) Tert butyl alcohol	5.542	59	17899	52.198	ug/l #	85
12) 1,1-Dichloroethene	4.324	96	20669	10.091	ug/l	87
13) Acrolein	4.177	56	17284	50.547	ug/l	99
14) Allyl chloride	5.012	41	33287	10.021	ug/l	93
15) Acrylonitrile	5.718	53	50731	51.104	ug/l	98
16) Acetone	4.430	43	40100	51.168	ug/l	93
17) Carbon Disulfide	4.695	76	61652	9.774	ug/l	97
18) Methyl Acetate	5.030	43	37538	10.544	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	64007	10.195	ug/l	97
20) Methylene Chloride	5.265	84	23684	10.366	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	21581	10.261	ug/l	84
22) Diisopropyl ether	6.671	45	68672	10.404	ug/l #	97
23) Vinyl Acetate	6.600	43	233407	51.279	ug/l	99
24) 1,1-Dichloroethane	6.565	63	40556	10.234	ug/l #	95
25) 2-Butanone	7.483	43	60876	50.229	ug/l	96
26) 2,2-Dichloropropane	7.483	77	35189	10.203	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	24626	10.028	ug/l	99
28) Bromochloromethane	7.806	49	14918	9.449	ug/l #	15
29) Tetrahydrofuran	7.841	42	42072	52.326	ug/l	99
30) Chloroform	7.965	83	41496	10.288	ug/l	97
31) Cyclohexane	8.247	56	37514	10.460	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	38612	10.518	ug/l	94
36) 1,1-Dichloropropene	8.371	75	29218	9.968	ug/l	99
37) Ethyl Acetate	7.559	43	25249	9.494	ug/l	96
38) Carbon Tetrachloride	8.359	117	34214	10.443	ug/l	95
39) Methylcyclohexane	9.600	83	30390	10.191	ug/l	96
40) Benzene	8.606	78	94121	9.999	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084573.D
 Acq On : 30 Oct 2024 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:18:08 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	14485	10.128	ug/l	96
42) 1,2-Dichloroethane	8.671	62	30752	10.087	ug/l	99
43) Isopropyl Acetate	8.688	43	55871	10.611	ug/l	94
44) Trichloroethene	9.353	130	21099	9.719	ug/l	98
45) 1,2-Dichloropropane	9.618	63	22314	10.105	ug/l	96
46) Dibromomethane	9.706	93	15211	9.762	ug/l	99
47) Bromodichloromethane	9.883	83	32612	9.929	ug/l #	93
48) Methyl methacrylate	9.683	41	20961	10.127	ug/l	98
49) 1,4-Dioxane	9.700	88	7375	201.076	ug/l #	76
51) 4-Methyl-2-Pentanone	10.447	43	130324	51.405	ug/l	99
52) Toluene	10.630	92	56321	10.230	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	33220	9.771	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	35562	9.883	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	21367	10.303	ug/l	94
56) Ethyl methacrylate	10.871	69	29804	9.936	ug/l	98
57) 1,3-Dichloropropane	11.165	76	35790	10.056	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	66790	47.583	ug/l	97
59) 2-Hexanone	11.200	43	92772	50.273	ug/l	100
60) Dibromochloromethane	11.359	129	24541	10.383	ug/l	97
61) 1,2-Dibromoethane	11.471	107	20895	9.839	ug/l	97
64) Tetrachloroethene	11.100	164	18777	10.439	ug/l	94
65) Chlorobenzene	11.888	112	60746	10.041	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	21080	10.018	ug/l	98
67) Ethyl Benzene	11.965	91	101653	10.067	ug/l	99
68) m/p-Xylenes	12.071	106	75857	19.842	ug/l	100
69) o-Xylene	12.394	106	36696	10.261	ug/l	100
70) Styrene	12.412	104	61865	9.916	ug/l	98
71) Bromoform	12.576	173	15630	9.871	ug/l #	95
73) Isopropylbenzene	12.694	105	91683	10.287	ug/l	98
74) N-amyl acetate	12.494	43	38841	10.240	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30270	10.175	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	25940m	10.336	ug/l	
77) Bromobenzene	12.982	156	23987	10.012	ug/l	94
78) n-propylbenzene	13.035	91	106518	10.199	ug/l	99
79) 2-Chlorotoluene	13.123	91	68678	10.064	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	77273	10.461	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	11334	10.577	ug/l	96
82) 4-Chlorotoluene	13.218	91	71787	9.996	ug/l	99
83) tert-Butylbenzene	13.435	119	62600	10.240	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	78207	10.258	ug/l	98
85) sec-Butylbenzene	13.612	105	89469	10.361	ug/l	99
86) p-Isopropyltoluene	13.729	119	72307	10.210	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	45832	9.802	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	47483	10.276	ug/l	97
89) n-Butylbenzene	14.053	91	62495	9.433	ug/l	100
90) Hexachloroethane	14.335	117	16100	10.194	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	44055	9.805	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5744	9.531	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	22413	9.114	ug/l	97
94) Hexachlorobutadiene	15.494	225	10263	9.503	ug/l	97
95) Naphthalene	15.641	128	68919	9.363	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	22303	9.342	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

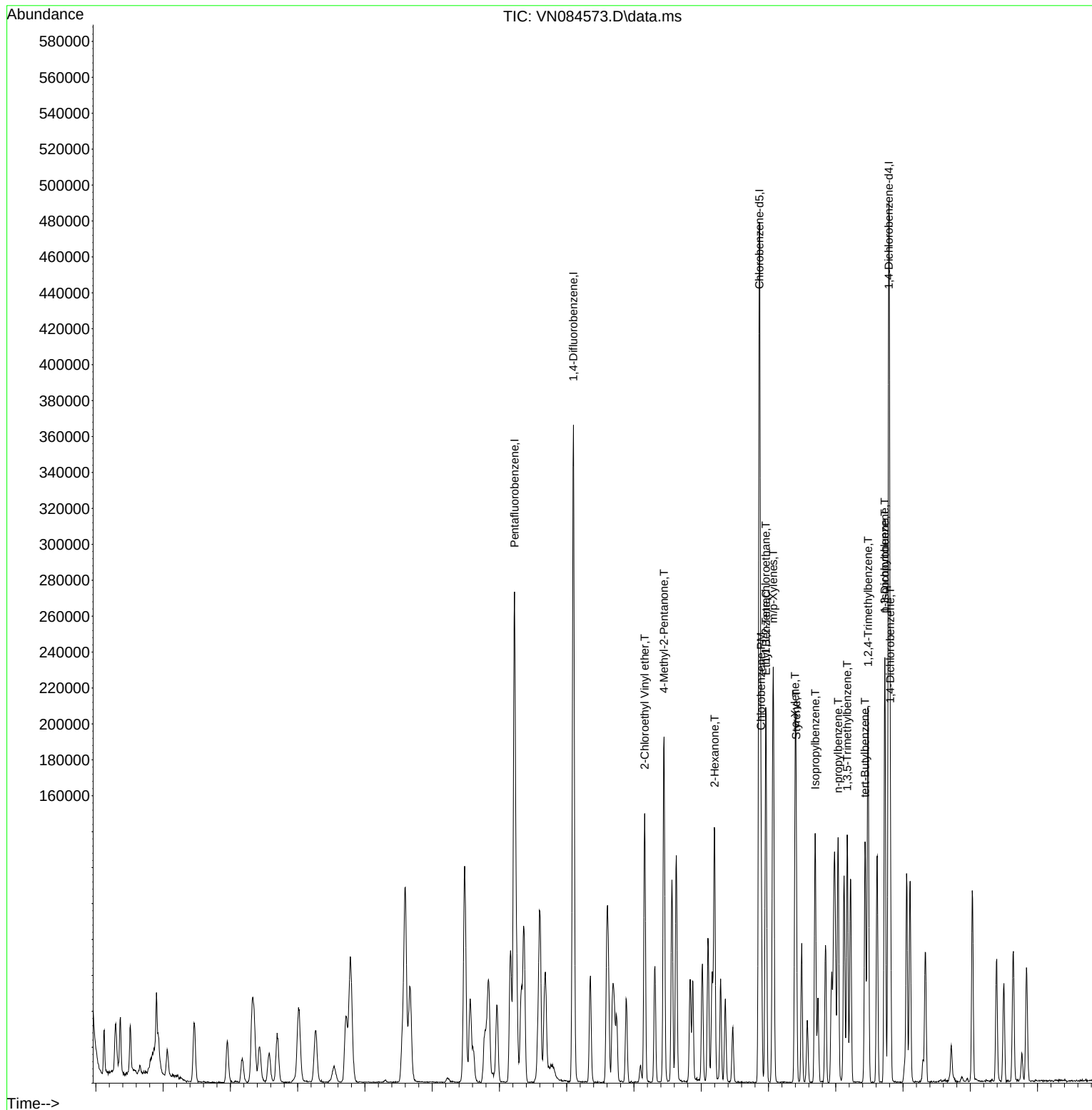
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084573.D
Acq On : 30 Oct 2024 12:57
Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084574.D
 Acq On : 30 Oct 2024 13:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time : Oct 31 18:19:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	171598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297777	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118229	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	13227	5.337	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.680%#
35) Dibromofluoromethane	8.165	113	10512	5.215	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.440%#
50) Toluene-d8	10.565	98	36225	4.879	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	9.760%#
62) 4-Bromofluorobenzene	12.847	95	13506	4.867	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.740%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	10192	5.167	ug/l	93
3) Chloromethane	2.360	50	17076	5.115	ug/l	97
4) Vinyl Chloride	2.513	62	11174	5.267	ug/l	96
5) Bromomethane	2.901	94	6944	6.177	ug/l	98
6) Chloroethane	3.060	64	8146	4.946	ug/l	98
7) Trichlorofluoromethane	3.460	101	18362	5.254	ug/l	98
8) Diethyl Ether	3.954	74	6372	5.168	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.348	101	10090	5.109	ug/l	99
10) Methyl Iodide	4.571	142	14021	5.312	ug/l #	96
11) Tert butyl alcohol	5.536	59	10153	31.035	ug/l #	87
12) 1,1-Dichloroethene	4.324	96	9474	4.848	ug/l	91
13) Acrolein	4.183	56	8890	27.251	ug/l	97
14) Allyl chloride	5.012	41	16771	5.292	ug/l	94
15) Acrylonitrile	5.724	53	25212	26.621	ug/l	99
16) Acetone	4.430	43	20706	26.370	ug/l	91
17) Carbon Disulfide	4.689	76	30614	5.087	ug/l #	86
18) Methyl Acetate	5.030	43	21727	4.691	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	30655	5.118	ug/l #	89
20) Methylene Chloride	5.265	84	12258	5.623	ug/l	91
21) trans-1,2-Dichloroethene	5.771	96	10024	4.996	ug/l	94
22) Diisopropyl ether	6.671	45	31631	5.023	ug/l	93
23) Vinyl Acetate	6.601	43	111267	25.622	ug/l	98
24) 1,1-Dichloroethane	6.559	63	20644	5.460	ug/l	96
25) 2-Butanone	7.489	43	31742	27.452	ug/l	97
26) 2,2-Dichloropropane	7.483	77	16462	5.003	ug/l	94
27) cis-1,2-Dichloroethene	7.483	96	12105	5.167	ug/l	98
28) Bromochloromethane	7.806	49	7002	4.649	ug/l #	91
29) Tetrahydrofuran	7.842	42	20240	26.385	ug/l	99
30) Chloroform	7.959	83	20974	5.451	ug/l	92
31) Cyclohexane	8.253	56	18750	5.480	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	17717	5.059	ug/l	97
36) 1,1-Dichloropropene	8.371	75	14193	5.077	ug/l	99
37) Ethyl Acetate	7.559	43	13884	5.474	ug/l #	94
38) Carbon Tetrachloride	8.353	117	15977	5.113	ug/l	96
39) Methylcyclohexane	9.600	83	13624	4.791	ug/l	95
40) Benzene	8.600	78	46044	5.129	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084574.D
 Acq On : 30 Oct 2024 13:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:18:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	7091	5.199	ug/l	97
42) 1,2-Dichloroethane	8.665	62	14972	5.150	ug/l	98
43) Isopropyl Acetate	8.689	43	30044	5.554	ug/l #	90
44) Trichloroethene	9.347	130	10168	4.911	ug/l	89
45) 1,2-Dichloropropane	9.618	63	11095	5.269	ug/l	97
46) Dibromomethane	9.706	93	7752	5.217	ug/l	97
47) Bromodichloromethane	9.889	83	15749	5.028	ug/l #	98
48) Methyl methacrylate	9.677	41	9971	5.051	ug/l	97
49) 1,4-Dioxane	9.700	88	3729	106.609	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	61332	25.367	ug/l	100
52) Toluene	10.630	92	26518	5.051	ug/l	99
53) t-1,3-Dichloropropene	10.836	75	16279	5.021	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	17395	5.069	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	10193	5.154	ug/l	93
56) Ethyl methacrylate	10.871	69	13362	4.671	ug/l	94
57) 1,3-Dichloropropane	11.165	76	17816	5.249	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	30088	22.477	ug/l	98
59) 2-Hexanone	11.194	43	43750	24.860	ug/l	97
60) Dibromochloromethane	11.359	129	11226	4.980	ug/l	96
61) 1,2-Dibromoethane	11.471	107	10584	5.226	ug/l	97
64) Tetrachloroethene	11.100	164	8917	5.271	ug/l #	87
65) Chlorobenzene	11.888	112	29618	5.205	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.959	131	10265	5.186	ug/l	99
67) Ethyl Benzene	11.965	91	47037	4.952	ug/l	98
68) m/p-Xylenes	12.065	106	34753	9.665	ug/l	100
69) o-Xylene	12.394	106	16393	4.873	ug/l	99
70) Styrene	12.412	104	27807	4.739	ug/l	98
71) Bromoform	12.577	173	7686	5.161	ug/l #	95
73) Isopropylbenzene	12.694	105	40223	4.855	ug/l	99
74) N-amyl acetate	12.494	43	18583	5.270	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	15573	5.631	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	11982m	5.136	ug/l	
77) Bromobenzene	12.983	156	11012	4.944	ug/l	98
78) n-propylbenzene	13.035	91	47776	4.921	ug/l	99
79) 2-Chlorotoluene	13.124	91	32460	5.117	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	32685	4.760	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.730	75	5096	5.116	ug/l	93
82) 4-Chlorotoluene	13.218	91	33672	5.044	ug/l	98
83) tert-Butylbenzene	13.435	119	26850	4.724	ug/l	95
84) 1,2,4-Trimethylbenzene	13.483	105	32703	4.614	ug/l	100
85) sec-Butylbenzene	13.612	105	37187	4.632	ug/l	97
86) p-Isopropyltoluene	13.730	119	29767	4.521	ug/l	97
87) 1,3-Dichlorobenzene	13.730	146	22272	5.124	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	22213	4.741	ug/l	91
89) n-Butylbenzene	14.053	91	29010	4.710	ug/l	99
90) Hexachloroethane	14.335	117	7404	5.043	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	22221	5.320	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.718	75	3239	5.781	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	11298	4.942	ug/l	99
94) Hexachlorobutadiene	15.500	225	5184	5.163	ug/l	96
95) Naphthalene	15.641	128	32966	4.817	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	11106	5.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

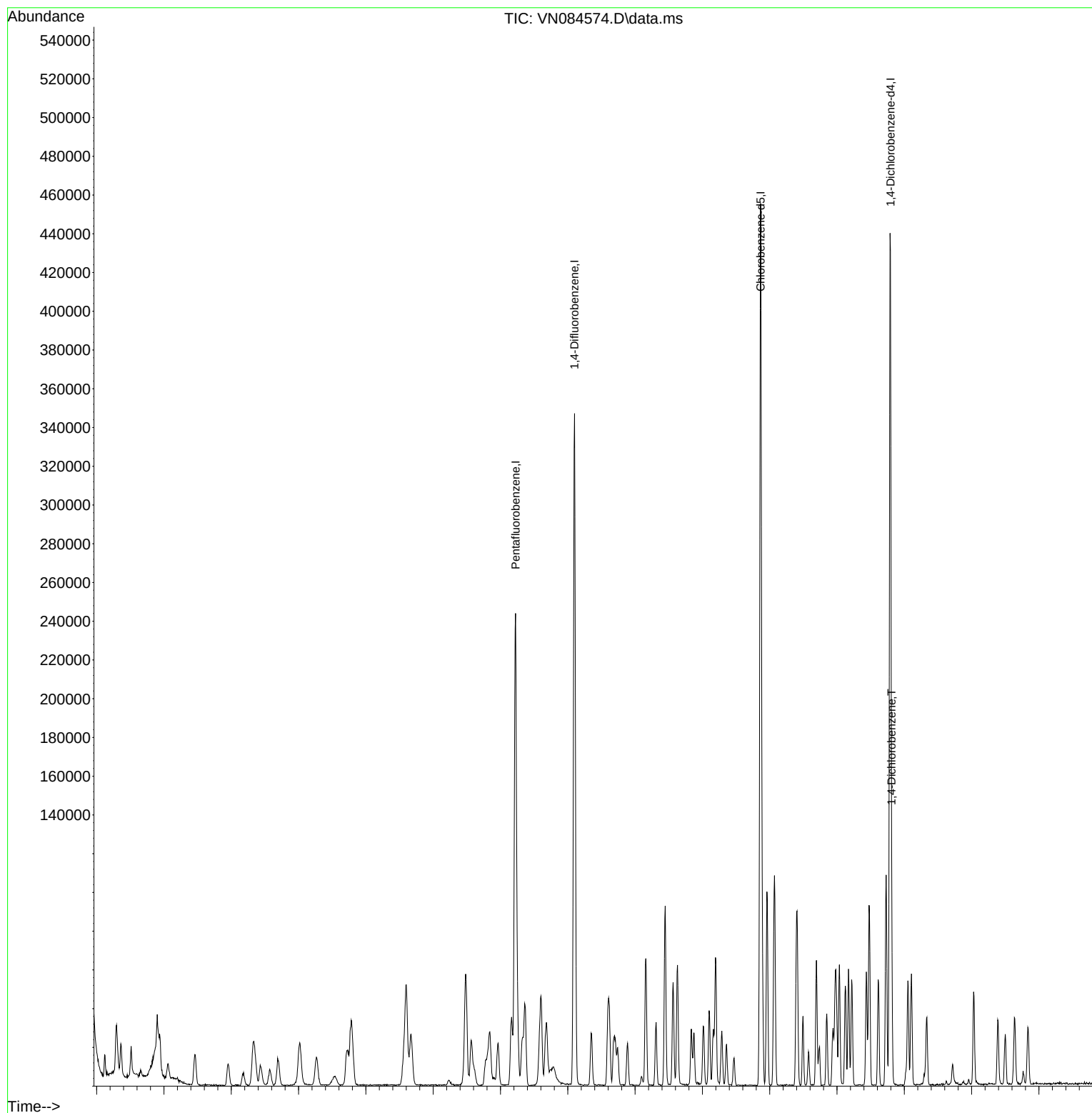
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084574.D
Acq On : 30 Oct 2024 13:21
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:19:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:18:08 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084575.D
 Acq On : 30 Oct 2024 13:45
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:13:36 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	168991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	297772	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	250990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109560	50.000	ug/l	0.00

System Monitoring Compounds

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

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	1964	1.011	ug/l	100
3) Chloromethane	2.365	50	6046	1.880	ug/l #	80
4) Vinyl Chloride	2.512	62	1963	0.939	ug/l	89
6) Chloroethane	3.083	64	2917	0.885	ug/l	98
7) Trichlorofluoromethane	3.471	101	3621	1.052	ug/l #	74
8) Diethyl Ether	3.971	74	1209m	0.996	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.359	101	1982	1.019	ug/l	90
12) 1,1-Dichloroethene	4.336	96	2177	1.131	ug/l #	68
14) Allyl chloride	5.006	41	2869	0.919	ug/l #	29
15) Acrylonitrile	5.730	53	4443	4.764	ug/l #	55
16) Acetone	4.430	43	5707m	5.302	ug/l	
17) Carbon Disulfide	4.700	76	7155	1.207	ug/l #	93
18) Methyl Acetate	5.024	43	7743	1.954	ug/l #	89
19) Methyl tert-butyl Ether	5.806	73	5314	0.901	ug/l	95
20) Methylene Chloride	5.271	84	2029	0.945	ug/l #	81
21) trans-1,2-Dichloroethene	5.789	96	2030	1.027	ug/l #	78
22) Diisopropyl ether	6.665	45	5485	0.884	ug/l #	89
23) Vinyl Acetate	6.600	43	18413	4.306	ug/l	96
24) 1,1-Dichloroethane	6.553	63	3491	0.938	ug/l #	83
25) 2-Butanone	7.494	43	5644	4.956	ug/l #	88
26) 2,2-Dichloropropane	7.488	77	3152	0.973	ug/l #	70
27) cis-1,2-Dichloroethene	7.477	96	2275	0.986	ug/l #	75
28) Bromochloromethane	7.812	49	1450	0.978	ug/l #	97
29) Tetrahydrofuran	7.847	42	3321	4.396	ug/l	96
30) Chloroform	7.965	83	3463	0.914	ug/l	87
32) 1,1,1-Trichloroethane	8.171	97	3312	0.960	ug/l #	34
36) 1,1-Dichloropropene	8.365	75	2825	1.011	ug/l	97
37) Ethyl Acetate	7.559	43	2440	0.962	ug/l #	88
38) Carbon Tetrachloride	8.353	117	2904	0.929	ug/l #	73
39) Methylcyclohexane	9.600	83	2212	0.778	ug/l	89
40) Benzene	8.600	78	9169	1.021	ug/l	94
41) Methacrylonitrile	7.777	41	1095	0.803	ug/l #	84
42) 1,2-Dichloroethane	8.665	62	2733	0.940	ug/l	81
43) Isopropyl Acetate	8.688	43	7724	0.697	ug/l #	78
44) Trichloroethene	9.353	130	2306	1.114	ug/l	74
45) 1,2-Dichloropropane	9.624	63	1967	0.934	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084575.D
 Acq On : 30 Oct 2024 13:45
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M

Quant Title : SW846 8260

QLast Update : Thu Oct 31 18:13:36 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1472	0.991	ug/l	93
47) Bromodichloromethane	9.882	83	3156	1.008	ug/l #	96
48) Methyl methacrylate	9.682	41	1652	0.837	ug/l #	84
49) 1,4-Dioxane	9.700	88	576	16.468	ug/l #	73
51) 4-Methyl-2-Pentanone	10.441	43	10237	4.234	ug/l	92
52) Toluene	10.629	92	4507	0.858	ug/l	89
53) t-1,3-Dichloropropene	10.835	75	3308	1.020	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	3266	0.952	ug/l #	94
55) 1,1,2-Trichloroethane	11.012	97	1841	0.931	ug/l #	86
56) Ethyl methacrylate	10.876	69	2211	0.773	ug/l	94
57) 1,3-Dichloropropane	11.165	76	3139	0.925	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	4979	3.720	ug/l #	87
59) 2-Hexanone	11.194	43	7617	4.328	ug/l	89
60) Dibromochloromethane	11.353	129	1857	0.824	ug/l	88
61) 1,2-Dibromoethane	11.465	107	2001	0.988	ug/l	89
64) Tetrachloroethene	11.100	164	1629	0.976	ug/l #	69
65) Chlorobenzene	11.894	112	5753	1.025	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	2002	1.025	ug/l #	61
67) Ethyl Benzene	11.965	91	8520	0.909	ug/l	98
68) m/p-Xylenes	12.070	106	6568	1.851	ug/l	96
69) o-Xylene	12.400	106	2759	0.831	ug/l	99
70) Styrene	12.406	104	5269	0.910	ug/l	95
71) Bromoform	12.582	173	1434	0.976	ug/l #	95
73) Isopropylbenzene	12.694	105	6985	0.910	ug/l	99
74) N-amyl acetate	12.488	43	2680	0.820	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.929	83	2678	1.045	ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	2731m	1.263	ug/l	
77) Bromobenzene	12.982	156	2440	1.182	ug/l	95
78) n-propylbenzene	13.035	91	7935	0.882	ug/l	95
79) 2-Chlorotoluene	13.123	91	5699	0.969	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	5298	0.833	ug/l	98
82) 4-Chlorotoluene	13.223	91	6682	1.080	ug/l	96
83) tert-Butylbenzene	13.435	119	4148	0.788	ug/l	89
84) 1,2,4-Trimethylbenzene	13.482	105	5651	0.860	ug/l	98
85) sec-Butylbenzene	13.617	105	6490	0.872	ug/l	93
86) p-Isopropyltoluene	13.729	119	4859	0.796	ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	4961	1.232	ug/l	95
88) 1,4-Dichlorobenzene	13.817	146	6076m	0.801	ug/l	
89) n-Butylbenzene	14.059	91	6020	1.055	ug/l	95
90) Hexachloroethane	14.329	117	1493	1.097	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	4428	1.144	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.717	75	595	1.146	ug/l	83
93) 1,2,4-Trichlorobenzene	15.394	180	2964	1.399	ug/l	98
94) Hexachlorobutadiene	15.506	225	1208	1.298	ug/l	88
95) Naphthalene	15.635	128	7352	1.159	ug/l	96
96) 1,2,3-Trichlorobenzene	15.835	180	2605	1.267	ug/l	91

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

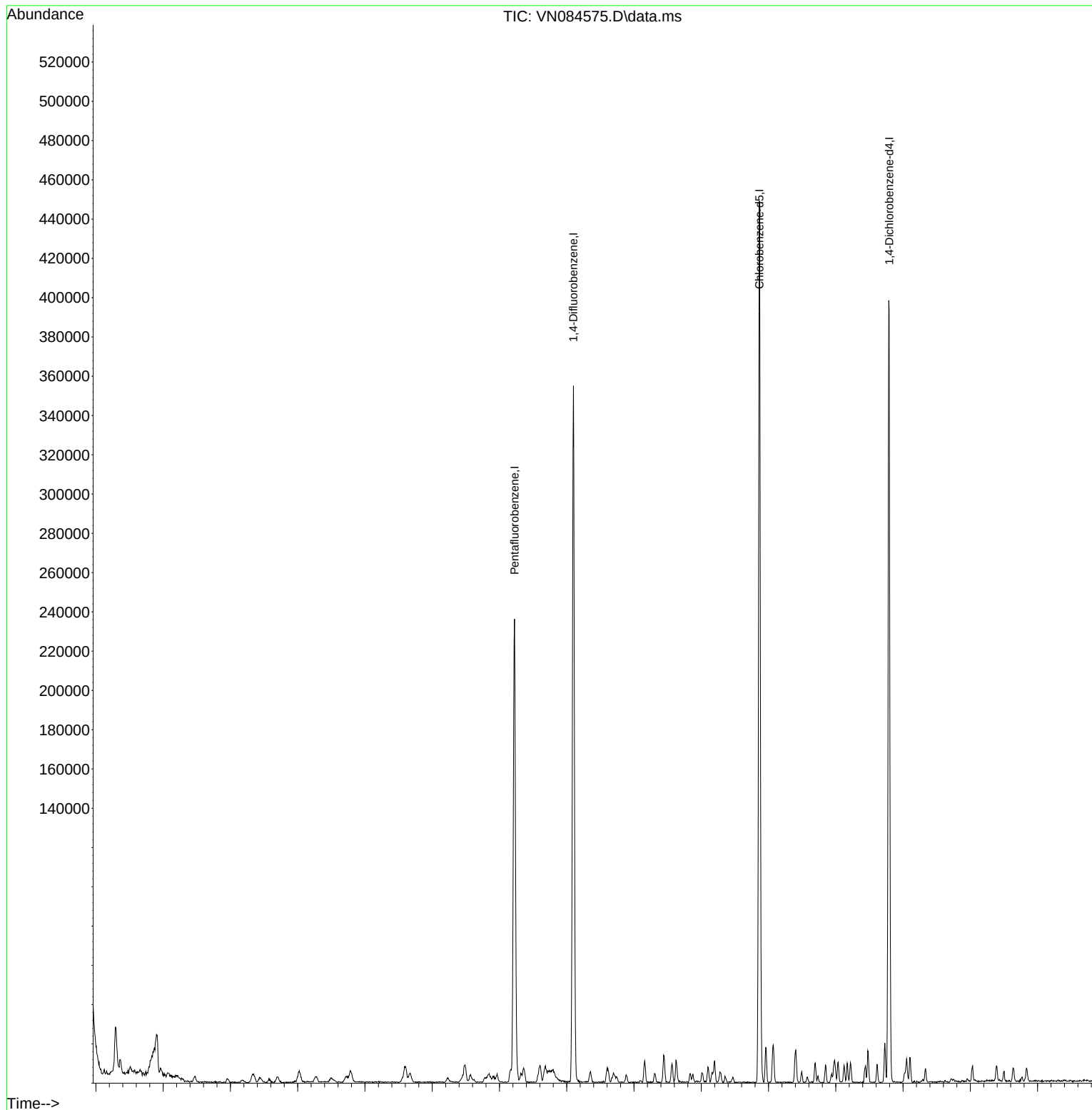
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Data File : VN084575.D
Acq On : 30 Oct 2024 13:45
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Oct 31 18:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:13:36 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	192202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142817	50.000	ug/l	0.00

11/04/2024
 Supervised By : Mahesh
 Padoda

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132029	47.560	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.120%
35) Dibromofluoromethane	8.165	113	104306	47.522	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.040%
50) Toluene-d8	10.565	98	390989	48.359	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.720%
62) 4-Bromofluorobenzene	12.847	95	144180	47.715	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.420%

11/04/2024

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	101605	45.985	ug/l	97
3) Chloromethane	2.359	50	118060	45.299	ug/l	99
4) Vinyl Chloride	2.512	62	110340	46.430	ug/l	95
5) Bromomethane	2.900	94	54764	43.494	ug/l	100
6) Chloroethane	3.071	64	68330	46.348	ug/l	93
7) Trichlorofluoromethane	3.471	101	178683	45.644	ug/l	98
8) Diethyl Ether	3.959	74	64407	46.640	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	101094	45.702	ug/l	98
10) Methyl Iodide	4.577	142	137594	46.542	ug/l	97
11) Tert butyl alcohol	5.536	59	80556	219.840	ug/l	99
12) 1,1-Dichloroethene	4.330	96	99235	45.338	ug/l	99
13) Acrolein	4.171	56	79788	218.362	ug/l	98
14) Allyl chloride	5.012	41	170293	47.975	ug/l	92
15) Acrylonitrile	5.718	53	251141	236.747	ug/l	100
16) Acetone	4.430	43	196070	244.445	ug/l	100
17) Carbon Disulfide	4.700	76	287697	42.682	ug/l	99
18) Methyl Acetate	5.024	43	132834	44.944	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	326067	48.603	ug/l	97
20) Methylene Chloride	5.265	84	111618	45.716	ug/l	91
21) trans-1,2-Dichloroethene	5.777	96	101181	45.019	ug/l	98
22) Diisopropyl ether	6.671	45	343763	48.739	ug/l	99
23) Vinyl Acetate	6.600	43	1204384	247.614	ug/l	99
24) 1,1-Dichloroethane	6.559	63	196518	46.408	ug/l	97
25) 2-Butanone	7.483	43	307765	237.635	ug/l	97
26) 2,2-Dichloropropane	7.488	77	166234	45.103	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	121280	46.214	ug/l	97
28) Bromochloromethane	7.806	49	92741	54.971	ug/l	97
29) Tetrahydrofuran	7.835	42	211210	245.822	ug/l	98
30) Chloroform	7.965	83	203935	47.316	ug/l	100
31) Cyclohexane	8.253	56	172671	45.053	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	183488	46.774	ug/l	98
36) 1,1-Dichloropropene	8.365	75	141152	46.370	ug/l	100
37) Ethyl Acetate	7.559	43	132993	48.154	ug/l	99
38) Carbon Tetrachloride	8.359	117	157005	46.145	ug/l	97
39) Methylcyclohexane	9.600	83	154743	49.969	ug/l	99
40) Benzene	8.606	78	452351	46.273	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	77176	51.964	ug/l	99
42) 1,2-Dichloroethane	8.671	62	149173	47.118	ug/l	99
43) Isopropyl Acetate	8.688	43	232558	45.492	ug/l	98
44) Trichloroethene	9.347	130	100849	44.732	ug/l	99
45) 1,2-Dichloropropane	9.618	63	108229	47.196	ug/l	96
46) Dibromomethane	9.706	93	74292	45.911	ug/l	96
47) Bromodichloromethane	9.888	83	158814	46.560	ug/l #	99
48) Methyl methacrylate	9.676	41	109745	51.057	ug/l	97
49) 1,4-Dioxane	9.694	88	40527	1063.992	ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	665397	252.729	ug/l	98
52) Toluene	10.629	92	277957	48.616	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	162100	45.911	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	175008	46.832	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	102553	47.618	ug/l	97
56) Ethyl methacrylate	10.871	69	164370	52.764	ug/l	98
57) 1,3-Dichloropropane	11.165	76	176546	47.765	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	408174	280.013	ug/l	98
59) 2-Hexanone	11.194	43	489776	255.570	ug/l	99
60) Dibromochloromethane	11.359	129	120465	49.079	ug/l	99
61) 1,2-Dibromoethane	11.465	107	102316	46.393	ug/l	100
64) Tetrachloroethene	11.100	164	88124	45.436	ug/l	98
65) Chlorobenzene	11.888	112	292713	44.872	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	105108	46.323	ug/l	99
67) Ethyl Benzene	11.965	91	526140	48.319	ug/l	99
68) m/p-Xylenes	12.070	106	408029	98.979	ug/l	99
69) o-Xylene	12.400	106	194895	50.538	ug/l	99
70) Styrene	12.412	104	333668	49.600	ug/l	98
71) Bromoform	12.576	173	78822	46.166	ug/l #	98
73) Isopropylbenzene	12.694	105	491033	49.063	ug/l	100
74) N-ethyl acetate	12.494	43	209049	49.076	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	147181	44.058	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	122725m	42.988	ug/l	
77) Bromobenzene	12.976	156	119728	44.500	ug/l	97
78) n-propylbenzene	13.035	91	576495	49.156	ug/l	98
79) 2-Chlorotoluene	13.123	91	367294	47.930	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	420675	50.714	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	54512	45.300	ug/l	99
82) 4-Chlorotoluene	13.223	91	361596	44.837	ug/l	98
83) tert-Butylbenzene	13.435	119	361800	52.701	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	428517	50.053	ug/l	100
85) sec-Butylbenzene	13.617	105	483212	49.829	ug/l	100
86) p-Isopropyltoluene	13.729	119	410129	51.568	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	219757	41.852	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	221608	45.904	ug/l	99
89) n-Butylbenzene	14.053	91	341775	45.941	ug/l	100
90) Hexachloroethane	14.329	117	77324	43.597	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	220824	43.765	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30895	45.651	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	111270	40.290	ug/l	98
94) Hexachlorobutadiene	15.500	225	47959	39.544	ug/l	97
95) Naphthalene	15.641	128	375360	45.408	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	108830	40.595	ug/l	99

11/04/2024
 Supervised By :Mahesh
 Dadoda

11/04/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 2024
Response via : Initial Calibration

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

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

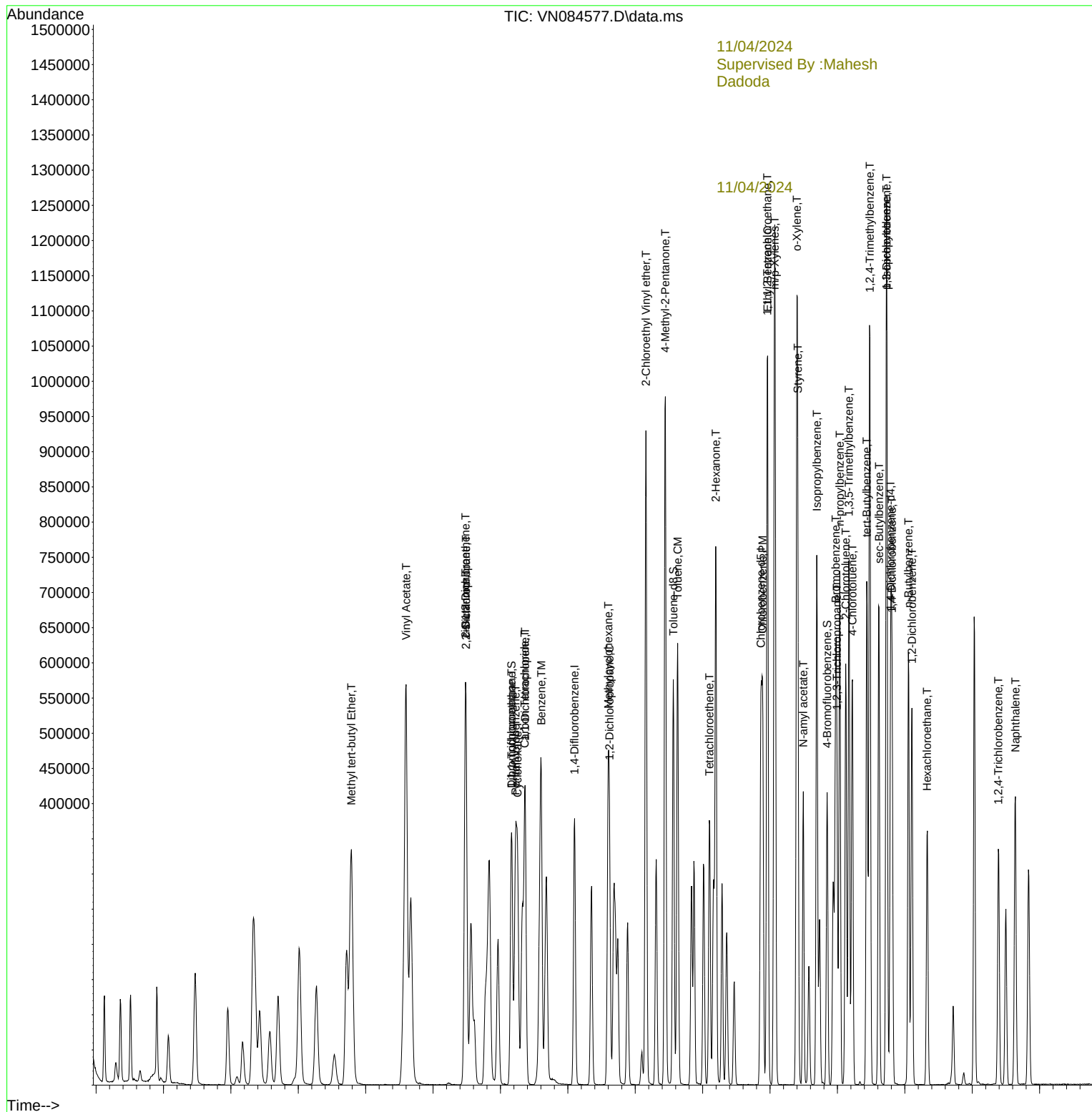
11/04/2024
Supervised By :Mahesh
Dadoda

11/04/2024

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Manual Integrations APPROVED

11/04/2024
Supervised By :Mahesh
Dadoda



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 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	0.575	0.529	8.0	99	0.00
3 P	Chloromethane	0.952	0.614	35.5#	94	0.00
4 C	Vinyl Chloride	0.618	0.574	7.1#	98	0.00
5 T	Bromomethane	0.328	0.285	13.1	99	-0.05
6 T	Chloroethane	0.488	0.356	27.0#	97	-0.05
7 T	Trichlorofluoromethane	1.018	0.930	8.6	100	-0.02
8 T	Diethyl Ether	0.359	0.335	6.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.526	8.5	97	-0.01
10 T	Methyl Iodide	0.769	0.716	6.9	100	-0.02
11 T	Tert butyl alcohol	0.095	0.084	11.6	100	0.01
12 CM	1,1-Dichloroethene	0.569	0.516	9.3#	99	-0.01
13 T	Acrolein	0.095	0.083	12.6	97	0.00
14 T	Allyl chloride	0.923	0.886	4.0	100	-0.01
15 T	Acrylonitrile	0.276	0.261	5.4	99	0.00
16 T	Acetone	0.238	0.204	14.3	103	0.00
17 T	Carbon Disulfide	1.753	1.497	14.6	96	-0.01
18 T	Methyl Acetate	1.172	0.691	41.0#	95	0.00
19 T	Methyl tert-butyl Ether	1.745	1.696	2.8	99	0.00
20 T	Methylene Chloride	0.635	0.581	8.5	99	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.526	10.1	96	-0.01
22 T	Diisopropyl ether	1.835	1.789	2.5	99	0.00
23 T	Vinyl Acetate	1.265	1.253	0.9	99	0.00
24 P	1,1-Dichloroethane	1.102	1.022	7.3	99	-0.01
25 T	2-Butanone	0.337	0.320	5.0	105	0.00
26 T	2,2-Dichloropropane	0.959	0.865	9.8	95	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.631	7.6	98	0.00
28 T	Bromochloromethane	0.439	0.483	-10.0	97	0.00
29 T	Tetrahydrofuran	0.224	0.220	1.8	102	0.00
30 C	Chloroform	1.121	1.061	5.4#	101	0.00
31 T	Cyclohexane	0.997	0.898	9.9	99	0.00
32 T	1,1,1-Trichloroethane	1.021	0.955	6.5	99	0.00
33 S	1,2-Dichloroethane-d4	0.722	0.687	4.8	98	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.338	0.322	4.7	97	0.00
36 T	1,1-Dichloropropene	0.469	0.435	7.2	100	0.00
37 T	Ethyl Acetate	0.426	0.410	3.8	101	0.00
38 T	Carbon Tetrachloride	0.525	0.484	7.8	98	0.00
39 T	Methylcyclohexane	0.478	0.477	0.2	98	0.00
40 TM	Benzene	1.507	1.395	7.4	100	0.00
41 T	Methacrylonitrile	0.229	0.238	-3.9	101	0.00
42 TM	1,2-Dichloroethane	0.488	0.460	5.7	97	0.00
43 T	Isopropyl Acetate	0.927	0.717	22.7	99	0.00
44 TM	Trichloroethene	0.348	0.311	10.6	97	0.00
45 C	1,2-Dichloropropane	0.354	0.334	5.6#	100	0.00
46 T	Dibromomethane	0.250	0.229	8.4	98	0.00
47 T	Bromodichloromethane	0.526	0.490	6.8	98	0.00
48 T	Methyl methacrylate	0.331	0.338	-2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 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	0.006	0.006	0.0	107	0.00
50 S	Toluene-d8	1.247	1.206	3.3	96	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.410	-1.0	101	0.00
52 CM	Toluene	0.882	0.857	2.8#	99	0.00
53 T	t-1,3-Dichloropropene	0.544	0.500	8.1	96	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.540	6.2	97	0.00
55 T	1,1,2-Trichloroethane	0.332	0.316	4.8	100	0.00
56 T	Ethyl methacrylate	0.480	0.507	-5.6	98	0.00
57 T	1,3-Dichloropropane	0.570	0.544	4.6	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.252	-12.0	100	0.00
59 T	2-Hexanone	0.296	0.302	-2.0	101	0.00
60 T	Dibromochloromethane	0.378	0.372	1.6	98	0.00
61 T	1,2-Dibromoethane	0.340	0.316	7.1	98	0.00
62 S	4-Bromofluorobenzene	0.466	0.445	4.5	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.333	0.302	9.3	101	0.00
65 PM	Chlorobenzene	1.119	1.004	10.3	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.360	7.5	100	0.00
67 C	Ethyl Benzene	1.867	1.804	3.4#	100	0.00
68 T	m/p-Xylenes	0.707	0.700	1.0	100	0.00
69 T	o-Xylene	0.661	0.668	-1.1	101	0.00
70 T	Styrene	1.154	1.144	0.9	99	0.00
71 P	Bromoform	0.293	0.270	7.8	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.504	3.438	1.9	99	0.00
74 T	N-amyl acetate	1.491	1.464	1.8	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.031	11.9	99	0.00
76 T	1,2,3-Trichloropropane	0.999	0.859	14.0	100	0.00
77 T	Bromobenzene	0.942	0.838	11.0	98	0.00
78 T	n-propylbenzene	4.106	4.037	1.7	98	0.00
79 T	2-Chlorotoluene	2.683	2.572	4.1	101	0.00
80 T	1,3,5-Trimethylbenzene	2.904	2.946	-1.4	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.382	9.3	98	0.00
82 T	4-Chlorotoluene	2.823	2.532	10.3	96	0.00
83 T	tert-Butylbenzene	2.403	2.533	-5.4	103	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.000	-0.1	98	0.00
85 T	sec-Butylbenzene	3.395	3.383	0.4	99	0.00
86 T	p-Isopropyltoluene	2.784	2.872	-3.2	97	0.00
87 T	1,3-Dichlorobenzene	1.838	1.539	16.3	95	0.00
88 T	1,4-Dichlorobenzene	1.937	1.552	19.9	96	0.00
89 T	n-Butylbenzene	2.605	2.393	8.1	94	0.00
90 T	Hexachloroethane	0.621	0.541	12.9	95	0.00
91 T	1,2-Dichlorobenzene	1.766	1.546	12.5	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.216	8.9	103	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.779	19.4	93	0.00
94 T	Hexachlorobutadiene	0.425	0.336	20.9	94	0.00
95 T	Naphthalene	2.894	2.628	9.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	0.939	0.762	18.8	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 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	45.985	8.0	99	0.00
3 P	Chloromethane	50.000	45.299	9.4	94	0.00
4 C	Vinyl Chloride	50.000	46.430	7.1#	98	0.00
5 T	Bromomethane	50.000	43.494	13.0	99	-0.05
6 T	Chloroethane	50.000	46.348	7.3	97	-0.05
7 T	Trichlorofluoromethane	50.000	45.644	8.7	100	-0.02
8 T	Diethyl Ether	50.000	46.640	6.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.702	8.6	97	-0.01
10 T	Methyl Iodide	50.000	46.542	6.9	100	-0.02
11 T	Tert butyl alcohol	250.000	219.840	12.1	100	0.01
12 CM	1,1-Dichloroethene	50.000	45.338	9.3#	99	-0.01
13 T	Acrolein	250.000	218.362	12.7	97	0.00
14 T	Allyl chloride	50.000	47.975	4.0	100	-0.01
15 T	Acrylonitrile	250.000	236.747	5.3	99	0.00
16 T	Acetone	250.000	244.445	2.2	103	0.00
17 T	Carbon Disulfide	50.000	42.682	14.6	96	-0.01
18 T	Methyl Acetate	50.000	44.944	10.1	95	0.00
19 T	Methyl tert-butyl Ether	50.000	48.603	2.8	99	0.00
20 T	Methylene Chloride	50.000	45.716	8.6	99	-0.01
21 T	trans-1,2-Dichloroethene	50.000	45.019	10.0	96	-0.01
22 T	Diisopropyl ether	50.000	48.739	2.5	99	0.00
23 T	Vinyl Acetate	250.000	247.614	1.0	99	0.00
24 P	1,1-Dichloroethane	50.000	46.408	7.2	99	-0.01
25 T	2-Butanone	250.000	237.635	4.9	105	0.00
26 T	2,2-Dichloropropane	50.000	45.103	9.8	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.214	7.6	98	0.00
28 T	Bromochloromethane	50.000	54.971	-9.9	97	0.00
29 T	Tetrahydrofuran	250.000	245.822	1.7	102	0.00
30 C	Chloroform	50.000	47.316	5.4#	101	0.00
31 T	Cyclohexane	50.000	45.053	9.9	99	0.00
32 T	1,1,1-Trichloroethane	50.000	46.774	6.5	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.560	4.9	98	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	47.522	5.0	97	0.00
36 T	1,1-Dichloropropene	50.000	46.370	7.3	100	0.00
37 T	Ethyl Acetate	50.000	48.154	3.7	101	0.00
38 T	Carbon Tetrachloride	50.000	46.145	7.7	98	0.00
39 T	Methylcyclohexane	50.000	49.969	0.1	98	0.00
40 TM	Benzene	50.000	46.273	7.5	100	0.00
41 T	Methacrylonitrile	50.000	51.964	-3.9	101	0.00
42 TM	1,2-Dichloroethane	50.000	47.118	5.8	97	0.00
43 T	Isopropyl Acetate	50.000	45.492	9.0	99	0.00
44 TM	Trichloroethene	50.000	44.732	10.5	97	0.00
45 C	1,2-Dichloropropane	50.000	47.196	5.6#	100	0.00
46 T	Dibromomethane	50.000	45.911	8.2	98	0.00
47 T	Bromodichloromethane	50.000	46.560	6.9	98	0.00
48 T	Methyl methacrylate	50.000	51.057	-2.1	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084577.D
 Acq On : 30 Oct 2024 15:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103024

Quant Time: Oct 31 18:28:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:24:48 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	1063.992	-6.4	107	0.00
50 S	Toluene-d8	50.000	48.359	3.3	96	0.00
51 T	4-Methyl-2-Pentanone	250.000	252.729	-1.1	101	0.00
52 CM	Toluene	50.000	48.616	2.8#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	45.911	8.2	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	46.832	6.3	97	0.00
55 T	1,1,2-Trichloroethane	50.000	47.618	4.8	100	0.00
56 T	Ethyl methacrylate	50.000	52.764	-5.5	98	0.00
57 T	1,3-Dichloropropane	50.000	47.765	4.5	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	280.013	-12.0	100	0.00
59 T	2-Hexanone	250.000	255.570	-2.2	101	0.00
60 T	Dibromochloromethane	50.000	49.079	1.8	98	0.00
61 T	1,2-Dibromoethane	50.000	46.393	7.2	98	0.00
62 S	4-Bromofluorobenzene	50.000	47.715	4.6	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	45.436	9.1	101	0.00
65 PM	Chlorobenzene	50.000	44.872	10.3	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.323	7.4	100	0.00
67 C	Ethyl Benzene	50.000	48.319	3.4#	100	0.00
68 T	m/p-Xylenes	100.000	98.979	1.0	100	0.00
69 T	o-Xylene	50.000	50.538	-1.1	101	0.00
70 T	Styrene	50.000	49.600	0.8	99	0.00
71 P	Bromoform	50.000	46.166	7.7	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	49.063	1.9	99	0.00
74 T	N-amyl acetate	50.000	49.076	1.8	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.058	11.9	99	0.00
76 T	1,2,3-Trichloropropane	50.000	42.988	14.0	100	0.00
77 T	Bromobenzene	50.000	44.500	11.0	98	0.00
78 T	n-propylbenzene	50.000	49.156	1.7	98	0.00
79 T	2-Chlorotoluene	50.000	47.930	4.1	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.714	-1.4	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.300	9.4	98	0.00
82 T	4-Chlorotoluene	50.000	44.837	10.3	96	0.00
83 T	tert-Butylbenzene	50.000	52.701	-5.4	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.053	-0.1	98	0.00
85 T	sec-Butylbenzene	50.000	49.829	0.3	99	0.00
86 T	p-Isopropyltoluene	50.000	51.568	-3.1	97	0.00
87 T	1,3-Dichlorobenzene	50.000	41.852	16.3	95	0.00
88 T	1,4-Dichlorobenzene	50.000	45.904	8.2	96	0.00
89 T	n-Butylbenzene	50.000	45.941	8.1	94	0.00
90 T	Hexachloroethane	50.000	43.597	12.8	95	0.00
91 T	1,2-Dichlorobenzene	50.000	43.765	12.5	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.651	8.7	103	0.00
93 T	1,2,4-Trichlorobenzene	50.000	40.290	19.4	93	0.00
94 T	Hexachlorobutadiene	50.000	39.544	20.9	94	0.00
95 T	Naphthalene	50.000	45.408	9.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084577.D
Acq On : 30 Oct 2024 15:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103024

Quant Time: Oct 31 18:28:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:24:48 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	40.595	18.8	94	0.00

(#) = Out of Range

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID:	RRF005 = VY020075.D		RRF010 = VY020076.D		RRF020 = VY020077.D		RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5				
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1				
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5				
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5				
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5				
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9				
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3				
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1				
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5				
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5				
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8				
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6				
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3				
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7				
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5				
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1				
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3				
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2				
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1				
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8				
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3				
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1				
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6				
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7				
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8				
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4				
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6				
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4				
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9				
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1				

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718
 Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024
 Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY020075.D			RRF010 = VY020076.D		RRF020 = VY020077.D		RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3					
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10					
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4					
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7					
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3					
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7					
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8					
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5					
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5					
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2					
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5					
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8					
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4					
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3					
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4					
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4					
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5					
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6					
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6					
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8					
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1					
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1					
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7					
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8					
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5					

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y103024S.M
 Title : SW846 8260
 Last Update : Thu Oct 31 15:23:13 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY020075.D 10 =VY020076.D 20 =VY020077.D 50 =VY020078.D 100 =VY020079.D 150 =VY020080.

D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.46
3) P	Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.07
4) C	Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.49#
5) T	Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.45
6) T	Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.45
7) T	Trichlorofluor...	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.92
8) T	Diethyl Ether	0.261	0.280	0.293	0.252	0.297	0.299	0.280	7.04
9) T	1,1,2-Trichlor...	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.30
10) T	Methyl Iodide	0.499	0.541	0.548	0.517	0.577	0.585	0.544	6.16
11) T	Tert butyl alc...	0.054	0.056	0.047	0.033	0.041	0.039	0.045	19.94
12) CM	1,1-Dichloroet...	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.15#
13) T	Acrolein	0.051	0.060	0.059	0.050	0.060	0.056	0.056	8.02
14) T	Allyl chloride	0.955	0.952	0.980	0.915	1.011	1.028	0.973	4.25
15) T	Acrylonitrile	0.117	0.129	0.129	0.117	0.139	0.134	0.128	7.05
16) T	Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.48
17) T	Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.48
18) T	Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6.03
19) T	Methyl tert-bu...	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8.01
20) T	Methylene Chlo...	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.31
21) T	trans-1,2-Dich...	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.71
22) T	Diisopropyl ether	1.824	1.993	2.082	1.893	2.168	2.160	2.020	7.02
23) T	Vinyl Acetate	0.982	1.112	1.150	1.054	1.274	1.249	1.137	9.87
24) P	1,1-Dichloroet...	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.46
25) T	2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.32
26) T	2,2-Dichloropr...	1.043	0.968	0.957	0.881	0.986	1.004	0.973	5.59
27) T	cis-1,2-Dichlo...	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.09
28) T	Bromochloromet...	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.82
29) T	Tetrahydrofuran	0.102	0.113	0.114	0.104	0.128	0.120	0.114	8.48
30) C	Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.33#
31) T	Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.14
32) T	1,1,1-Trichlor...	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.13
33) S	1,2-Dichloroet...	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.12
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.66
36) T	1,1-Dichloropr...	0.482	0.500	0.493	0.450	0.512	0.510	0.491	4.70
37) T	Ethyl Acetate	0.232	0.226	0.242	0.211	0.255	0.239	0.234	6.37
38) T	Carbon Tetrach...	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.23
39) T	Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.60
40) TM	Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.67
41) T	Methacrylonitrile	0.079	0.115	0.131	0.119	0.132	0.127	0.117	16.94
42) TM	1,2-Dichloroet...	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.78
43) T	Isopropyl Acetate	0.390	0.440	0.462	0.412	0.510	0.487	0.450	10.02
44) TM	Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.42
45) C	1,2-Dichloropr...	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6.01#
46) T	Dibromomethane	0.173	0.185	0.189	0.171	0.200	0.196	0.186	6.41
47) T	Bromodichlorom...	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.45
48) T	Methyl methacr...	0.161	0.196	0.218	0.197	0.244	0.236	0.209	14.58
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	10.64
50) S	Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.79
51) T	4-Methyl-2-Pen...	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.91
52) CM	Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.08#
53) T	t-1,3-Dichloro...	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.35
54) T	cis-1,3-Dichlo...	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10.05
55) T	1,1,2-Trichlor...	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.38

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\										
Method File : 82Y103024S.M										
56)	T	Ethyl methacry...	0.250	0.302	0.337	0.315	0.396	0.388	0.331	16.56
57)	T	1,3-Dichloropr...	0.383	0.411	0.438	0.393	0.464	0.449	0.423	7.67
58)	T	2-Chloroethyl ...	0.132	0.155	0.167	0.160	0.186	0.180	0.163	11.81
59)	T	2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.74
60)	T	Dibromochlorom...	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.31
61)	T	1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.66
62)	S	4-Bromofluorob...	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.49
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.84
65)	PM	Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	4.99
66)	T	1,1,1,2-Tetrac...	0.312	0.332	0.345	0.317	0.365	0.370	0.340	7.12
67)	C	Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.54#
68)	T	m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.18
69)	T	o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.48
70)	T	Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.77
71)	P	Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.41
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.35
74)	T	N-amyl acetate	0.835	0.907	1.004	0.918	1.156	1.171	0.998	13.89
75)	P	1,1,2,2-Tetrac...	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.40
76)	T	1,2,3-Trichlor...	0.387	0.563	0.479	0.428	0.477	0.478	0.469	12.64
77)	T	Bromobenzene	0.830	0.761	0.806	0.742	0.843	0.866	0.808	5.96
78)	T	n-propylbenzene	5.003	4.849	5.049	4.581	5.082	5.263	4.971	4.69
79)	T	2-Chlorotoluene	2.788	2.705	2.774	2.517	2.814	2.958	2.759	5.26
80)	T	1,3,5-Trimethy...	3.201	3.025	3.270	2.973	3.310	3.461	3.207	5.70
81)	T	trans-1,4-Dich...	0.208	0.210	0.211	0.197	0.238	0.243	0.218	8.40
82)	T	4-Chlorotoluene	2.774	2.702	2.871	2.606	2.904	3.025	2.813	5.35
83)	T	tert-Butylbenzene	2.826	2.624	2.798	2.664	2.888	3.024	2.804	5.24
84)	T	1,2,4-Trimethy...	3.062	3.025	3.203	2.942	3.338	3.486	3.176	6.51
85)	T	sec-Butylbenzene	4.277	4.160	4.350	4.002	4.440	4.598	4.305	4.86
86)	T	p-Isopropyltol...	3.296	3.254	3.522	3.235	3.617	3.803	3.454	6.68
87)	T	1,3-Dichlorobe...	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.42
88)	T	1,4-Dichlorobe...	1.680	1.604	1.653	1.487	1.666	1.716	1.634	4.95
89)	T	n-Butylbenzene	3.312	3.215	3.533	3.256	3.663	3.797	3.463	6.88
90)	T	Hexachloroethane	0.669	0.664	0.684	0.628	0.713	0.741	0.683	5.79
91)	T	1,2-Dichlorobe...	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.58
92)	T	1,2-Dibromo-3-...	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.59
93)	T	1,2,4-Trichlor...	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.83
94)	T	Hexachlorobuta...	0.403	0.389	0.422	0.389	0.454	0.456	0.419	7.30
95)	T	Naphthalene	1.116	1.209	1.420	1.325	1.760	1.765	1.432	19.22
96)	T	1,2,3-Trichlor...	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.13

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020075.D
 Acq On : 30 Oct 2024 12:39
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:49:45 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	240434	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	437202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	367609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	154264	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	14625	4.940	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	9.880%#
35) Dibromofluoromethane	7.640	113	13333	4.621	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	9.240%#
50) Toluene-d8	10.109	98	51902	4.872	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	9.740%#
62) 4-Bromofluorobenzene	12.407	95	16208	4.210	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	8.420%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.873	85	12181	5.442	ug/l	99
3) Chloromethane	2.074	50	19992	6.863	ug/l	93
4) Vinyl Chloride	2.214	62	20836	6.500	ug/l	97
5) Bromomethane	2.604	94	15177	7.480	ug/l	88
6) Chloroethane	2.750	64	13521	6.278	ug/l	90
7) Trichlorofluoromethane	3.074	101	24633	5.164	ug/l	88
8) Diethyl Ether	3.464	74	6284	4.335	ug/l	68
9) 1,1,2-Trichlorotrifluo...	3.830	101	14348	5.171	ug/l	90
10) Methyl Iodide	4.012	142	11993	4.274	ug/l	# 89
11) Tert butyl alcohol	4.860	59	6468	23.321	ug/l	100
12) 1,1-Dichloroethene	3.805	96	12850	4.982	ug/l	84
13) Acrolein	3.665	56	6134	28.198	ug/l	94
14) Allyl chloride	4.390	41	22973	4.936	ug/l	# 88
15) Acrylonitrile	5.067	53	14108	21.276	ug/l	98
16) Acetone	3.872	43	16105	20.898	ug/l	# 79
17) Carbon Disulfide	4.116	76	43042	6.226	ug/l	# 93
18) Methyl Acetate	4.403	43	7550	4.548	ug/l	# 65
19) Methyl tert-butyl Ether	5.122	73	29558	3.989	ug/l	100
20) Methylene Chloride	4.622	84	19392	6.235	ug/l	# 73
21) trans-1,2-Dichloroethene	5.128	96	14695	5.235	ug/l	88
22) Diisopropyl ether	6.030	45	43856	4.326	ug/l	# 82
23) Vinyl Acetate	5.963	43	118065	20.316	ug/l	# 88
24) 1,1-Dichloroethane	5.927	63	27775	4.929	ug/l	94
25) 2-Butanone	6.902	43	22431	21.745	ug/l	# 84
26) 2,2-Dichloropropane	6.890	77	25086	4.999	ug/l	89
27) cis-1,2-Dichloroethene	6.890	96	15543	4.480	ug/l	72
28) Bromochloromethane	7.256	49	13763	5.549	ug/l	# 67
29) Tetrahydrofuran	7.274	42	12280	20.849	ug/l	# 83
30) Chloroform	7.433	83	27437	4.776	ug/l	88
31) Cyclohexane	7.707	56	30882	6.243	ug/l	# 88
32) 1,1,1-Trichloroethane	7.628	97	23695	4.707	ug/l	# 90
36) 1,1-Dichloropropene	7.835	75	21067	5.069	ug/l	93
37) Ethyl Acetate	6.994	43	10158m	4.687	ug/l	
38) Carbon Tetrachloride	7.823	117	20423	4.583	ug/l	94
39) Methylcyclohexane	9.115	83	26360	5.033	ug/l	89
40) Benzene	8.085	78	61822	4.915	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020075.D
 Acq On : 30 Oct 2024 12:39
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 11/01/2024

Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 30 13:49:45 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	3462	2.951	ug/l #	72
42) 1,2-Dichloroethane	8.158	62	16581	4.588	ug/l	93
43) Isopropyl Acetate	8.201	43	17066	3.861	ug/l #	92
44) Trichloroethene	8.871	130	14352	4.711	ug/l	94
45) 1,2-Dichloropropane	9.140	63	14120	4.485	ug/l	95
46) Dibromomethane	9.231	93	7547	4.387	ug/l #	87
47) Bromodichloromethane	9.426	83	20060	4.393	ug/l	99
48) Methyl methacrylate	9.225	41	7028	3.615	ug/l #	82
49) 1,4-Dioxane	9.231	88	1521	79.001	ug/l #	81
51) 4-Methyl-2-Pentanone	9.999	43	41560	18.434	ug/l	87
52) Toluene	10.170	92	35127	4.474	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	16130	3.926	ug/l	95
54) cis-1,3-Dichloropropene	9.859	75	19506	4.024	ug/l	97
55) 1,1,2-Trichloroethane	10.572	97	8995	3.969	ug/l #	85
56) Ethyl methacrylate	10.438	69	10951	3.367	ug/l #	65
57) 1,3-Dichloropropane	10.719	76	16743	4.207	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.713	63	28850	19.057	ug/l	92
59) 2-Hexanone	10.761	43	28622	17.775	ug/l	81
60) Dibromochloromethane	10.914	129	11181	3.844	ug/l	100
61) 1,2-Dibromoethane	11.017	107	8865	4.329	ug/l	90
64) Tetrachloroethene	10.645	164	11989	4.585	ug/l	93
65) Chlorobenzene	11.444	112	37629	4.475	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.517	131	11467	4.031	ug/l	98
67) Ethyl Benzene	11.517	91	69338	4.540	ug/l	98
68) m/p-Xylenes	11.627	106	50332	8.923	ug/l	94
69) o-Xylene	11.956	106	23982	4.425	ug/l	95
70) Styrene	11.968	104	36193	3.958	ug/l	93
71) Bromoform	12.133	173	5561	3.652	ug/l #	94
73) Isopropylbenzene	12.255	105	62710	4.833	ug/l	96
74) N-amyl acetate	12.072	43	12879	3.747	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	11048	4.792	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	5970m	1.976	ug/l	
77) Bromobenzene	12.529	156	12802	4.649	ug/l	83
78) n-propylbenzene	12.596	91	77176	4.922	ug/l	96
79) 2-Chlorotoluene	12.682	91	43013	4.785	ug/l	93
80) 1,3,5-Trimethylbenzene	12.736	105	49377	4.712	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.304	75	3212	4.290	ug/l	87
82) 4-Chlorotoluene	12.779	91	42786	4.655	ug/l	96
83) tert-Butylbenzene	12.999	119	43602	4.645	ug/l	93
84) 1,2,4-Trimethylbenzene	13.041	105	47241	4.547	ug/l	97
85) sec-Butylbenzene	13.175	105	65986	4.705	ug/l	95
86) p-Isopropyltoluene	13.291	119	50842	4.464	ug/l	96
87) 1,3-Dichlorobenzene	13.285	146	25594	4.603	ug/l	96
88) 1,4-Dichlorobenzene	13.364	146	25923	4.745	ug/l	92
89) n-Butylbenzene	13.620	91	51089	4.594	ug/l	95
90) Hexachloroethane	13.883	117	10314	4.651	ug/l	83
91) 1,2-Dichlorobenzene	13.657	146	21464	4.393	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	1656	4.500	ug/l	69
93) 1,2,4-Trichlorobenzene	14.919	180	10063	3.673	ug/l	96
94) Hexachlorobutadiene	15.023	225	6221	4.084	ug/l	93
95) Naphthalene	15.145	128	17217	3.332	ug/l	99
96) 1,2,3-Trichlorobenzene	15.327	180	8911	3.848	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

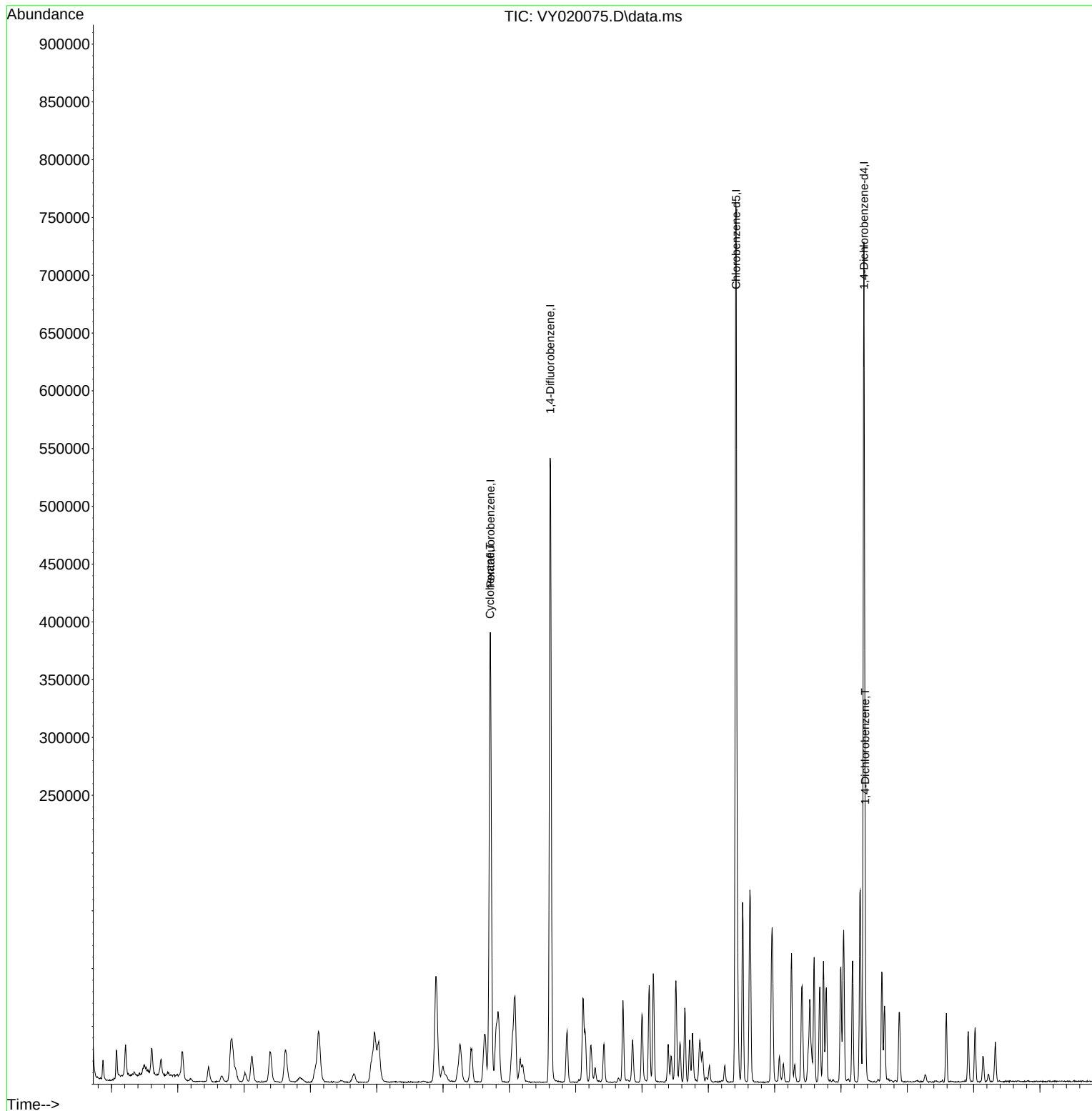
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020075.D
Acq On : 30 Oct 2024 12:39
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:49:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020076.D
 Acq On : 30 Oct 2024 13:02
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:49:45 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	251996	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	459666	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	179302	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	33105	10.669	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	21.340%#	
35) Dibromofluoromethane	7.640	113	29145	9.608	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	19.220%#	
50) Toluene-d8	10.109	98	114968	10.264	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	20.520%#	
62) 4-Bromofluorobenzene	12.408	95	36997	9.141	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	18.280%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.873	85	24596	10.485	ug/l	95
3) Chloromethane	2.074	50	42089	13.785	ug/l	100
4) Vinyl Chloride	2.214	62	44064	13.115	ug/l	91
5) Bromomethane	2.605	94	28921	13.599	ug/l	96
6) Chloroethane	2.745	64	27962	12.388	ug/l	96
7) Trichlorofluoromethane	3.068	101	51307	10.263	ug/l	99
8) Diethyl Ether	3.470	74	14130	9.300	ug/l	69
9) 1,1,2-Trichlorotrifluo...	3.824	101	29440	10.124	ug/l	91
10) Methyl Iodide	4.013	142	27256	9.267	ug/l	91
11) Tert butyl alcohol	4.860	59	14113	48.551	ug/l	# 96
12) 1,1-Dichloroethene	3.799	96	29134	10.777	ug/l	# 71
13) Acrolein	3.659	56	15099	66.225	ug/l	98
14) Allyl chloride	4.397	41	47964	9.833	ug/l	# 86
15) Acrylonitrile	5.061	53	32586	46.888	ug/l	96
16) Acetone	3.873	43	34866	43.166	ug/l	# 85
17) Carbon Disulfide	4.116	76	92481	12.763	ug/l	98
18) Methyl Acetate	4.391	43	17993	10.341	ug/l	# 88
19) Methyl tert-butyl Ether	5.122	73	67742	8.722	ug/l	99
20) Methylene Chloride	4.622	84	36061	11.062	ug/l	# 71
21) trans-1,2-Dichloroethene	5.128	96	31130	10.580	ug/l	86
22) Diisopropyl ether	6.025	45	100421	9.452	ug/l	# 87
23) Vinyl Acetate	5.970	43	280142	45.993	ug/l	# 91
24) 1,1-Dichloroethane	5.921	63	60946	10.319	ug/l	97
25) 2-Butanone	6.903	43	49695	45.965	ug/l	# 83
26) 2,2-Dichloropropane	6.896	77	48779	9.274	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	35967	9.892	ug/l	84
28) Bromochloromethane	7.250	49	28309	10.890	ug/l	# 69
29) Tetrahydrofuran	7.268	42	28574	46.288	ug/l	# 83
30) Chloroform	7.427	83	58988	9.798	ug/l	91
31) Cyclohexane	7.707	56	60768	11.721	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	51697	9.798	ug/l	# 93
36) 1,1-Dichloropropene	7.841	75	45929	10.510	ug/l	93
37) Ethyl Acetate	6.994	43	20808	9.132	ug/l	# 76
38) Carbon Tetrachloride	7.823	117	45138	9.635	ug/l	98
39) Methylcyclohexane	9.109	83	55314	10.046	ug/l	# 83
40) Benzene	8.085	78	129152	9.765	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020076.D
 Acq On : 30 Oct 2024 13:02
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:49:45 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	10582	8.580	ug/l	88
42) 1,2-Dichloroethane	8.158	62	35990	9.472	ug/l	94
43) Isopropyl Acetate	8.201	43	40461	8.707	ug/l #	74
44) Trichloroethene	8.866	130	30471	9.513	ug/l	88
45) 1,2-Dichloropropane	9.140	63	30442	9.196	ug/l	96
46) Dibromomethane	9.237	93	17004	9.402	ug/l #	86
47) Bromodichloromethane	9.426	83	43762	9.116	ug/l	100
48) Methyl methacrylate	9.225	41	18005	8.808	ug/l #	82
49) 1,4-Dioxane	9.231	88	3385	167.225	ug/l #	87
51) 4-Methyl-2-Pentanone	10.000	43	102653	43.307	ug/l	88
52) Toluene	10.170	92	78956	9.564	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	36749	8.508	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	44596	8.750	ug/l #	83
55) 1,1,2-Trichloroethane	10.573	97	20698	8.686	ug/l #	86
56) Ethyl methacrylate	10.438	69	27776	8.124	ug/l #	72
57) 1,3-Dichloropropane	10.713	76	37808	9.035	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	71463	44.897	ug/l	89
59) 2-Hexanone	10.762	43	74139	43.792	ug/l	84
60) Dibromochloromethane	10.908	129	25833	8.447	ug/l	99
61) 1,2-Dibromoethane	11.012	107	19661	9.131	ug/l	96
64) Tetrachloroethene	10.646	164	24830	8.892	ug/l	94
65) Chlorobenzene	11.438	112	81961	9.128	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.518	131	26081	8.585	ug/l	98
67) Ethyl Benzene	11.518	91	151863	9.310	ug/l	98
68) m/p-Xylenes	11.627	106	108757	18.053	ug/l	88
69) o-Xylene	11.950	106	51950	8.975	ug/l	92
70) Styrene	11.969	104	84784	8.682	ug/l	95
71) Bromoform	12.133	173	12719	7.820	ug/l #	96
73) Isopropylbenzene	12.255	105	137315	9.105	ug/l	98
74) N-ethyl acetate	12.072	43	32525	8.142	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	25336	9.454	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	20202m	5.751	ug/l	
77) Bromobenzene	12.530	156	27286	8.526	ug/l	78
78) n-propylbenzene	12.591	91	173883	9.542	ug/l	95
79) 2-Chlorotoluene	12.676	91	97009	9.285	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	108479	8.906	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	7513	8.634	ug/l #	81
82) 4-Chlorotoluene	12.773	91	96899	9.071	ug/l	97
83) tert-Butylbenzene	12.993	119	94080	8.622	ug/l	92
84) 1,2,4-Trimethylbenzene	13.042	105	108470	8.983	ug/l	97
85) sec-Butylbenzene	13.176	105	149192	9.152	ug/l	97
86) p-Isopropyltoluene	13.292	119	116689	8.815	ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	54535	8.438	ug/l	96
88) 1,4-Dichlorobenzene	13.365	146	57513	9.058	ug/l	93
89) n-Butylbenzene	13.615	91	115297	8.920	ug/l	98
90) Hexachloroethane	13.877	117	23812	9.238	ug/l	78
91) 1,2-Dichlorobenzene	13.657	146	49631	8.740	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3723	8.705	ug/l	71
93) 1,2,4-Trichlorobenzene	14.919	180	25388	7.973	ug/l	94
94) Hexachlorobutadiene	15.023	225	13955	7.883	ug/l	96
95) Naphthalene	15.145	128	43361	7.220	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	21730	8.073	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
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 :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

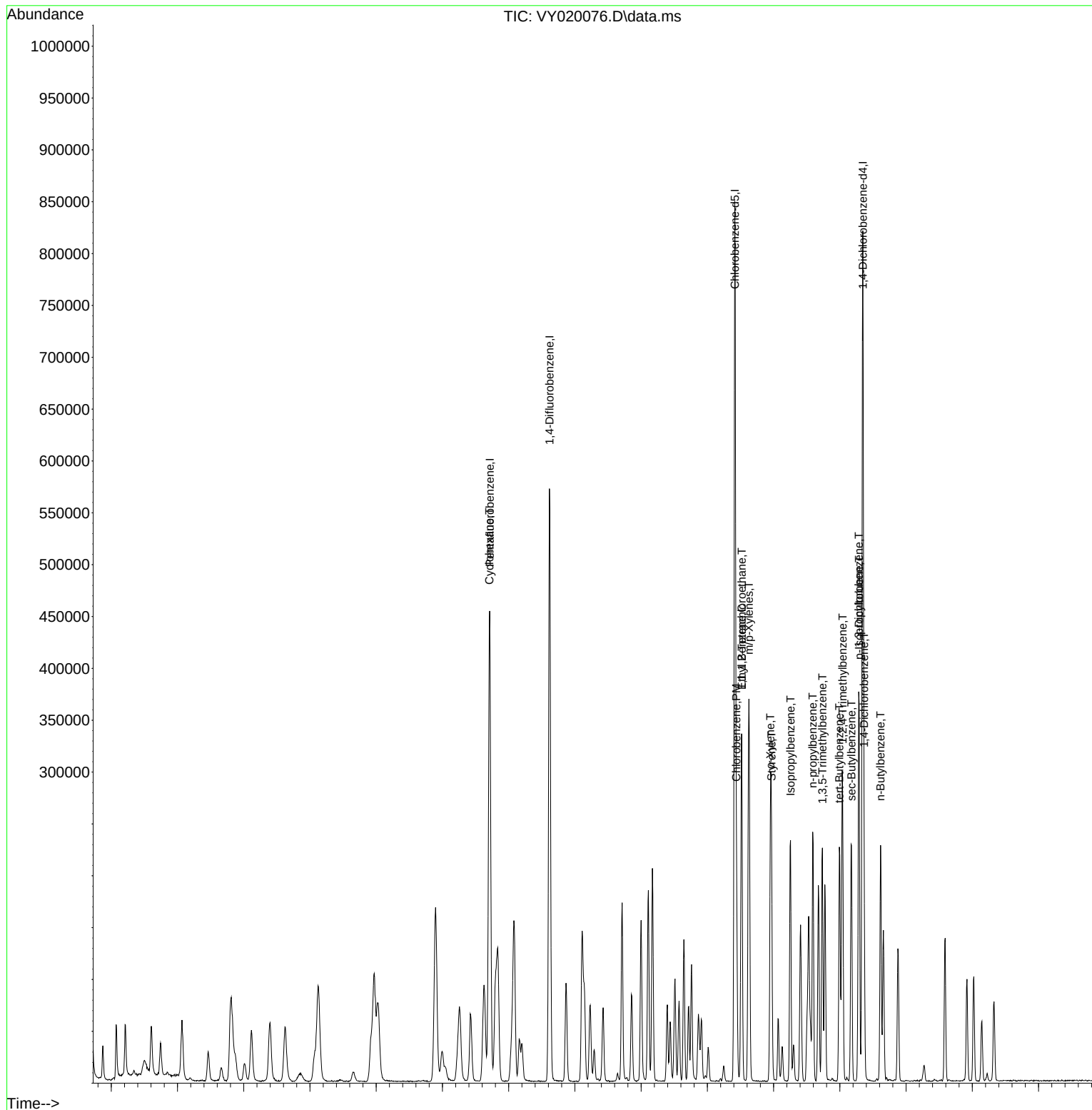
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Data File : VY020076.D
Acq On : 30 Oct 2024 13:02
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:53:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020077.D
 Acq On : 30 Oct 2024 13:24
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:55:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:49:45 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	255489	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	453247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	386871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	180601	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	59114	18.791	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	37.580%#
35) Dibromofluoromethane	7.634	113	54397	18.187	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	36.380%#
50) Toluene-d8	10.103	98	215268	19.490	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	38.980%#
62) 4-Bromofluorobenzene	12.402	95	68234	17.097	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	34.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	49268	20.715	ug/l	96
3) Chloromethane	2.068	50	80800	26.102	ug/l	97
4) Vinyl Chloride	2.202	62	85353	25.056	ug/l	97
5) Bromomethane	2.592	94	55648	25.809	ug/l	93
6) Chloroethane	2.733	64	55759	24.366	ug/l	96
7) Trichlorofluoromethane	3.056	101	105973	20.907	ug/l	93
8) Diethyl Ether	3.452	74	29994	19.470	ug/l	70
9) 1,1,2-Trichlorotrifluo...	3.818	101	57985	19.667	ug/l	91
10) Methyl Iodide	4.007	142	56012	18.784	ug/l	# 89
11) Tert butyl alcohol	4.854	59	23879	81.025	ug/l	# 93
12) 1,1-Dichloroethene	3.787	96	54823	20.002	ug/l	# 76
13) Acrolein	3.653	56	30037	129.943	ug/l	96
14) Allyl chloride	4.385	41	100122	20.246	ug/l	# 90
15) Acrylonitrile	5.055	53	65802	93.388	ug/l	96
16) Acetone	3.873	43	70645	86.267	ug/l	# 85
17) Carbon Disulfide	4.110	76	184555	25.121	ug/l	98
18) Methyl Acetate	4.385	43	35892	20.346	ug/l	# 88
19) Methyl tert-butyl Ether	5.116	73	140655	17.862	ug/l	100
20) Methylene Chloride	4.616	84	65473	19.811	ug/l	# 76
21) trans-1,2-Dichloroethene	5.116	96	62682	21.012	ug/l	# 83
22) Diisopropyl ether	6.019	45	212810	19.756	ug/l	# 90
23) Vinyl Acetate	5.964	43	587816	95.187	ug/l	# 91
24) 1,1-Dichloroethane	5.921	63	121557	20.300	ug/l	95
25) 2-Butanone	6.897	43	97990	89.396	ug/l	# 80
26) 2,2-Dichloropropane	6.884	77	97826	18.345	ug/l	95
27) cis-1,2-Dichloroethene	6.897	96	73022	19.808	ug/l	83
28) Bromochloromethane	7.244	49	53898	20.450	ug/l	# 70
29) Tetrahydrofuran	7.262	42	58334	93.205	ug/l	# 82
30) Chloroform	7.421	83	121164	19.850	ug/l	95
31) Cyclohexane	7.701	56	116249	22.116	ug/l	89
32) 1,1,1-Trichloroethane	7.622	97	103121	19.277	ug/l	# 93
36) 1,1-Dichloropropene	7.835	75	89441	20.757	ug/l	93
37) Ethyl Acetate	6.982	43	43815	19.500	ug/l	# 93
38) Carbon Tetrachloride	7.817	117	90537	19.600	ug/l	96
39) Methylcyclohexane	9.110	83	114400	21.071	ug/l	89
40) Benzene	8.079	78	263734	20.224	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020077.D
 Acq On : 30 Oct 2024 13:24
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:55:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:49:45 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.214	41	23788	19.561	ug/l #	83
42) 1,2-Dichloroethane	8.159	62	72916	19.463	ug/l	94
43) Isopropyl Acetate	8.195	43	83718	18.270	ug/l #	75
44) Trichloroethene	8.866	130	60253	19.077	ug/l	81
45) 1,2-Dichloropropane	9.140	63	64640	19.804	ug/l	99
46) Dibromomethane	9.225	93	34353	19.263	ug/l	89
47) Bromodichloromethane	9.427	83	88375	18.670	ug/l	97
48) Methyl methacrylate	9.219	41	39516	19.605	ug/l #	80
49) 1,4-Dioxane	9.238	88	6584	329.869	ug/l #	69
51) 4-Methyl-2-Pentanone	10.000	43	216002	92.417	ug/l	88
52) Toluene	10.170	92	163230	20.053	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	79101	18.573	ug/l	95
54) cis-1,3-Dichloropropene	9.853	75	93870	18.679	ug/l #	83
55) 1,1,2-Trichloroethane	10.567	97	42659	18.156	ug/l	96
56) Ethyl methacrylate	10.439	69	61125	18.131	ug/l #	75
57) 1,3-Dichloropropane	10.713	76	79426	19.250	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	151093	96.270	ug/l	91
59) 2-Hexanone	10.762	43	152298	91.233	ug/l	84
60) Dibromochloromethane	10.908	129	54301	18.006	ug/l	100
61) 1,2-Dibromoethane	11.012	107	38956	18.348	ug/l	98
64) Tetrachloroethene	10.646	164	53279	19.362	ug/l	94
65) Chlorobenzene	11.438	112	169342	19.138	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.512	131	53419	17.843	ug/l	100
67) Ethyl Benzene	11.518	91	311877	19.403	ug/l	99
68) m/p-Xylenes	11.627	106	229769	38.705	ug/l	92
69) o-Xylene	11.951	106	106187	18.617	ug/l	91
70) Styrene	11.969	104	178553	18.555	ug/l	95
71) Bromoform	12.133	173	26700	16.660	ug/l #	99
73) Isopropylbenzene	12.255	105	288608	18.999	ug/l	99
74) N-ethyl acetate	12.066	43	72538	18.029	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	50452	18.691	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	34602m	9.780	ug/l	
77) Bromobenzene	12.530	156	58191	18.052	ug/l	81
78) n-propylbenzene	12.591	91	364746	19.871	ug/l	96
79) 2-Chlorotoluene	12.676	91	200389	19.043	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	236250	19.257	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	15276	17.428	ug/l #	80
82) 4-Chlorotoluene	12.774	91	207370	19.273	ug/l	95
83) tert-Butylbenzene	12.993	119	202147	18.393	ug/l	92
84) 1,2,4-Trimethylbenzene	13.042	105	231420	19.026	ug/l	97
85) sec-Butylbenzene	13.176	105	314228	19.136	ug/l	97
86) p-Isopropyltoluene	13.292	119	254400	19.079	ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	121383	18.646	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	119390	18.668	ug/l	96
89) n-Butylbenzene	13.615	91	255253	19.605	ug/l	97
90) Hexachloroethane	13.877	117	49426	19.037	ug/l	85
91) 1,2-Dichlorobenzene	13.658	146	105505	18.445	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7666	17.796	ug/l	68
93) 1,2,4-Trichlorobenzene	14.919	180	56651	17.663	ug/l	96
94) Hexachlorobutadiene	15.017	225	30501	17.105	ug/l	95
95) Naphthalene	15.145	128	102556	16.953	ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	47182	17.402	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
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 :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

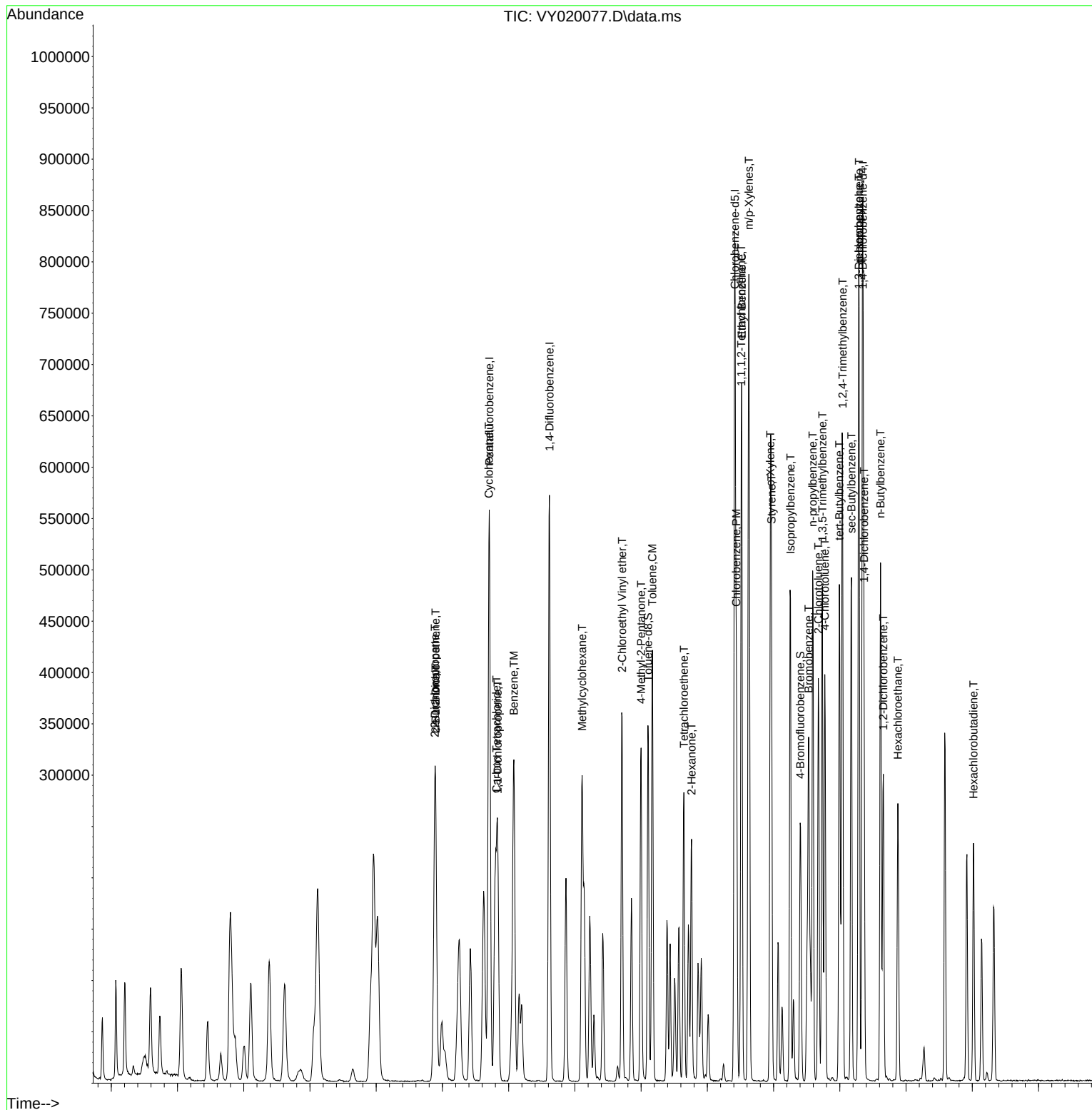
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Data File : VY020077.D
Acq On : 30 Oct 2024 13:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
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Quant Time: Oct 30 13:55:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:49:45 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020078.D
 Acq On : 30 Oct 2024 14:06
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 14:58:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 14:00:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	253095	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	448895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	390884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	187639	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	148301	48.236	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.480%
35) Dibromofluoromethane	7.634	113	137099	49.764	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.520%
50) Toluene-d8	10.103	98	549379	50.479	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.960%
62) 4-Bromofluorobenzene	12.402	95	179271	51.568	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	103.140%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	96546	41.057	ug/l	98
3) Chloromethane	2.074	50	172932	43.513	ug/l	98
4) Vinyl Chloride	2.208	62	190844	45.286	ug/l	98
5) Bromomethane	2.598	94	121526	43.068	ug/l	99
6) Chloroethane	2.739	64	122992	45.232	ug/l	96
7) Trichlorofluoromethane	3.062	101	234671	46.283	ug/l	95
8) Diethyl Ether	3.458	74	63745	46.337	ug/l	76
9) 1,1,2-Trichlorotrifluo...	3.818	101	128941	45.130	ug/l	89
10) Methyl Iodide	4.007	142	130739	49.097	ug/l	# 88
11) Tert butyl alcohol	4.866	59	41694	173.877	ug/l	# 88
12) 1,1-Dichloroethene	3.793	96	124769	46.031	ug/l	# 80
13) Acrolein	3.653	56	62974	226.723	ug/l	98
14) Allyl chloride	4.385	41	231702	48.153	ug/l	# 90
15) Acrylonitrile	5.061	53	147956	237.463	ug/l	98
16) Acetone	3.873	43	176737	253.817	ug/l	# 84
17) Carbon Disulfide	4.110	76	423667	47.120	ug/l	99
18) Methyl Acetate	4.391	43	80236	47.343	ug/l	# 87
19) Methyl tert-butyl Ether	5.122	73	314058	47.812	ug/l	98
20) Methylene Chloride	4.616	84	140465	40.843	ug/l	# 81
21) trans-1,2-Dichloroethene	5.110	96	142767	46.884	ug/l	88
22) Diisopropyl ether	6.019	45	479235	48.598	ug/l	# 89
23) Vinyl Acetate	5.964	43	1333996	245.247	ug/l	# 90
24) 1,1-Dichloroethane	5.915	63	270841	46.285	ug/l	96
25) 2-Butanone	6.896	43	226732	237.393	ug/l	# 81
26) 2,2-Dichloropropane	6.884	77	223018	45.779	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	163527	47.495	ug/l	83
28) Bromochloromethane	7.244	49	127689	46.584	ug/l	# 72
29) Tetrahydrofuran	7.262	42	131553	239.719	ug/l	# 82
30) Chloroform	7.421	83	270424	46.805	ug/l	99
31) Cyclohexane	7.701	56	249456	42.730	ug/l	89
32) 1,1,1-Trichloroethane	7.622	97	240527	47.868	ug/l	95
36) 1,1-Dichloropropene	7.835	75	201893	46.739	ug/l	93
37) Ethyl Acetate	6.988	43	94588	46.256	ug/l	# 94
38) Carbon Tetrachloride	7.817	117	207365	48.133	ug/l	100
39) Methylcyclohexane	9.110	83	259600	47.915	ug/l	# 87
40) Benzene	8.079	78	594896	47.340	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020078.D
 Acq On : 30 Oct 2024 14:06
 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: Oct 30 14:58:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 14:00:05 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	53405m	38.864	ug/l	
42) 1,2-Dichloroethane	8.158	62	163735	47.442	ug/l	93
43) Isopropyl Acetate	8.195	43	185022	48.366	ug/l #	78
44) Trichloroethene	8.866	130	137913	47.292	ug/l	86
45) 1,2-Dichloropropane	9.140	63	143501	48.060	ug/l	98
46) Dibromomethane	9.231	93	76956	47.720	ug/l #	88
47) Bromodichloromethane	9.420	83	202425	48.145	ug/l #	98
48) Methyl methacrylate	9.219	41	88629	51.150	ug/l #	81
49) 1,4-Dioxane	9.225	88	15719	979.894	ug/l #	88
51) 4-Methyl-2-Pentanone	10.000	43	491343	251.440	ug/l	87
52) Toluene	10.170	92	373718	49.042	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	180112	49.960	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	217155	50.058	ug/l #	82
55) 1,1,2-Trichloroethane	10.573	97	96748	48.888	ug/l	94
56) Ethyl methacrylate	10.439	69	141354	52.279	ug/l #	73
57) 1,3-Dichloropropane	10.713	76	176327	48.342	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	359790	260.896	ug/l	91
59) 2-Hexanone	10.762	43	353785	255.117	ug/l	85
60) Dibromochloromethane	10.908	129	122325	49.155	ug/l	100
61) 1,2-Dibromoethane	11.012	107	87760	47.280	ug/l	100
64) Tetrachloroethene	10.646	164	120168	47.512	ug/l	94
65) Chlorobenzene	11.438	112	388015	47.788	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.518	131	124101	48.591	ug/l	99
67) Ethyl Benzene	11.518	91	733155	48.646	ug/l	99
68) m/p-Xylenes	11.627	106	540779	98.423	ug/l	91
69) o-Xylene	11.950	106	253611	48.985	ug/l	91
70) Styrene	11.969	104	427323	50.713	ug/l	95
71) Bromoform	12.133	173	64353	50.623	ug/l #	97
73) Isopropylbenzene	12.255	105	691368	47.317	ug/l	97
74) N-ethyl acetate	12.072	43	172232	50.105	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	117149	45.482	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	80285m	25.625	ug/l	
77) Bromobenzene	12.530	156	139237	47.289	ug/l	82
78) n-propylbenzene	12.591	91	859635	47.031	ug/l	96
79) 2-Chlorotoluene	12.676	91	472269	46.677	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	557869	47.687	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.298	75	36981	47.705	ug/l #	84
82) 4-Chlorotoluene	12.780	91	488931	47.584	ug/l	94
83) tert-Butylbenzene	12.993	119	499937	48.831	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	552088	48.105	ug/l	96
85) sec-Butylbenzene	13.176	105	751015	47.676	ug/l	97
86) p-Isopropyltoluene	13.292	119	606962	48.620	ug/l	95
87) 1,3-Dichlorobenzene	13.286	146	283109	47.380	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	278979	46.291	ug/l	96
89) n-Butylbenzene	13.615	91	611011	48.906	ug/l	98
90) Hexachloroethane	13.877	117	117887	47.505	ug/l	83
91) 1,2-Dichlorobenzene	13.657	146	245799	47.241	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17194	44.817	ug/l	75
93) 1,2,4-Trichlorobenzene	14.919	180	130061	48.854	ug/l	98
94) Hexachlorobutadiene	15.023	225	72977	48.508	ug/l	98
95) Naphthalene	15.145	128	248616	52.269	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	107931	47.697	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020078.D
Acq On : 30 Oct 2024 14:06
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 :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 14:58:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

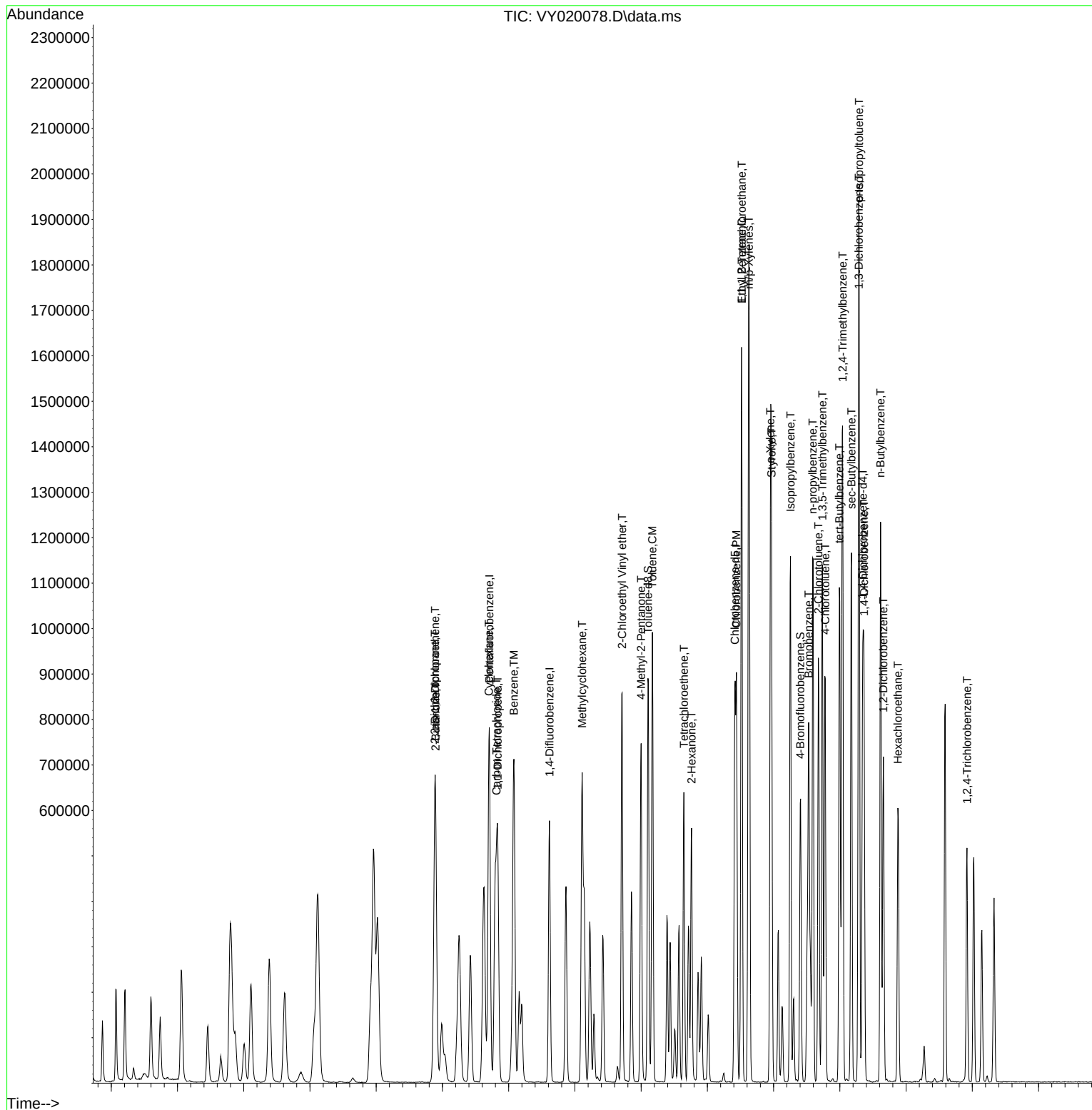
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020079.D
 Acq On : 30 Oct 2024 14:29
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 14:00:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	250425	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	439442	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392085	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	191175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	334356	109.911	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	219.820%#	
35) Dibromofluoromethane	7.634	113	299098	110.903	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	221.800%#	
50) Toluene-d8	10.103	98	1212617	113.817	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	227.640%#	
62) 4-Bromofluorobenzene	12.402	95	407188	119.648	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	239.300%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	228307	98.125	ug/l	98
3) Chloromethane	2.068	50	366223	93.131	ug/l	97
4) Vinyl Chloride	2.202	62	405238	97.185	ug/l	97
5) Bromomethane	2.592	94	260872	93.438	ug/l	98
6) Chloroethane	2.733	64	263815	98.055	ug/l	98
7) Trichlorofluoromethane	3.056	101	506774	101.014	ug/l	96
8) Diethyl Ether	3.452	74	148665	109.219	ug/l	74
9) 1,1,2-Trichlorotrifluo...	3.812	101	281087	99.430	ug/l	91
10) Methyl Iodide	4.007	142	289107	109.727	ug/l	90
11) Tert butyl alcohol	4.860	59	102524	432.114	ug/l #	81
12) 1,1-Dichloroethene	3.793	96	272143	101.471	ug/l #	80
13) Acrolein	3.653	56	149511	544.019	ug/l	98
14) Allyl chloride	4.385	41	506132	106.308	ug/l #	89
15) Acrylonitrile	5.061	53	348902	565.943	ug/l	98
16) Acetone	3.866	43	414042	600.958	ug/l #	85
17) Carbon Disulfide	4.104	76	917608	103.144	ug/l	99
18) Methyl Acetate	4.385	43	181329	108.133	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	742574	114.253	ug/l	98
20) Methylene Chloride	4.616	84	299130	87.904	ug/l #	81
21) trans-1,2-Dichloroethene	5.116	96	308673	102.448	ug/l	86
22) Diisopropyl ether	6.019	45	1086016	111.305	ug/l #	91
23) Vinyl Acetate	5.958	43	3189495	592.620	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	598212	103.320	ug/l	96
25) 2-Butanone	6.890	43	549299	581.259	ug/l #	84
26) 2,2-Dichloropropane	6.884	77	493900	102.464	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	370675	108.807	ug/l	84
28) Bromochloromethane	7.244	49	277089	102.166	ug/l #	72
29) Tetrahydrofuran	7.262	42	320026	589.375	ug/l #	82
30) Chloroform	7.421	83	599049	104.788	ug/l	99
31) Cyclohexane	7.701	56	547474	94.777	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	521551	104.903	ug/l	94
36) 1,1-Dichloropropene	7.835	75	449890	106.392	ug/l	94
37) Ethyl Acetate	6.988	43	223721	111.760	ug/l #	94
38) Carbon Tetrachloride	7.817	117	456363	108.209	ug/l	99
39) Methylcyclohexane	9.109	83	584361	110.176	ug/l #	87
40) Benzene	8.079	78	1321405	107.416	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020079.D
 Acq On : 30 Oct 2024 14:29
 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 :Romaben Patel 11/01/2024

Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M

Quant Title : SW846 8260

QLast Update : Wed Oct 30 14:00:05 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	116421	86.544	ug/l	87
42) 1,2-Dichloroethane	8.158	62	373520	110.555	ug/l	93
43) Isopropyl Acetate	8.195	43	447889	119.599	ug/l #	78
44) Trichloroethene	8.866	130	305872	107.143	ug/l	88
45) 1,2-Dichloropropane	9.140	63	318959	109.122	ug/l	97
46) Dibromomethane	9.231	93	175876	111.406	ug/l	88
47) Bromodichloromethane	9.420	83	461878	112.218	ug/l #	98
48) Methyl methacrylate	9.219	41	214211	126.286	ug/l #	80
49) 1,4-Dioxane	9.231	88	39210	2496.859	ug/l #	83
51) 4-Methyl-2-Pentanone	9.993	43	1181631	617.696	ug/l	90
52) Toluene	10.170	92	837777	112.304	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	427557	121.149	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	503580	118.582	ug/l #	86
55) 1,1,2-Trichloroethane	10.573	97	225678	116.492	ug/l	95
56) Ethyl methacrylate	10.438	69	347881	131.431	ug/l #	75
57) 1,3-Dichloropropane	10.713	76	407824	114.214	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	816231	604.610	ug/l	92
59) 2-Hexanone	10.755	43	870879	641.505	ug/l	87
60) Dibromochloromethane	10.908	129	291690	119.734	ug/l	100
61) 1,2-Dibromoethane	11.012	107	204752	112.681	ug/l	99
64) Tetrachloroethene	10.646	164	269475	106.219	ug/l	95
65) Chlorobenzene	11.438	112	873808	107.289	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	286476	111.823	ug/l	100
67) Ethyl Benzene	11.518	91	1657653	109.651	ug/l	100
68) m/p-Xylenes	11.627	106	1221696	221.671	ug/l	91
69) o-Xylene	11.950	106	584516	112.554	ug/l	92
70) Styrene	11.969	104	987405	116.822	ug/l	95
71) Bromoform	12.127	173	158309	124.151	ug/l #	96
73) Isopropylbenzene	12.255	105	1567277	105.280	ug/l	98
74) N-amyl acetate	12.066	43	441898	126.177	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	277920	105.904	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	182495m	57.170	ug/l	
77) Bromobenzene	12.530	156	322208	107.408	ug/l	84
78) n-propylbenzene	12.591	91	1942949	104.334	ug/l	97
79) 2-Chlorotoluene	12.676	91	1075903	104.371	ug/l	94
80) 1,3,5-Trimethylbenzene	12.731	105	1265627	106.185	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	91153	115.411	ug/l #	85
82) 4-Chlorotoluene	12.773	91	1110438	106.072	ug/l	94
83) tert-Butylbenzene	12.993	119	1104057	105.843	ug/l	93
84) 1,2,4-Trimethylbenzene	13.042	105	1276373	109.156	ug/l	96
85) sec-Butylbenzene	13.176	105	1697744	105.784	ug/l	98
86) p-Isopropyltoluene	13.292	119	1382922	108.729	ug/l	95
87) 1,3-Dichlorobenzene	13.285	146	651160	106.960	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	637014	103.744	ug/l	96
89) n-Butylbenzene	13.615	91	1400648	110.036	ug/l	98
90) Hexachloroethane	13.877	117	272543	107.795	ug/l	84
91) 1,2-Dichlorobenzene	13.657	146	566909	106.942	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43753	111.936	ug/l	76
93) 1,2,4-Trichlorobenzene	14.919	180	330713	121.925	ug/l	98
94) Hexachlorobutadiene	15.023	225	173634	113.279	ug/l	99
95) Naphthalene	15.139	128	672775	138.827	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	281747	122.206	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
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 :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

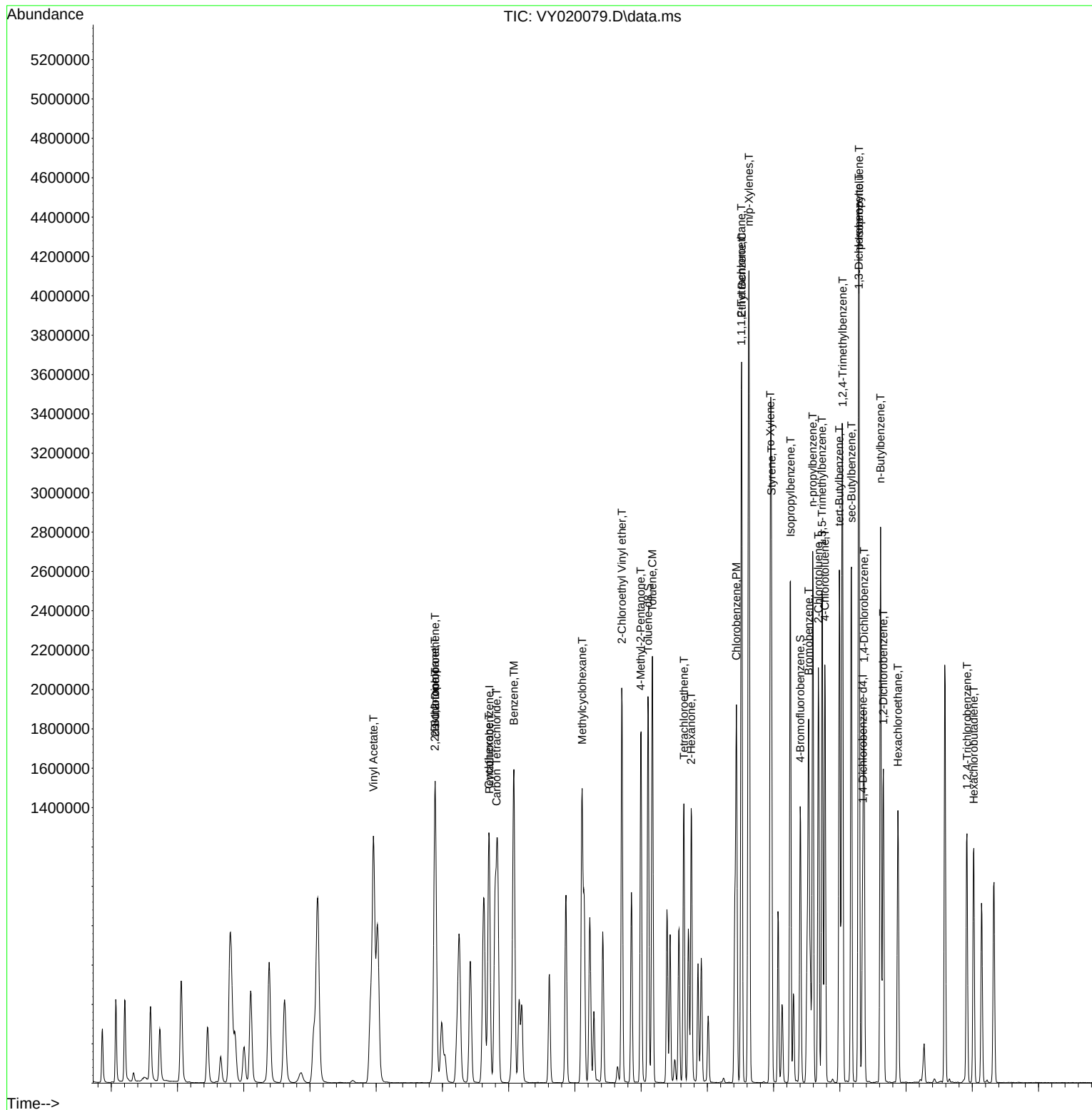
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020079.D
Acq On : 30 Oct 2024 14:29
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:03:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020080.D
 Acq On : 30 Oct 2024 14:52
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 14:00:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	264324	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	464829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	410851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	189466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	513131	159.809	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	319.620%#	
35) Dibromofluoromethane	7.634	113	473607	166.018	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	332.040%#	
50) Toluene-d8	10.103	98	1901637	168.741	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	337.480%#	
62) 4-Bromofluorobenzene	12.402	95	632951	175.829	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	351.660%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	367153	149.502	ug/l	98
3) Chloromethane	2.068	50	577439	139.123	ug/l	99
4) Vinyl Chloride	2.202	62	633528	143.945	ug/l	98
5) Bromomethane	2.586	94	418638	142.061	ug/l	99
6) Chloroethane	2.732	64	405582	142.820	ug/l	98
7) Trichlorofluoromethane	3.056	101	804100	151.851	ug/l	96
8) Diethyl Ether	3.452	74	236804	164.824	ug/l	77
9) 1,1,2-Trichlorotrifluo...	3.818	101	447736	150.052	ug/l	91
10) Methyl Iodide	4.001	142	464092	166.878	ug/l #	90
11) Tert butyl alcohol	4.866	59	154213	615.794	ug/l #	82
12) 1,1-Dichloroethene	3.787	96	437783	154.648	ug/l #	77
13) Acrolein	3.653	56	222317	766.398	ug/l	99
14) Allyl chloride	4.385	41	815140	162.209	ug/l #	90
15) Acrylonitrile	5.055	53	532102	817.722	ug/l	99
16) Acetone	3.866	43	615168	845.930	ug/l #	85
17) Carbon Disulfide	4.104	76	1456308	155.090	ug/l	100
18) Methyl Acetate	4.385	43	270939	153.074	ug/l #	88
19) Methyl tert-butyl Ether	5.116	73	1166714	170.073	ug/l	96
20) Methylene Chloride	4.610	84	473057	131.706	ug/l #	81
21) trans-1,2-Dichloroethene	5.110	96	498356	156.706	ug/l #	83
22) Diisopropyl ether	6.019	45	1712860	166.319	ug/l	91
23) Vinyl Acetate	5.958	43	4953304	871.948	ug/l #	91
24) 1,1-Dichloroethane	5.915	63	951564	155.708	ug/l	96
25) 2-Butanone	6.890	43	817694	819.771	ug/l #	84
26) 2,2-Dichloropropane	6.884	77	795976	156.450	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	583766	162.347	ug/l	83
28) Bromochloromethane	7.244	49	449704	157.093	ug/l #	73
29) Tetrahydrofuran	7.262	42	474645	828.165	ug/l #	82
30) Chloroform	7.421	83	953842	158.077	ug/l	100
31) Cyclohexane	7.701	56	862973	141.540	ug/l	86
32) 1,1,1-Trichloroethane	7.616	97	847338	161.468	ug/l	96
36) 1,1-Dichloropropene	7.835	75	711249	159.013	ug/l	94
37) Ethyl Acetate	6.982	43	333510	157.506	ug/l #	94
38) Carbon Tetrachloride	7.817	117	731039	163.871	ug/l	99
39) Methylcyclohexane	9.109	83	921465	164.246	ug/l #	88
40) Benzene	8.079	78	2088865	160.528	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020080.D
 Acq On : 30 Oct 2024 14:52
 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 :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 14:00:05 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	176781	124.237	ug/l	88
42) 1,2-Dichloroethane	8.158	62	582749	163.063	ug/l	94
43) Isopropyl Acetate	8.195	43	679605	171.562	ug/l #	78
44) Trichloroethene	8.866	130	482450	159.766	ug/l	88
45) 1,2-Dichloropropane	9.140	63	508168	164.358	ug/l	96
46) Dibromomethane	9.231	93	273750	163.933	ug/l	89
47) Bromodichloromethane	9.420	83	727941	167.201	ug/l	98
48) Methyl methacrylate	9.219	41	328446	183.056	ug/l #	81
49) 1,4-Dioxane	9.225	88	58592	3527.312	ug/l #	91
51) 4-Methyl-2-Pentanone	9.999	43	1759800	869.690	ug/l	90
52) Toluene	10.170	92	1328982	168.421	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	678432	181.736	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	798700	177.804	ug/l #	85
55) 1,1,2-Trichloroethane	10.573	97	345498	168.601	ug/l	96
56) Ethyl methacrylate	10.438	69	541087	193.260	ug/l #	75
57) 1,3-Dichloropropane	10.713	76	626765	165.943	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	1258516	881.311	ug/l	92
59) 2-Hexanone	10.755	43	1268082	883.076	ug/l	88
60) Dibromochloromethane	10.908	129	455170	176.635	ug/l	100
61) 1,2-Dibromoethane	11.012	107	317856	165.371	ug/l	99
64) Tetrachloroethene	10.646	164	422849	159.062	ug/l	92
65) Chlorobenzene	11.438	112	1384830	162.267	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	456266	169.965	ug/l	99
67) Ethyl Benzene	11.518	91	2617908	165.261	ug/l	98
68) m/p-Xylenes	11.627	106	1926635	333.611	ug/l	91
69) o-Xylene	11.950	106	917838	168.666	ug/l	91
70) Styrene	11.969	104	1569103	177.165	ug/l	96
71) Bromoform	12.127	173	240850	180.255	ug/l #	97
73) Isopropylbenzene	12.249	105	2439942	165.379	ug/l	98
74) N-amyl acetate	12.066	43	665656	191.782	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	408694	157.141	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	271515m	85.825	ug/l	
77) Bromobenzene	12.530	156	492090	165.517	ug/l	82
78) n-propylbenzene	12.591	91	2991377	162.082	ug/l	97
79) 2-Chlorotoluene	12.676	91	1681376	164.578	ug/l	93
80) 1,3,5-Trimethylbenzene	12.731	105	1967127	166.529	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.298	75	137971	176.265	ug/l #	87
82) 4-Chlorotoluene	12.773	91	1719250	165.709	ug/l	94
83) tert-Butylbenzene	12.993	119	1718909	166.274	ug/l	93
84) 1,2,4-Trimethylbenzene	13.042	105	1981367	170.976	ug/l	96
85) sec-Butylbenzene	13.170	105	2613388	164.305	ug/l	97
86) p-Isopropyltoluene	13.285	119	2161709	171.493	ug/l	95
87) 1,3-Dichlorobenzene	13.285	146	1008488	167.149	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	975162	160.247	ug/l	96
89) n-Butylbenzene	13.615	91	2158102	171.071	ug/l	98
90) Hexachloroethane	13.877	117	421230	168.105	ug/l	85
91) 1,2-Dichlorobenzene	13.657	146	869621	165.525	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	63821	164.750	ug/l	76
93) 1,2,4-Trichlorobenzene	14.919	180	508720	189.243	ug/l	97
94) Hexachlorobutadiene	15.023	225	259405	170.763	ug/l	98
95) Naphthalene	15.139	128	1003119	208.860	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	428513	187.541	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
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 :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

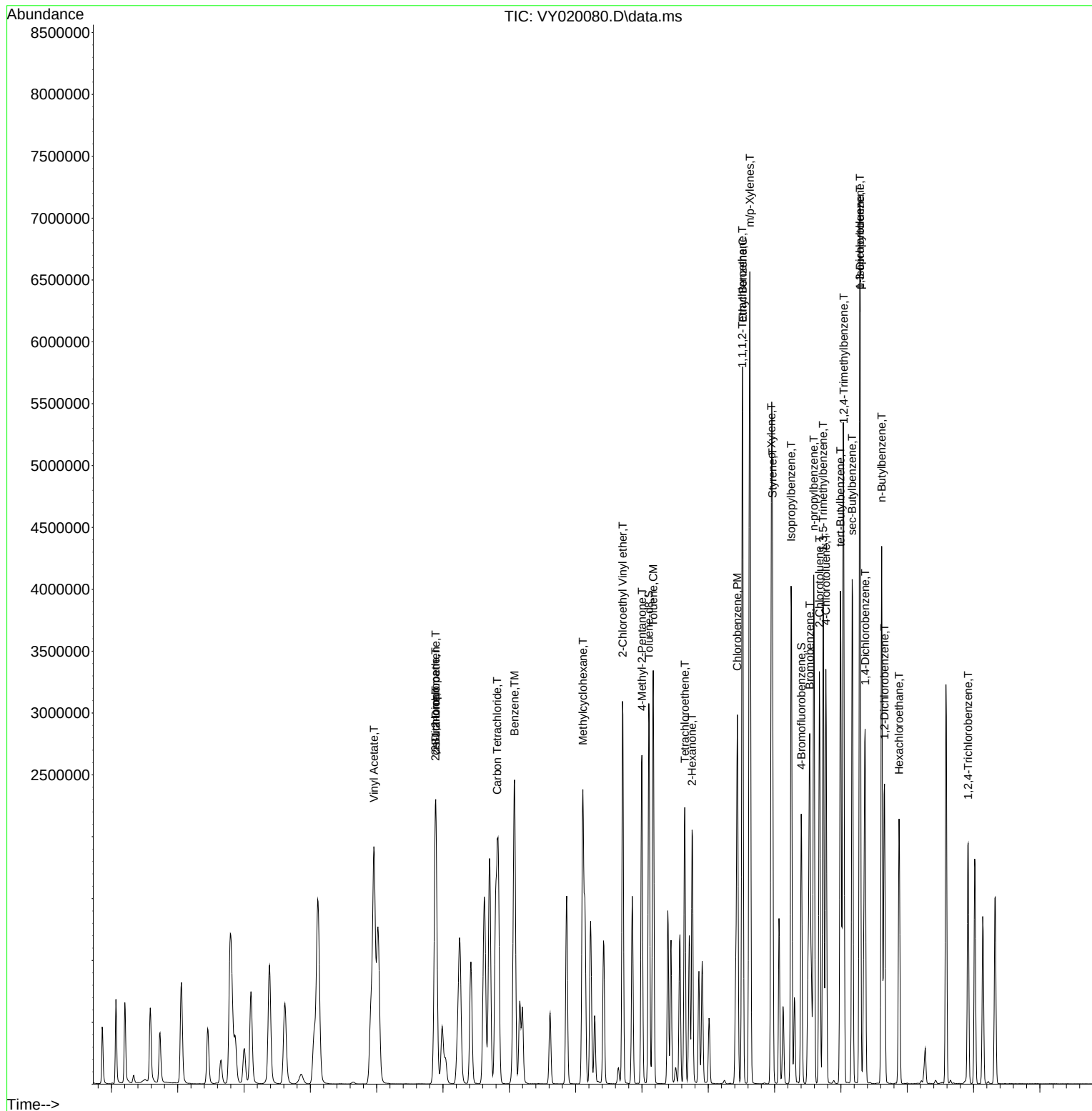
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020080.D
Acq On : 30 Oct 2024 14:52
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 30 15:05:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 14:00:05 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
 Acq On : 30 Oct 2024 15:47
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY103024

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 31 15:29:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	473201	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	859474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	749198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	323321	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	310615	52.594	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.180%	
35) Dibromofluoromethane	7.634	113	274061	50.153	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.300%	
50) Toluene-d8	10.103	98	1103339	50.725	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.460%	
62) 4-Bromofluorobenzene	12.402	95	351612	49.768	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 99.540%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	120512	27.512	ug/l	98
3) Chloromethane	2.068	50	210255	28.978	ug/l	100
4) Vinyl Chloride	2.202	62	232365	29.832	ug/l	98
5) Bromomethane	2.598	94	148623	28.740	ug/l	100
6) Chloroethane	2.739	64	145709	28.986	ug/l	99
7) Trichlorofluoromethane	3.062	101	288596	30.329	ug/l	97
8) Diethyl Ether	3.458	74	76537	28.839	ug/l	75
9) 1,1,2-Trichlorotrifluo...	3.818	101	161253	30.214	ug/l	90
10) Methyl Iodide	4.007	142	148079	28.738	ug/l #	89
11) Tert butyl alcohol	4.866	59	50077	117.881	ug/l #	83
12) 1,1-Dichloroethene	3.793	96	155938	30.538	ug/l #	83
13) Acrolein	3.653	56	65380	123.633	ug/l	99
14) Allyl chloride	4.385	41	281369	30.540	ug/l #	91
15) Acrylonitrile	5.055	53	169656	140.436	ug/l	97
16) Acetone	3.866	43	202777	147.642	ug/l #	87
17) Carbon Disulfide	4.110	76	511874	30.122	ug/l	99
18) Methyl Acetate	4.391	43	89321	27.718	ug/l #	87
19) Methyl tert-butyl Ether	5.116	73	373674	29.087	ug/l	96
20) Methylene Chloride	4.616	84	162543	26.345	ug/l #	79
21) trans-1,2-Dichloroethene	5.116	96	172847	30.014	ug/l	87
22) Diisopropyl ether	6.019	45	567160	29.665	ug/l	89
23) Vinyl Acetate	5.964	43	1600445	148.749	ug/l #	90
24) 1,1-Dichloroethane	5.921	63	328973	29.716	ug/l	95
25) 2-Butanone	6.890	43	260961	140.170	ug/l #	84
26) 2,2-Dichloropropane	6.884	77	277277	30.103	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	196528	29.687	ug/l	83
28) Bromochloromethane	7.244	49	137380	26.502	ug/l #	71
29) Tetrahydrofuran	7.262	42	150159	139.758	ug/l #	81
30) Chloroform	7.421	83	321845	29.297	ug/l	100
31) Cyclohexane	7.701	56	319127	29.776	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	290109	30.248	ug/l	94
36) 1,1-Dichloropropene	7.835	75	252441	29.905	ug/l	94
37) Ethyl Acetate	6.982	43	108369	26.927	ug/l	95
38) Carbon Tetrachloride	7.817	117	255169	30.060	ug/l	99
39) Methylcyclohexane	9.109	83	325568	30.388	ug/l #	89
40) Benzene	8.079	78	717780	29.132	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
 Acq On : 30 Oct 2024 15:47
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY103024

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/01/2024
 Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 31 15:29:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	63419	31.457	ug/l #	79
42) 1,2-Dichloroethane	8.158	62	191476	28.075	ug/l	93
43) Isopropyl Acetate	8.195	43	215480	27.843	ug/l #	78
44) Trichloroethene	8.866	130	162773	28.504	ug/l	85
45) 1,2-Dichloropropane	9.140	63	168774	28.630	ug/l	97
46) Dibromomethane	9.231	93	89880	28.139	ug/l	88
47) Bromodichloromethane	9.420	83	240667	28.761	ug/l #	98
48) Methyl methacrylate	9.219	41	102609	28.624	ug/l #	80
49) 1,4-Dioxane	9.225	88	17875	543.556	ug/l #	89
51) 4-Methyl-2-Pentanone	10.000	43	560878	140.651	ug/l	89
52) Toluene	10.170	92	456965	30.087	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	214547	29.035	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	257134	29.155	ug/l #	85
55) 1,1,2-Trichloroethane	10.573	97	114405	28.807	ug/l	98
56) Ethyl methacrylate	10.438	69	166233	29.180	ug/l #	73
57) 1,3-Dichloropropane	10.713	76	205867	28.306	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	376129	133.877	ug/l	92
59) 2-Hexanone	10.762	43	408349	142.834	ug/l	87
60) Dibromochloromethane	10.908	129	145391	28.720	ug/l	99
61) 1,2-Dibromoethane	11.012	107	101472	27.501	ug/l	99
64) Tetrachloroethene	10.646	164	144117	29.134	ug/l	94
65) Chlorobenzene	11.438	112	466643	29.232	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	147606	28.941	ug/l	99
67) Ethyl Benzene	11.518	91	892211	29.899	ug/l	98
68) m/p-Xylenes	11.627	106	660200	60.470	ug/l	91
69) o-Xylene	11.950	106	310053	29.996	ug/l	92
70) Styrene	11.969	104	523115	30.608	ug/l	95
71) Bromoform	12.133	173	77218	29.512	ug/l #	94
73) Isopropylbenzene	12.255	105	846459	32.772	ug/l	98
74) N-ethyl acetate	12.072	43	205663	31.854	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	134581	29.793	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	92645m	30.568	ug/l	
77) Bromobenzene	12.530	156	162960	31.197	ug/l	82
78) n-propylbenzene	12.591	91	1066407	33.175	ug/l	97
79) 2-Chlorotoluene	12.676	91	579585	32.482	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	686904	33.126	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	43078	30.573	ug/l #	84
82) 4-Chlorotoluene	12.773	91	594632	32.684	ug/l	94
83) tert-Butylbenzene	12.993	119	615613	33.952	ug/l	94
84) 1,2,4-Trimethylbenzene	13.042	105	674768	32.854	ug/l	97
85) sec-Butylbenzene	13.176	105	941389	33.819	ug/l	97
86) p-Isopropyltoluene	13.292	119	756263	33.856	ug/l	96
87) 1,3-Dichlorobenzene	13.286	146	340750	32.111	ug/l	96
88) 1,4-Dichlorobenzene	13.365	146	336322	31.826	ug/l	96
89) n-Butylbenzene	13.615	91	776354	34.671	ug/l	97
90) Hexachloroethane	13.877	117	145909	33.029	ug/l	83
91) 1,2-Dichlorobenzene	13.657	146	294420	31.920	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20485	29.903	ug/l	72
93) 1,2,4-Trichlorobenzene	14.919	180	163820	33.062	ug/l	98
94) Hexachlorobutadiene	15.023	225	91247	33.677	ug/l	97
95) Naphthalene	15.145	128	301585	32.560	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	136291	32.403	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVY103024

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

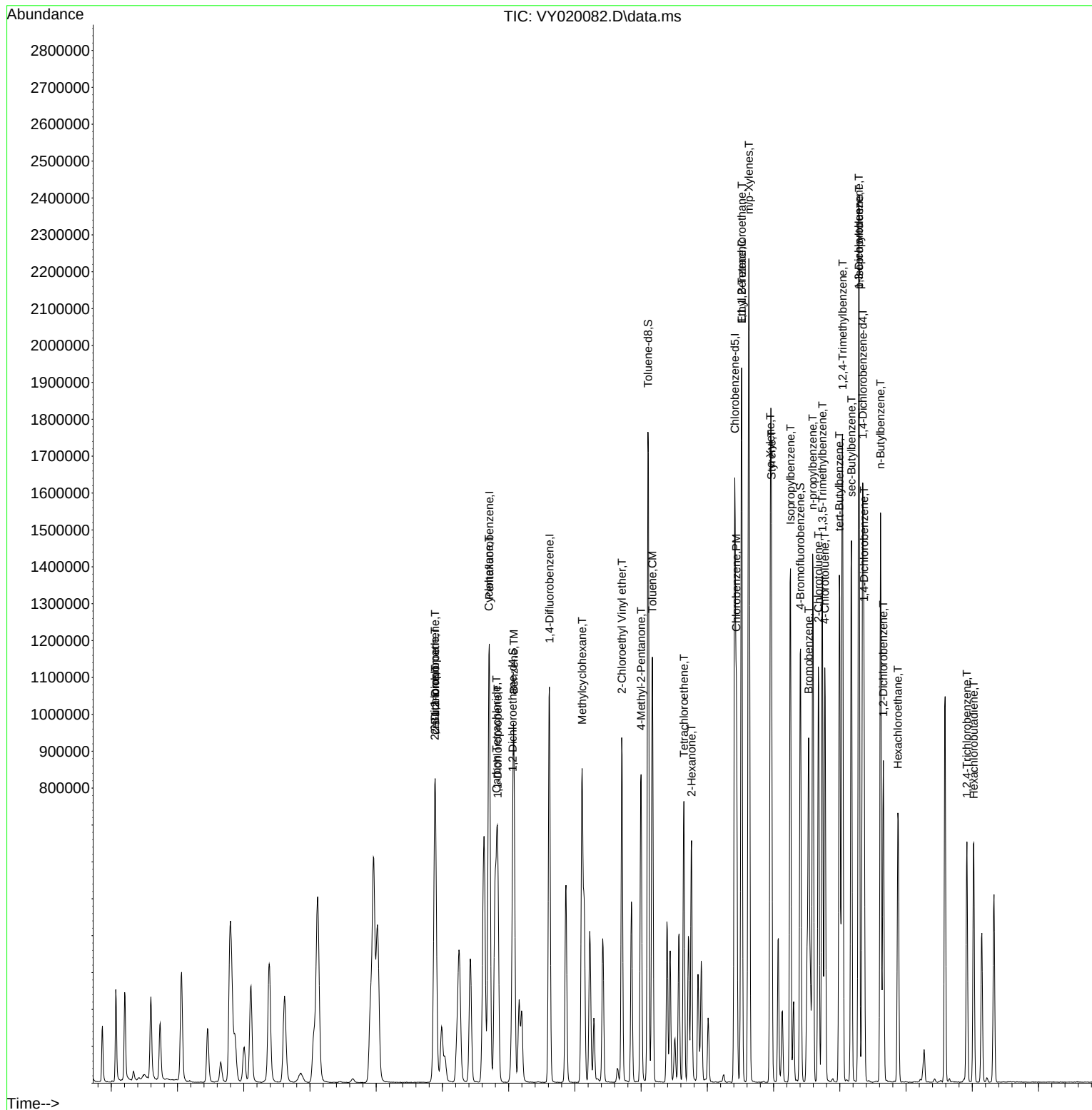
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/01/2024
Supervised By :Mahesh Dadoda 11/01/2024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
 Acq On : 30 Oct 2024 15:47
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY103024

Quant Time: Oct 31 15:29:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	187#	0.00
2 T	Dichlorodifluoromethane	0.463	0.255	44.9#	125	0.00
3 P	Chloromethane	0.767	0.444	42.1#	122	0.00
4 C	Vinyl Chloride	0.823	0.491	40.3#	122	0.00
5 T	Bromomethane	0.546	0.314	42.5#	122	0.00
6 T	Chloroethane	0.531	0.308	42.0#	118	0.00
7 T	Trichlorofluoromethane	1.005	0.610	39.3#	123	0.00
8 T	Diethyl Ether	0.280	0.162	42.1#	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.564	0.341	39.5#	125	0.00
10 T	Methyl Iodide	0.544	0.313	42.5#	113	0.00
11 T	Tert butyl alcohol	0.045	0.021	53.3#	120	0.00
12 CM	1,1-Dichloroethene	0.540	0.330	38.9#	125	0.00
13 T	Acrolein	0.056	0.028	50.0#	104	0.00
14 T	Allyl chloride	0.973	0.595	38.8#	121	0.00
15 T	Acrylonitrile	0.128	0.072	43.8#	115	0.00
16 T	Acetone	0.145	0.086	40.7#	115	0.00
17 T	Carbon Disulfide	1.796	1.082	39.8#	121	0.00
18 T	Methyl Acetate	0.340	0.189	44.4#	111	0.00
19 T	Methyl tert-butyl Ether	1.357	0.790	41.8#	119	0.00
20 T	Methylene Chloride	0.652	0.343	47.4#	116	0.00
21 T	trans-1,2-Dichloroethene	0.609	0.365	40.1#	121	0.00
22 T	Diisopropyl ether	2.020	1.199	40.6#	118	0.00
23 T	Vinyl Acetate	1.137	0.676	40.5#	120	0.00
24 P	1,1-Dichloroethane	1.170	0.695	40.6#	121	0.00
25 T	2-Butanone	0.197	0.110	44.2#	115	0.00
26 T	2,2-Dichloropropane	0.973	0.586	39.8#	124	0.00
27 T	cis-1,2-Dichloroethene	0.700	0.415	40.7#	120	0.00
28 T	Bromochloromethane	0.548	0.290	47.1#	108	0.00
29 T	Tetrahydrofuran	0.114	0.063	44.7#	114	0.00
30 C	Chloroform	1.161	0.680	41.4#	119	0.00
31 T	Cyclohexane	1.132	0.674	40.5#	128	0.00
32 T	1,1,1-Trichloroethane	1.013	0.613	39.5#	121	0.00
33 S	1,2-Dichloroethane-d4	0.624	0.656	-5.1	209#	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	191#	0.00
35 S	Dibromofluoromethane	0.318	0.319	-0.3	200#	0.00
36 T	1,1-Dichloropropene	0.491	0.294	40.1#	125	0.00
37 T	Ethyl Acetate	0.234	0.126	46.2#	115	0.00
38 T	Carbon Tetrachloride	0.494	0.297	39.9#	123	0.00
39 T	Methylcyclohexane	0.623	0.379	39.2#	125	0.00
40 TM	Benzene	1.433	0.835	41.7#	121	0.00
41 T	Methacrylonitrile	0.117	0.074	36.8#	119	0.00
42 TM	1,2-Dichloroethane	0.397	0.223	43.8#	117	0.00
43 T	Isopropyl Acetate	0.450	0.251	44.2#	116	0.00
44 TM	Trichloroethene	0.332	0.189	43.1#	118	0.00
45 C	1,2-Dichloropropane	0.343	0.196	42.9#	118	0.00
46 T	Dibromomethane	0.186	0.105	43.5#	117	0.00
47 T	Bromodichloromethane	0.487	0.280	42.5#	119	0.00
48 T	Methyl methacrylate	0.209	0.119	43.1#	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
 Acq On : 30 Oct 2024 15:47
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY103024

Quant Time: Oct 31 15:29:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	0.002	0.001	50.0#	114	0.00
50 S	Toluene-d8	1.265	1.284	-1.5	201#	0.00
51 T	4-Methyl-2-Pentanone	0.232	0.131	43.5#	114	0.00
52 CM	Toluene	0.884	0.532	39.8#	122	0.00
53 T	t-1,3-Dichloropropene	0.430	0.250	41.9#	119	0.00
54 T	cis-1,3-Dichloropropene	0.513	0.299	41.7#	118	0.00
55 T	1,1,2-Trichloroethane	0.231	0.133	42.4#	118	0.00
56 T	Ethyl methacrylate	0.331	0.193	41.7#	118	0.00
57 T	1,3-Dichloropropane	0.423	0.240	43.3#	117	0.00
58 T	2-Chloroethyl Vinyl ether	0.163	0.088	46.0#	105	0.00
59 T	2-Hexanone	0.166	0.095	42.8#	115	0.00
60 T	Dibromochloromethane	0.295	0.169	42.7#	119	0.00
61 T	1,2-Dibromoethane	0.215	0.118	45.1#	116	0.00
62 S	4-Bromofluorobenzene	0.411	0.409	0.5	196#	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	192#	0.00
64 T	Tetrachloroethene	0.330	0.192	41.8#	120	0.00
65 PM	Chlorobenzene	1.065	0.623	41.5#	120	0.00
66 T	1,1,1,2-Tetrachloroethane	0.340	0.197	42.1#	119	0.00
67 C	Ethyl Benzene	1.992	1.191	40.2#	122	0.00
68 T	m/p-Xylenes	0.729	0.441	39.5#	122	0.00
69 T	o-Xylene	0.690	0.414	40.0#	122	0.00
70 T	Styrene	1.141	0.698	38.8#	122	0.00
71 P	Bromoform	0.175	0.103	41.1#	120	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	172#	0.00
73 T	Isopropylbenzene	3.994	2.618	34.5#	122	0.00
74 T	N-amyl acetate	0.998	0.636	36.3#	119	0.00
75 P	1,1,2,2-Tetrachloroethane	0.699	0.416	40.5#	115	0.00
76 T	1,2,3-Trichloropropane	0.469	0.287	38.8#	115	0.00
77 T	Bromobenzene	0.808	0.504	37.6#	117	0.00
78 T	n-propylbenzene	4.971	3.298	33.7#	124	0.00
79 T	2-Chlorotoluene	2.759	1.793	35.0#	123	0.00
80 T	1,3,5-Trimethylbenzene	3.207	2.125	33.7#	123	0.00
81 T	trans-1,4-Dichloro-2-butene	0.218	0.133	39.0#	116	0.00
82 T	4-Chlorotoluene	2.813	1.839	34.6#	122	0.00
83 T	tert-Butylbenzene	2.804	1.904	32.1#	123	0.00
84 T	1,2,4-Trimethylbenzene	3.176	2.087	34.3#	122	0.00
85 T	sec-Butylbenzene	4.305	2.912	32.4#	125	0.00
86 T	p-Isopropyltoluene	3.454	2.339	32.3#	125	0.00
87 T	1,3-Dichlorobenzene	1.641	1.054	35.8#	120	0.00
88 T	1,4-Dichlorobenzene	1.634	1.040	36.4#	121	0.00
89 T	n-Butylbenzene	3.463	2.401	30.7#	127	0.00
90 T	Hexachloroethane	0.683	0.451	34.0#	124	0.00
91 T	1,2-Dichlorobenzene	1.426	0.911	36.1#	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.106	0.063	40.6#	119	0.00
93 T	1,2,4-Trichlorobenzene	0.766	0.507	33.8#	126	0.00
94 T	Hexachlorobutadiene	0.419	0.282	32.7#	125	0.00
95 T	Naphthalene	1.432	0.933	34.8#	121	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY103024

Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 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	0.650	0.422	35.1#	126	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
 Acq On : 30 Oct 2024 15:47
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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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	187	0.00
2 T	Dichlorodifluoromethane	50.000	27.512	45.0#	125	0.00
3 P	Chloromethane	50.000	28.978	42.0#	122	0.00
4 C	Vinyl Chloride	50.000	29.832	40.3#	122	0.00
5 T	Bromomethane	50.000	28.740	42.5#	122	0.00
6 T	Chloroethane	50.000	28.986	42.0#	118	0.00
7 T	Trichlorofluoromethane	50.000	30.329	39.3#	123	0.00
8 T	Diethyl Ether	50.000	28.839	42.3#	120	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	30.214	39.6#	125	0.00
10 T	Methyl Iodide	50.000	28.738	42.5#	113	0.00
11 T	Tert butyl alcohol	250.000	117.881	52.8#	120	0.00
12 CM	1,1-Dichloroethene	50.000	30.538	38.9#	125	0.00
13 T	Acrolein	250.000	123.633	50.5#	104	0.00
14 T	Allyl chloride	50.000	30.540	38.9#	121	0.00
15 T	Acrylonitrile	250.000	140.436	43.8#	115	0.00
16 T	Acetone	250.000	147.642	40.9#	115	0.00
17 T	Carbon Disulfide	50.000	30.122	39.8#	121	0.00
18 T	Methyl Acetate	50.000	27.718	44.6#	111	0.00
19 T	Methyl tert-butyl Ether	50.000	29.087	41.8#	119	0.00
20 T	Methylene Chloride	50.000	26.345	47.3#	116	0.00
21 T	trans-1,2-Dichloroethene	50.000	30.014	40.0#	121	0.00
22 T	Diisopropyl ether	50.000	29.665	40.7#	118	0.00
23 T	Vinyl Acetate	250.000	148.749	40.5#	120	0.00
24 P	1,1-Dichloroethane	50.000	29.716	40.6#	121	0.00
25 T	2-Butanone	250.000	140.170	43.9#	115	0.00
26 T	2,2-Dichloropropane	50.000	30.103	39.8#	124	0.00
27 T	cis-1,2-Dichloroethene	50.000	29.687	40.6#	120	0.00
28 T	Bromochloromethane	50.000	26.502	47.0#	108	0.00
29 T	Tetrahydrofuran	250.000	139.758	44.1#	114	0.00
30 C	Chloroform	50.000	29.297	41.4#	119	0.00
31 T	Cyclohexane	50.000	29.776	40.4#	128	0.00
32 T	1,1,1-Trichloroethane	50.000	30.248	39.5#	121	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.594	-5.2	209	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	191	0.00
35 S	Dibromofluoromethane	50.000	50.153	-0.3	200	0.00
36 T	1,1-Dichloropropene	50.000	29.905	40.2#	125	0.00
37 T	Ethyl Acetate	50.000	26.927	46.1#	115	0.00
38 T	Carbon Tetrachloride	50.000	30.060	39.9#	123	0.00
39 T	Methylcyclohexane	50.000	30.388	39.2#	125	0.00
40 TM	Benzene	50.000	29.132	41.7#	121	0.00
41 T	Methacrylonitrile	50.000	31.457	37.1#	119	0.00
42 TM	1,2-Dichloroethane	50.000	28.075	43.9#	117	0.00
43 T	Isopropyl Acetate	50.000	27.843	44.3#	116	0.00
44 TM	Trichloroethene	50.000	28.504	43.0#	118	0.00
45 C	1,2-Dichloropropane	50.000	28.630	42.7#	118	0.00
46 T	Dibromomethane	50.000	28.139	43.7#	117	0.00
47 T	Bromodichloromethane	50.000	28.761	42.5#	119	0.00
48 T	Methyl methacrylate	50.000	28.624	42.8#	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
 Data File : VY020082.D
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 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY103024

Quant Time: Oct 31 15:29:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	543.556	45.6#	114	0.00
50 S	Toluene-d8	50.000	50.725	-1.5	201	0.00
51 T	4-Methyl-2-Pentanone	250.000	140.651	43.7#	114	0.00
52 CM	Toluene	50.000	30.087	39.8#	122	0.00
53 T	t-1,3-Dichloropropene	50.000	29.035	41.9#	119	0.00
54 T	cis-1,3-Dichloropropene	50.000	29.155	41.7#	118	0.00
55 T	1,1,2-Trichloroethane	50.000	28.807	42.4#	118	0.00
56 T	Ethyl methacrylate	50.000	29.180	41.6#	118	0.00
57 T	1,3-Dichloropropane	50.000	28.306	43.4#	117	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	133.877	46.4#	105	0.00
59 T	2-Hexanone	250.000	142.834	42.9#	115	0.00
60 T	Dibromochloromethane	50.000	28.720	42.6#	119	0.00
61 T	1,2-Dibromoethane	50.000	27.501	45.0#	116	0.00
62 S	4-Bromofluorobenzene	50.000	49.768	0.5	196	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	192	0.00
64 T	Tetrachloroethene	50.000	29.134	41.7#	120	0.00
65 PM	Chlorobenzene	50.000	29.232	41.5#	120	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	28.941	42.1#	119	0.00
67 C	Ethyl Benzene	50.000	29.899	40.2#	122	0.00
68 T	m/p-Xylenes	100.000	60.470	39.5#	122	0.00
69 T	o-Xylene	50.000	29.996	40.0#	122	0.00
70 T	Styrene	50.000	30.608	38.8#	122	0.00
71 P	Bromoform	50.000	29.512	41.0#	120	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	172	0.00
73 T	Isopropylbenzene	50.000	32.772	34.5#	122	0.00
74 T	N-amyl acetate	50.000	31.854	36.3#	119	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	29.793	40.4#	115	0.00
76 T	1,2,3-Trichloropropane	50.000	30.568	38.9#	115	0.00
77 T	Bromobenzene	50.000	31.197	37.6#	117	0.00
78 T	n-propylbenzene	50.000	33.175	33.7#	124	0.00
79 T	2-Chlorotoluene	50.000	32.482	35.0#	123	0.00
80 T	1,3,5-Trimethylbenzene	50.000	33.126	33.7#	123	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	30.573	38.9#	116	0.00
82 T	4-Chlorotoluene	50.000	32.684	34.6#	122	0.00
83 T	tert-Butylbenzene	50.000	33.952	32.1#	123	0.00
84 T	1,2,4-Trimethylbenzene	50.000	32.854	34.3#	122	0.00
85 T	sec-Butylbenzene	50.000	33.819	32.4#	125	0.00
86 T	p-Isopropyltoluene	50.000	33.856	32.3#	125	0.00
87 T	1,3-Dichlorobenzene	50.000	32.111	35.8#	120	0.00
88 T	1,4-Dichlorobenzene	50.000	31.826	36.3#	121	0.00
89 T	n-Butylbenzene	50.000	34.671	30.7#	127	0.00
90 T	Hexachloroethane	50.000	33.029	33.9#	124	0.00
91 T	1,2-Dichlorobenzene	50.000	31.920	36.2#	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	29.903	40.2#	119	0.00
93 T	1,2,4-Trichlorobenzene	50.000	33.062	33.9#	126	0.00
94 T	Hexachlorobutadiene	50.000	33.677	32.6#	125	0.00
95 T	Naphthalene	50.000	32.560	34.9#	121	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020082.D
Acq On : 30 Oct 2024 15:47
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Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
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Quant Time: Oct 31 15:29:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 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	32.403	35.2#	126	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.575	0.573		-0.35	20
Chloromethane	0.952	0.649	0.1	-31.83	20
Vinyl Chloride	0.618	0.704		13.92	20
Bromomethane	0.328	0.344		4.88	20
Chloroethane	0.488	0.457		-6.35	20
Trichlorofluoromethane	1.018	1.101		8.15	20
1,1,2-Trichlorotrifluoroethane	0.575	0.605		5.22	20
1,1-Dichloroethene	0.569	0.578		1.58	20
Acetone	0.238	0.224		-5.88	20
Carbon Disulfide	1.753	1.595		-9.01	20
Methyl tert-butyl Ether	1.745	1.942		11.29	20
Methyl Acetate	1.172	0.687		-41.38	20
Methylene Chloride	0.635	0.652		2.68	20
trans-1,2-Dichloroethene	0.585	0.598		2.22	20
1,1-Dichloroethane	1.102	1.128	0.1	2.36	20
Cyclohexane	0.997	0.993		-0.4	20
2-Butanone	0.337	0.338		0.3	20
Carbon Tetrachloride	0.525	0.586		11.62	20
cis-1,2-Dichloroethene	0.683	0.720		5.42	20
Bromochloromethane	0.439	0.442		0.68	20
Chloroform	1.121	1.197		6.78	20
1,1,1-Trichloroethane	1.021	1.100		7.74	20
Methylcyclohexane	0.478	0.569		19.04	20
Benzene	1.507	1.597		5.97	20
1,2-Dichloroethane	0.488	0.528		8.2	20
Trichloroethene	0.348	0.361		3.74	20
1,2-Dichloropropane	0.354	0.387		9.32	20
Bromodichloromethane	0.526	0.568		7.99	20
4-Methyl-2-Pentanone	0.406	0.431		6.16	20
Toluene	0.882	0.979		11	20
t-1,3-Dichloropropene	0.544	0.568		4.41	20
cis-1,3-Dichloropropene	0.576	0.622		7.99	20
1,1,2-Trichloroethane	0.332	0.352		6.02	20
2-Hexanone	0.296	0.328		10.81	20
Dibromochloromethane	0.378	0.419		10.85	20
1,2-Dibromoethane	0.340	0.354		4.12	20
Tetrachloroethene	0.333	0.364		9.31	20
Chlorobenzene	1.119	1.180	0.3	5.45	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.867	2.143		14.78	20
m/p-Xylenes	0.707	0.810		14.57	20
o-Xylene	0.661	0.781		18.15	20
Styrene	1.154	1.325		14.82	20
Bromoform	0.293	0.325	0.1	10.92	20
Isopropylbenzene	3.504	3.958		12.96	20
1,1,2,2-Tetrachloroethane	1.170	1.145	0.3	-2.14	20
1,3-Dichlorobenzene	1.838	1.791		-2.56	20
1,4-Dichlorobenzene	1.937	1.765		-8.88	20
1,2-Dichlorobenzene	1.766	1.712		-3.06	20
1,2-Dibromo-3-Chloropropane	0.237	0.214		-9.7	20
1,2,4-Trichlorobenzene	0.967	0.881		-8.89	20
1,2,3-Trichlorobenzene	0.939	0.866		-7.77	20
1,2-Dichloroethane-d4	0.722	0.657		-9	20
Dibromofluoromethane	0.338	0.320		-5.32	20
Toluene-d8	1.247	1.188		-4.73	20
4-Bromofluorobenzene	0.466	0.459		-1.5	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/15/2024
 Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	192160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	316615	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	272995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	137639	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	126211	45.474	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.940%
35) Dibromofluoromethane	8.159	113	101367	47.299	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.600%
50) Toluene-d8	10.559	98	376126	47.644	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.280%
62) 4-Bromofluorobenzene	12.847	95	145405	49.283	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.560%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	110023	49.806	ug/l	94
3) Chloromethane	2.359	50	124740	48.024	ug/l	98
4) Vinyl Chloride	2.512	62	135249	56.924	ug/l	97
5) Bromomethane	2.901	94	66030	52.453	ug/l	98
6) Chloroethane	3.077	64	87756	59.946	ug/l	99
7) Trichlorofluoromethane	3.471	101	211513	54.042	ug/l	100
8) Diethyl Ether	3.953	74	73060	52.917	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	116230	52.556	ug/l	97
10) Methyl Iodide	4.577	142	162502	54.979	ug/l	95
11) Tert butyl alcohol	5.530	59	84361	230.274	ug/l #	86
12) 1,1-Dichloroethene	4.324	96	111145	50.791	ug/l	93
13) Acrolein	4.171	56	73935	202.388	ug/l	100
14) Allyl chloride	5.012	41	178964	50.428	ug/l	94
15) Acrylonitrile	5.712	53	261340	246.415	ug/l	100
16) Acetone	4.418	43	215664	269.221	ug/l	97
17) Carbon Disulfide	4.700	76	306540	45.487	ug/l	100
18) Methyl Acetate	5.012	43	131986	44.640	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	373118	55.629	ug/l	97
20) Methylene Chloride	5.265	84	125296	51.329	ug/l	88
21) trans-1,2-Dichloroethene	5.777	96	114964	51.163	ug/l	99
22) Diisopropyl ether	6.665	45	371226	52.644	ug/l	97
23) Vinyl Acetate	6.594	43	1294265	266.151	ug/l	98
24) 1,1-Dichloroethane	6.559	63	216681	51.181	ug/l	97
25) 2-Butanone	7.477	43	325094	251.070	ug/l	98
26) 2,2-Dichloropropane	7.483	77	205456	55.757	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	138333	52.724	ug/l	96
28) Bromochloromethane	7.806	49	84866	50.314	ug/l	92
29) Tetrahydrofuran	7.836	42	214340	249.519	ug/l	94
30) Chloroform	7.959	83	229955	53.365	ug/l	99
31) Cyclohexane	8.253	56	190733	49.777	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	211450	53.913	ug/l	97
36) 1,1-Dichloropropene	8.365	75	160171	53.889	ug/l	99
37) Ethyl Acetate	7.553	43	138233	51.261	ug/l	98
38) Carbon Tetrachloride	8.353	117	185450	55.822	ug/l	99
39) Methylcyclohexane	9.594	83	180001	59.530	ug/l	100
40) Benzene	8.600	78	505504	52.959	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/15/2024
 Supervised By : Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	77958	53.758	ug/l	96
42) 1,2-Dichloroethane	8.665	62	167241	54.101	ug/l	99
43) Isopropyl Acetate	8.683	43	245198	49.202	ug/l	97
44) Trichloroethene	9.347	130	114187	51.871	ug/l	98
45) 1,2-Dichloropropane	9.618	63	122477	54.699	ug/l	100
46) Dibromomethane	9.706	93	83421	52.798	ug/l	96
47) Bromodichloromethane	9.882	83	179953	54.032	ug/l #	97
48) Methyl methacrylate	9.677	41	110608	52.702	ug/l	94
49) 1,4-Dioxane	9.694	88	37477	1007.687	ug/l #	79
51) 4-Methyl-2-Pentanone	10.441	43	681760	265.200	ug/l	98
52) Toluene	10.624	92	309874	55.508	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	179801	52.155	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	196989	53.988	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	111405	52.978	ug/l	96
56) Ethyl methacrylate	10.871	69	177050	58.208	ug/l	93
57) 1,3-Dichloropropane	11.159	76	194987	54.028	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	379841	266.872	ug/l	96
59) 2-Hexanone	11.194	43	519264	277.503	ug/l	98
60) Dibromochloromethane	11.359	129	132584	55.321	ug/l	99
61) 1,2-Dibromoethane	11.465	107	112189	52.099	ug/l	99
64) Tetrachloroethene	11.100	164	99428	54.755	ug/l	96
65) Chlorobenzene	11.888	112	322156	52.749	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	118016	55.554	ug/l	98
67) Ethyl Benzene	11.959	91	585138	57.397	ug/l	99
68) m/p-Xylenes	12.065	106	442292	114.597	ug/l	99
69) o-Xylene	12.394	106	213178	59.044	ug/l	99
70) Styrene	12.406	104	361633	57.418	ug/l	99
71) Bromoform	12.576	173	88615	55.436	ug/l #	98
73) Isopropylbenzene	12.694	105	544764	56.479	ug/l	100
74) N-ethyl acetate	12.494	43	212669	51.804	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	157563	48.940	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	144130m	52.385	ug/l	
77) Bromobenzene	12.976	156	132037	50.921	ug/l	94
78) n-propylbenzene	13.029	91	633301	56.031	ug/l	98
79) 2-Chlorotoluene	13.123	91	400677	54.253	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	471775	59.014	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	56362m	48.599	ug/l	
82) 4-Chlorotoluene	13.218	91	406733	52.331	ug/l	99
83) tert-Butylbenzene	13.435	119	398057	60.164	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	485480	58.840	ug/l	97
85) sec-Butylbenzene	13.612	105	545871	58.408	ug/l	99
86) p-Isopropyltoluene	13.723	119	463441	60.464	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	246451	48.702	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	242929	52.440	ug/l	99
89) n-Butylbenzene	14.053	91	387742	54.080	ug/l	99
90) Hexachloroethane	14.329	117	85239	49.868	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	235611	48.453	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29454	45.159	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	121209	45.540	ug/l	100
94) Hexachlorobutadiene	15.494	225	55113	47.152	ug/l	98
95) Naphthalene	15.635	128	371116	46.584	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	119258	46.158	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084842.D
Acq On : 14 Nov 2024 09:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:41:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

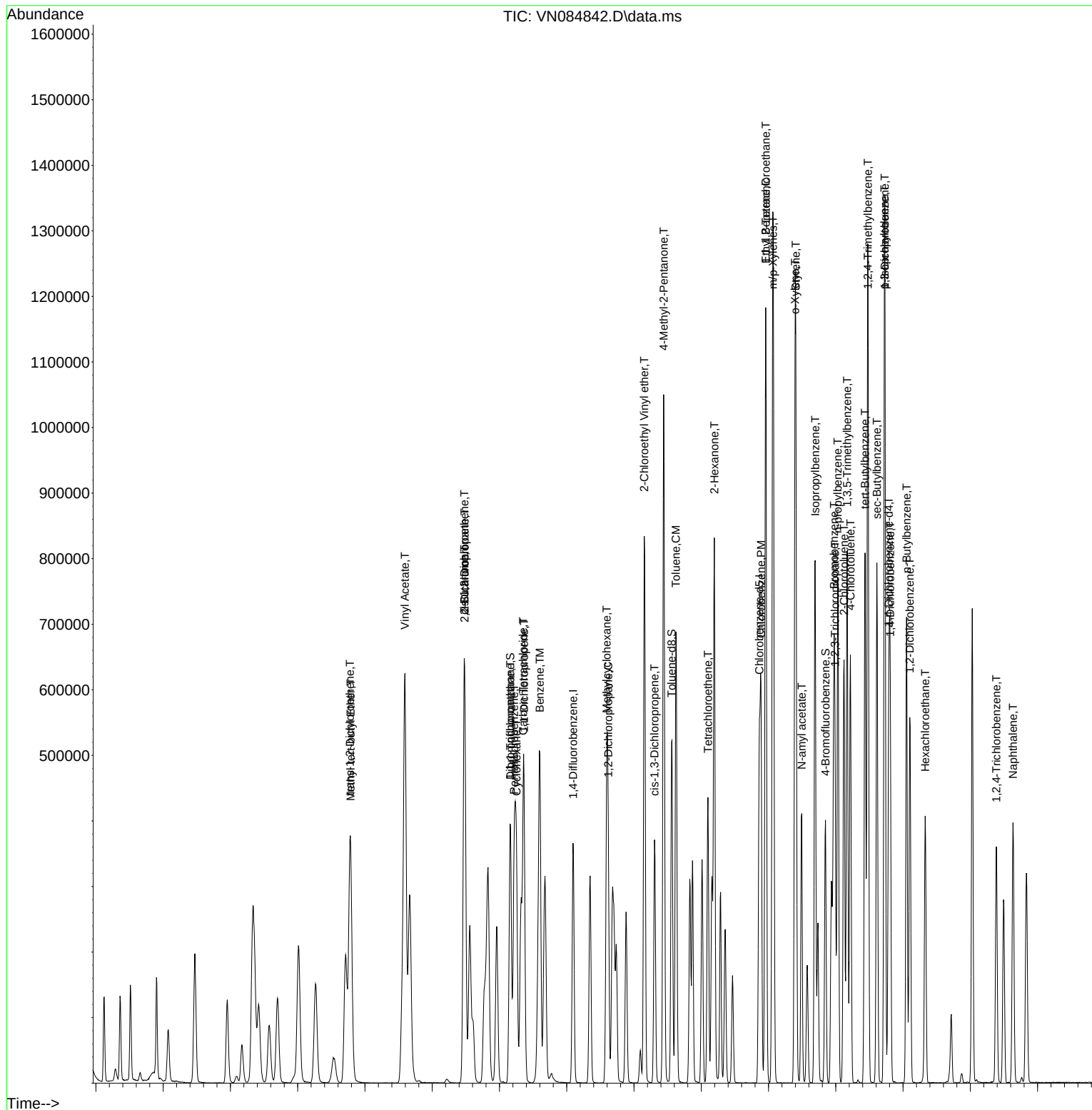
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\  
Data File : VN084842.D  
Acq On    : 14 Nov 2024   09:54  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3    Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:41:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 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	0.575	0.573	0.3	107	0.00
3 P	Chloromethane	0.952	0.649	31.8#	100	0.00
4 C	Vinyl Chloride	0.618	0.704	-13.9#	120	0.00
5 T	Bromomethane	0.328	0.344	-4.9	120	-0.05
6 T	Chloroethane	0.488	0.457	6.4	125	-0.04
7 T	Trichlorofluoromethane	1.018	1.101	-8.2	118	-0.02
8 T	Diethyl Ether	0.359	0.380	-5.8	111	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.575	0.605	-5.2	112	-0.01
10 T	Methyl Iodide	0.769	0.846	-10.0	118	-0.02
11 T	Tert butyl alcohol	0.095	0.088	7.4	105	0.00
12 CM	1,1-Dichloroethene	0.569	0.578	-1.6#	111	-0.02
13 T	Acrolein	0.095	0.077	18.9	90	0.00
14 T	Allyl chloride	0.923	0.931	-0.9	105	-0.01
15 T	Acrylonitrile	0.276	0.272	1.4	103	0.00
16 T	Acetone	0.238	0.224	5.9	114	0.00
17 T	Carbon Disulfide	1.753	1.595	9.0	103	-0.01
18 T	Methyl Acetate	1.172	0.687	41.4#	94	0.00
19 T	Methyl tert-butyl Ether	1.745	1.942	-11.3	114	0.00
20 T	Methylene Chloride	0.635	0.652	-2.7	112	-0.01
21 T	trans-1,2-Dichloroethene	0.585	0.598	-2.2	109	-0.01
22 T	Diisopropyl ether	1.835	1.932	-5.3	107	0.00
23 T	Vinyl Acetate	1.265	1.347	-6.5	107	0.00
24 P	1,1-Dichloroethane	1.102	1.128	-2.4	109	-0.01
25 T	2-Butanone	0.337	0.338	-0.3	110	0.00
26 T	2,2-Dichloropropane	0.959	1.069	-11.5	117	0.00
27 T	cis-1,2-Dichloroethene	0.683	0.720	-5.4	112	-0.01
28 T	Bromochloromethane	0.439	0.442	-0.7	89	0.00
29 T	Tetrahydrofuran	0.224	0.223	0.4	104	0.00
30 C	Chloroform	1.121	1.197	-6.8#	114	0.00
31 T	Cyclohexane	0.997	0.993	0.4	109	0.00
32 T	1,1,1-Trichloroethane	1.021	1.100	-7.7	114	-0.01
33 S	1,2-Dichloroethane-d4	0.722	0.657	9.0	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.338	0.320	5.3	95	0.00
36 T	1,1-Dichloropropene	0.469	0.506	-7.9	114	0.00
37 T	Ethyl Acetate	0.426	0.437	-2.6	105	0.00
38 T	Carbon Tetrachloride	0.525	0.586	-11.6	116	0.00
39 T	Methylcyclohexane	0.478	0.569	-19.0	114	0.00
40 TM	Benzene	1.507	1.597	-6.0	112	0.00
41 T	Methacrylonitrile	0.229	0.246	-7.4	102	0.00
42 TM	1,2-Dichloroethane	0.488	0.528	-8.2	109	0.00
43 T	Isopropyl Acetate	0.927	0.774	16.5	104	0.00
44 TM	Trichloroethene	0.348	0.361	-3.7	109	0.00
45 C	1,2-Dichloropropane	0.354	0.387	-9.3#	113	0.00
46 T	Dibromomethane	0.250	0.263	-5.2	110	0.00
47 T	Bromodichloromethane	0.526	0.568	-8.0	111	0.00
48 T	Methyl methacrylate	0.331	0.349	-5.4	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 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	0.006	0.006	0.0	99	0.00
50 S	Toluene-d8	1.247	1.188	4.7	93	0.00
51 T	4-Methyl-2-Pentanone	0.406	0.431	-6.2	104	0.00
52 CM	Toluene	0.882	0.979	-11.0#	111	0.00
53 T	t-1,3-Dichloropropene	0.544	0.568	-4.4	106	0.00
54 T	cis-1,3-Dichloropropene	0.576	0.622	-8.0	109	0.00
55 T	1,1,2-Trichloroethane	0.332	0.352	-6.0	109	0.00
56 T	Ethyl methacrylate	0.480	0.559	-16.5	105	0.00
57 T	1,3-Dichloropropane	0.570	0.616	-8.1	111	0.00
58 T	2-Chloroethyl Vinyl ether	0.225	0.240	-6.7	93	0.00
59 T	2-Hexanone	0.296	0.328	-10.8	107	0.00
60 T	Dibromochloromethane	0.378	0.419	-10.8	108	0.00
61 T	1,2-Dibromoethane	0.340	0.354	-4.1	108	0.00
62 S	4-Bromofluorobenzene	0.466	0.459	1.5	95	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.333	0.364	-9.3	114	0.00
65 PM	Chlorobenzene	1.119	1.180	-5.5	109	0.00
66 T	1,1,1,2-Tetrachloroethane	0.389	0.432	-11.1	113	0.00
67 C	Ethyl Benzene	1.867	2.143	-14.8#	111	0.00
68 T	m/p-Xylenes	0.707	0.810	-14.6	109	0.00
69 T	o-Xylene	0.661	0.781	-18.2	111	0.00
70 T	Styrene	1.154	1.325	-14.8	107	0.00
71 P	Bromoform	0.293	0.325	-10.9	108	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.504	3.958	-13.0	110	0.00
74 T	N-amyl acetate	1.491	1.545	-3.6	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.170	1.145	2.1	106	0.00
76 T	1,2,3-Trichloropropane	0.999	1.047	-4.8	118	0.00
77 T	Bromobenzene	0.942	0.959	-1.8	108	0.00
78 T	n-propylbenzene	4.106	4.601	-12.1	108	0.00
79 T	2-Chlorotoluene	2.683	2.911	-8.5	111	0.00
80 T	1,3,5-Trimethylbenzene	2.904	3.428	-18.0	111	0.00
81 T	trans-1,4-Dichloro-2-butene	0.421	0.409	2.9	102	0.00
82 T	4-Chlorotoluene	2.823	2.955	-4.7	108	0.00
83 T	tert-Butylbenzene	2.403	2.892	-20.3	114	0.00
84 T	1,2,4-Trimethylbenzene	2.997	3.527	-17.7	111	0.00
85 T	sec-Butylbenzene	3.395	3.966	-16.8	112	0.00
86 T	p-Isopropyltoluene	2.784	3.367	-20.9	110	0.00
87 T	1,3-Dichlorobenzene	1.838	1.791	2.6	107	0.00
88 T	1,4-Dichlorobenzene	1.937	1.765	8.9	105	0.00
89 T	n-Butylbenzene	2.605	2.817	-8.1	107	0.00
90 T	Hexachloroethane	0.621	0.619	0.3	105	0.00
91 T	1,2-Dichlorobenzene	1.766	1.712	3.1	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.214	9.7	98	0.00
93 T	1,2,4-Trichlorobenzene	0.967	0.881	8.9	101	0.00
94 T	Hexachlorobutadiene	0.425	0.400	5.9	108	0.00
95 T	Naphthalene	2.894	2.696	6.8	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084842.D
Acq On : 14 Nov 2024 09:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	0.939	0.866	7.8	103	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 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	49.806	0.4	107	0.00
3 P	Chloromethane	50.000	48.024	4.0	100	0.00
4 C	Vinyl Chloride	50.000	56.924	-13.8#	120	0.00
5 T	Bromomethane	50.000	52.453	-4.9	120	-0.05
6 T	Chloroethane	50.000	59.946	-19.9	125	-0.04
7 T	Trichlorofluoromethane	50.000	54.042	-8.1	118	-0.02
8 T	Diethyl Ether	50.000	52.917	-5.8	111	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.556	-5.1	112	-0.01
10 T	Methyl Iodide	50.000	54.979	-10.0	118	-0.02
11 T	Tert butyl alcohol	250.000	230.274	7.9	105	0.00
12 CM	1,1-Dichloroethene	50.000	50.791	-1.6#	111	-0.02
13 T	Acrolein	250.000	202.388	19.0	90	0.00
14 T	Allyl chloride	50.000	50.428	-0.9	105	-0.01
15 T	Acrylonitrile	250.000	246.415	1.4	103	0.00
16 T	Acetone	250.000	269.221	-7.7	114	0.00
17 T	Carbon Disulfide	50.000	45.487	9.0	103	-0.01
18 T	Methyl Acetate	50.000	44.640	10.7	94	0.00
19 T	Methyl tert-butyl Ether	50.000	55.629	-11.3	114	0.00
20 T	Methylene Chloride	50.000	51.329	-2.7	112	-0.01
21 T	trans-1,2-Dichloroethene	50.000	51.163	-2.3	109	-0.01
22 T	Diisopropyl ether	50.000	52.644	-5.3	107	0.00
23 T	Vinyl Acetate	250.000	266.151	-6.5	107	0.00
24 P	1,1-Dichloroethane	50.000	51.181	-2.4	109	-0.01
25 T	2-Butanone	250.000	251.070	-0.4	110	0.00
26 T	2,2-Dichloropropane	50.000	55.757	-11.5	117	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.724	-5.4	112	-0.01
28 T	Bromochloromethane	50.000	50.314	-0.6	89	0.00
29 T	Tetrahydrofuran	250.000	249.519	0.2	104	0.00
30 C	Chloroform	50.000	53.365	-6.7#	114	0.00
31 T	Cyclohexane	50.000	49.777	0.4	109	0.00
32 T	1,1,1-Trichloroethane	50.000	53.913	-7.8	114	-0.01
33 S	1,2-Dichloroethane-d4	50.000	45.474	9.1	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	47.299	5.4	95	0.00
36 T	1,1-Dichloropropene	50.000	53.889	-7.8	114	0.00
37 T	Ethyl Acetate	50.000	51.261	-2.5	105	0.00
38 T	Carbon Tetrachloride	50.000	55.822	-11.6	116	0.00
39 T	Methylcyclohexane	50.000	59.530	-19.1	114	0.00
40 TM	Benzene	50.000	52.959	-5.9	112	0.00
41 T	Methacrylonitrile	50.000	53.758	-7.5	102	0.00
42 TM	1,2-Dichloroethane	50.000	54.101	-8.2	109	0.00
43 T	Isopropyl Acetate	50.000	49.202	1.6	104	0.00
44 TM	Trichloroethene	50.000	51.871	-3.7	109	0.00
45 C	1,2-Dichloropropane	50.000	54.699	-9.4#	113	0.00
46 T	Dibromomethane	50.000	52.798	-5.6	110	0.00
47 T	Bromodichloromethane	50.000	54.032	-8.1	111	0.00
48 T	Methyl methacrylate	50.000	52.702	-5.4	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084842.D
 Acq On : 14 Nov 2024 09:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 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	1007.687	-0.8	99	0.00
50 S	Toluene-d8	50.000	47.644	4.7	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	265.200	-6.1	104	0.00
52 CM	Toluene	50.000	55.508	-11.0#	111	0.00
53 T	t-1,3-Dichloropropene	50.000	52.155	-4.3	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.988	-8.0	109	0.00
55 T	1,1,2-Trichloroethane	50.000	52.978	-6.0	109	0.00
56 T	Ethyl methacrylate	50.000	58.208	-16.4	105	0.00
57 T	1,3-Dichloropropane	50.000	54.028	-8.1	111	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	266.872	-6.7	93	0.00
59 T	2-Hexanone	250.000	277.503	-11.0	107	0.00
60 T	Dibromochloromethane	50.000	55.321	-10.6	108	0.00
61 T	1,2-Dibromoethane	50.000	52.099	-4.2	108	0.00
62 S	4-Bromofluorobenzene	50.000	49.283	1.4	95	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	54.755	-9.5	114	0.00
65 PM	Chlorobenzene	50.000	52.749	-5.5	109	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.554	-11.1	113	0.00
67 C	Ethyl Benzene	50.000	57.397	-14.8#	111	0.00
68 T	m/p-Xylenes	100.000	114.597	-14.6	109	0.00
69 T	o-Xylene	50.000	59.044	-18.1	111	0.00
70 T	Styrene	50.000	57.418	-14.8	107	0.00
71 P	Bromoform	50.000	55.436	-10.9	108	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	56.479	-13.0	110	0.00
74 T	N-amyl acetate	50.000	51.804	-3.6	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.940	2.1	106	0.00
76 T	1,2,3-Trichloropropane	50.000	52.385	-4.8	118	0.00
77 T	Bromobenzene	50.000	50.921	-1.8	108	0.00
78 T	n-propylbenzene	50.000	56.031	-12.1	108	0.00
79 T	2-Chlorotoluene	50.000	54.253	-8.5	111	0.00
80 T	1,3,5-Trimethylbenzene	50.000	59.014	-18.0	111	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.599	2.8	102	0.00
82 T	4-Chlorotoluene	50.000	52.331	-4.7	108	0.00
83 T	tert-Butylbenzene	50.000	60.164	-20.3	114	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.840	-17.7	111	0.00
85 T	sec-Butylbenzene	50.000	58.408	-16.8	112	0.00
86 T	p-Isopropyltoluene	50.000	60.464	-20.9	110	0.00
87 T	1,3-Dichlorobenzene	50.000	48.702	2.6	107	0.00
88 T	1,4-Dichlorobenzene	50.000	52.440	-4.9	105	0.00
89 T	n-Butylbenzene	50.000	54.080	-8.2	107	0.00
90 T	Hexachloroethane	50.000	49.868	0.3	105	0.00
91 T	1,2-Dichlorobenzene	50.000	48.453	3.1	105	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.159	9.7	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.540	8.9	101	0.00
94 T	Hexachlorobutadiene	50.000	47.152	5.7	108	0.00
95 T	Naphthalene	50.000	46.584	6.8	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084842.D
Acq On : 14 Nov 2024 09:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 15 00:41:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 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	46.158	7.7	103	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.412		-11.02	20
Chloromethane	0.767	0.758	0.1	-1.17	20
Vinyl Chloride	0.823	0.902		9.6	20
Bromomethane	0.546	0.575		5.31	20
Chloroethane	0.531	0.600		12.99	20
Trichlorofluoromethane	1.005	1.166		16.02	20
1,1,2-Trichlorotrifluoroethane	0.564	0.638		13.12	20
1,1-Dichloroethene	0.540	0.596		10.37	20
Acetone	0.145	0.177		22.07	20
Carbon Disulfide	1.796	1.901		5.85	20
Methyl tert-butyl Ether	1.357	1.510		11.27	20
Methyl Acetate	0.340	0.345		1.47	20
Methylene Chloride	0.652	0.630		-3.37	20
trans-1,2-Dichloroethene	0.609	0.682		11.99	20
1,1-Dichloroethane	1.170	1.333	0.1	13.93	20
Cyclohexane	1.132	1.185		4.68	20
2-Butanone	0.197	0.214		8.63	20
Carbon Tetrachloride	0.494	0.582		17.81	20
cis-1,2-Dichloroethene	0.700	0.800		14.29	20
Bromochloromethane	0.548	0.552		0.73	20
Chloroform	1.161	1.349		16.19	20
1,1,1-Trichloroethane	1.013	1.203		18.76	20
Methylcyclohexane	0.623	0.708		13.64	20
Benzene	1.433	1.608		12.21	20
1,2-Dichloroethane	0.397	0.432		8.82	20
Trichloroethene	0.332	0.376		13.25	20
1,2-Dichloropropane	0.343	0.385		12.24	20
Bromodichloromethane	0.487	0.557		14.37	20
4-Methyl-2-Pentanone	0.232	0.242		4.31	20
Toluene	0.884	1.030		16.52	20
t-1,3-Dichloropropene	0.430	0.481		11.86	20
cis-1,3-Dichloropropene	0.513	0.573		11.7	20
1,1,2-Trichloroethane	0.231	0.255		10.39	20
2-Hexanone	0.166	0.179		7.83	20
Dibromochloromethane	0.295	0.334		13.22	20
1,2-Dibromoethane	0.215	0.231		7.44	20
Tetrachloroethene	0.330	0.386		16.97	20
Chlorobenzene	1.065	1.227	0.3	15.21	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.350		17.97	20
m/p-Xylenes	0.729	0.859		17.83	20
o-Xylene	0.690	0.808		17.1	20
Styrene	1.141	1.371		20.16	20
Bromoform	0.175	0.201	0.1	14.86	20
Isopropylbenzene	3.994	4.721		18.2	20
1,1,2,2-Tetrachloroethane	0.699	0.726	0.3	3.86	20
1,3-Dichlorobenzene	1.641	1.877		14.38	20
1,4-Dichlorobenzene	1.634	1.830		11.99	20
1,2-Dichlorobenzene	1.426	1.635		14.66	20
1,2-Dibromo-3-Chloropropane	0.106	0.107		0.94	20
1,2,4-Trichlorobenzene	0.766	0.872		13.84	20
1,2,3-Trichlorobenzene	0.650	0.716		10.15	20
1,2-Dichloroethane-d4	0.624	0.603		-3.37	20
Dibromofluoromethane	0.318	0.309		-2.83	20
Toluene-d8	1.265	1.242		-1.82	20
4-Bromofluorobenzene	0.411	0.414		0.73	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\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
 Supervised By :Semsettin Yesilyurt 11/11/2024

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	282936	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	514187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	441792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	208354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	170730	48.349	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.700%		
35) Dibromofluoromethane	7.634	113	158906	48.607	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.220%		
50) Toluene-d8	10.109	98	638676	49.080	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.160%		
62) 4-Bromofluorobenzene	12.408	95	212924	50.375	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	100.760%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.867	85	116471	44.470	ug/l	98
3) Chloromethane	2.074	50	214336	49.406	ug/l	100
4) Vinyl Chloride	2.208	62	255160	54.787	ug/l	98
5) Bromomethane	2.605	94	162705	52.620	ug/l	100
6) Chloroethane	2.739	64	169854	56.511	ug/l	100
7) Trichlorofluoromethane	3.062	101	329903	57.985	ug/l	99
8) Diethyl Ether	3.458	74	86447	54.478	ug/l	79
9) 1,1,2-Trichlorotrifluo...	3.824	101	180374	56.524	ug/l	91
10) Methyl Iodide	4.013	142	183569	59.582	ug/l #	89
11) Tert butyl alcohol	4.866	59	50365	198.285	ug/l #	80
12) 1,1-Dichloroethene	3.800	96	168614	55.225	ug/l #	83
13) Acrolein	3.659	56	48835	154.447	ug/l	96
14) Allyl chloride	4.391	41	307789	55.874	ug/l #	88
15) Acrylonitrile	5.068	53	188399	260.823	ug/l	98
16) Acetone	3.873	43	249780	304.163	ug/l #	83
17) Carbon Disulfide	4.110	76	537751	52.924	ug/l	99
18) Methyl Acetate	4.391	43	97476	50.590	ug/l	89
19) Methyl tert-butyl Ether	5.122	73	427110	55.604	ug/l	96
20) Methylene Chloride	4.623	84	178286	48.329	ug/l #	81
21) trans-1,2-Dichloroethene	5.116	96	192870	56.012	ug/l	86
22) Diisopropyl ether	6.025	45	647348	56.629	ug/l #	91
23) Vinyl Acetate	5.964	43	1765733	274.470	ug/l #	92
24) 1,1-Dichloroethane	5.921	63	377275	56.997	ug/l	95
25) 2-Butanone	6.897	43	303075	272.262	ug/l #	84
26) 2,2-Dichloropropane	6.890	77	324975	59.007	ug/l	95
27) cis-1,2-Dichloroethene	6.897	96	226405	57.198	ug/l	83
28) Bromochloromethane	7.250	49	156176	50.388	ug/l #	72
29) Tetrahydrofuran	7.268	42	162798	253.415	ug/l #	83
30) Chloroform	7.427	83	381684	58.109	ug/l	100
31) Cyclohexane	7.707	56	335257	52.317	ug/l	90
32) 1,1,1-Trichloroethane	7.622	97	340279	59.337	ug/l	94
36) 1,1-Dichloropropene	7.841	75	283342	56.106	ug/l	95
37) Ethyl Acetate	6.988	43	115117	47.811	ug/l	96
38) Carbon Tetrachloride	7.823	117	299317	58.940	ug/l	100
39) Methylcyclohexane	9.110	83	363997	56.790	ug/l #	87
40) Benzene	8.085	78	826704	56.084	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
 Supervised By :Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	62552	51.862	ug/l	88
42) 1,2-Dichloroethane	8.165	62	222099	54.434	ug/l	94
43) Isopropyl Acetate	8.201	43	235938	50.958	ug/l #	90
44) Trichloroethene	8.872	130	193232	56.560	ug/l	92
45) 1,2-Dichloropropane	9.146	63	197811	56.090	ug/l	98
46) Dibromomethane	9.232	93	103267	54.040	ug/l #	88
47) Bromodichloromethane	9.427	83	286338	57.198	ug/l	98
48) Methyl methacrylate	9.225	41	112574	52.492	ug/l	83
49) 1,4-Dioxane	9.232	88	19760	1004.377	ug/l #	89
51) 4-Methyl-2-Pentanone	10.000	43	623100	261.182	ug/l	89
52) Toluene	10.176	92	529578	58.283	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	247078	55.892	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	294424	55.800	ug/l #	82
55) 1,1,2-Trichloroethane	10.573	97	131342	55.280	ug/l	93
56) Ethyl methacrylate	10.439	69	187637	55.055	ug/l #	75
57) 1,3-Dichloropropane	10.719	76	234009	53.782	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	417275	248.258	ug/l	95
59) 2-Hexanone	10.762	43	460134	269.027	ug/l	88
60) Dibromochloromethane	10.914	129	171955	56.776	ug/l	99
61) 1,2-Dibromoethane	11.018	107	118958	53.890	ug/l	98
64) Tetrachloroethene	10.646	164	170641	58.499	ug/l	92
65) Chlorobenzene	11.445	112	542227	57.601	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	176613	58.723	ug/l	99
67) Ethyl Benzene	11.524	91	1038130	58.995	ug/l	99
68) m/p-Xylenes	11.634	106	759082	117.904	ug/l	92
69) o-Xylene	11.957	106	356915	58.555	ug/l	91
70) Styrene	11.975	104	605480	60.078	ug/l	96
71) Bromoform	12.133	173	88914	57.627	ug/l #	97
73) Isopropylbenzene	12.255	105	983635	59.097	ug/l	98
74) N-ethyl acetate	12.072	43	222149	53.393	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.511	83	151184	51.937	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	97158m	49.746	ug/l	
77) Bromobenzene	12.536	156	189041	56.159	ug/l	84
78) n-propylbenzene	12.597	91	1218810	58.837	ug/l	97
79) 2-Chlorotoluene	12.682	91	670186	58.284	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	793961	59.417	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.310	75	49218	54.204	ug/l #	84
82) 4-Chlorotoluene	12.780	91	681965	58.168	ug/l	95
83) tert-Butylbenzene	12.999	119	698165	59.751	ug/l	93
84) 1,2,4-Trimethylbenzene	13.048	105	788302	59.560	ug/l	96
85) sec-Butylbenzene	13.176	105	1067550	59.513	ug/l	98
86) p-Isopropyltoluene	13.298	119	862934	59.949	ug/l	95
87) 1,3-Dichlorobenzene	13.292	146	390996	57.177	ug/l	97
88) 1,4-Dichlorobenzene	13.371	146	381333	55.996	ug/l	96
89) n-Butylbenzene	13.621	91	874275	60.589	ug/l	97
90) Hexachloroethane	13.883	117	168884	59.325	ug/l	84
91) 1,2-Dichlorobenzene	13.664	146	340686	57.316	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	22359	50.648	ug/l	75
93) 1,2,4-Trichlorobenzene	14.926	180	181764	56.924	ug/l	97
94) Hexachlorobutadiene	15.029	225	104158	59.654	ug/l	98
95) Naphthalene	15.151	128	335392	56.191	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	149150	55.027	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020221.D
Acq On : 08 Nov 2024 09:33
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:13:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

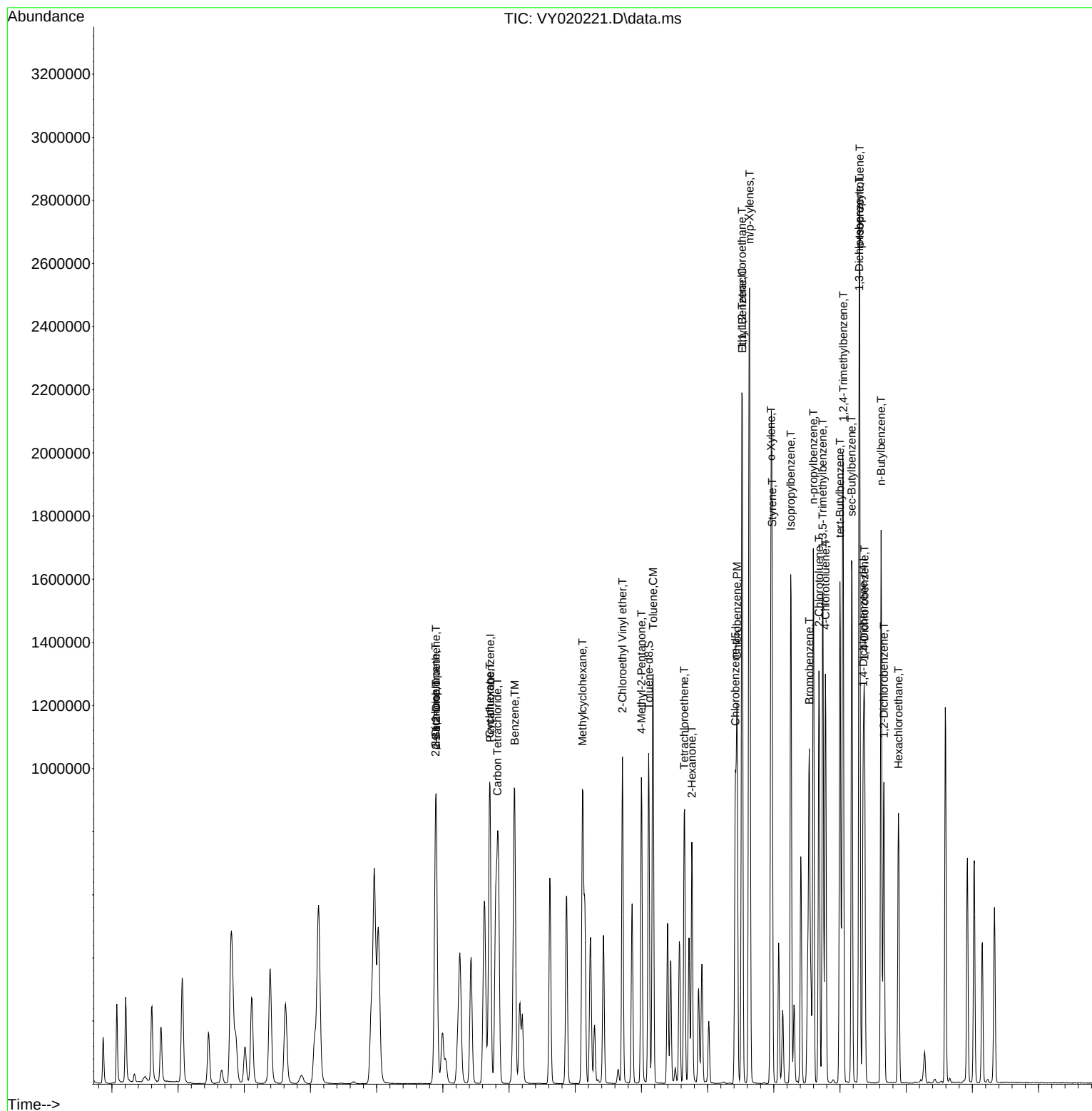
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	112	0.00
2 T	Dichlorodifluoromethane	0.463	0.412	11.0	121	0.00
3 P	Chloromethane	0.767	0.758	1.2	124	0.00
4 C	Vinyl Chloride	0.823	0.902	-9.6#	134	0.00
5 T	Bromomethane	0.546	0.575	-5.3	134	0.00
6 T	Chloroethane	0.531	0.600	-13.0	138	0.00
7 T	Trichlorofluoromethane	1.005	1.166	-16.0	141	0.00
8 T	Diethyl Ether	0.280	0.306	-9.3	136	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.564	0.638	-13.1	140	0.01
10 T	Methyl Iodide	0.544	0.649	-19.3	140	0.00
11 T	Tert butyl alcohol	0.045	0.036	20.0	121	0.00
12 CM	1,1-Dichloroethene	0.540	0.596	-10.4#	135	0.01
13 T	Acrolein	0.056	0.035	37.5#	78	0.00
14 T	Allyl chloride	0.973	1.088	-11.8	133	0.00
15 T	Acrylonitrile	0.128	0.133	-3.9	127	0.01
16 T	Acetone	0.145	0.177	-22.1	141	0.00
17 T	Carbon Disulfide	1.796	1.901	-5.8	127	0.00
18 T	Methyl Acetate	0.340	0.345	-1.5	121	0.00
19 T	Methyl tert-butyl Ether	1.357	1.510	-11.3	136	0.00
20 T	Methylene Chloride	0.652	0.630	3.4	127	0.00
21 T	trans-1,2-Dichloroethene	0.609	0.682	-12.0	135	0.00
22 T	Diisopropyl ether	2.020	2.288	-13.3	135	0.00
23 T	Vinyl Acetate	1.137	1.248	-9.8	132	0.00
24 P	1,1-Dichloroethane	1.170	1.333	-13.9	139	0.00
25 T	2-Butanone	0.197	0.214	-8.6	134	0.00
26 T	2,2-Dichloropropane	0.973	1.149	-18.1	146	0.00
27 T	cis-1,2-Dichloroethene	0.700	0.800	-14.3	138	0.00
28 T	Bromochloromethane	0.548	0.552	-0.7	122	0.00
29 T	Tetrahydrofuran	0.114	0.115	-0.9	124	0.00
30 C	Chloroform	1.161	1.349	-16.2#	141	0.00
31 T	Cyclohexane	1.132	1.185	-4.7	134	0.00
32 T	1,1,1-Trichloroethane	1.013	1.203	-18.8	141	0.00
33 S	1,2-Dichloroethane-d4	0.624	0.603	3.4	115	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	115	0.00
35 S	Dibromofluoromethane	0.318	0.309	2.8	116	0.00
36 T	1,1-Dichloropropene	0.491	0.551	-12.2	140	0.00
37 T	Ethyl Acetate	0.234	0.224	4.3	122	0.00
38 T	Carbon Tetrachloride	0.494	0.582	-17.8	144	0.00
39 T	Methylcyclohexane	0.623	0.708	-13.6	140	0.00
40 TM	Benzene	1.433	1.608	-12.2	139	0.00
41 T	Methacrylonitrile	0.117	0.122	-4.3	117	0.00
42 TM	1,2-Dichloroethane	0.397	0.432	-8.8	136	0.00
43 T	Isopropyl Acetate	0.450	0.459	-2.0	128	0.00
44 TM	Trichloroethene	0.332	0.376	-13.3	140	0.00
45 C	1,2-Dichloropropane	0.343	0.385	-12.2#	138	0.00
46 T	Dibromomethane	0.186	0.201	-8.1	134	0.00
47 T	Bromodichloromethane	0.487	0.557	-14.4	141	0.00
48 T	Methyl methacrylate	0.209	0.219	-4.8	127	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	0.002	0.002	0.0	126	0.00
50 S	Toluene-d8	1.265	1.242	1.8	116	0.00
51 T	4-Methyl-2-Pentanone	0.232	0.242	-4.3	127	0.00
52 CM	Toluene	0.884	1.030	-16.5#	142	0.00
53 T	t-1,3-Dichloropropene	0.430	0.481	-11.9	137	0.00
54 T	cis-1,3-Dichloropropene	0.513	0.573	-11.7	136	0.00
55 T	1,1,2-Trichloroethane	0.231	0.255	-10.4	136	0.00
56 T	Ethyl methacrylate	0.331	0.365	-10.3	133	0.00
57 T	1,3-Dichloropropane	0.423	0.455	-7.6	133	0.00
58 T	2-Chloroethyl Vinyl ether	0.163	0.162	0.6	116	0.00
59 T	2-Hexanone	0.166	0.179	-7.8	130	0.00
60 T	Dibromochloromethane	0.295	0.334	-13.2	141	0.00
61 T	1,2-Dibromoethane	0.215	0.231	-7.4	136	0.00
62 S	4-Bromofluorobenzene	0.411	0.414	-0.7	119	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00
64 T	Tetrachloroethene	0.330	0.386	-17.0	142	0.00
65 PM	Chlorobenzene	1.065	1.227	-15.2	140	0.00
66 T	1,1,1,2-Tetrachloroethane	0.340	0.400	-17.6	142	0.00
67 C	Ethyl Benzene	1.992	2.350	-18.0#	142	0.00
68 T	m/p-Xylenes	0.729	0.859	-17.8	140	0.00
69 T	o-Xylene	0.690	0.808	-17.1	141	0.00
70 T	Styrene	1.141	1.371	-20.2	142	0.00
71 P	Bromoform	0.175	0.201	-14.9	138	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
73 T	Isopropylbenzene	3.994	4.721	-18.2	142	0.00
74 T	N-amyl acetate	0.998	1.066	-6.8	129	0.00
75 P	1,1,2,2-Tetrachloroethane	0.699	0.726	-3.9	129	0.00
76 T	1,2,3-Trichloropropane	0.469	0.466	0.6	121	0.00
77 T	Bromobenzene	0.808	0.907	-12.3	136	0.00
78 T	n-propylbenzene	4.971	5.850	-17.7	142	0.00
79 T	2-Chlorotoluene	2.759	3.217	-16.6	142	0.00
80 T	1,3,5-Trimethylbenzene	3.207	3.811	-18.8	142	0.00
81 T	trans-1,4-Dichloro-2-butene	0.218	0.236	-8.3	133	0.00
82 T	4-Chlorotoluene	2.813	3.273	-16.4	139	0.00
83 T	tert-Butylbenzene	2.804	3.351	-19.5	140	0.00
84 T	1,2,4-Trimethylbenzene	3.176	3.783	-19.1	143	0.00
85 T	sec-Butylbenzene	4.305	5.124	-19.0	142	0.00
86 T	p-Isopropyltoluene	3.454	4.142	-19.9	142	0.00
87 T	1,3-Dichlorobenzene	1.641	1.877	-14.4	138	0.00
88 T	1,4-Dichlorobenzene	1.634	1.830	-12.0	137	0.00
89 T	n-Butylbenzene	3.463	4.196	-21.2	143	0.00
90 T	Hexachloroethane	0.683	0.811	-18.7	143	0.00
91 T	1,2-Dichlorobenzene	1.426	1.635	-14.7	139	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.106	0.107	-0.9	130	0.00
93 T	1,2,4-Trichlorobenzene	0.766	0.872	-13.8	140	0.00
94 T	Hexachlorobutadiene	0.419	0.500	-19.3	143	0.00
95 T	Naphthalene	1.432	1.610	-12.4	135	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020221.D
Acq On : 08 Nov 2024 09:33
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 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	0.650	0.716	-10.2	138	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	112	0.00
2 T	Dichlorodifluoromethane	50.000	44.470	11.1	121	0.00
3 P	Chloromethane	50.000	49.406	1.2	124	0.00
4 C	Vinyl Chloride	50.000	54.787	-9.6#	134	0.00
5 T	Bromomethane	50.000	52.620	-5.2	134	0.00
6 T	Chloroethane	50.000	56.511	-13.0	138	0.00
7 T	Trichlorofluoromethane	50.000	57.985	-16.0	141	0.00
8 T	Diethyl Ether	50.000	54.478	-9.0	136	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	56.524	-13.0	140	0.01
10 T	Methyl Iodide	50.000	59.582	-19.2	140	0.00
11 T	Tert butyl alcohol	250.000	198.285	20.7	121	0.00
12 CM	1,1-Dichloroethene	50.000	55.225	-10.5#	135	0.01
13 T	Acrolein	250.000	154.447	38.2#	78	0.00
14 T	Allyl chloride	50.000	55.874	-11.7	133	0.00
15 T	Acrylonitrile	250.000	260.823	-4.3	127	0.01
16 T	Acetone	250.000	304.163	-21.7	141	0.00
17 T	Carbon Disulfide	50.000	52.924	-5.8	127	0.00
18 T	Methyl Acetate	50.000	50.590	-1.2	121	0.00
19 T	Methyl tert-butyl Ether	50.000	55.604	-11.2	136	0.00
20 T	Methylene Chloride	50.000	48.329	3.3	127	0.00
21 T	trans-1,2-Dichloroethene	50.000	56.012	-12.0	135	0.00
22 T	Diisopropyl ether	50.000	56.629	-13.3	135	0.00
23 T	Vinyl Acetate	250.000	274.470	-9.8	132	0.00
24 P	1,1-Dichloroethane	50.000	56.997	-14.0	139	0.00
25 T	2-Butanone	250.000	272.262	-8.9	134	0.00
26 T	2,2-Dichloropropane	50.000	59.007	-18.0	146	0.00
27 T	cis-1,2-Dichloroethene	50.000	57.198	-14.4	138	0.00
28 T	Bromochloromethane	50.000	50.388	-0.8	122	0.00
29 T	Tetrahydrofuran	250.000	253.415	-1.4	124	0.00
30 C	Chloroform	50.000	58.109	-16.2#	141	0.00
31 T	Cyclohexane	50.000	52.317	-4.6	134	0.00
32 T	1,1,1-Trichloroethane	50.000	59.337	-18.7	141	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.349	3.3	115	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	115	0.00
35 S	Dibromofluoromethane	50.000	48.607	2.8	116	0.00
36 T	1,1-Dichloropropene	50.000	56.106	-12.2	140	0.00
37 T	Ethyl Acetate	50.000	47.811	4.4	122	0.00
38 T	Carbon Tetrachloride	50.000	58.940	-17.9	144	0.00
39 T	Methylcyclohexane	50.000	56.790	-13.6	140	0.00
40 TM	Benzene	50.000	56.084	-12.2	139	0.00
41 T	Methacrylonitrile	50.000	51.862	-3.7	117	0.00
42 TM	1,2-Dichloroethane	50.000	54.434	-8.9	136	0.00
43 T	Isopropyl Acetate	50.000	50.958	-1.9	128	0.00
44 TM	Trichloroethene	50.000	56.560	-13.1	140	0.00
45 C	1,2-Dichloropropane	50.000	56.090	-12.2#	138	0.00
46 T	Dibromomethane	50.000	54.040	-8.1	134	0.00
47 T	Bromodichloromethane	50.000	57.198	-14.4	141	0.00
48 T	Methyl methacrylate	50.000	52.492	-5.0	127	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020221.D
 Acq On : 08 Nov 2024 09:33
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 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	1004.377	-0.4	126	0.00
50 S	Toluene-d8	50.000	49.080	1.8	116	0.00
51 T	4-Methyl-2-Pentanone	250.000	261.182	-4.5	127	0.00
52 CM	Toluene	50.000	58.283	-16.6#	142	0.00
53 T	t-1,3-Dichloropropene	50.000	55.892	-11.8	137	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.800	-11.6	136	0.00
55 T	1,1,2-Trichloroethane	50.000	55.280	-10.6	136	0.00
56 T	Ethyl methacrylate	50.000	55.055	-10.1	133	0.00
57 T	1,3-Dichloropropane	50.000	53.782	-7.6	133	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	248.258	0.7	116	0.00
59 T	2-Hexanone	250.000	269.027	-7.6	130	0.00
60 T	Dibromochloromethane	50.000	56.776	-13.6	141	0.00
61 T	1,2-Dibromoethane	50.000	53.890	-7.8	136	0.00
62 S	4-Bromofluorobenzene	50.000	50.375	-0.8	119	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	113	0.00
64 T	Tetrachloroethene	50.000	58.499	-17.0	142	0.00
65 PM	Chlorobenzene	50.000	57.601	-15.2	140	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	58.723	-17.4	142	0.00
67 C	Ethyl Benzene	50.000	58.995	-18.0#	142	0.00
68 T	m/p-Xylenes	100.000	117.904	-17.9	140	0.00
69 T	o-Xylene	50.000	58.555	-17.1	141	0.00
70 T	Styrene	50.000	60.078	-20.2	142	0.00
71 P	Bromoform	50.000	57.627	-15.3	138	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	111	0.00
73 T	Isopropylbenzene	50.000	59.097	-18.2	142	0.00
74 T	N-amyl acetate	50.000	53.393	-6.8	129	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.937	-3.9	129	0.00
76 T	1,2,3-Trichloropropane	50.000	49.746	0.5	121	0.00
77 T	Bromobenzene	50.000	56.159	-12.3	136	0.00
78 T	n-propylbenzene	50.000	58.837	-17.7	142	0.00
79 T	2-Chlorotoluene	50.000	58.284	-16.6	142	0.00
80 T	1,3,5-Trimethylbenzene	50.000	59.417	-18.8	142	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	54.204	-8.4	133	0.00
82 T	4-Chlorotoluene	50.000	58.168	-16.3	139	0.00
83 T	tert-Butylbenzene	50.000	59.751	-19.5	140	0.00
84 T	1,2,4-Trimethylbenzene	50.000	59.560	-19.1	143	0.00
85 T	sec-Butylbenzene	50.000	59.513	-19.0	142	0.00
86 T	p-Isopropyltoluene	50.000	59.949	-19.9	142	0.00
87 T	1,3-Dichlorobenzene	50.000	57.177	-14.4	138	0.00
88 T	1,4-Dichlorobenzene	50.000	55.996	-12.0	137	0.00
89 T	n-Butylbenzene	50.000	60.589	-21.2	143	0.00
90 T	Hexachloroethane	50.000	59.325	-18.7	143	0.00
91 T	1,2-Dichlorobenzene	50.000	57.316	-14.6	139	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.648	-1.3	130	0.00
93 T	1,2,4-Trichlorobenzene	50.000	56.924	-13.8	140	0.00
94 T	Hexachlorobutadiene	50.000	59.654	-19.3	143	0.00
95 T	Naphthalene	50.000	56.191	-12.4	135	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020221.D
Acq On : 08 Nov 2024 09:33
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 08 22:13:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 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	55.027	-10.1	138	0.00

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



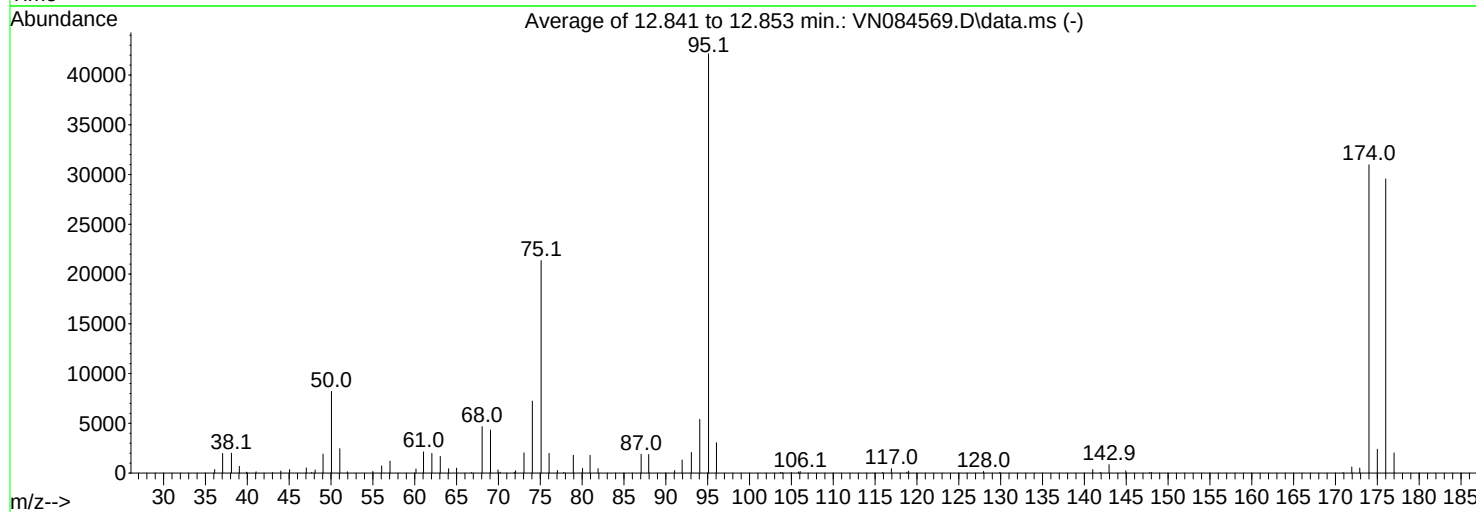
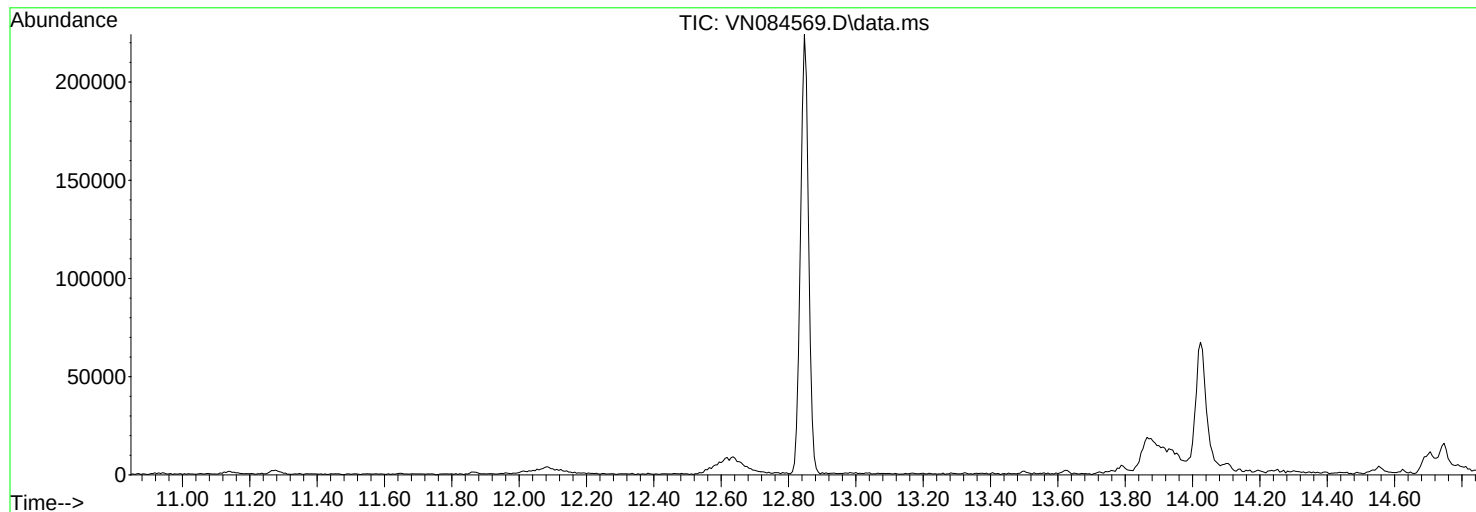
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
Data File : VN084569.D
Acq On : 30 Oct 2024 10:42
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8210	PASS
75	95	30	60	50.7	21357	PASS
95	95	100	100	100.0	42141	PASS
96	95	5	9	7.2	3053	PASS
173	174	0.00	2	1.6	502	PASS
174	95	50	100	73.5	30984	PASS
175	174	5	9	7.7	2392	PASS
176	174	95	101	95.4	29560	PASS
177	176	5	9	6.9	2026	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	359	48.10	321	63.05	1677	74.05	7235
37.05	1972	49.05	1905	64.05	441	75.10	21357
38.10	2004	50.05	8210	65.00	496	76.05	1981
39.05	674	51.05	2454	66.80	70	77.05	260
39.90	98	51.95	137	68.05	4674	77.80	63
41.05	129	55.00	174	69.05	4327	78.95	1789
43.00	58	56.05	724	69.95	329	80.05	481
44.00	211	57.05	1205	70.20	94	80.95	1784
45.05	351	60.15	415	71.90	82	81.90	450
47.05	515	61.05	2127	72.05	237	87.05	1893
47.70	66	62.05	1973	73.05	2035	87.95	1870

Average of 12.841 to 12.853 min.: VN084569.D\data.ms

BFB

Modified:subtracted

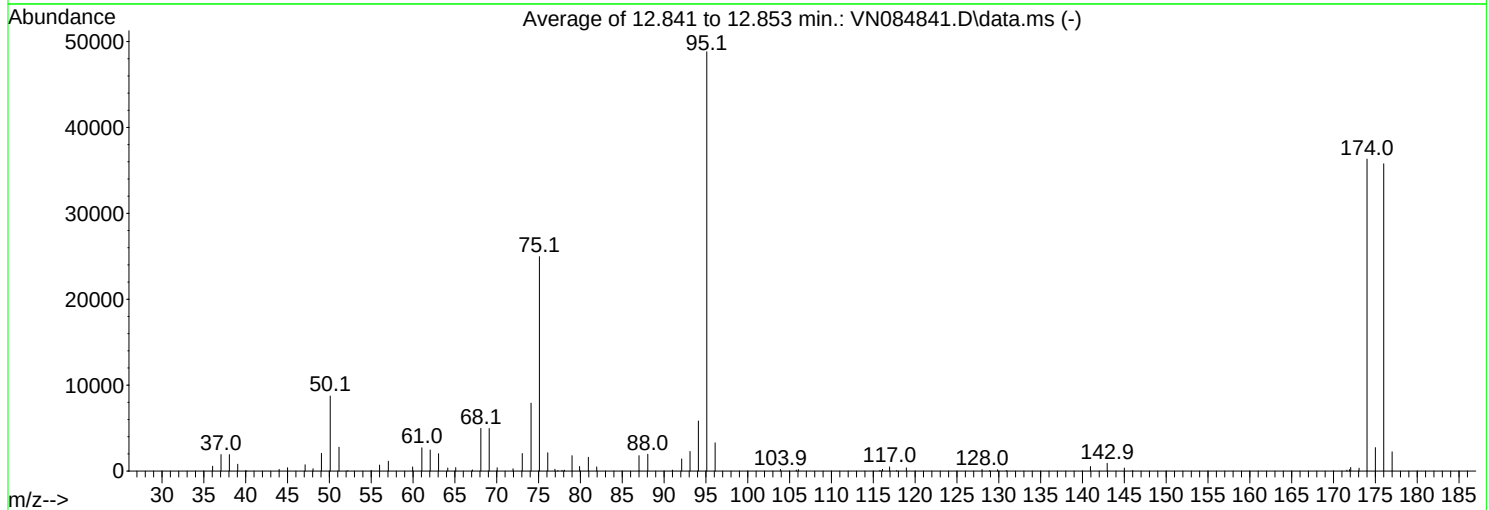
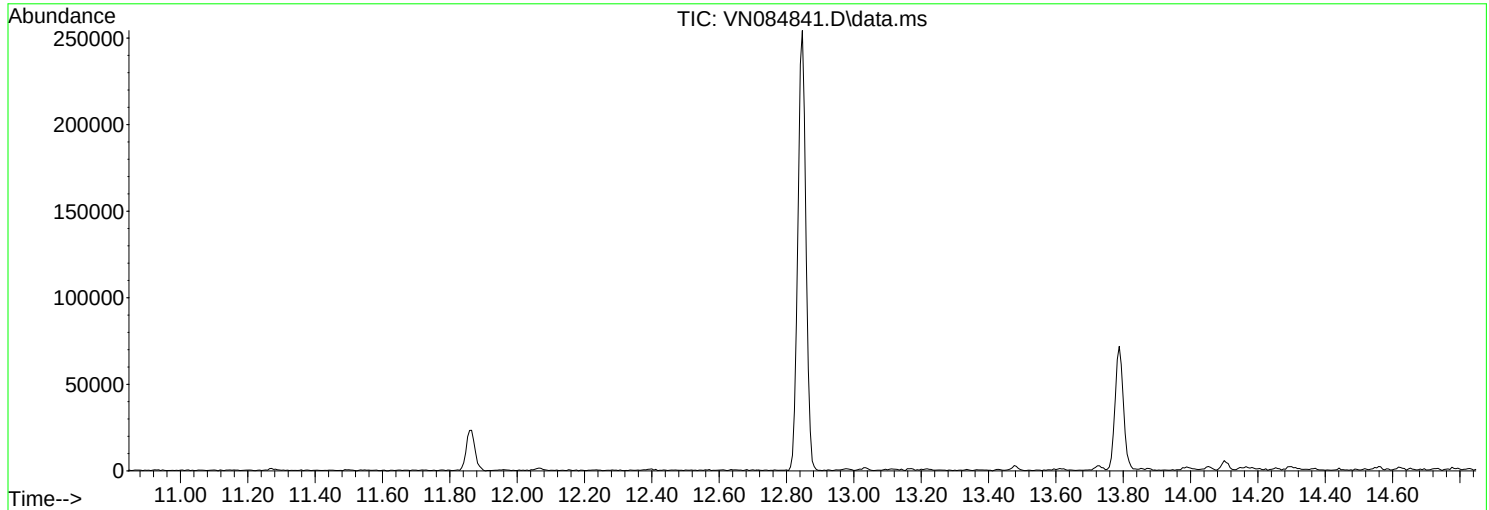
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	256	115.90	54	148.00	75		
91.95	1316	116.95	438	170.90	52		
93.05	2070	118.80	90	171.95	607		
94.05	5401	119.00	202	172.90	502		
95.10	42141	127.95	162	174.00	30984		
96.05	3053	129.90	69	175.00	2392		
103.70	65	141.00	358	176.00	29560		
103.90	65	141.90	66	177.00	2026		
105.00	53	142.95	857				
105.85	107	144.95	228				
106.05	162	147.80	53				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084841.D
Acq On : 14 Nov 2024 08:53
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260
Last Update : Thu Oct 31 18:45:38 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8743	PASS
75	95	30	60	51.1	24965	PASS
95	95	100	100	100.0	48816	PASS
96	95	5	9	6.7	3292	PASS
173	174	0.00	2	0.9	342	PASS
174	95	50	100	74.4	36320	PASS
175	174	5	9	7.5	2732	PASS
176	174	95	101	98.5	35773	PASS
177	176	5	9	6.3	2248	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	573	51.15	2779	67.10	137	77.80	83
37.05	1922	52.20	62	68.10	4973	78.10	109
38.05	1917	55.00	60	69.10	4952	79.00	1793
39.05	801	56.00	699	70.05	391	79.90	537
40.00	0	57.05	1148	71.95	268	80.95	1605
44.00	200	59.95	489	73.05	2046	81.95	489
45.00	392	61.05	2708	74.10	7908	87.00	1799
47.10	736	62.05	2461	75.10	24965	88.05	1961
48.05	282	63.05	2024	76.10	2136	91.00	112
49.05	2064	64.15	360	76.95	213	92.10	1414
50.10	8743	65.10	407	77.30	73	93.10	2285

Average of 12.841 to 12.853 min.: VN084841.D\data.ms

BFB

Modified:subtracted

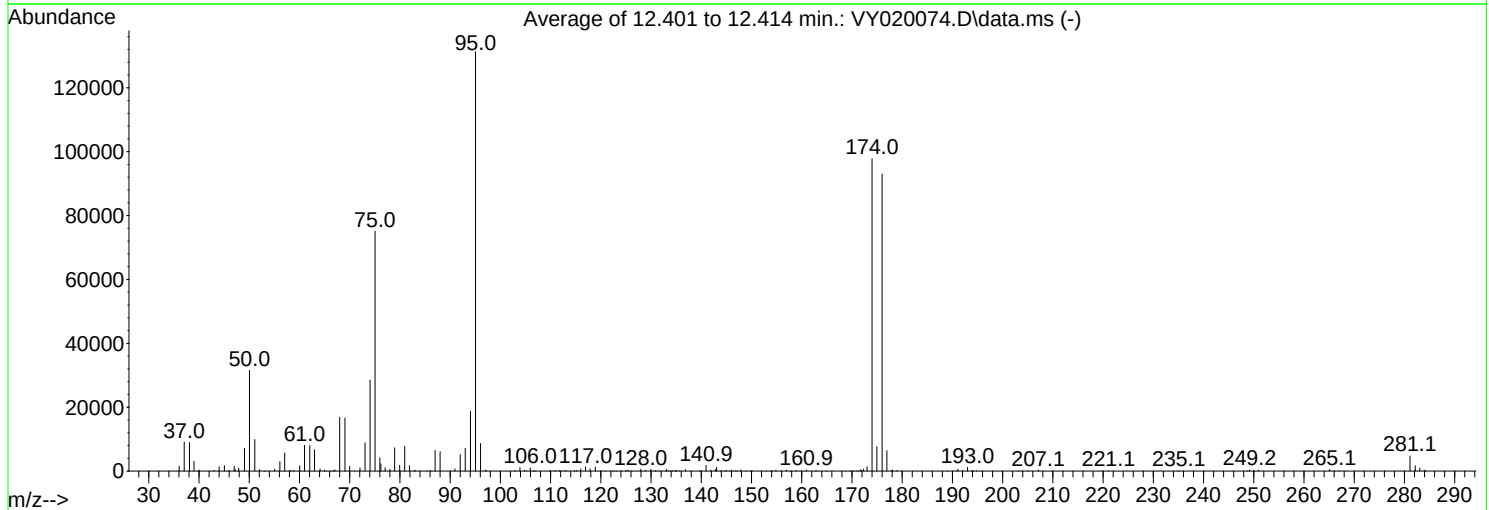
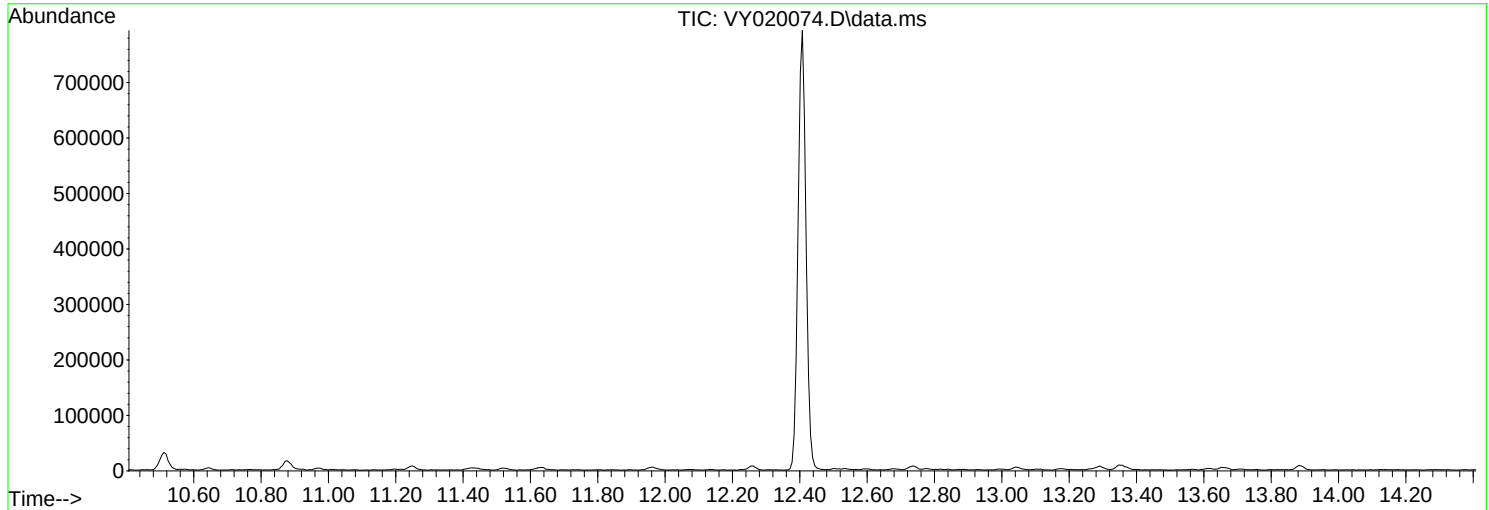
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	5835	128.00	178	173.05	342		
95.10	48816	128.90	54	174.00	36320		
96.10	3292	129.85	152	175.00	2732		
103.90	196	130.90	55	176.00	35773		
105.80	123	140.95	532	177.00	2248		
106.05	184	142.95	909				
115.80	88	145.00	360				
116.10	203	146.00	60				
116.95	492	171.60	106				
117.80	59	171.90	173				
118.95	373	172.05	427				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103024\
Data File : VY020074.D
Acq On : 30 Oct 2024 12:07
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\82Y103024S.M
Title : SW846 8260
Last Update : Thu Oct 31 15:23:13 2024



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

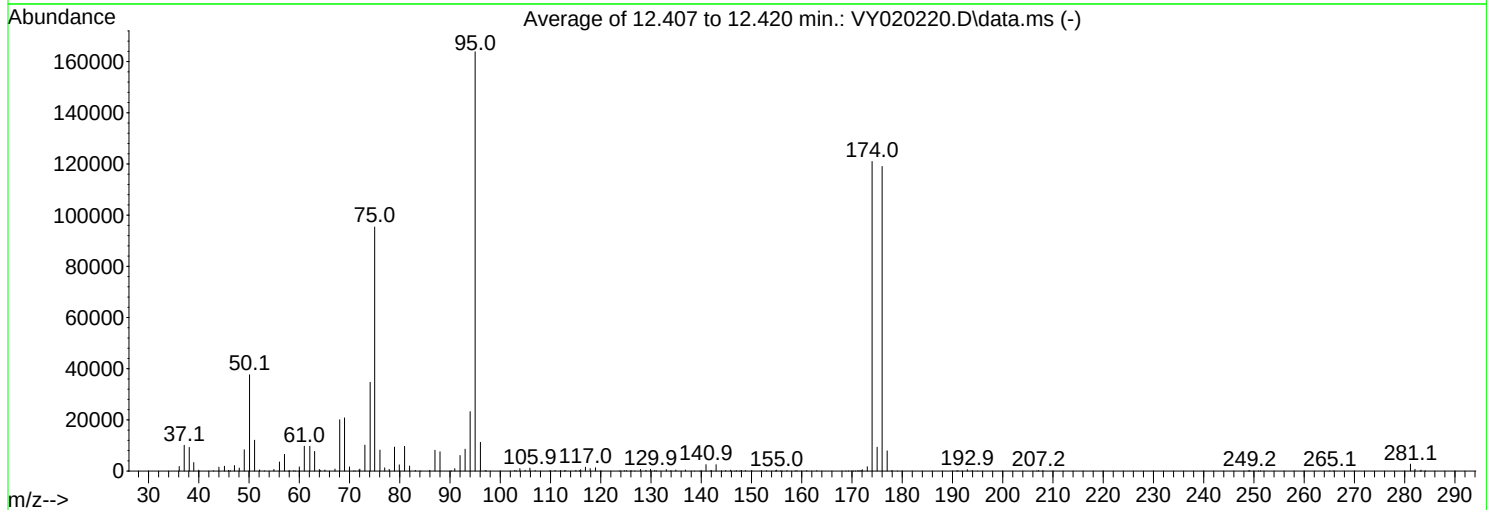
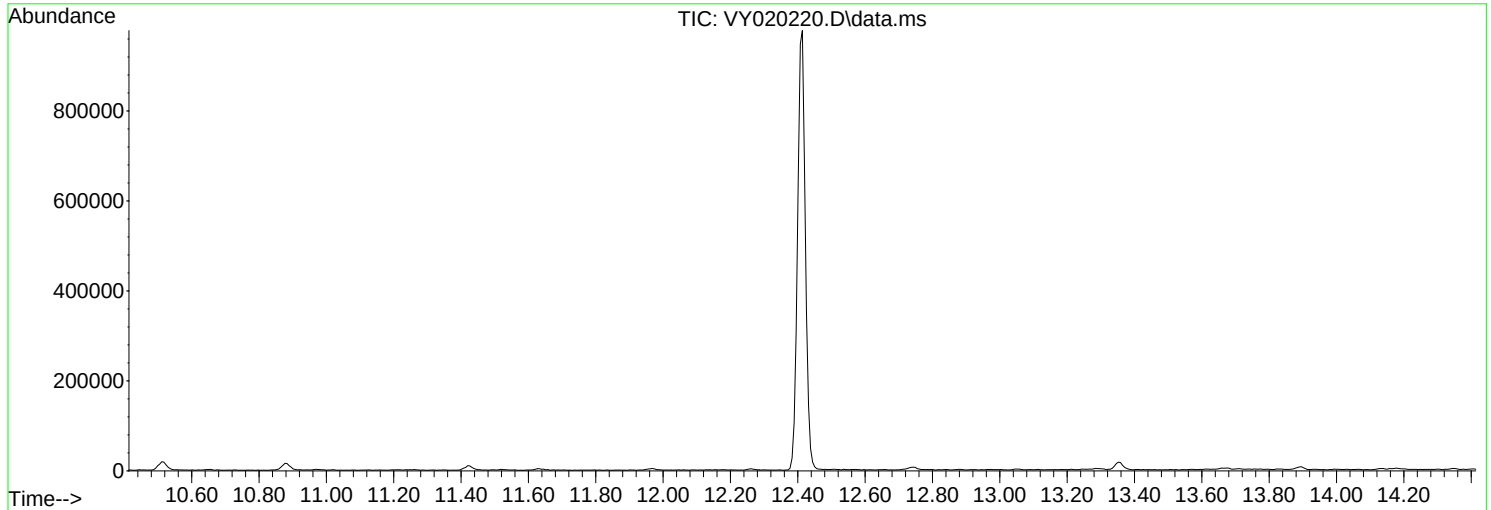
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	31536	PASS
75	95	30	60	57.2	75109	PASS
95	95	100	100	100.0	131296	PASS
96	95	5	9	6.6	8653	PASS
173	174	0.00	2	1.4	1390	PASS
174	95	50	100	74.5	97792	PASS
175	174	5	9	7.8	7615	PASS
176	174	95	101	95.1	93016	PASS
177	176	5	9	6.9	6402	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020220.D
Acq On : 08 Nov 2024 08:45
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\82Y103024S.M
Title : SW846 8260
Last Update : Thu Oct 31 15:23:13 2024



AutoFind: Scans 1753, 1754, 1755; 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	23.0	37640	PASS
75	95	30	60	58.2	95379	PASS
95	95	100	100	100.0	163861	PASS
96	95	5	9	6.9	11236	PASS
173	174	0.00	2	1.4	1705	PASS
174	95	50	100	73.8	120981	PASS
175	174	5	9	7.7	9331	PASS
176	174	95	101	98.4	119035	PASS
177	176	5	9	6.6	7891	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084844.D	1		11/14/24 10:52	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1114WBL01			SDG No.:	P4718
Lab Sample ID:	VN1114WBL01			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084844.D	1		11/14/24 10:52	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	8.218			
540-36-3	1,4-Difluorobenzene	341000	9.094			
3114-55-4	Chlorobenzene-d5	294000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VN1114WBL01		SDG No.:	P4718
Lab Sample ID:	VN1114WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084844.D	1		11/14/24 10:52	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	203029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	293869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131669	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	149395	50.946	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.900%
35) Dibromofluoromethane	8.165	113	119930	52.015	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.020%
50) Toluene-d8	10.565	98	393047	46.276	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.560%
62) 4-Bromofluorobenzene	12.847	95	149177	46.995	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.000%

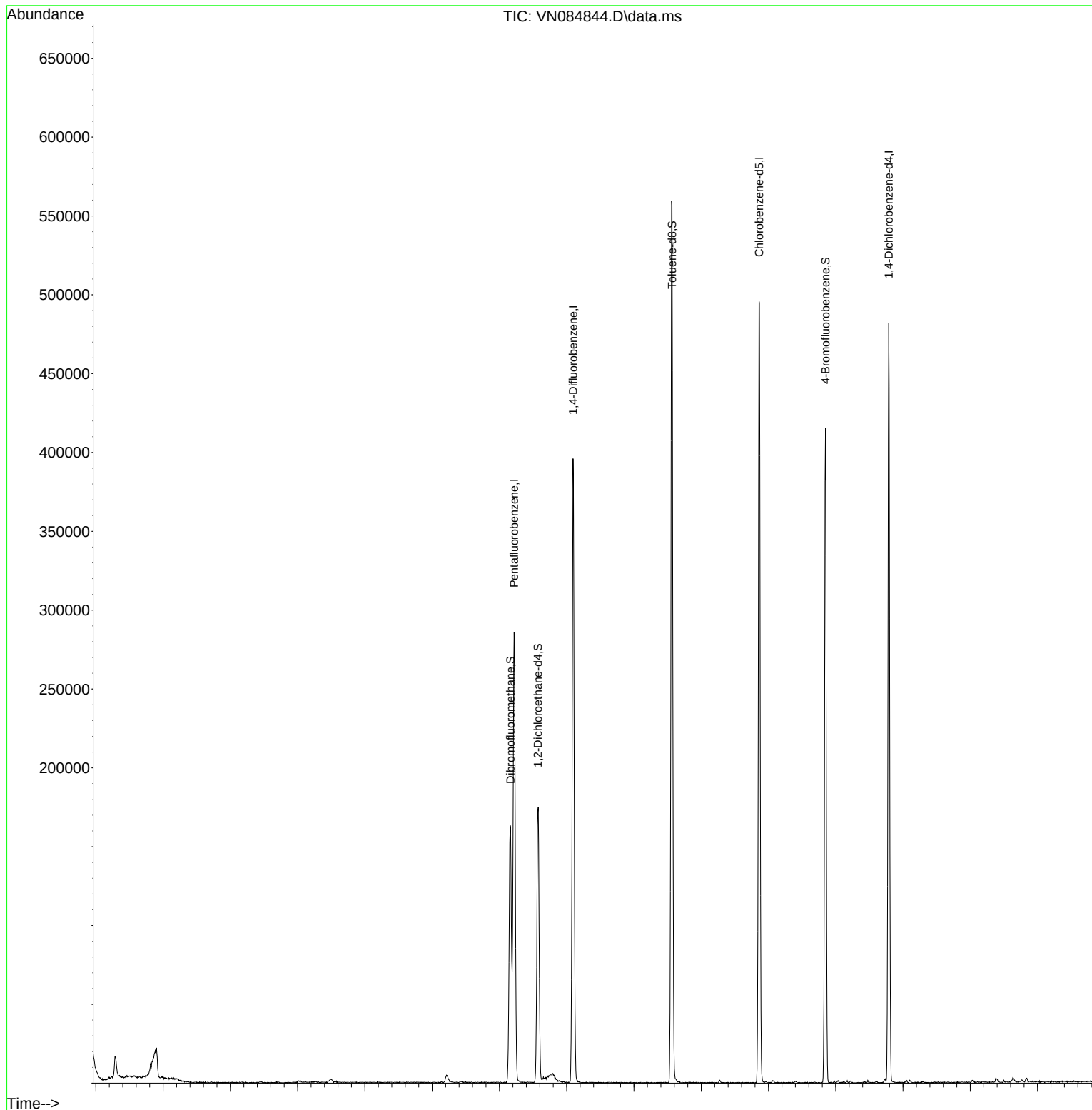
Target Compounds	Qvalue

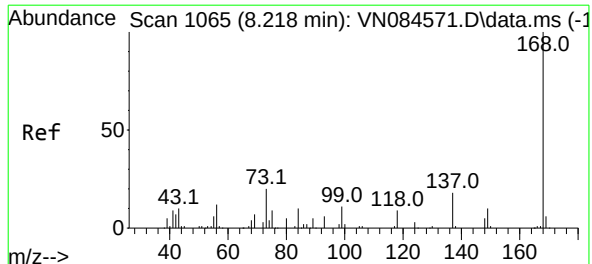
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

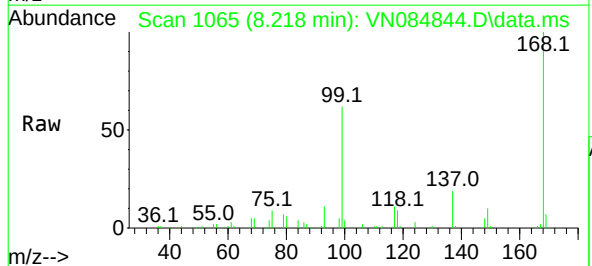
Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



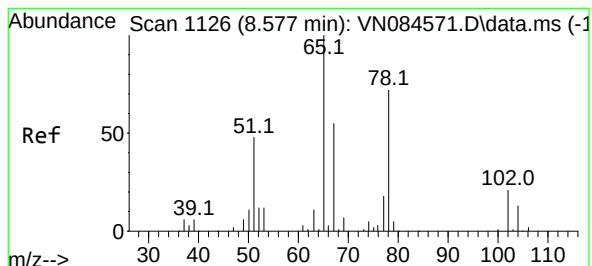
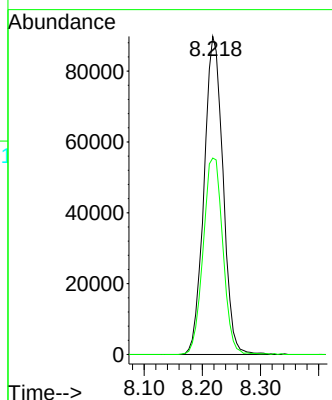
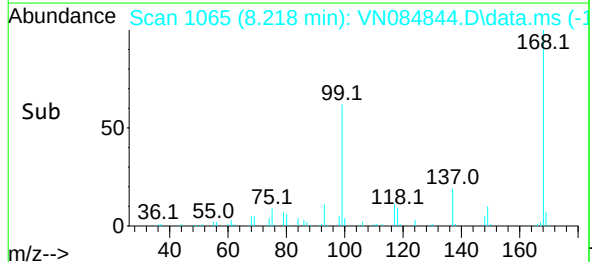


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

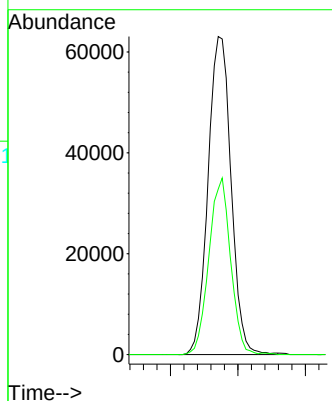
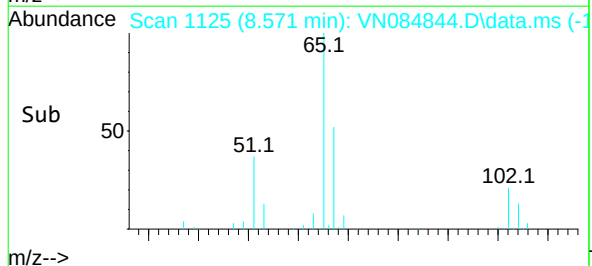
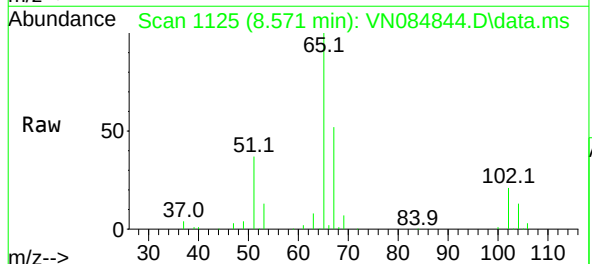


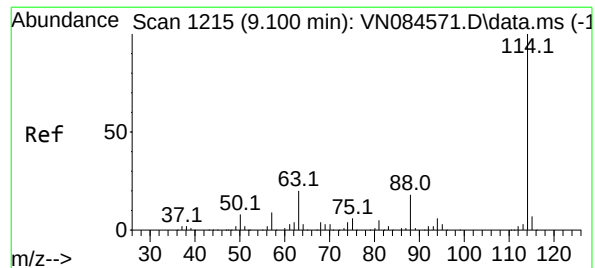
Tgt Ion:168 Resp: 203029
Ion Ratio Lower Upper
168 100
99 61.8 54.2 81.2



#33
1,2-Dichloroethane-d4
Concen: 50.946 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion: 65 Resp: 149395
Ion Ratio Lower Upper
65 100
67 52.5 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN084844.D

Acq: 14 Nov 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBL01

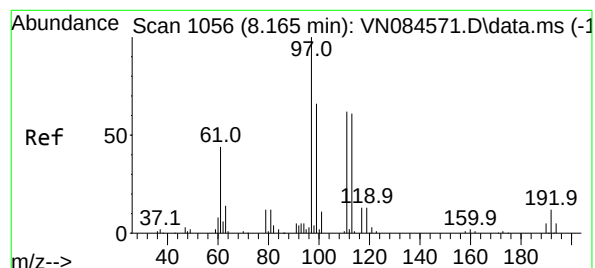
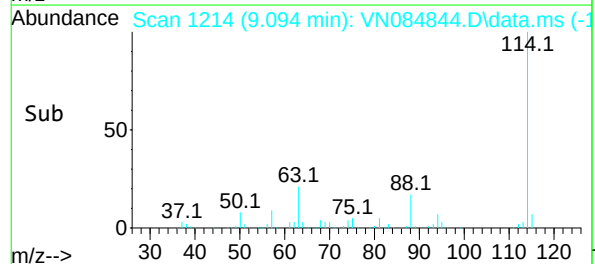
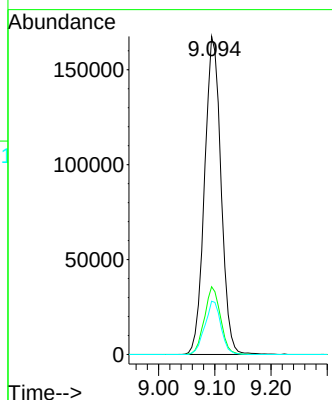
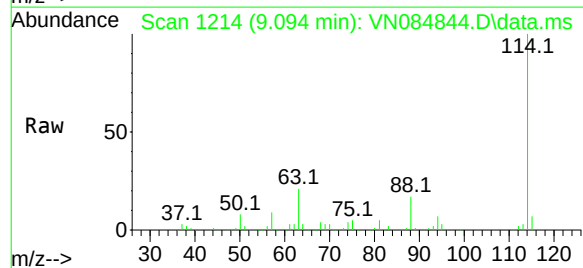
Tgt Ion:114 Resp: 340637

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

88 16.8 0.0 31.6



#35

Dibromofluoromethane

Concen: 52.015 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084844.D

Acq: 14 Nov 2024 10:52

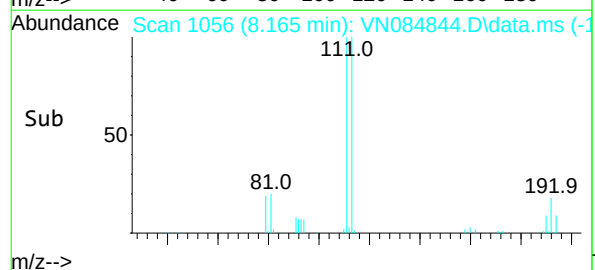
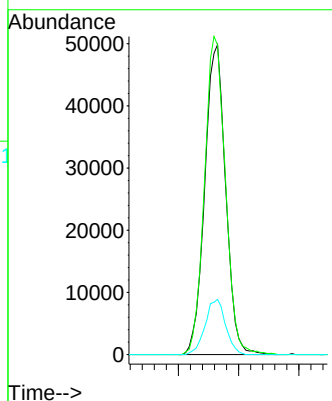
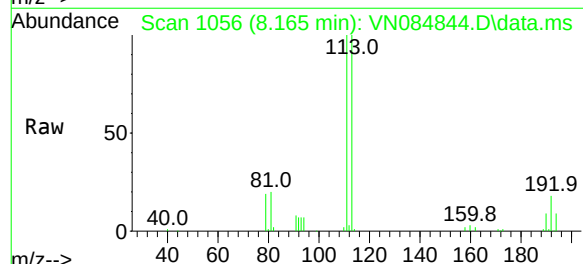
Tgt Ion:113 Resp: 119930

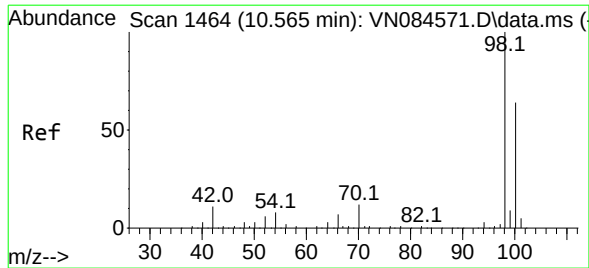
Ion Ratio Lower Upper

113 100

111 102.7 83.3 124.9

192 17.4 13.5 20.3





#50

Toluene-d8

Concen: 46.276 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084844.D

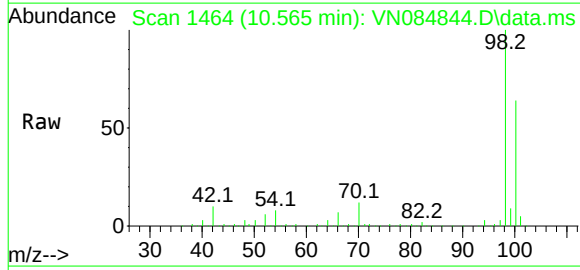
Acq: 14 Nov 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBL01

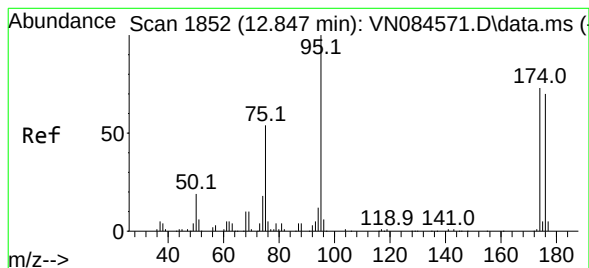
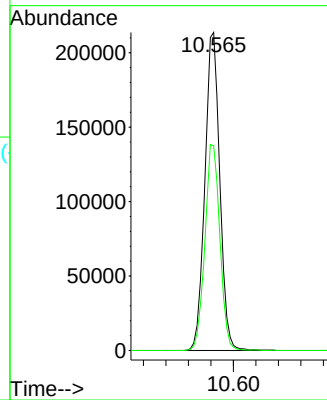
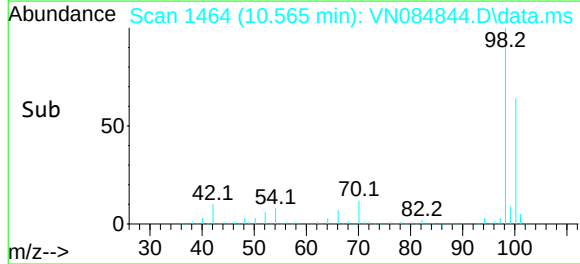


Tgt Ion: 98 Resp: 393047

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



#62

4-Bromofluorobenzene

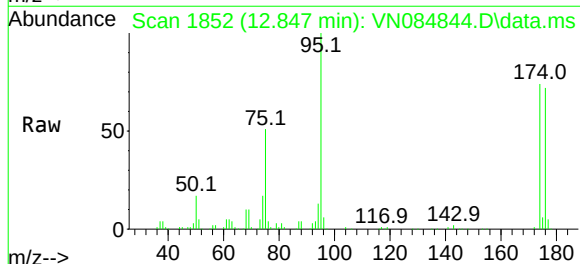
Concen: 46.995 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084844.D

Acq: 14 Nov 2024 10:52



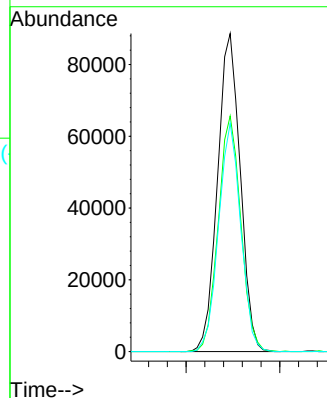
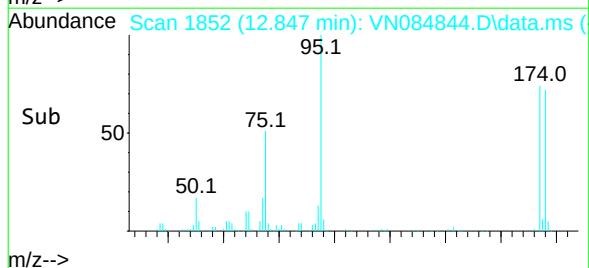
Tgt Ion: 95 Resp: 149177

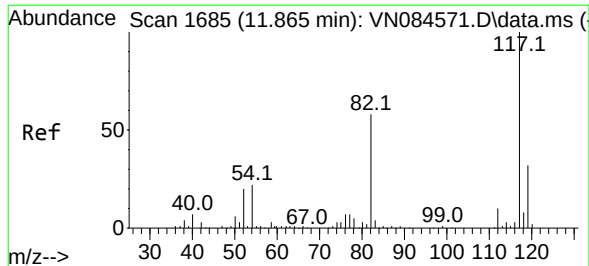
Ion Ratio Lower Upper

95 100

174 73.6 0.0 145.2

176 69.9 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 16

Delta R.T. -0.006 min

Lab File: VN084844.D

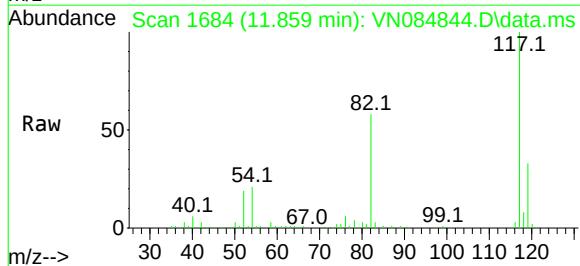
Acq: 14 Nov 2024 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBL01



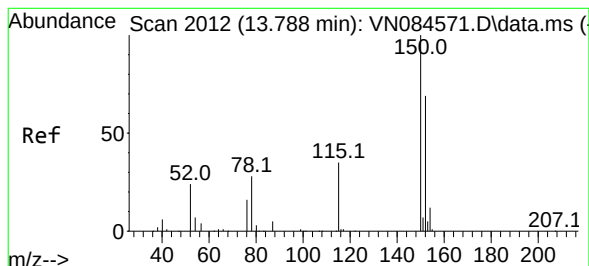
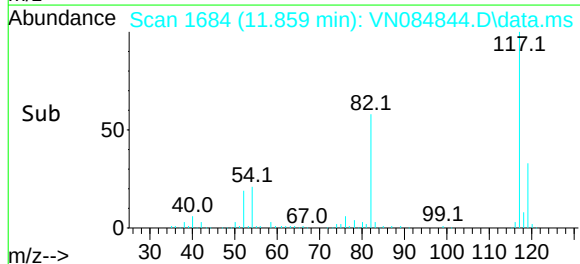
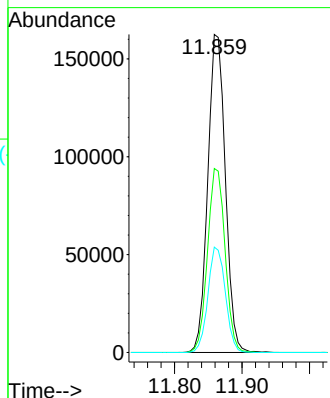
Tgt Ion:117 Resp: 293869

Ion Ratio Lower Upper

117 100

82 57.9 47.2 70.8

119 33.1 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084844.D

Acq: 14 Nov 2024 10:52

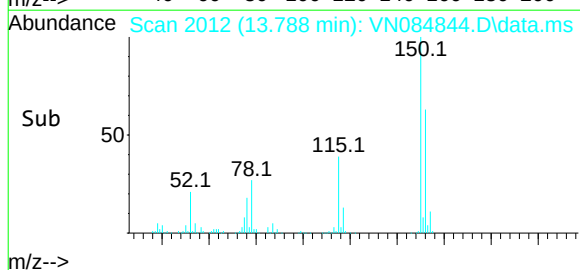
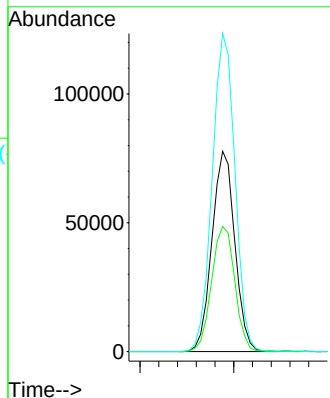
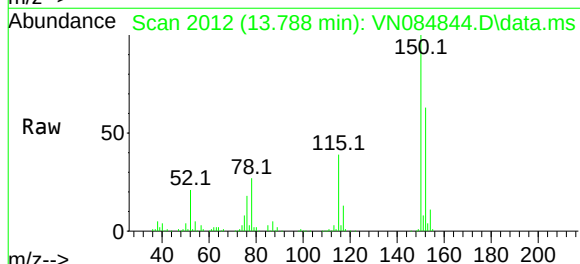
Tgt Ion:152 Resp: 131669

Ion Ratio Lower Upper

152 100

115 63.3 31.3 93.9

150 158.2 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.283	50	56	65	rBV4	13420	31901	3.07%	0.551%
2	2.883	148	158	159	rVV6	16078	46897	4.51%	0.810%
3	2.901	159	161	171	rVB5	19151	27782	2.67%	0.480%
4	8.159	1043	1055	1060	rBV	163366	401196	38.62%	6.932%
5	8.218	1060	1065	1079	rVB	285428	631136	60.76%	10.905%
6	8.577	1116	1126	1136	rBV	174528	408306	39.31%	7.055%
7	9.094	1205	1214	1226	rBV	395603	794999	76.54%	13.737%
8	10.559	1454	1463	1479	rBV	559188	1038725	100.00%	17.948%
9	11.859	1675	1684	1693	rBV	495948	903403	86.97%	15.610%
10	12.847	1844	1852	1861	rVB	415169	693861	66.80%	11.989%
11	13.788	2005	2012	2021	rVB	481350	809211	77.90%	13.982%

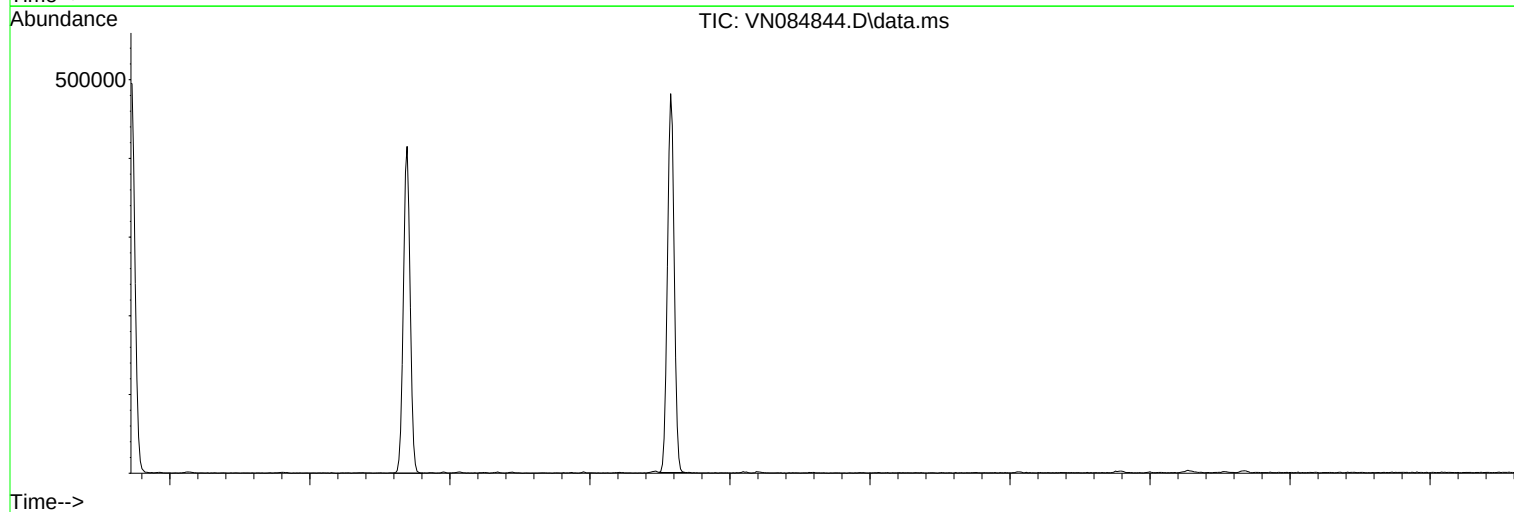
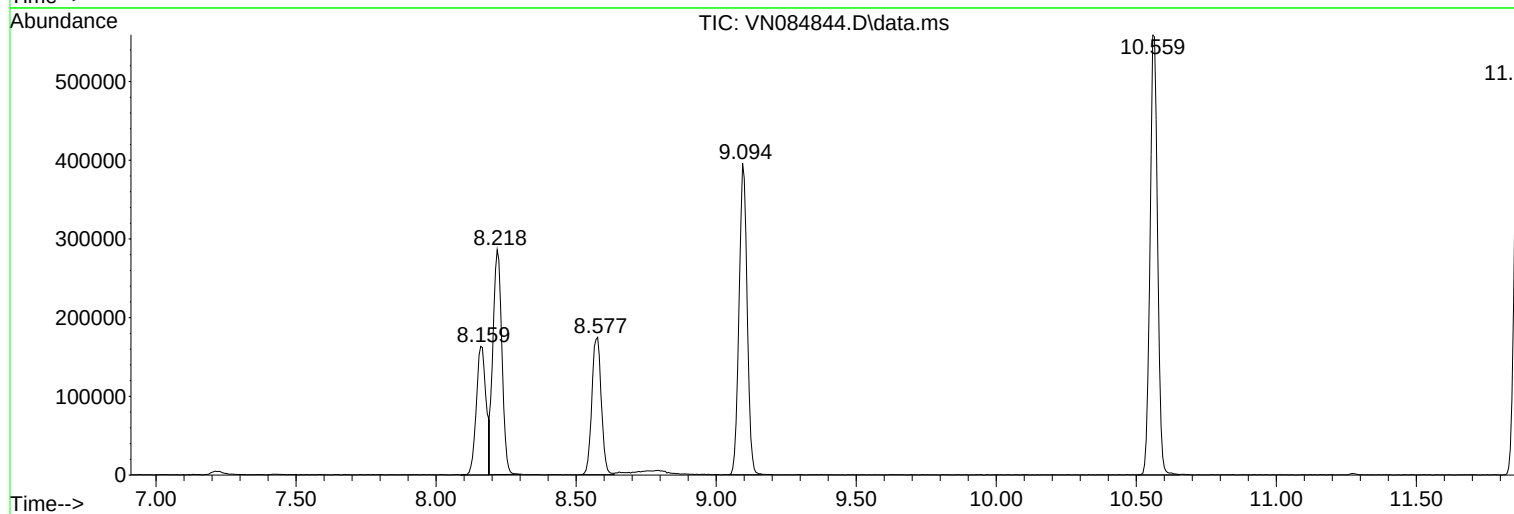
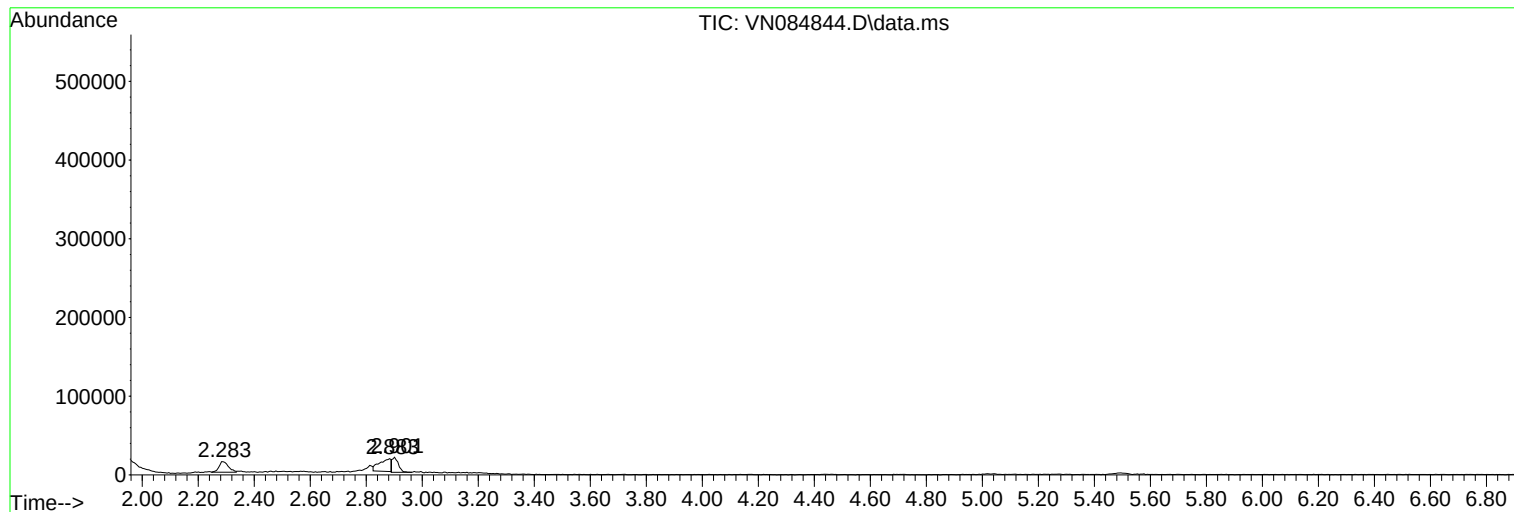
Sum of corrected areas: 5787417

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VY1108SBL01			SDG No.:	P4718
Lab Sample ID:	VY1108SBL01			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
VY020222.D	1		11/08/24 10:40	VY110824

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	55.5		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.713			
540-36-3	1,4-Difluorobenzene	453000	8.616			
3114-55-4	Chlorobenzene-d5	403000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.352			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020222.D	1		11/08/24 10:40	VY110824

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\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	212436	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	452508	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	403401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	137264	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	147279	55.549	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.100%
35) Dibromofluoromethane	7.640	113	145570	50.597	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.200%
50) Toluene-d8	10.109	98	552944	48.284	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.560%
62) 4-Bromofluorobenzene	12.408	95	166242	44.692	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	89.380%

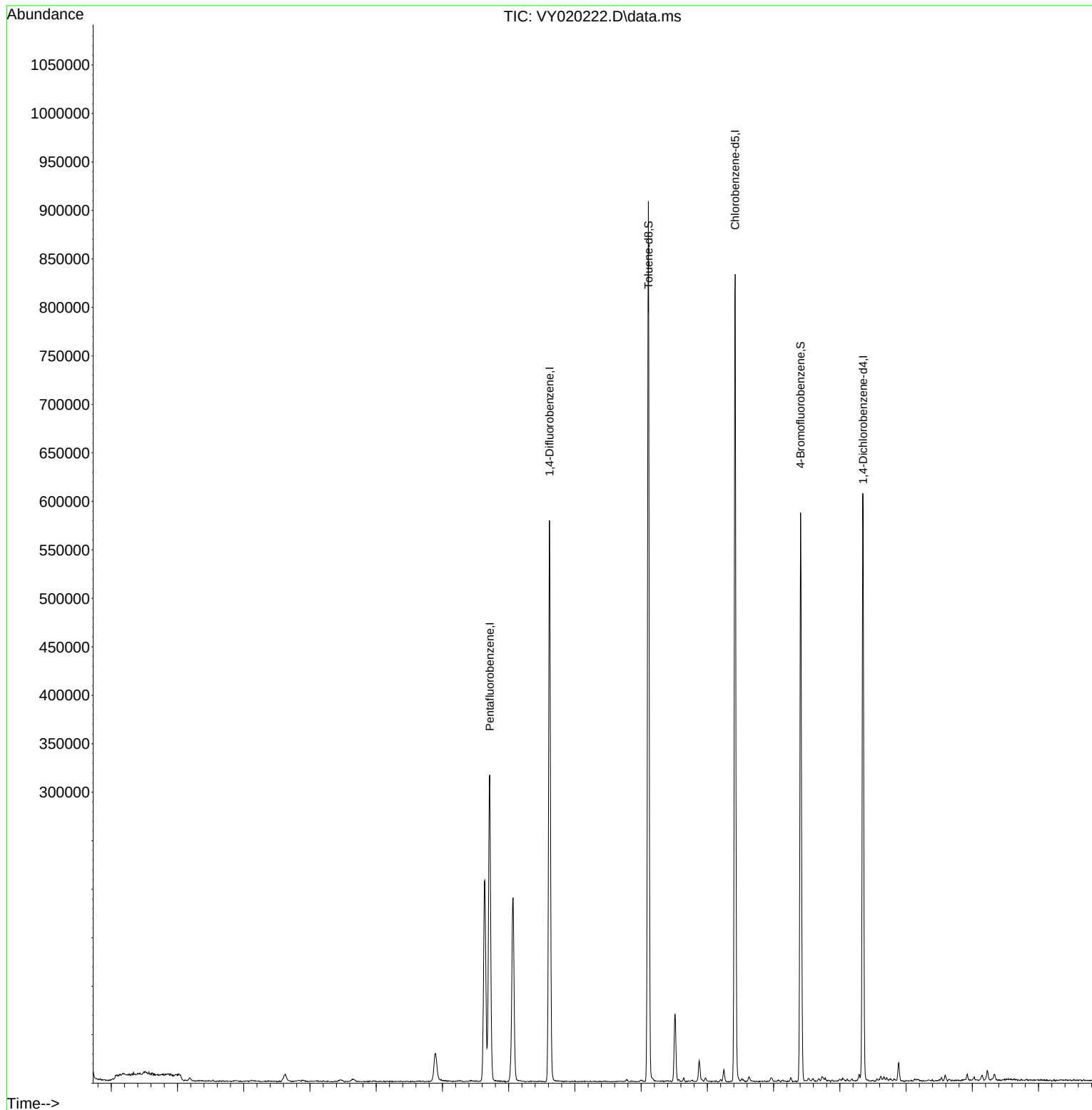
Target Compounds	Qvalue

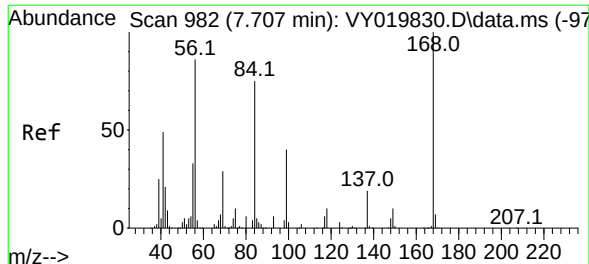
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

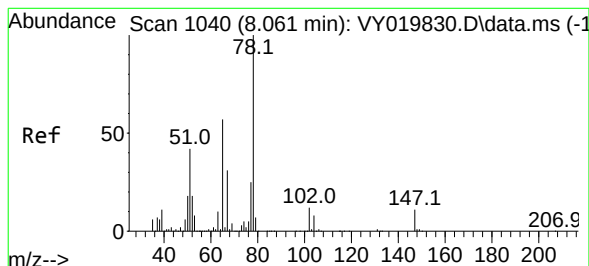
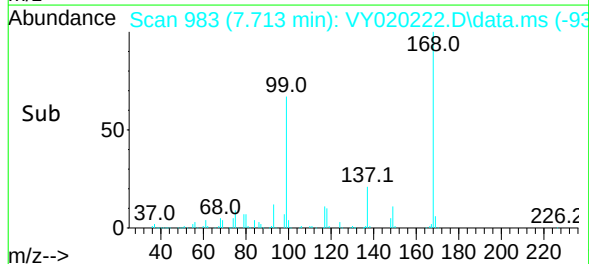
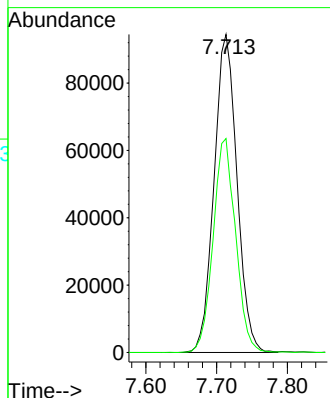
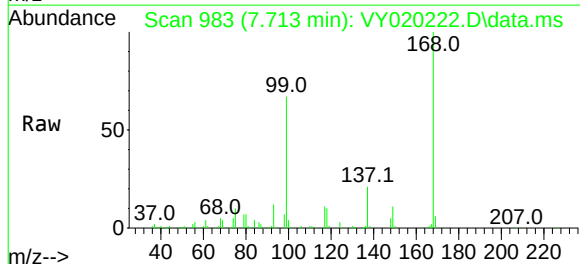




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

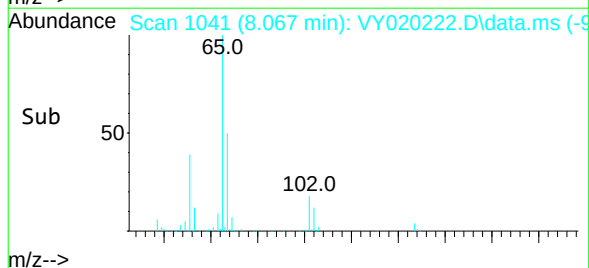
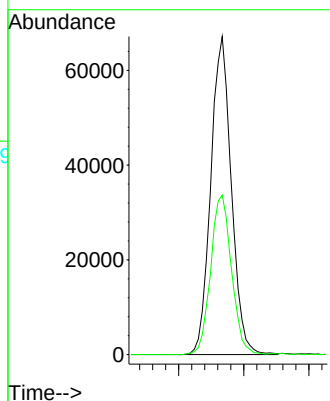
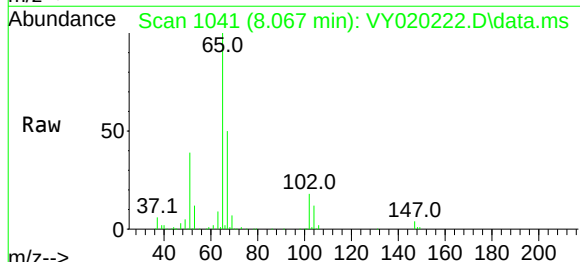
Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

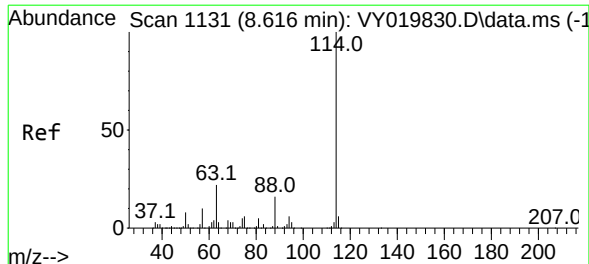
Tgt Ion: 168 Resp: 212436
Ion Ratio Lower Upper
168 100
99 67.3 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 55.549 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 65 Resp: 147279
Ion Ratio Lower Upper
65 100
67 50.8 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

Instrument :

MSVOA_Y

ClientSampleId :

VY1108SBL01

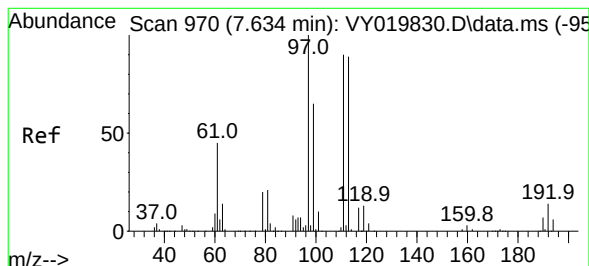
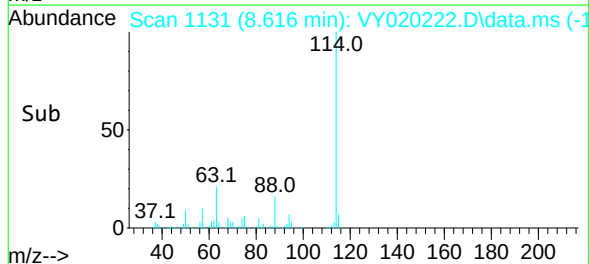
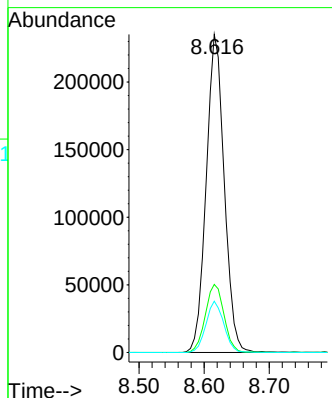
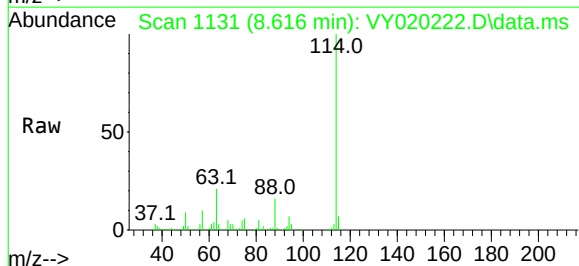
Tgt Ion:114 Resp: 452508

Ion Ratio Lower Upper

114 100

63 21.4 0.0 35.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.597 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

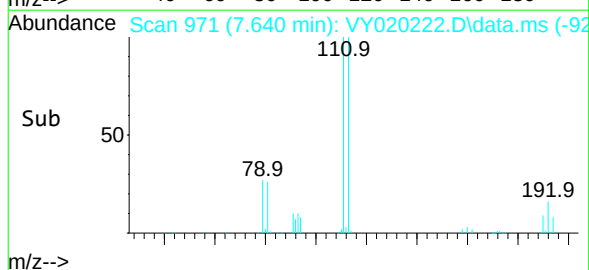
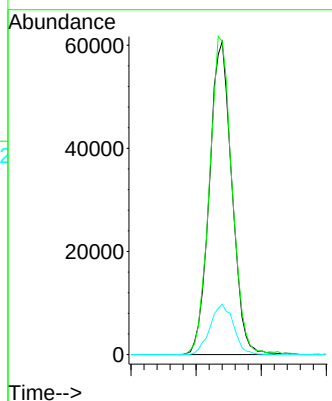
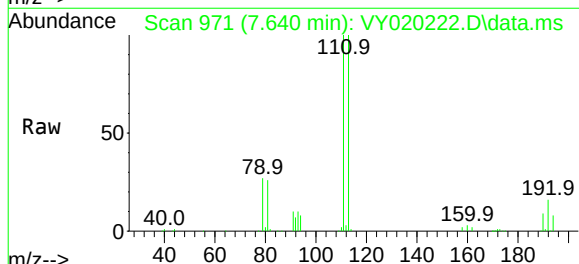
Tgt Ion:113 Resp: 145570

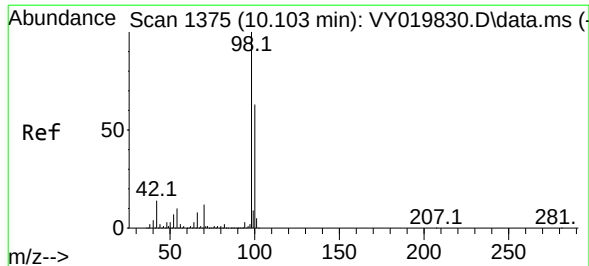
Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

192 16.8 15.9 23.9





#50

Toluene-d8

Concen: 48.284 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

Instrument :

MSVOA_Y

ClientSampleId :

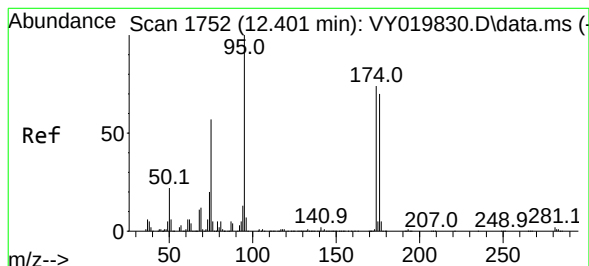
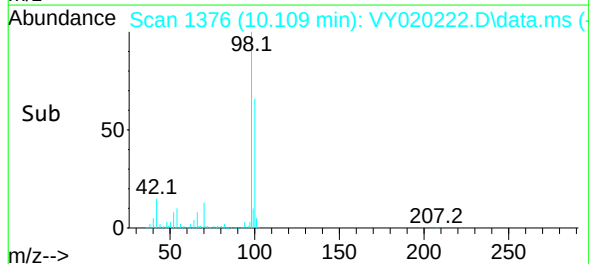
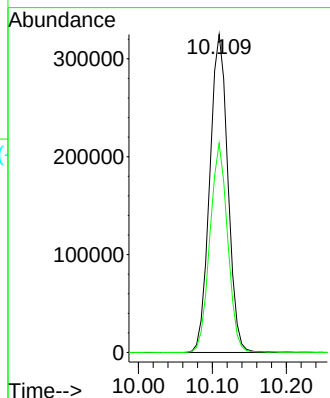
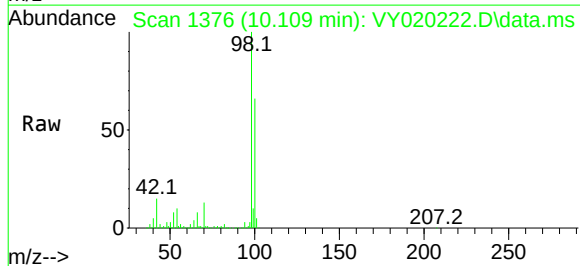
VY1108SBL01

Tgt Ion: 98 Resp: 552944

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 44.692 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

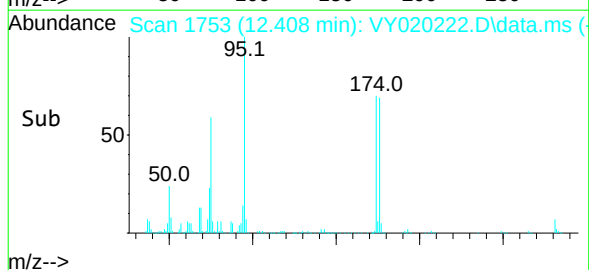
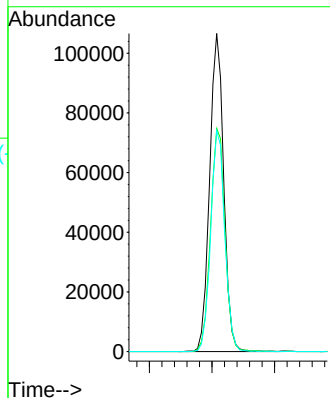
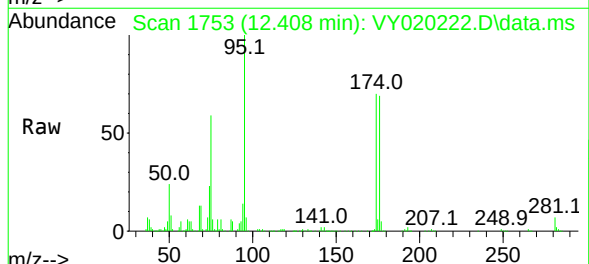
Tgt Ion: 95 Resp: 166242

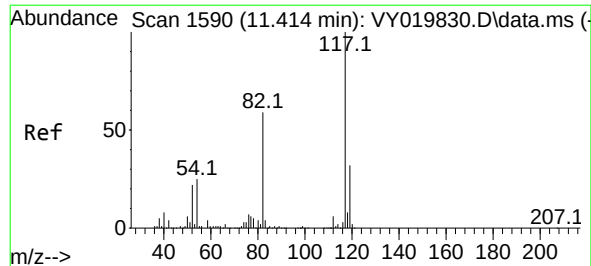
Ion Ratio Lower Upper

95 100

174 72.0 0.0 175.6

176 69.4 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 15

Delta R.T. 0.000 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

Instrument :

MSVOA_Y

ClientSampleId :

VY1108SBL01

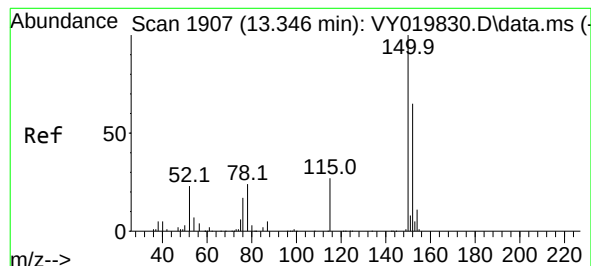
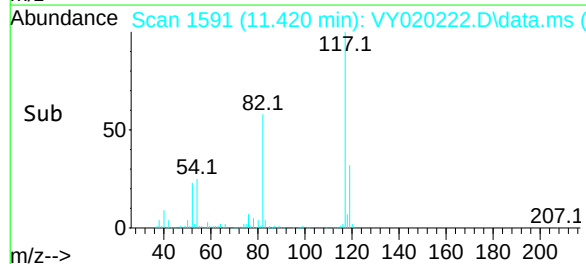
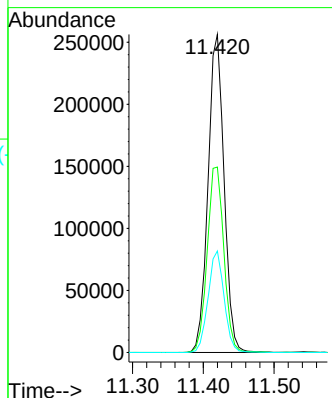
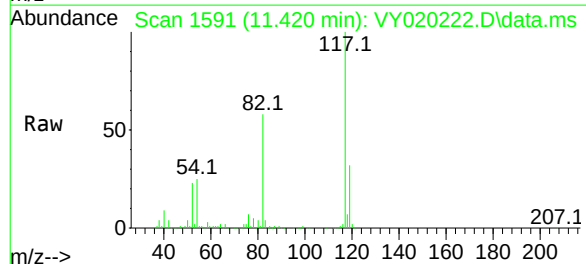
Tgt Ion:117 Resp: 403401

Ion Ratio Lower Upper

117 100

82 58.3 42.4 63.6

119 31.9 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY020222.D

Acq: 08 Nov 2024 10:40

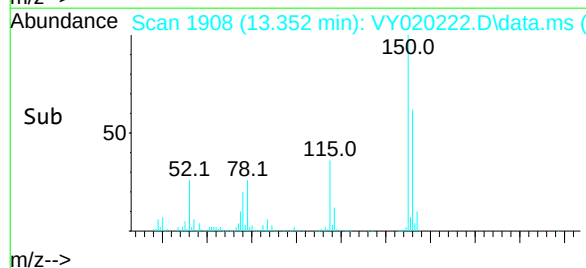
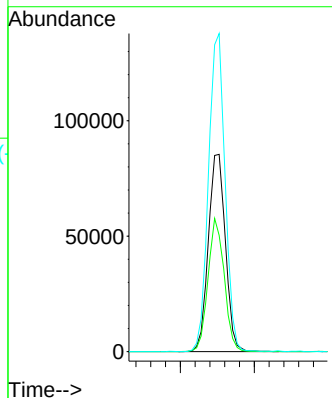
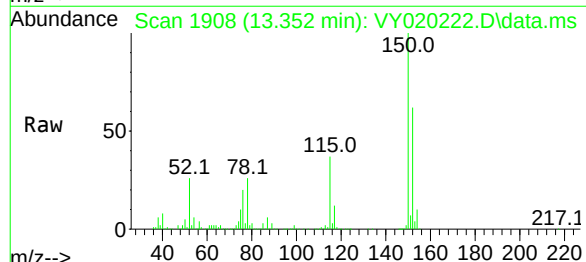
Tgt Ion:152 Resp: 137264

Ion Ratio Lower Upper

152 100

115 63.9 28.2 84.7

150 156.3 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020222.D
 Acq On : 08 Nov 2024 10:40
 Operator : SY/MD
 Sample : VY1108SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1108SBL01

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\82Y103024S.M

Title : SW846 8260

Signal : TIC: VY020222.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.896	837	849	860	rBV2	28588	93740	6.08%	1.177%
2	7.640	960	971	976	rBV	207082	495163	32.12%	6.217%
3	7.713	976	983	996	rVB	315711	720195	46.72%	9.042%
4	8.067	1030	1041	1051	rBV	189419	457555	29.68%	5.745%
5	8.616	1122	1131	1144	rBV	578903	1130959	73.37%	14.199%
6	10.109	1368	1376	1390	rBV	907929	1541400	100.00%	19.353%
7	10.512	1433	1442	1449	rBV	69894	134571	8.73%	1.690%
8	10.877	1494	1502	1513	rBV3	21355	41650	2.70%	0.523%
9	11.249	1558	1563	1570	rVB2	12577	21288	1.38%	0.267%
10	11.420	1583	1591	1603	rBV	832478	1352338	87.73%	16.979%
11	12.408	1744	1753	1762	rBV2	586796	970051	62.93%	12.179%
12	13.346	1900	1907	1919	rVB	605252	953962	61.89%	11.977%
13	13.889	1990	1996	2002	rVB2	18706	30902	2.00%	0.388%
14	15.224	2207	2215	2224	rBV3	10242	21012	1.36%	0.264%

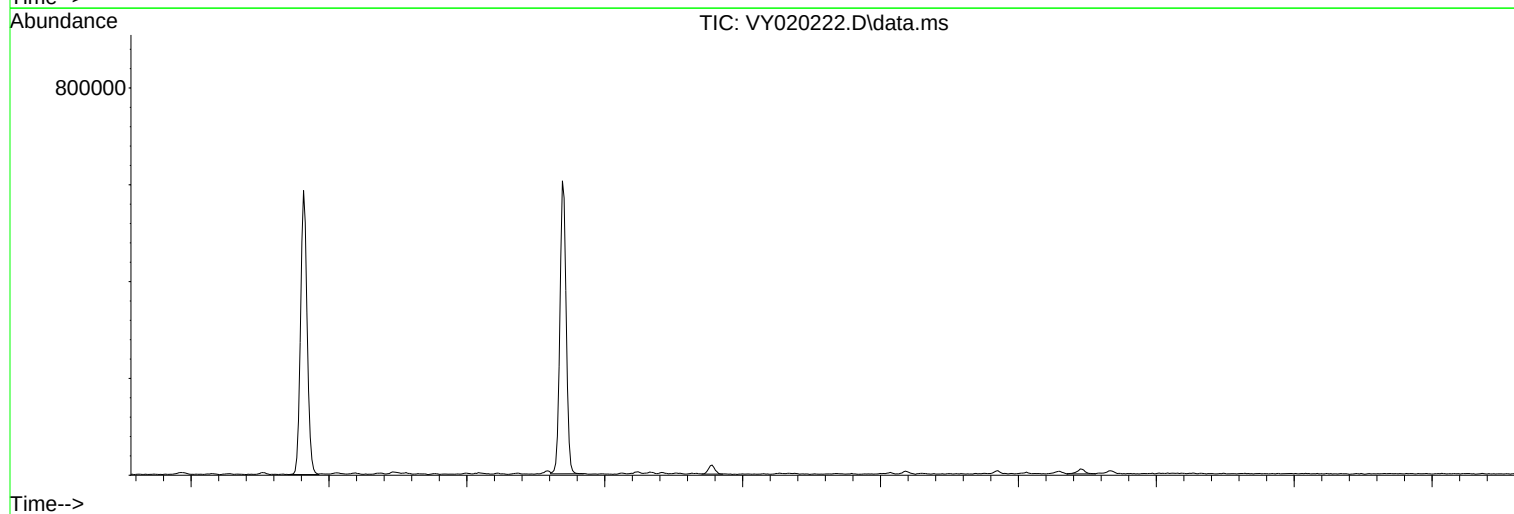
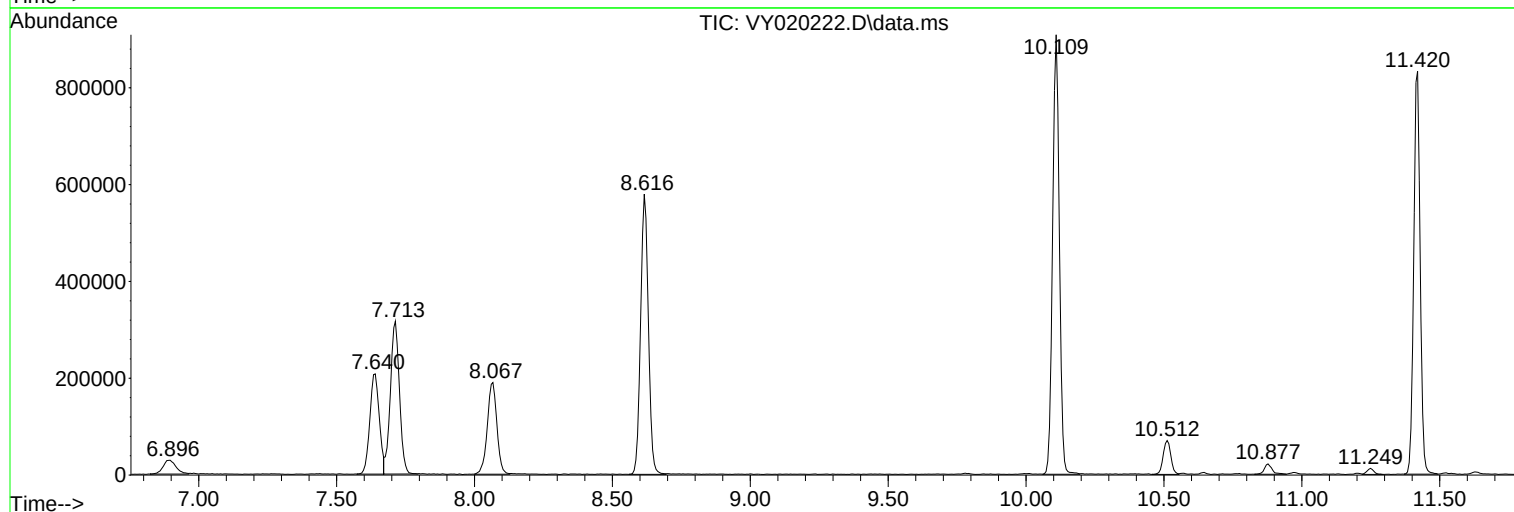
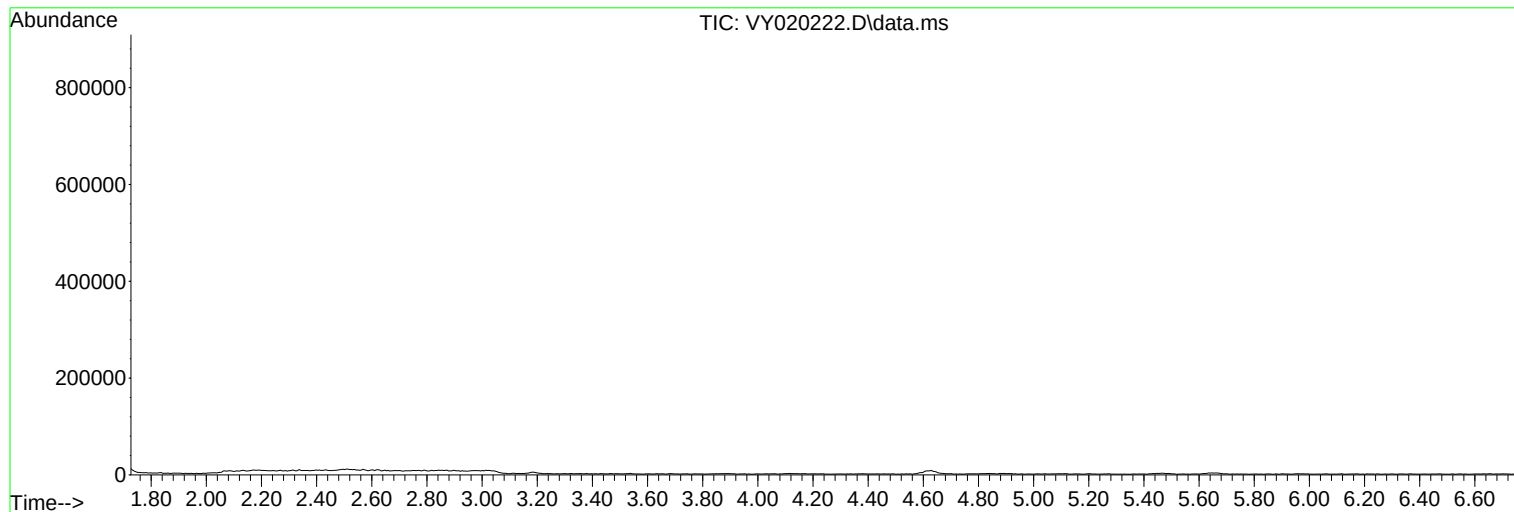
Sum of corrected areas: 7964786

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	16.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.6		0.34	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	15.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.60	5.00	ug/L
78-93-3	2-Butanone	98.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	22.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	22.5		0.19	1.00	ug/L
71-43-2	Benzene	20.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.5		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	21.6		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1114WBS02			SDG No.:	P4718
Lab Sample ID:	VN1114WBS02			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.1		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.2		0.31	2.00	ug/L
95-47-6	o-Xylene	22.6		0.14	1.00	ug/L
100-42-5	Styrene	22.0		0.16	1.00	ug/L
75-25-2	Bromoform	20.9		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.218			
540-36-3	1,4-Difluorobenzene	270000	9.094			
3114-55-4	Chlorobenzene-d5	235000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VN1114WBS02		SDG No.:	P4718
Lab Sample ID:	VN1114WBS02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084846.D
 Acq On : 14 Nov 2024 12:50
 Operator : JC\MD
 Sample : VN1114WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/15/2024
 Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:44:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	169550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	270058	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234639	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118912	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114124	46.603	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.200%
35) Dibromofluoromethane	8.159	113	92823	50.779	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.560%
50) Toluene-d8	10.565	98	330275	49.049	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.100%
62) 4-Bromofluorobenzene	12.847	95	124800	49.591	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.180%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	37847	19.418	ug/l	88
3) Chloromethane	2.359	50	41236	16.333	ug/l	99
4) Vinyl Chloride	2.512	62	45362	21.638	ug/l	99
5) Bromomethane	2.901	94	22816	20.541	ug/l	93
6) Chloroethane	3.083	64	28977	21.536	ug/l #	88
7) Trichlorofluoromethane	3.477	101	68652	19.880	ug/l	98
8) Diethyl Ether	3.959	74	24825	20.379	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.353	101	40451	20.730	ug/l	98
10) Methyl Iodide	4.577	142	54005	20.708	ug/l	90
11) Tert butyl alcohol	5.542	59	31647	97.904	ug/l	95
12) 1,1-Dichloroethene	4.330	96	36223	18.760	ug/l	99
13) Acrolein	4.171	56	31282	97.050	ug/l	97
14) Allyl chloride	5.012	41	55310	17.664	ug/l	97
15) Acrylonitrile	5.718	53	88439	94.508	ug/l	100
16) Acetone	4.424	43	73518	102.243	ug/l	98
17) Carbon Disulfide	4.700	76	102779	17.285	ug/l	97
18) Methyl Acetate	5.012	43	46160	15.075	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	120830	20.417	ug/l	99
20) Methylene Chloride	5.271	84	41116	19.090	ug/l	85
21) trans-1,2-Dichloroethene	5.783	96	37615	18.972	ug/l	95
22) Diisopropyl ether	6.665	45	126019	20.254	ug/l	98
23) Vinyl Acetate	6.594	43	429740	100.156	ug/l	96
24) 1,1-Dichloroethane	6.559	63	75613	20.242	ug/l	97
25) 2-Butanone	7.477	43	112446	98.423	ug/l	99
26) 2,2-Dichloropropane	7.477	77	68163	20.965	ug/l	96
27) cis-1,2-Dichloroethene	7.477	96	46070	19.901	ug/l	97
28) Bromochloromethane	7.806	49	30543	20.523	ug/l	90
29) Tetrahydrofuran	7.836	42	71469	94.294	ug/l	93
30) Chloroform	7.959	83	76934	20.235	ug/l	98
31) Cyclohexane	8.253	56	64564	19.097	ug/l	91
32) 1,1,1-Trichloroethane	8.159	97	71181	20.569	ug/l	97
36) 1,1-Dichloropropene	8.365	75	52698	20.787	ug/l	99
37) Ethyl Acetate	7.559	43	47211	20.525	ug/l	100
38) Carbon Tetrachloride	8.359	117	62964	22.220	ug/l	93
39) Methylcyclohexane	9.600	83	58004	22.490	ug/l	98
40) Benzene	8.600	78	167429	20.565	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084846.D
 Acq On : 14 Nov 2024 12:50
 Operator : JC\MD
 Sample : VN1114WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS02

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/15/2024
 Supervised By :Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:44:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	28000	22.637	ug/l	96
42) 1,2-Dichloroethane	8.665	62	54596	20.706	ug/l	97
43) Isopropyl Acetate	8.683	43	84927	19.395	ug/l	98
44) Trichloroethene	9.347	130	39866	21.232	ug/l	98
45) 1,2-Dichloropropane	9.612	63	40081	20.986	ug/l	98
46) Dibromomethane	9.706	93	27289	20.249	ug/l	93
47) Bromodichloromethane	9.882	83	58232	20.499	ug/l #	93
48) Methyl methacrylate	9.682	41	36343	20.302	ug/l	95
49) 1,4-Dioxane	9.694	88	13692	431.621	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	229499	104.664	ug/l	96
52) Toluene	10.629	92	102629	21.553	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	60180	20.466	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	65098	20.917	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	38706	21.580	ug/l	97
56) Ethyl methacrylate	10.871	69	57910	22.321	ug/l	93
57) 1,3-Dichloropropane	11.159	76	66297	21.537	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	128541	105.881	ug/l	94
59) 2-Hexanone	11.194	43	172000	107.766	ug/l	97
60) Dibromochloromethane	11.353	129	44196	21.620	ug/l	98
61) 1,2-Dibromoethane	11.465	107	38793	21.120	ug/l	97
64) Tetrachloroethene	11.100	164	34670	22.214	ug/l	97
65) Chlorobenzene	11.888	112	110830	21.113	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	39460	21.612	ug/l	99
67) Ethyl Benzene	11.959	91	187829	21.436	ug/l	96
68) m/p-Xylenes	12.071	106	143326	43.206	ug/l	97
69) o-Xylene	12.394	106	69983	22.552	ug/l	99
70) Styrene	12.406	104	118961	21.975	ug/l	100
71) Bromoform	12.576	173	28661	20.861	ug/l #	96
73) Isopropylbenzene	12.694	105	177802	21.337	ug/l	100
74) N-ethyl acetate	12.494	43	68496	19.313	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	53689	19.302	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	50712m	21.335	ug/l	
77) Bromobenzene	12.976	156	45069	20.118	ug/l	93
78) n-propylbenzene	13.029	91	207174	21.216	ug/l	99
79) 2-Chlorotoluene	13.123	91	132760	20.807	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	155554	22.523	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18639	18.603	ug/l	98
82) 4-Chlorotoluene	13.218	91	136736	20.363	ug/l	99
83) tert-Butylbenzene	13.435	119	128384	22.460	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	157459	22.089	ug/l	98
85) sec-Butylbenzene	13.612	105	176072	21.807	ug/l	100
86) p-Isopropyltoluene	13.723	119	150327	22.702	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	83871	19.184	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	84098	20.288	ug/l	100
89) n-Butylbenzene	14.053	91	126655	20.447	ug/l	98
90) Hexachloroethane	14.329	117	27627	18.708	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	81067	19.297	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.712	75	10170	18.048	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	42976	18.690	ug/l	99
94) Hexachlorobutadiene	15.500	225	20149	19.954	ug/l	99
95) Naphthalene	15.635	128	124633	18.108	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	41610	18.641	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

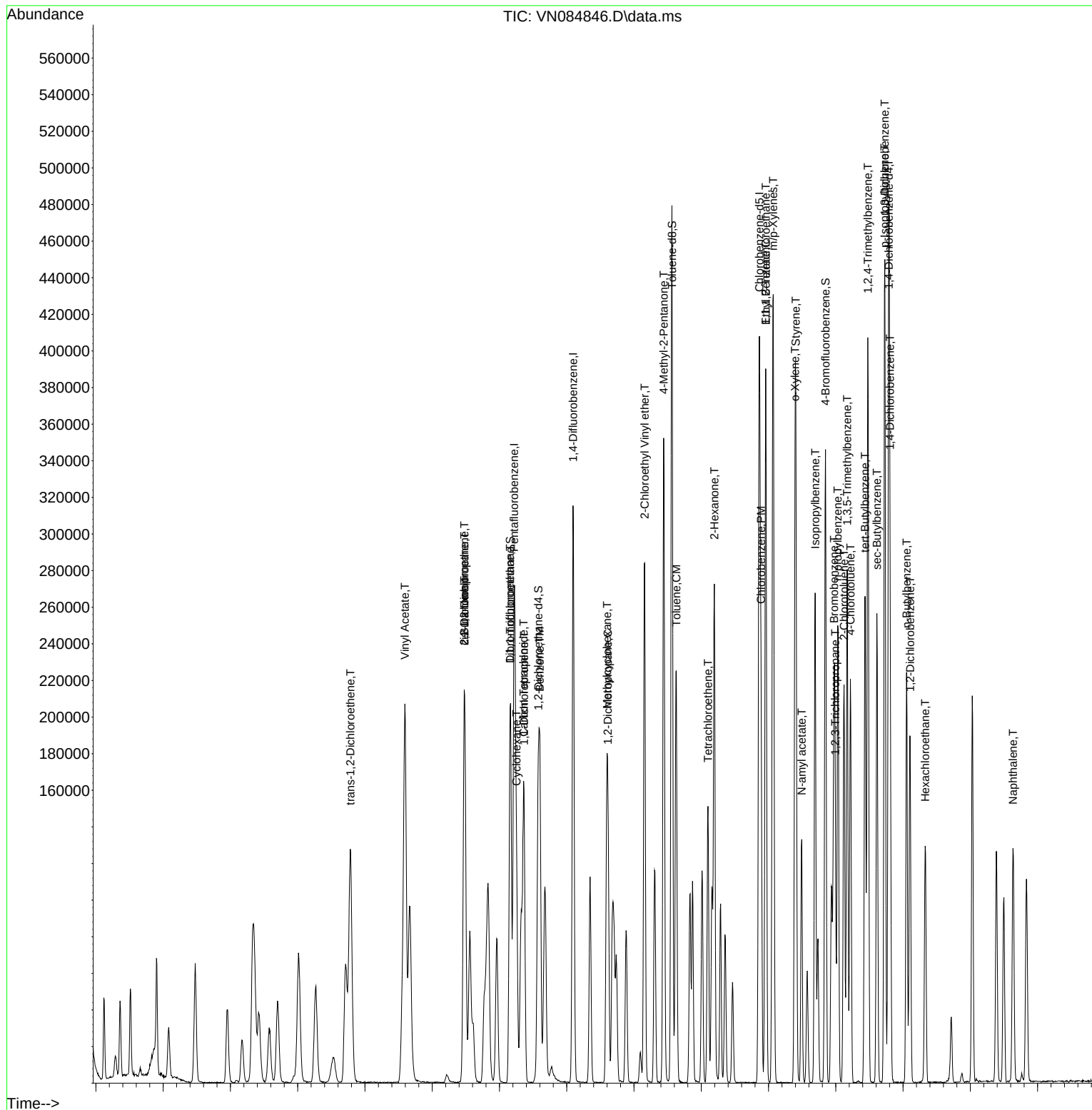
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/15/2024
Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		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	20.0		0.70	5.00	ug/Kg
100-42-5	Styrene	20.7		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		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	19.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.707			
540-36-3	1,4-Difluorobenzene	480000	8.615			
3114-55-4	Chlorobenzene-d5	412000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1108SBS01		SDG No.:	P4718
Lab Sample ID:	VY1108SBS01		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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VY110824\
 Data File : VY020223.D
 Acq On : 08 Nov 2024 11:19
 Operator : SY/MD
 Sample : VY1108SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1108SBS01

Quant Time: Nov 08 22:15:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
 Supervised By :Mahesh Dadoda 11/11/2024

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	263593	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	480169	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	412478	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	187903	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	166958	50.750	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	101.500%
35) Dibromofluoromethane	7.640	113	152271	49.878	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.760%
50) Toluene-d8	10.109	98	597036	49.131	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.260%
62) 4-Bromofluorobenzene	12.407	95	197404	50.012	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	100.020%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	41942	17.189	ug/l	99
3) Chloromethane	2.068	50	74994	18.555	ug/l	97
4) Vinyl Chloride	2.208	62	83860	19.328	ug/l	97
5) Bromomethane	2.592	94	58071	20.159	ug/l	97
6) Chloroethane	2.738	64	55691	19.888	ug/l	99
7) Trichlorofluoromethane	3.055	101	113368	21.388	ug/l	100
8) Diethyl Ether	3.452	74	32149	21.747	ug/l	82
9) 1,1,2-Trichlorotrifluo...	3.811	101	61221	20.593	ug/l	91
10) Methyl Iodide	4.007	142	55945	19.491	ug/l	# 89
11) Tert butyl alcohol	4.854	59	27360	115.620	ug/l	# 87
12) 1,1-Dichloroethene	3.793	96	57422	20.187	ug/l	# 81
13) Acrolein	3.659	56	24893	84.504	ug/l	98
14) Allyl chloride	4.385	41	100635	19.609	ug/l	# 88
15) Acrylonitrile	5.061	53	72500	107.736	ug/l	99
16) Acetone	3.872	43	78002	101.955	ug/l	87
17) Carbon Disulfide	4.104	76	161575	17.069	ug/l	99
18) Methyl Acetate	4.391	43	37350	20.807	ug/l	91
19) Methyl tert-butyl Ether	5.122	73	155652	21.751	ug/l	99
20) Methylene Chloride	4.616	84	63508	18.479	ug/l	# 77
21) trans-1,2-Dichloroethene	5.116	96	64368	20.065	ug/l	88
22) Diisopropyl ether	6.018	45	222674	20.909	ug/l	# 88
23) Vinyl Acetate	5.957	43	611393	102.010	ug/l	# 90
24) 1,1-Dichloroethane	5.915	63	126778	20.558	ug/l	95
25) 2-Butanone	6.896	43	108472	104.594	ug/l	# 87
26) 2,2-Dichloropropane	6.890	77	103895	20.249	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	75534	20.483	ug/l	83
28) Bromochloromethane	7.244	49	57361	19.865	ug/l	# 73
29) Tetrahydrofuran	7.262	42	62887	105.075	ug/l	# 83
30) Chloroform	7.421	83	128990	21.079	ug/l	100
31) Cyclohexane	7.701	56	110296	18.475	ug/l	89
32) 1,1,1-Trichloroethane	7.622	97	112619	21.079	ug/l	96
36) 1,1-Dichloropropene	7.835	75	89258	18.927	ug/l	95
37) Ethyl Acetate	6.988	43	46750	20.792	ug/l	97
38) Carbon Tetrachloride	7.817	117	95298	20.095	ug/l	98
39) Methylcyclohexane	9.109	83	111001	18.545	ug/l	# 90
40) Benzene	8.079	78	272265	19.779	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020223.D
 Acq On : 08 Nov 2024 11:19
 Operator : SY/MD
 Sample : VY1108SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1108SBS01

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 11/11/2024
 Supervised By :Mahesh Dadoda 11/11/2024

Quant Time: Nov 08 22:15:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	21885m	19.430	ug/l	
42) 1,2-Dichloroethane	8.158	62	77775	20.412	ug/l	93
43) Isopropyl Acetate	8.201	43	87572	20.254	ug/l #	91
44) Trichloroethene	8.865	130	62736	19.664	ug/l	93
45) 1,2-Dichloropropane	9.146	63	67580	20.520	ug/l	97
46) Dibromomethane	9.231	93	36747	20.592	ug/l #	87
47) Bromodichloromethane	9.420	83	96743	20.694	ug/l	98
48) Methyl methacrylate	9.219	41	40024	19.985	ug/l #	83
49) 1,4-Dioxane	9.231	88	8212	446.978	ug/l #	83
51) 4-Methyl-2-Pentanone	9.999	43	229754	103.128	ug/l	89
52) Toluene	10.170	92	168972	19.914	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	82563	20.000	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	99987	20.292	ug/l #	84
55) 1,1,2-Trichloroethane	10.572	97	45502	20.508	ug/l	88
56) Ethyl methacrylate	10.438	69	65582	20.606	ug/l #	76
57) 1,3-Dichloropropane	10.719	76	84197	20.722	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	160759	102.420	ug/l	93
59) 2-Hexanone	10.761	43	161836	101.324	ug/l	87
60) Dibromochloromethane	10.908	129	58416	20.654	ug/l	98
61) 1,2-Dibromoethane	11.011	107	42135	20.440	ug/l	99
64) Tetrachloroethene	10.646	164	55766	20.476	ug/l	92
65) Chlorobenzene	11.444	112	176523	20.085	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	58298	20.761	ug/l	98
67) Ethyl Benzene	11.517	91	325752	19.828	ug/l	97
68) m/p-Xylenes	11.627	106	244337	40.649	ug/l	92
69) o-Xylene	11.956	106	113780	19.993	ug/l	91
70) Styrene	11.969	104	194693	20.691	ug/l	96
71) Bromoform	12.133	173	30755	21.350	ug/l #	97
73) Isopropylbenzene	12.255	105	309233	20.601	ug/l	98
74) N-ethyl acetate	12.072	43	75918	20.233	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	54990	20.947	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	35235m	20.004	ug/l	
77) Bromobenzene	12.536	156	61738	20.337	ug/l	81
78) n-propylbenzene	12.596	91	384577	20.586	ug/l	96
79) 2-Chlorotoluene	12.682	91	213334	20.572	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	252266	20.933	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.304	75	16355	19.972	ug/l #	77
82) 4-Chlorotoluene	12.779	91	223419	21.131	ug/l	93
83) tert-Butylbenzene	12.999	119	222484	21.113	ug/l	94
84) 1,2,4-Trimethylbenzene	13.042	105	247789	20.759	ug/l	96
85) sec-Butylbenzene	13.176	105	332551	20.557	ug/l	98
86) p-Isopropyltoluene	13.291	119	269447	20.756	ug/l	96
87) 1,3-Dichlorobenzene	13.285	146	128275	20.800	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	126506	20.598	ug/l	96
89) n-Butylbenzene	13.621	91	266030	20.443	ug/l	97
90) Hexachloroethane	13.883	117	52805	20.568	ug/l	82
91) 1,2-Dichlorobenzene	13.663	146	109921	20.506	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	8552	21.481	ug/l	68
93) 1,2,4-Trichlorobenzene	14.925	180	56984	19.788	ug/l	97
94) Hexachlorobutadiene	15.023	225	30714	19.505	ug/l	99
95) Naphthalene	15.145	128	106502	19.785	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	46837	19.161	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

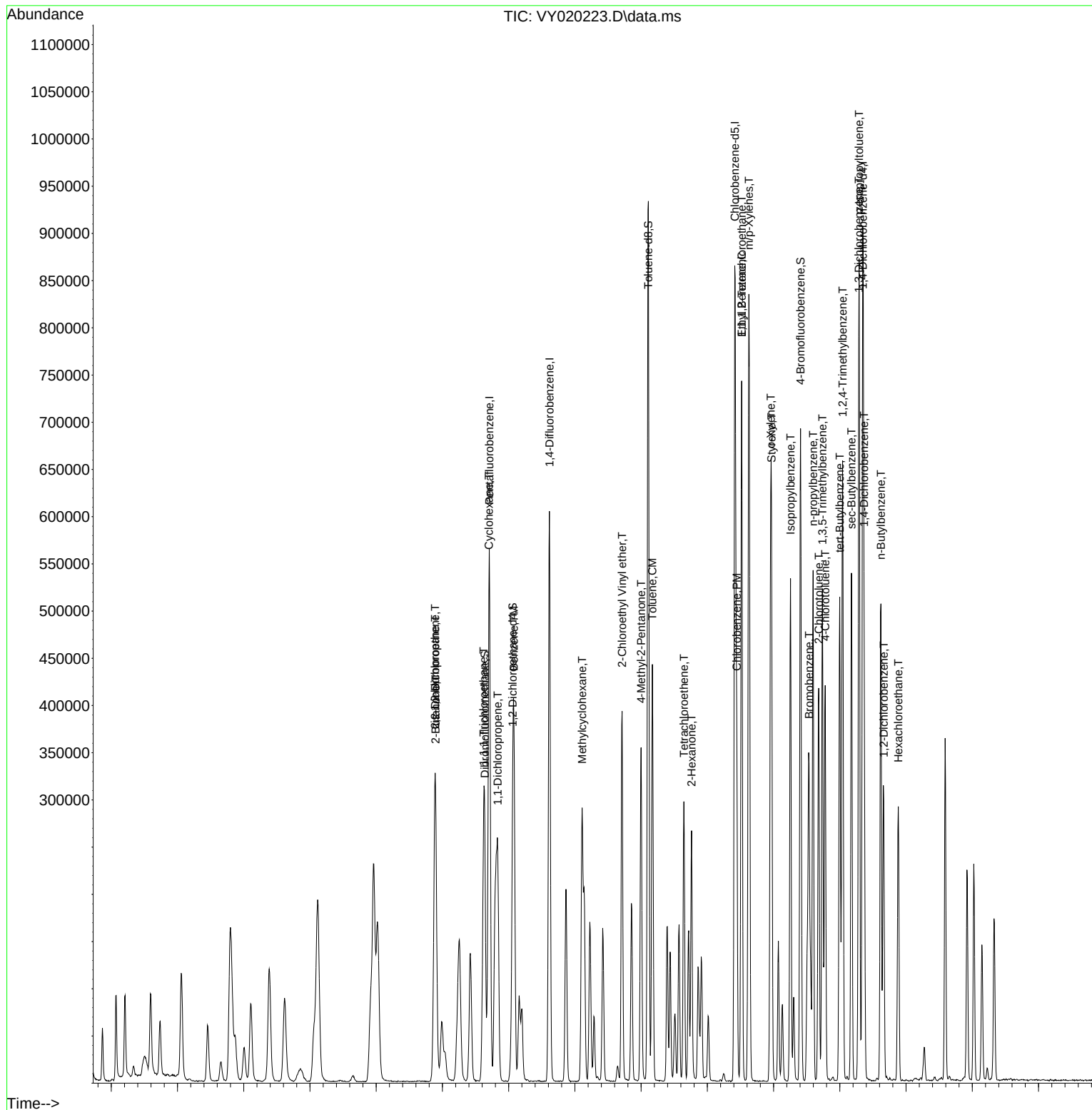
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	16.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.2		0.34	1.00	ug/L
74-83-9	Bromomethane	20.8		1.40	5.00	ug/L
75-00-3	Chloroethane	22.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.4		0.18	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	21.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.8		0.18	1.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VN1114WBSD02			SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	22.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.6		0.31	2.00	ug/L
95-47-6	o-Xylene	22.2		0.14	1.00	ug/L
100-42-5	Styrene	21.7		0.16	1.00	ug/L
75-25-2	Bromoform	21.6		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.4		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	8.218			
540-36-3	1,4-Difluorobenzene	264000	9.1			
3114-55-4	Chlorobenzene-d5	229000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.788			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VN1114WBSD02		SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084847.D
 Acq On : 14 Nov 2024 13:24
 Operator : JC\MD
 Sample : VN1114WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/15/2024
 Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 04:45:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	161141	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	229436	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112382	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	115342	49.558	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.120%
35) Dibromofluoromethane	8.165	113	91480	51.246	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.500%
50) Toluene-d8	10.565	98	331841	50.464	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.920%
62) 4-Bromofluorobenzene	12.847	95	126298	51.391	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.780%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	34657	18.709	ug/l	99
3) Chloromethane	2.359	50	39882	16.668	ug/l	97
4) Vinyl Chloride	2.512	62	42327	21.244	ug/l	97
5) Bromomethane	2.901	94	22008	20.848	ug/l	95
6) Chloroethane	3.089	64	28234	22.115	ug/l	93
7) Trichlorofluoromethane	3.477	101	64120	19.537	ug/l	99
8) Diethyl Ether	3.948	74	24623	21.268	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.359	101	36910	19.902	ug/l	95
10) Methyl Iodide	4.571	142	52362	21.126	ug/l	97
11) Tert butyl alcohol	5.530	59	32545	105.936	ug/l #	88
12) 1,1-Dichloroethene	4.330	96	35801	19.509	ug/l	90
13) Acrolein	4.171	56	32198	105.104	ug/l	98
14) Allyl chloride	5.018	41	57145	19.202	ug/l	93
15) Acrylonitrile	5.712	53	92434	103.932	ug/l	97
16) Acetone	4.424	43	73293	107.391	ug/l	96
17) Carbon Disulfide	4.706	76	97238	17.207	ug/l	97
18) Methyl Acetate	5.018	43	47690	16.766	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	122338	21.751	ug/l	98
20) Methylene Chloride	5.271	84	40866	19.964	ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	35914	19.060	ug/l	97
22) Diisopropyl ether	6.671	45	121166	20.490	ug/l	95
23) Vinyl Acetate	6.595	43	433905	106.404	ug/l	97
24) 1,1-Dichloroethane	6.559	63	72333	20.374	ug/l	100
25) 2-Butanone	7.483	43	115624	106.486	ug/l	98
26) 2,2-Dichloropropane	7.483	77	65406	21.167	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	44912	20.413	ug/l	97
28) Bromochloromethane	7.806	49	31617	22.353	ug/l	93
29) Tetrahydrofuran	7.836	42	74437	103.335	ug/l	94
30) Chloroform	7.965	83	74650	20.659	ug/l	94
31) Cyclohexane	8.247	56	60211	18.738	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	68509	20.830	ug/l	94
36) 1,1-Dichloropropene	8.365	75	50330	20.329	ug/l	99
37) Ethyl Acetate	7.553	43	48091	21.410	ug/l	98
38) Carbon Tetrachloride	8.353	117	58992	21.318	ug/l	95
39) Methylcyclohexane	9.600	83	54807	21.761	ug/l	99
40) Benzene	8.600	78	161059	20.257	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
 Data File : VN084847.D
 Acq On : 14 Nov 2024 13:24
 Operator : JC\MD
 Sample : VN1114WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/15/2024
 Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 04:45:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26930	22.294	ug/l	96
42) 1,2-Dichloroethane	8.665	62	54875	21.311	ug/l	100
43) Isopropyl Acetate	8.683	43	85877	20.118	ug/l	97
44) Trichloroethene	9.347	130	38223	20.845	ug/l	95
45) 1,2-Dichloropropane	9.618	63	39625	21.246	ug/l	97
46) Dibromomethane	9.706	93	27887	21.189	ug/l	94
47) Bromodichloromethane	9.883	83	58538	21.101	ug/l #	99
48) Methyl methacrylate	9.677	41	37031	21.183	ug/l	95
49) 1,4-Dioxane	9.694	88	13600	439.009	ug/l #	94
51) 4-Methyl-2-Pentanone	10.441	43	237670	110.992	ug/l	97
52) Toluene	10.624	92	101527	21.834	ug/l	98
53) t-1,3-Dichloropropene	10.830	75	59212	20.620	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	64268	21.146	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	37149	21.209	ug/l	98
56) Ethyl methacrylate	10.871	69	58624	23.138	ug/l	94
57) 1,3-Dichloropropane	11.159	76	64292	21.387	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	130230	109.846	ug/l	96
59) 2-Hexanone	11.194	43	173018	111.006	ug/l	96
60) Dibromochloromethane	11.359	129	44362	22.222	ug/l	99
61) 1,2-Dibromoethane	11.465	107	38628	21.535	ug/l	98
64) Tetrachloroethene	11.100	164	33486	21.942	ug/l	96
65) Chlorobenzene	11.888	112	108271	21.094	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38558	21.596	ug/l	98
67) Ethyl Benzene	11.959	91	183387	21.404	ug/l	97
68) m/p-Xylenes	12.071	106	141376	43.585	ug/l	100
69) o-Xylene	12.394	106	67347	22.194	ug/l	97
70) Styrene	12.412	104	115059	21.737	ug/l	99
71) Bromoform	12.576	173	28987	21.577	ug/l #	99
73) Isopropylbenzene	12.694	105	171691	21.801	ug/l	100
74) N-ethyl acetate	12.494	43	70330	20.982	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	54683	20.802	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	49434m	22.005	ug/l	
77) Bromobenzene	12.976	156	43721	20.651	ug/l	94
78) n-propylbenzene	13.035	91	197805	21.434	ug/l	98
79) 2-Chlorotoluene	13.124	91	131560	21.817	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	147573	22.609	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18920	19.981	ug/l	96
82) 4-Chlorotoluene	13.218	91	127715	20.125	ug/l	98
83) tert-Butylbenzene	13.435	119	122465	22.670	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	151544	22.495	ug/l	97
85) sec-Butylbenzene	13.612	105	168982	22.145	ug/l	100
86) p-Isopropyltoluene	13.729	119	141525	22.614	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	80206	19.412	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	81235	20.758	ug/l	99
89) n-Butylbenzene	14.053	91	118386	20.223	ug/l	99
90) Hexachloroethane	14.329	117	27754	19.886	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	76994	19.392	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.718	75	10107	18.979	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	40082	18.444	ug/l	97
94) Hexachlorobutadiene	15.494	225	19258	20.179	ug/l	96
95) Naphthalene	15.635	128	121654	18.702	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	38027	18.026	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

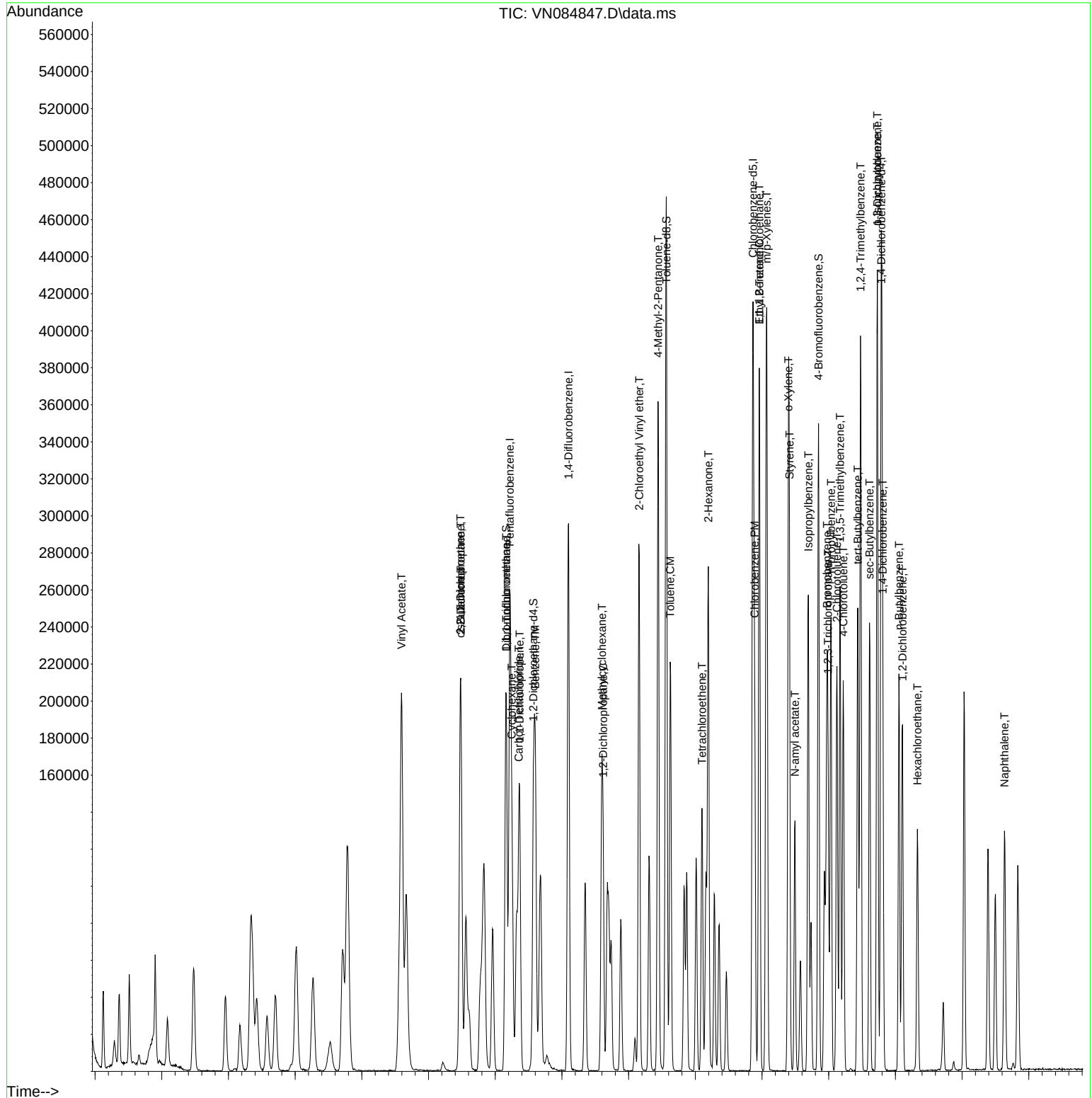
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations
APPROVED

Reviewed By : John Carlone 11/15/2024
Supervised By : Mahesh Dadoda 11/15/2024

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VY1108SBSD01			SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01			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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.3		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.1		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.7		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	20.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	21.4		0.67	5.00	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	VY1108SBSD01			SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01			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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	22.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	22.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.5		0.70	5.00	ug/Kg
100-42-5	Styrene	21.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	23.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.7		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.0		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	23.4		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.8		70 (50) - 130 (163)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (54) - 130 (147)	111%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (58) - 130 (134)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (29) - 130 (146)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	271000	7.707			
540-36-3	1,4-Difluorobenzene	485000	8.616			
3114-55-4	Chlorobenzene-d5	417000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	193000	13.347			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1108SBSD01		SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01		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
VY020224.D	1		11/08/24 11:41	VY110824

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\VY110824\
 Data File : VY020224.D
 Acq On : 08 Nov 2024 11:41
 Operator : SY/MD
 Sample : VY1108SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1108SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
 Supervised By :Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:16:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	271139	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	485080	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	417238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	193395	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	195685	57.827	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	115.660%	
35) Dibromofluoromethane	7.634	113	170852	55.397	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	110.800%	
50) Toluene-d8	10.103	98	667038	54.336	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	108.680%	
62) 4-Bromofluorobenzene	12.402	95	221103	55.449	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	110.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	49920	19.889	ug/l	97
3) Chloromethane	2.068	50	82312	19.799	ug/l	96
4) Vinyl Chloride	2.202	62	91155	20.424	ug/l	98
5) Bromomethane	2.592	94	62724	21.168	ug/l	98
6) Chloroethane	2.733	64	61200	21.247	ug/l	97
7) Trichlorofluoromethane	3.056	101	123063	22.571	ug/l	96
8) Diethyl Ether	3.458	74	34394	22.618	ug/l	78
9) 1,1,2-Trichlorotrifluo...	3.818	101	65701	21.484	ug/l	91
10) Methyl Iodide	4.001	142	62944	21.319	ug/l	# 90
11) Tert butyl alcohol	4.860	59	29773	122.315	ug/l	100
12) 1,1-Dichloroethene	3.787	96	61754	21.106	ug/l	# 80
13) Acrolein	3.653	56	25340	83.628	ug/l	99
14) Allyl chloride	4.385	41	109811	20.802	ug/l	# 89
15) Acrylonitrile	5.055	53	82269	118.850	ug/l	97
16) Acetone	3.873	43	90104	114.496	ug/l	# 84
17) Carbon Disulfide	4.110	76	175241	17.997	ug/l	100
18) Methyl Acetate	4.391	43	45306	24.537	ug/l	# 88
19) Methyl tert-butyl Ether	5.116	73	173941	23.630	ug/l	99
20) Methylene Chloride	4.616	84	72163	20.413	ug/l	# 83
21) trans-1,2-Dichloroethene	5.116	96	67144	20.348	ug/l	# 81
22) Diisopropyl ether	6.019	45	242120	22.102	ug/l	# 90
23) Vinyl Acetate	5.964	43	680864	110.440	ug/l	# 91
24) 1,1-Dichloroethane	5.915	63	136567	21.530	ug/l	96
25) 2-Butanone	6.897	43	123748	116.003	ug/l	89
26) 2,2-Dichloropropane	6.890	77	111309	21.090	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	80096	21.115	ug/l	81
28) Bromochloromethane	7.244	49	52704	17.744	ug/l	# 76
29) Tetrahydrofuran	7.262	42	73648	119.630	ug/l	# 82
30) Chloroform	7.421	83	137707	21.877	ug/l	97
31) Cyclohexane	7.701	56	117110	19.070	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	118105	21.491	ug/l	# 93
36) 1,1-Dichloropropene	7.835	75	95406	20.025	ug/l	95
37) Ethyl Acetate	6.982	43	51726	22.772	ug/l	96
38) Carbon Tetrachloride	7.817	117	100682	21.015	ug/l	95
39) Methylcyclohexane	9.110	83	119168	19.708	ug/l	90
40) Benzene	8.079	78	289675	20.831	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
 Data File : VY020224.D
 Acq On : 08 Nov 2024 11:41
 Operator : SY/MD
 Sample : VY1108SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1108SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
 Supervised By :Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:16:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	24800	21.796	ug/l	92
42) 1,2-Dichloroethane	8.159	62	86471	22.465	ug/l	94
43) Isopropyl Acetate	8.201	43	99253	22.723	ug/l #	90
44) Trichloroethene	8.866	130	68099	21.129	ug/l	91
45) 1,2-Dichloropropane	9.140	63	72909	21.914	ug/l	97
46) Dibromomethane	9.231	93	39224	21.758	ug/l #	88
47) Bromodichloromethane	9.420	83	104768	22.184	ug/l	97
48) Methyl methacrylate	9.219	41	47828	23.640	ug/l #	82
49) 1,4-Dioxane	9.225	88	9508	512.279	ug/l #	95
51) 4-Methyl-2-Pentanone	10.000	43	271628	120.689	ug/l	89
52) Toluene	10.170	92	183058	21.355	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	92142	22.094	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	107858	21.668	ug/l #	86
55) 1,1,2-Trichloroethane	10.573	97	51284	22.880	ug/l	95
56) Ethyl methacrylate	10.439	69	73975	23.007	ug/l #	74
57) 1,3-Dichloropropane	10.719	76	93073	22.675	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	182559	115.131	ug/l	92
59) 2-Hexanone	10.762	43	187054	115.928	ug/l	86
60) Dibromochloromethane	10.908	129	65059	22.770	ug/l	100
61) 1,2-Dibromoethane	11.012	107	46897	22.520	ug/l	99
64) Tetrachloroethene	10.646	164	58916	21.386	ug/l	91
65) Chlorobenzene	11.438	112	190748	21.456	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	64037	22.545	ug/l	98
67) Ethyl Benzene	11.518	91	352732	21.225	ug/l	97
68) m/p-Xylenes	11.627	106	258647	42.539	ug/l	91
69) o-Xylene	11.957	106	123837	21.512	ug/l	93
70) Styrene	11.969	104	207317	21.781	ug/l	95
71) Bromoform	12.133	173	34348	23.572	ug/l #	96
73) Isopropylbenzene	12.255	105	334466	21.649	ug/l	97
74) N-ethyl acetate	12.072	43	88072	22.805	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	61424	22.733	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	43978m	24.259	ug/l	
77) Bromobenzene	12.530	156	68337	21.871	ug/l	81
78) n-propylbenzene	12.597	91	410166	21.332	ug/l	96
79) 2-Chlorotoluene	12.676	91	228128	21.374	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	267878	21.597	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	18151	21.536	ug/l #	75
82) 4-Chlorotoluene	12.774	91	237233	21.800	ug/l	94
83) tert-Butylbenzene	12.999	119	238522	21.992	ug/l	94
84) 1,2,4-Trimethylbenzene	13.042	105	262514	21.368	ug/l	96
85) sec-Butylbenzene	13.176	105	357370	21.464	ug/l	97
86) p-Isopropyltoluene	13.292	119	286887	21.472	ug/l	96
87) 1,3-Dichlorobenzene	13.286	146	137025	21.588	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	133887	21.181	ug/l	95
89) n-Butylbenzene	13.615	91	281888	21.046	ug/l	97
90) Hexachloroethane	13.883	117	57610	21.802	ug/l	81
91) 1,2-Dichlorobenzene	13.658	146	121185	21.965	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	9590	23.404	ug/l	72
93) 1,2,4-Trichlorobenzene	14.919	180	62072	20.943	ug/l	97
94) Hexachlorobutadiene	15.023	225	33501	20.671	ug/l	97
95) Naphthalene	15.145	128	122076	22.034	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	51280	20.382	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

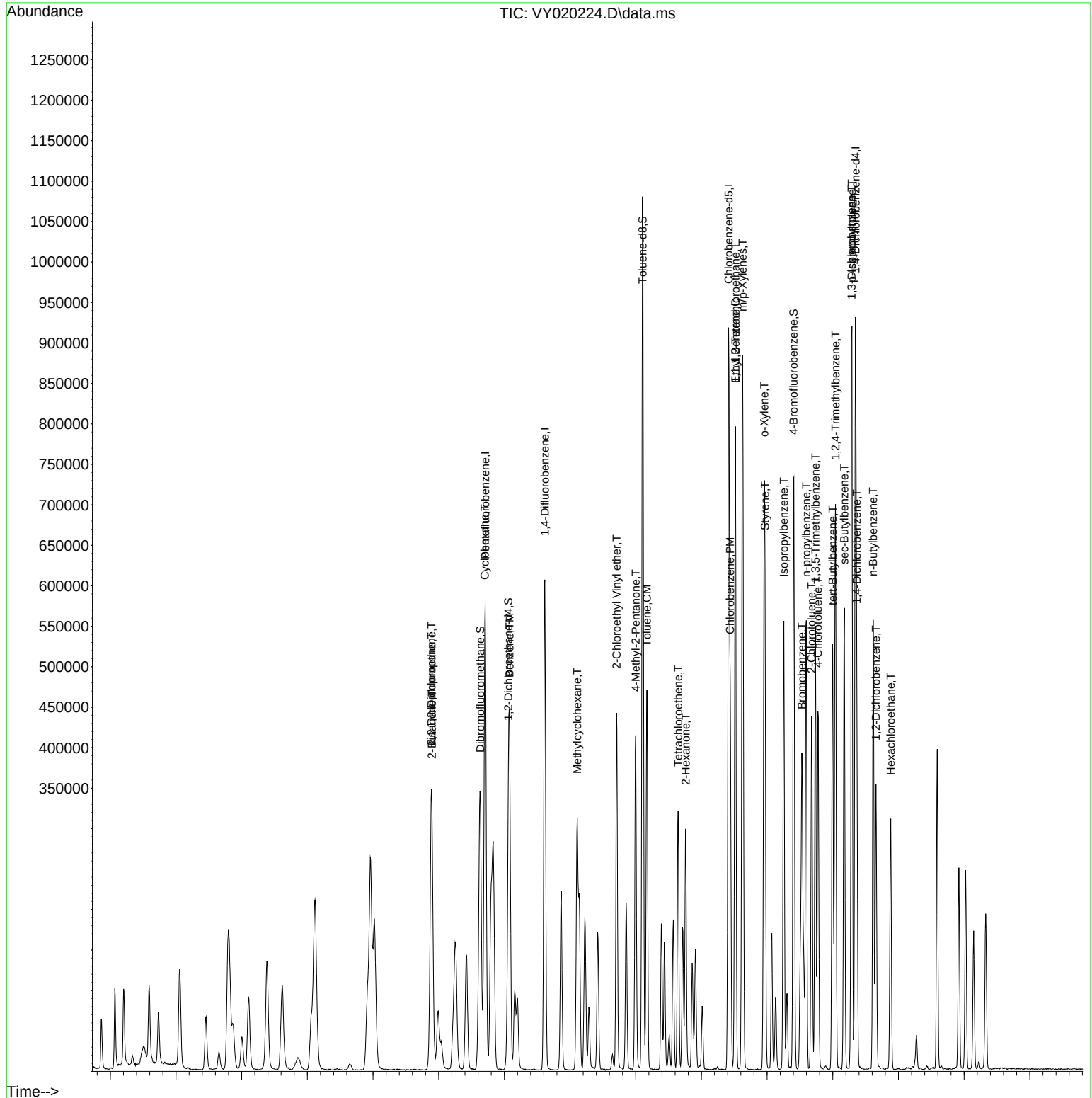
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 11/11/2024
Supervised By : Semsettin Yesilyurt 11/11/2024

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCC050	VN084579.D	trans-1,4-Dichloro-2-butene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn103024

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VN111424

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084842.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VSTDCCC050	VN084842.D	trans-1,4-Dichloro-2-but ene	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VN1114WBS02	VN084846.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:19 AM	MMDadoda	11/15/2024 3:54:24 PM	Peak Integrated by Software
VN1114WBSD0 2	VN084847.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:24 AM	MMDadoda	11/15/2024 3:54:26 PM	Peak Integrated by Software
VSTDCCC050	VN084865.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:40 AM	MMDadoda	11/15/2024 3:54:27 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDIC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDIC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDIC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDIC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDIC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vy110824

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020221.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:56 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	1,2,3-Trichloropropane	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	Methacrylonitrile	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBSD0 1	VY020224.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:58 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VSTDCCC050	VY020237.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:59 PM	SAM	11/11/2024 1:01:04 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM
Supervise By	Maresh Dadoda	Supervise On	11/15/2024 3:54:33 PM
SubDirectory	VN111424	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131460		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131461,VP131462		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084841.D	14 Nov 2024 08:53	JC\MD	Ok
2	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	JC\MD	Ok,M
3	VN1114MBL01	VN084843.D	14 Nov 2024 10:28	JC\MD	Ok
4	VN1114WBL01	VN084844.D	14 Nov 2024 10:52	JC\MD	Ok
5	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	JC\MD	Not Ok
6	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	JC\MD	Ok,M
7	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	JC\MD	Ok,M
8	P4844-01	VN084848.D	14 Nov 2024 13:48	JC\MD	ReRun
9	IBLK	VN084849.D	14 Nov 2024 14:12	JC\MD	Ok
10	P4844-02	VN084850.D	14 Nov 2024 14:36	JC\MD	Ok
11	P4718-05	VN084851.D	14 Nov 2024 14:59	JC\MD	Ok
12	P4819-01	VN084852.D	14 Nov 2024 15:23	JC\MD	Ok
13	P4718-04	VN084853.D	14 Nov 2024 15:47	JC\MD	Ok
14	PB164945TB	VN084854.D	14 Nov 2024 16:11	JC\MD	Ok
15	PB164927TB	VN084855.D	14 Nov 2024 16:35	JC\MD	Ok
16	P4821-04	VN084856.D	14 Nov 2024 16:59	JC\MD	Ok
17	P4821-08	VN084857.D	14 Nov 2024 17:23	JC\MD	Ok
18	P4823-04	VN084858.D	14 Nov 2024 17:47	JC\MD	Ok
19	P4833-04	VN084859.D	14 Nov 2024 18:10	JC\MD	Ok
20	P4833-08	VN084860.D	14 Nov 2024 18:34	JC\MD	Ok
21	P4770-01	VN084861.D	14 Nov 2024 18:58	JC\MD	ReRun

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM
SubDirectory	VN111424	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131460		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131461,VP131462		

22	P4770-02	VN084862.D	14 Nov 2024 19:22	JC\MD	ReRun
23	P4770-03	VN084863.D	14 Nov 2024 19:46	JC\MD	Ok
24	IBLK	VN084864.D	14 Nov 2024 20:10	JC\MD	Ok
25	VSTDCCC050	VN084865.D	14 Nov 2024 20:34	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM
SubDirectory	VY103024	HP Acquire Method	HP Processing Method 82y103024s.m
STD. NAME	STD REF.#		
Tune/Reschk	VP131199		
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206		
CCC			
Internal Standard/PEM	VP128297		
ICV/I.BLK	VP131207		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDIC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDIC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDIC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDIC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDIC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDIC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY110824

Review By	Maresh Dadoda	Review On	11/9/2024 4:18:55 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM		
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP131341			
CCC		VP131342,VP131343			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020220.D	08 Nov 2024 08:45	SY/MD	Ok
2	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	SY/MD	Ok,M
3	VY1108SBL01	VY020222.D	08 Nov 2024 10:40	SY/MD	Ok
4	VY1108SBS01	VY020223.D	08 Nov 2024 11:19	SY/MD	Ok,M
5	VY1108SBS01	VY020224.D	08 Nov 2024 11:41	SY/MD	Ok,M
6	P4734-01	VY020225.D	08 Nov 2024 12:05	SY/MD	Ok
7	P4720-02	VY020226.D	08 Nov 2024 12:28	SY/MD	ReRun
8	P4739-03RE	VY020227.D	08 Nov 2024 12:51	SY/MD	Not Ok
9	P4720-02RE	VY020228.D	08 Nov 2024 13:15	SY/MD	Confirms
10	P4739-15	VY020229.D	08 Nov 2024 13:38	SY/MD	Ok
11	P4722-01	VY020230.D	08 Nov 2024 14:02	SY/MD	Ok
12	P4771-07	VY020231.D	08 Nov 2024 14:25	SY/MD	Ok
13	P4771-05	VY020232.D	08 Nov 2024 14:48	SY/MD	Ok
14	P4718-01	VY020233.D	08 Nov 2024 15:12	SY/MD	Ok
15	P4718-02	VY020234.D	08 Nov 2024 15:35	SY/MD	Ok
16	P4756-03	VY020235.D	08 Nov 2024 15:59	SY/MD	Ok
17	P4737-01	VY020236.D	08 Nov 2024 17:49	SY/MD	Ok
18	VSTDCCC050	VY020237.D	08 Nov 2024 18:12	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:18:30 AM
SubDirectory	VN103024	HP Acquire Method	MSVOA_N HP Processing Method 82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194,VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131194.VP131195			
Initial Calibration Stds		VP131185,VP131186,VP131187,VP131188,VP131189,VP131190			
CCC		VP131191,VP131192			
Internal Standard/PEM		VP128298			
ICV/I.BLK		VP131193			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM
Supervise By	Maresh Dadoda	Supervise On	11/15/2024 3:54:33 PM
SubDirectory	VN111424	HP Acquire Method	HP Processing Method 82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP131460
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131461,VP131462

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084841.D	14 Nov 2024 08:53		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	V13516	JC\MD	Ok,M
3	VN1114MBL01	VN1114MBL01	VN084843.D	14 Nov 2024 10:28		JC\MD	Ok
4	VN1114WBL01	VN1114WBL01	VN084844.D	14 Nov 2024 10:52		JC\MD	Ok
5	VN1114WBS01	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	Recovery fail	JC\MD	Not Ok
6	VN1114WBS02	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	BS high for com#69	JC\MD	Ok,M
7	VN1114WBSD02	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	BSD high for com#69	JC\MD	Ok,M
8	P4844-01	241113075-01-VOA	VN084848.D	14 Nov 2024 13:48	vial A pH#6.0 BS/BS high	JC\MD	ReRun
9	IBLK	IBLK	VN084849.D	14 Nov 2024 14:12		JC\MD	Ok
10	P4844-02	241113050-06-TRIP-BL	VN084850.D	14 Nov 2024 14:36	vial A pH#6.0	JC\MD	Ok
11	P4718-05	TB-11042024	VN084851.D	14 Nov 2024 14:59	vial A pH<2 TB	JC\MD	Ok
12	P4819-01	1594	VN084852.D	14 Nov 2024 15:23	vial A pH#5.0	JC\MD	Ok
13	P4718-04	WB-307-SW	VN084853.D	14 Nov 2024 15:47	vial A pH<2	JC\MD	Ok
14	PB164945TB	PB164945TB	VN084854.D	14 Nov 2024 16:11		JC\MD	Ok
15	PB164927TB	PB164927TB	VN084855.D	14 Nov 2024 16:35		JC\MD	Ok
16	P4821-04	BP-F-24	VN084856.D	14 Nov 2024 16:59	vial A pH#5.0	JC\MD	Ok
17	P4821-08	BP-F-2	VN084857.D	14 Nov 2024 17:23	vial A pH#5.0	JC\MD	Ok
18	P4823-04	MH-4	VN084858.D	14 Nov 2024 17:47	vial A pH#5.0	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM
Supervise By	Maresh Dadoda	Supervise On	11/15/2024 3:54:33 PM
SubDirectory	VN111424	HP Acquire Method	HP Processing Method 82N103024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131460		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP131461,VP131462		

19	P4833-04	MH-731	VN084859.D	14 Nov 2024 18:10	vial A pH#5.0	JC\MD	Ok
20	P4833-08	TP-2	VN084860.D	14 Nov 2024 18:34	vial A pH#5.0	JC\MD	Ok
21	P4770-01	MW-1	VN084861.D	14 Nov 2024 18:58	vial A pH<2 BS/BSD high	JC\MD	ReRun
22	P4770-02	MW-3	VN084862.D	14 Nov 2024 19:22	vial A pH<2 BS/BSD high	JC\MD	ReRun
23	P4770-03	MW-10	VN084863.D	14 Nov 2024 19:46	vial A pH<2	JC\MD	Ok
24	IBLK	IBLK	VN084864.D	14 Nov 2024 20:10		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN084865.D	14 Nov 2024 20:34		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY103024

Review By	Maresh Dadoda	Review On	11/1/2024 5:33:31 PM
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM
SubDirectory	VY103024	HP Acquire Method	HP Processing Method 82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110824

Review By	Maresh Dadoda	Review On	11/9/2024 4:18:55 AM
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y HP Processing Method 82y103024s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP131341		
CCC	VP131342,VP131343		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020220.D	08 Nov 2024 08:45		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	CCC high for com#16	SY/MD	Ok,M
3	VY1108SBL01	VY1108SBL01	VY020222.D	08 Nov 2024 10:40		SY/MD	Ok
4	VY1108SBS01	VY1108SBS01	VY020223.D	08 Nov 2024 11:19		SY/MD	Ok,M
5	VY1108SBSD01	VY1108SBSD01	VY020224.D	08 Nov 2024 11:41		SY/MD	Ok,M
6	P4734-01	EO-03-11062024	VY020225.D	08 Nov 2024 12:05	vial-B	SY/MD	Ok
7	P4720-02	JC-701-VOC-01	VY020226.D	08 Nov 2024 12:28	ISTD Fail vial-A	SY/MD	ReRun
8	P4739-03RE	TP-14-VOCRE	VY020227.D	08 Nov 2024 12:51	CCC high;Surrogate fail;Not match for comp. #39 vila-B	SY/MD	Not Ok
9	P4720-02RE	JC-701-VOC-01RE	VY020228.D	08 Nov 2024 13:15	ISTD Fail vial-B	SY/MD	Confirms
10	P4739-15	TP-11-VOC	VY020229.D	08 Nov 2024 13:38	vial-B	SY/MD	Ok
11	P4722-01	WC-1(5.5)	VY020230.D	08 Nov 2024 14:02	Vial B	SY/MD	Ok
12	P4771-07	P-2	VY020231.D	08 Nov 2024 14:25	Vial A	SY/MD	Ok
13	P4771-05	P-1	VY020232.D	08 Nov 2024 14:48	Vial A	SY/MD	Ok
14	P4718-01	WB-307-SB01	VY020233.D	08 Nov 2024 15:12	Vial A	SY/MD	Ok
15	P4718-02	WB-307-SB02	VY020234.D	08 Nov 2024 15:35	Vial A	SY/MD	Ok
16	P4756-03	BP-B4-VOC	VY020235.D	08 Nov 2024 15:59	vial-A	SY/MD	Ok
17	P4737-01	TP2	VY020236.D	08 Nov 2024 17:49	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM				
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m		
STD. NAME	STD REF.#						
Tune/Reschk Initial Calibration Stds	VP131341						
CCC	VP131342,VP131343						
Internal Standard/PEM	VP128297						
ICV/I.BLK							
Surrogate Standard							
MS/MSD Standard							
LCS Standard							
18	VSTDCCC050	VSTDCCC050EC	VY020237.D	08 Nov 2024 18:12		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/6/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 11/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133300

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
P4452-04	ETGI-285	1	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4706-01	TR-04-110424	2	1.16	8.71	9.87	9.3	93.5	
P4706-02	TR-04-110424-E2	3	1.17	8.55	9.72	8.81	89.4	
P4707-01	HD-02-110424	4	1.18	8.57	9.75	9.21	93.7	
P4707-02	HD-02-110424-E2	5	1.14	8.40	9.54	9.07	94.4	
P4708-01	OR-02-110424	6	1.15	8.66	9.81	9.26	93.6	
P4708-02	OR-02-110424-E2	7	1.19	8.76	9.95	9.39	93.6	
P4709-01	HR-02-110424	8	1.16	8.71	9.87	8.79	87.6	
P4709-02	HR-02-110424-E2	9	1.14	8.82	9.96	8.76	86.4	
P4709-03	HR-03-110424	10	1.15	8.83	9.98	9.32	92.5	
P4709-04	HR-03-110424-E2	11	1.19	8.48	9.67	8.9	90.9	
P4718-01	WB-307-SB01	12	1.17	8.40	9.57	7.72	78.0	
P4718-02	WB-307-SB02	13	1.15	8.83	9.98	8.00	77.6	
P4719-01	BAYAVE-STOCKPILE	14	1.16	8.48	9.64	9.42	97.4	
P4719-02	BAYAVE-STOCKPILE-E2	15	1.17	8.67	9.84	9.3	93.8	

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

WORKLIST(Hardcopy Internal Chain)

133300

WorkList Name : %1-110524

WorkList ID : 185126

Department : Wet-Chemistry

Date : 11-05-2024 08:12:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-04	ETGI-285	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/18/2024	Chemtech -SO
P4706-01	TR-04-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4706-02	TR-04-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4707-01	HD-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4707-02	HD-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4708-01	OR-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4708-02	OR-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-01	HR-02-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-02	HR-02-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-03	HR-03-110424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4709-04	HR-03-110424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4718-01	WB-307-SB01	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/04/2024	Chemtech -SO
P4718-02	WB-307-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L21	11/04/2024	Chemtech -SO
P4719-01	BAYAVE-STOCKPILE	Solid	Percent Solids	Cool 4 deg C	PORT06	L21	11/04/2024	Chemtech -SO
P4719-02	BAYAVE-STOCKPILE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	11/05/2024	Chemtech -SO
					PSEG03	K21	11/05/2024	Chemtech -SO

Date/Time 11/05/24 15:40

Raw Sample Received by: ad woc

Raw Sample Relinquished by: ad woc

Date/Time 11/05/24

Raw Sample Received by: ad woc

Raw Sample Relinquished by: ad woc



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. **P4718**
QUOTE NO.
COC Number **2042034**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Glannett Fleming
ADDRESS: 1010 Adams Avenue
CITY: Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-801-8362 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's sep. of SB
PROJECT NO.: 9500000218 LOCATION: Keating NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bamays.com
PHONE: 610-801-8362 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 984 Sheffield St.
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samuel PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

1. TA VOC+10
2. TA PAH
3. TAH NPAHs
4. PCB's
5. CAHs, G/LV
6. EPH
7. TOX
8. EDLs
9. RCRA Parameters

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A		B		F					
1.	<u>WB-307-SW</u>	<u>GW</u>		<u>X</u>	<u>11/04</u>	<u>8:20</u>	<u>7</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
2.	<u>WB-307-SB01</u>	<u>S</u>	<u>X</u>		<u>11/04</u>	<u>9:45</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
3.	<u>WB-307-SB02</u>	<u>S</u>	<u>X</u>		<u>11/04</u>	<u>10:45</u>	<u>10</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
4.	<u>TB-11042024</u>																
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Yanda</u>	DATE/TIME: <u>11/6/24 11:19</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>4.0</u> °C Comments: <u>No Ice.</u>
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u>11/5/2024</u>	RECEIVED BY: 2. <u>[Signature]</u>	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>11/5/2024</u>	RECEIVED BY: 3. <u>[Signature]</u>	

Page ____ of ____

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

Shipment Complete
☐ YES ☐ NO



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4718	PORT06	Order Date : 11/5/2024 1:31:00 PM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 11/5/2024 12:15:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4718-01	WB-307-SB01	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
P4718-02	WB-307-SB02	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
P4718-04	WB-307-SW	Water	11/04/2024	08:20					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4718-05	TB-11042024	Water	11/04/2024	00:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :



Date / Time :

11.5.2024 14:27

Received By :



Date / Time :

11.5.2024 14:27

Storage Area : VOA Refridgerator Room