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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	P5093	**OrderDate:**	12/4/2024 12:24:38 PM
Client:	R3M Engineering, Inc.	**Project:**	MC054.36 23-8-1 LM - Landing Lane New Brunswick
Contact:	Stacey L. Felts-Bock	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5093-01	**LL-001**	**Water**			**12/04/24**			**12/04/24**
			VOC-TCLVOA-10	8260-Low			12/04/24	
P5093-02	**LL-001-FB-12-4-24**	**Water**			**12/04/24**			**12/04/24**
			VOC-TCLVOA-10	8260-Low			12/04/24	
P5093-03	**TB-12-4-24**	**Water**			**12/04/24**			**12/04/24**
			VOC-TCLVOA-10	8260-Low			12/04/24	

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Hit Summary Sheet
SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**LL-001**							
P5093-01	LL-001	Water	unknown1.593	* 8.10	J	0	0	ug/L
			Total Tics :	8.10				
			Total Concentration:	8.10				

QC SUMMARY

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Surrogate Summary

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5093-01	LL-001	1,2-Dichloroethane-d4	50	52.6	105	70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92	70 (75)	130 (124)
		Toluene-d8	50	50.2	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99	70 (77)	130 (121)
P5093-02	LL-001-FB-12-4-24	1,2-Dichloroethane-d4	50	53.4	107	70 (74)	130 (125)
		Dibromofluoromethane	50	45.7	91	70 (75)	130 (124)
		Toluene-d8	50	48.7	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99	70 (77)	130 (121)
P5093-03	TB-12-4-24	1,2-Dichloroethane-d4	50	53.0	106	70 (74)	130 (125)
		Dibromofluoromethane	50	45.3	91	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99	70 (77)	130 (121)
VX1204WBL01	VX1204WBL01	1,2-Dichloroethane-d4	50	52.1	104	70 (74)	130 (125)
		Dibromofluoromethane	50	46.1	92	70 (75)	130 (124)
		Toluene-d8	50	49.2	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
VX1204WBS01	VX1204WBS01	1,2-Dichloroethane-d4	50	56.1	112	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)
VX1204WBSD0	VX1204WBSD01	1,2-Dichloroethane-d4	50	55.3	111	70 (74)	130 (125)
		Dibromofluoromethane	50	52.9	106	70 (75)	130 (124)
		Toluene-d8	50	51.9	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.7	109	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1204WBS01	Dichlorodifluoromethane	20	17.5	ug/L	88			40 (69)	160 (116)	
	Chloromethane	20	18.3	ug/L	92			40 (65)	160 (116)	
	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	Bromomethane	20	21.5	ug/L	108			40 (58)	160 (125)	
	Chloroethane	20	21.9	ug/L	110			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.5	ug/L	98			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/L	101			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.6	ug/L	98			70 (74)	130 (110)	
	Acetone	100	99.4	ug/L	99			40 (60)	160 (125)	
	Carbon disulfide	20	15.4	ug/L	77			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.8	ug/L	109			70 (78)	130 (114)	
	Methyl Acetate	20	21.5	ug/L	108			70 (67)	130 (125)	
	Methylene Chloride	20	19.5	ug/L	98			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.8	ug/L	99			70 (75)	130 (108)	
	1,1-Dichloroethane	20	21.0	ug/L	105			70 (78)	130 (112)	
	Cyclohexane	20	20.2	ug/L	101			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.2	ug/L	96			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.3	ug/L	102			70 (77)	130 (110)	
	Bromochloromethane	20	20.4	ug/L	102			70 (70)	130 (124)	
	Chloroform	20	21.7	ug/L	109			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.5	ug/L	108			70 (80)	130 (108)	
	Methylcyclohexane	20	19.0	ug/L	95			70 (72)	130 (115)	
	Benzene	20	20.0	ug/L	100			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	17.3	ug/L	86			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.8	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	19.8	ug/L	99			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	20.5	ug/L	103			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.7	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	18.4	ug/L	92			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.7	ug/L	104			70 (81)	130 (110)	
	Tetrachloroethene	20	20.3	ug/L	102			70 (67)	130 (123)	
	Chlorobenzene	20	20.2	ug/L	101			70 (82)	130 (109)	
	Ethyl Benzene	20	21.0	ug/L	105			70 (83)	130 (109)	
	m/p-Xylenes	40	41.5	ug/L	104			70 (82)	130 (110)	
	o-Xylene	20	21.1	ug/L	106			70 (83)	130 (109)	
	Styrene	20	20.5	ug/L	103			70 (80)	130 (111)	
	Bromoform	20	17.3	ug/L	86			70 (79)	130 (109)	
	Isopropylbenzene	20	21.6	ug/L	108			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.0	ug/L	105			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1204WBS01	1,2-Dibromo-3-Chloropropane	20	19.1	ug/L	96			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.4	ug/L	97			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	19.8	ug/L	99			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1204WBSD01	Dichlorodifluoromethane	20	17.1	ug/L	86	2		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.2	ug/L	91	1		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.4	ug/L	92	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.8	ug/L	104	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	22.3	ug/L	112	2		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	21.5	ug/L	108	10		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99	2		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.0	ug/L	95	3		70 (74)	130 (110)	20 (20)
	Acetone	100	98.3	ug/L	98	1		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	15.9	ug/L	79	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.8	ug/L	109	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	21.5	ug/L	108	0		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.4	ug/L	97	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.5	ug/L	98	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.9	ug/L	104	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.9	ug/L	100	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	3		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.0	ug/L	100	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	20.1	ug/L	101	1		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.2	ug/L	106	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	21.5	ug/L	108	0		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	20.5	ug/L	103	8		70 (72)	130 (115)	20 (20)
	Benzene	20	20.1	ug/L	101	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.4	ug/L	107	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.3	ug/L	86	0		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.4	ug/L	107	3		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.4	ug/L	102	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		40 (74)	160 (118)	20 (20)
	Toluene	20	21.2	ug/L	106	3		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.5	ug/L	103	6		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.4	ug/L	102	4		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.6	ug/L	108	4		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	19.6	ug/L	98	6		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.9	ug/L	110	6		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	20.3	ug/L	102	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.4	ug/L	102	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.2	ug/L	106	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.0	ug/L	105	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	21.2	ug/L	106	0		70 (83)	130 (109)	20 (20)
	Styrene	20	20.8	ug/L	104	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	17.9	ug/L	90	5		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.2	ug/L	106	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107	0		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.9	ug/L	104	2		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.2	ug/L	101	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.6	ug/L	103	2		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044113.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1204WBSD01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96	0		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	19.1	ug/L	96	1		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.3	ug/L	102	3		70 (76)	130 (114)	20 (20)

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1204WBL01

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: VX044111.D Lab Sample ID: VX1204WBL01

Date Analyzed: 12/04/2024 Time Analyzed: 12:58

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1204WBS01	VX1204WBS01	VX044112.D	12/04/2024
VX1204WBSD01	VX1204WBSD01	VX044113.D	12/04/2024
LL-001	P5093-01	VX044131.D	12/04/2024
LL-001-FB-12-4-24	P5093-02	VX044132.D	12/04/2024
TB-12-4-24	P5093-03	VX044133.D	12/04/2024

COMMENTS:

Raw Data: **VX043924.D**

Alliance TECHNICAL GROUP
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: VX043924.D BFB Injection Date: 11/21/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	4.8 (6.8) 1
176	95.0 - 101.0% of mass 174	67.9 (96.4) 1
177	5.0 - 9.0% of mass 176	4.9 (7.3) 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
VSTDICC001	VSTDICC001	VX043925.D	11/21/2024	09:47
VSTDICC005	VSTDICC005	VX043926.D	11/21/2024	10:14
VSTDICC020	VSTDICC020	VX043927.D	11/21/2024	10:37
VSTDICCC050	VSTDICCC050	VX043928.D	11/21/2024	11:17
VSTDICC100	VSTDICC100	VX043929.D	11/21/2024	11:40
VSTDICC150	VSTDICC150	VX043930.D	11/21/2024	12:03

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: VX044108.D BFB Injection Date: 12/04/2024

Instrument ID: MSVOA_X BFB Injection Time: 11:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	56.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	64.9 (95.1) 1
177	5.0 - 9.0% of mass 176	4.3 (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	VX044109.D	12/04/2024	12:12
VX1204WBL01	VX1204WBL01	VX044111.D	12/04/2024	12:58
VX1204WBS01	VX1204WBS01	VX044112.D	12/04/2024	13:21
VX1204WBSD01	VX1204WBSD01	VX044113.D	12/04/2024	13:47
LL-001	P5093-01	VX044131.D	12/04/2024	20:44
LL-001-FB-12-4-24	P5093-02	VX044132.D	12/04/2024	21:07
TB-12-4-24	P5093-03	VX044133.D	12/04/2024	21:30

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: VX044109.D Date Analyzed: 12/04/2024

Instrument ID: MSVOA_X Time Analyzed: 12:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	121433	5.54	212858	6.76	180347	10.05
UPPER LIMIT	242866	6.038	425716	7.257	360694	10.549
LOWER LIMIT	60716.5	5.038	106429	6.257	90173.5	9.549
EPA SAMPLE NO.						
LL-001	106401	5.54	205400	6.76	179121	10.06
LL-001-FB-12-4-24	110604	5.54	218721	6.76	189224	10.06
TB-12-4-24	110240	5.54	214620	6.76	184877	10.06
VX1204WBL01	113722	5.55	219894	6.76	188758	10.05
VX1204WBS01	120163	5.54	225592	6.76	189832	10.06
VX1204WBSD01	115232	5.54	206872	6.76	178913	10.06

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

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

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

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: VX044109.D Date Analyzed: 12/04/2024

Instrument ID: MSVOA_X Time Analyzed: 12:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	85782	12.018				
UPPER LIMIT	171564	12.518				
LOWER LIMIT	42891	11.518				
EPA SAMPLE NO.						
LL-001	75267	12.02				
LL-001-FB-12-4-24	79833	12.02				
TB-12-4-24	78562	12.02				
VX1204WBL01	77704	12.02				
VX1204WBS01	84893	12.02				
VX1204WBSD01	82606	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VX044131.D**

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044131.D	1		12/04/24 20:44	VX120424

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

Raw Data: **VX044131.D**

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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044131.D	1		12/04/24 20:44	VX120424

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	52.6		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.544			
540-36-3	1,4-Difluorobenzene	205000	6.757			
3114-55-4	Chlorobenzene-d5	179000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	75300	12.018			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VX044131.D**

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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044131.D	1		12/04/24 20:44	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
	unknown1.593	8.10	J		1.59	ug/L

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

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

Sample Results: **VX044131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Quant Time: Dec 05 00:38:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

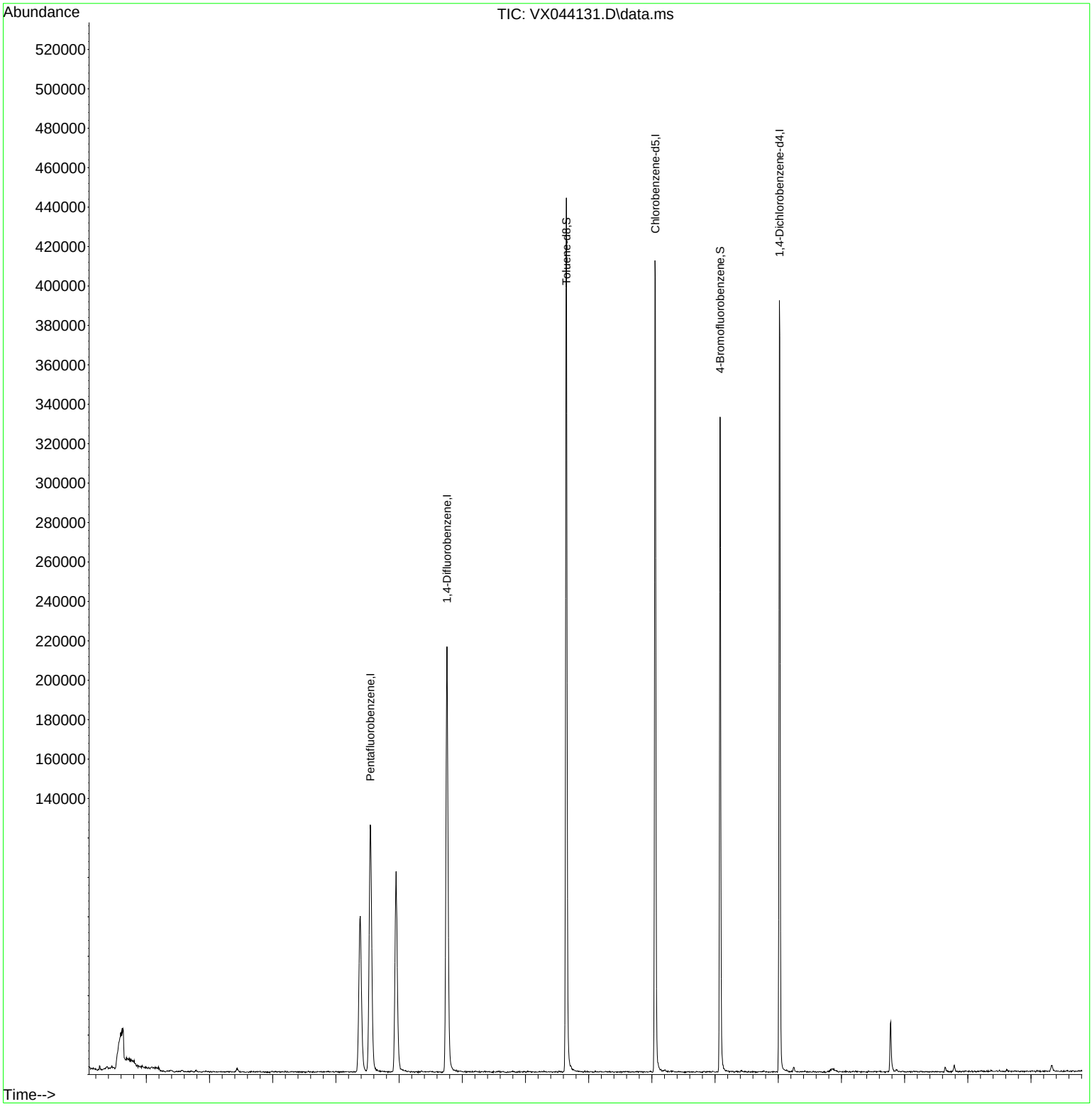
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	106401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205400	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	179121	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75267	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	95934	52.568	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.140%			
35) Dibromofluoromethane	5.385	113	67460	45.963	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.920%			
50) Toluene-d8	8.647	98	253866	50.178	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.360%			
62) 4-Bromofluorobenzene	11.079	95	84962	49.345	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.680%			
Target Compounds						Qvalue
16) Acetone	2.380	43	1115	1.330	ug/l	90

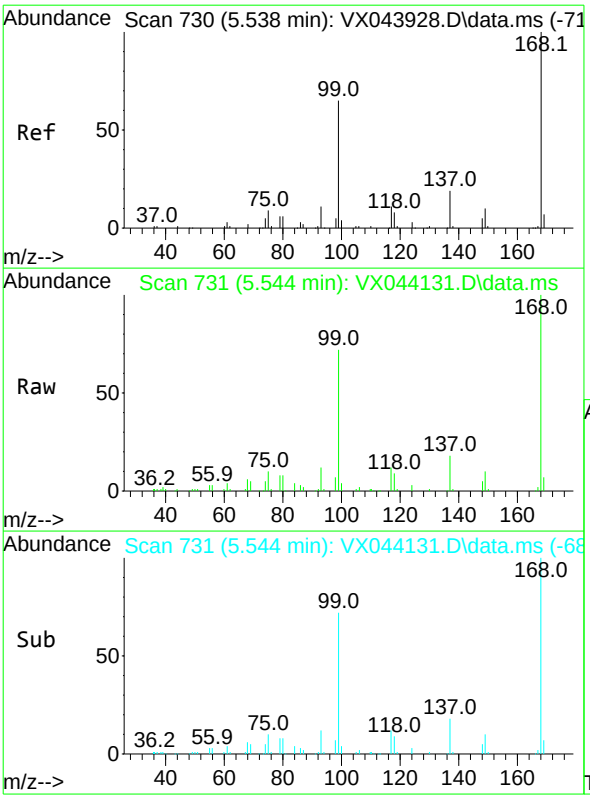
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Quant Time: Dec 05 00:38:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



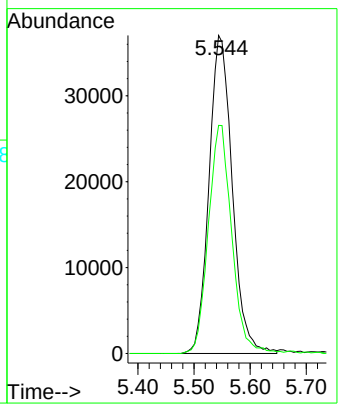


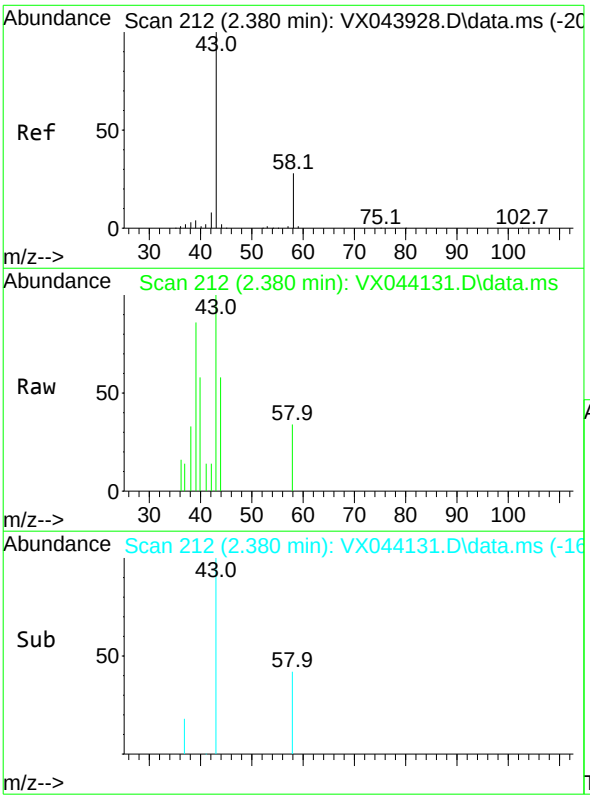
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. 0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Tgt Ion:168 Resp: 106401

Ion	Ratio	Lower	Upper
168	100		
99	71.7	51.8	77.8

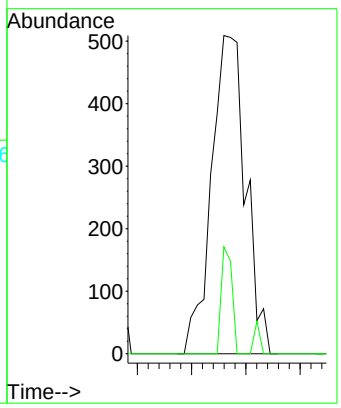




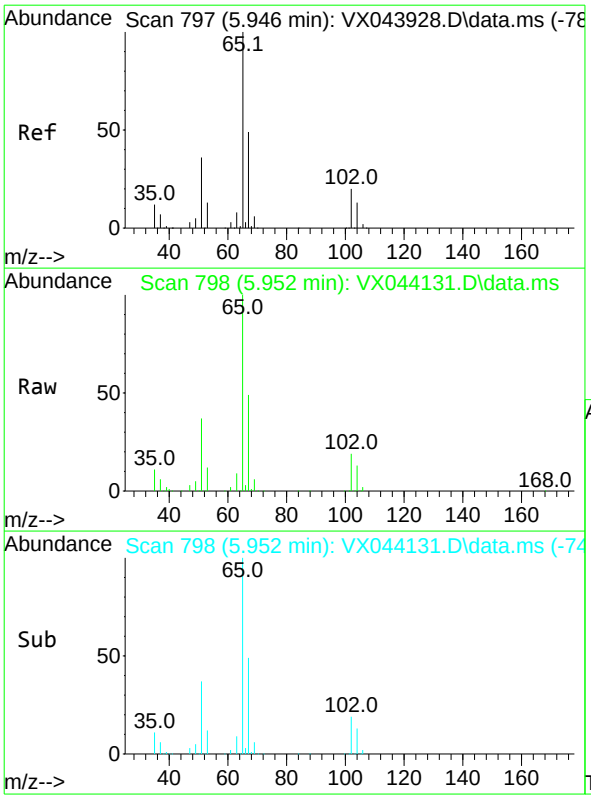
#16
Acetone
Concen: 1.330 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Tgt Ion: 43 Resp: 1115

Ion	Ratio	Lower	Upper
43	100		
58	33.6	22.7	34.1



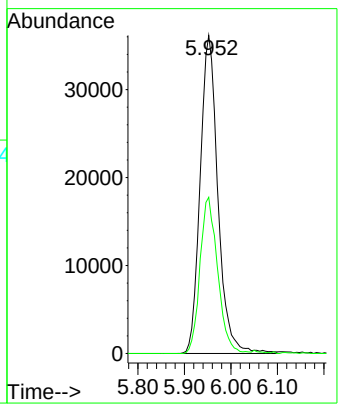
Instrument :
MSVOA_X
ClientSampleId :
LL-001

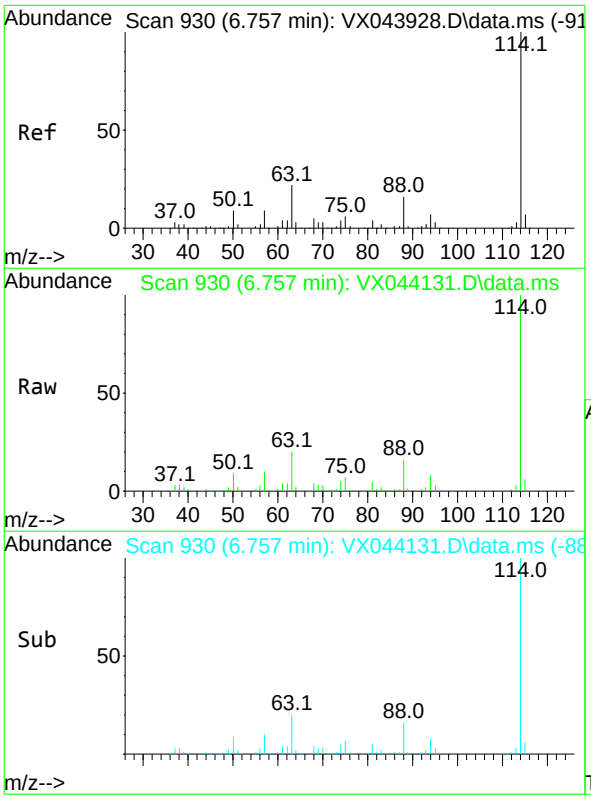


#33
1,2-Dichloroethane-d4
Concen: 52.568 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Tgt Ion: 65 Resp: 95934

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	100.8

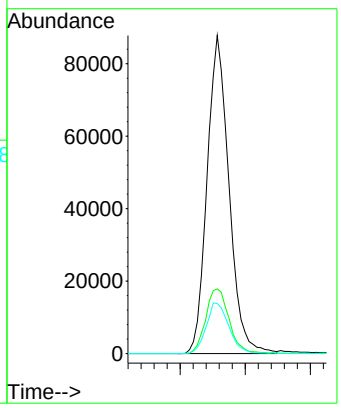


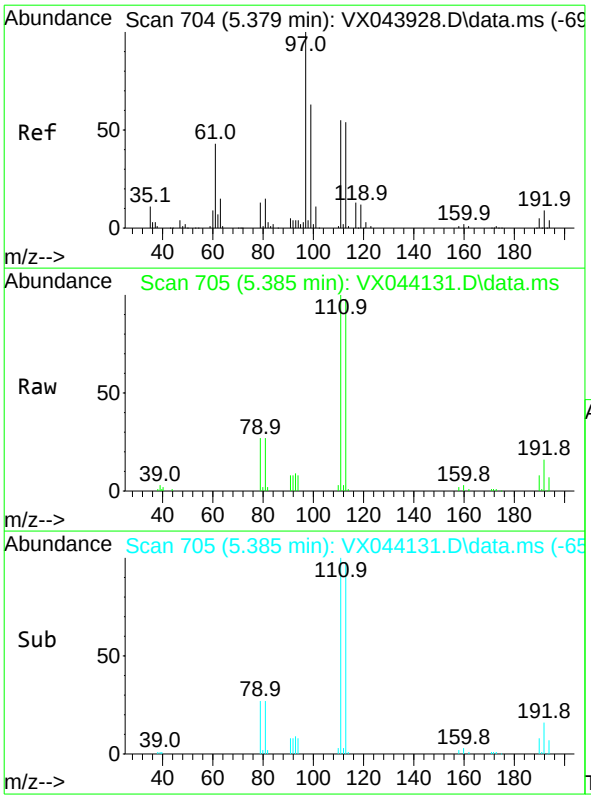


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Tgt Ion:114 Resp: 205400

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	44.0
88	15.7	0.0	32.4



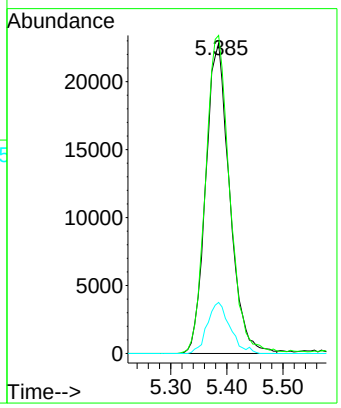


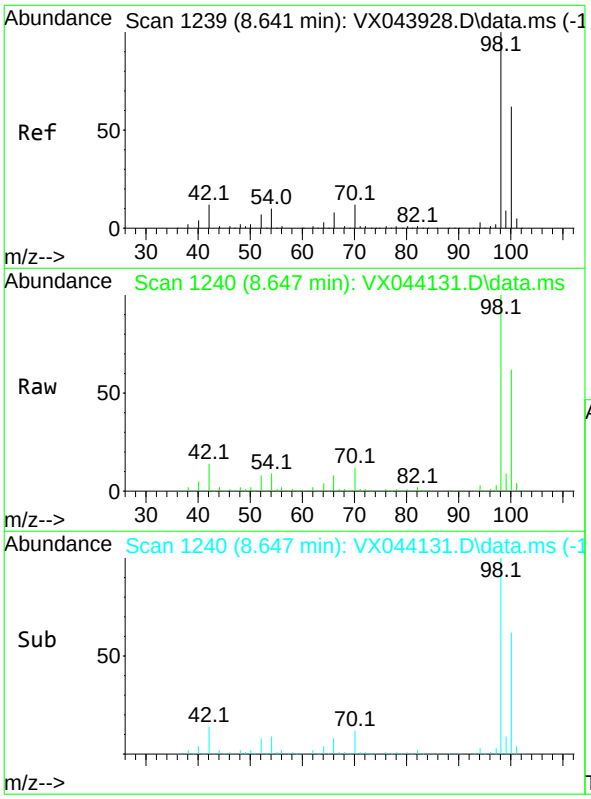
#35
Dibromofluoromethane
Concen: 45.963 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Tgt Ion:113 Resp: 67460

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.0	121.4
192	15.7	13.0	19.6

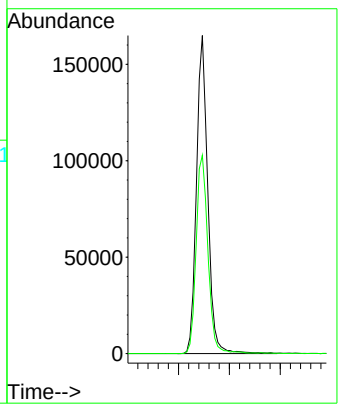


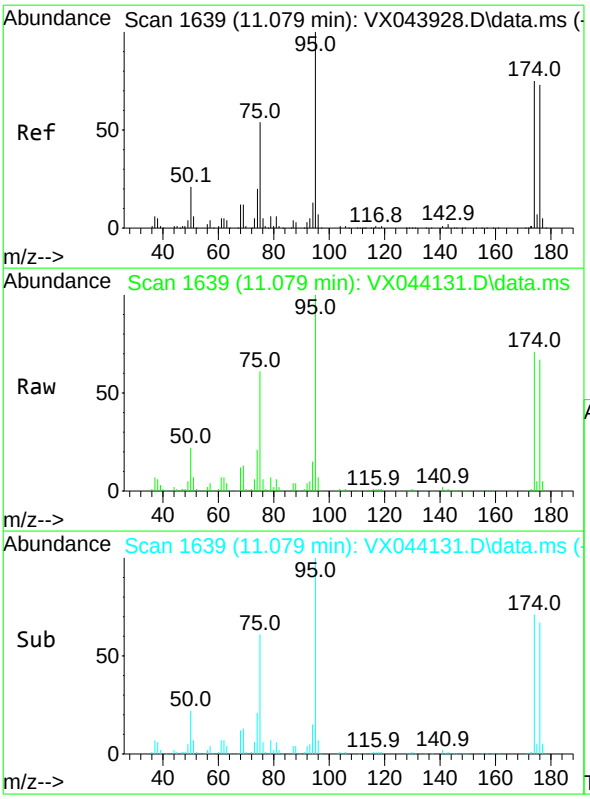


#50
Toluene-d8
Concen: 50.178 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Tgt Ion: 98 Resp: 253866

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.6	79.0



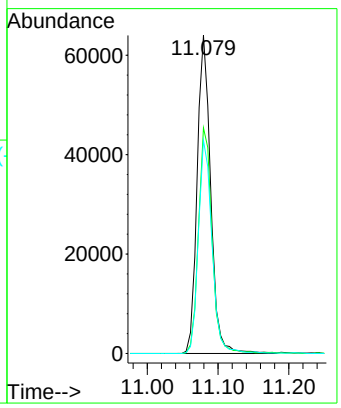


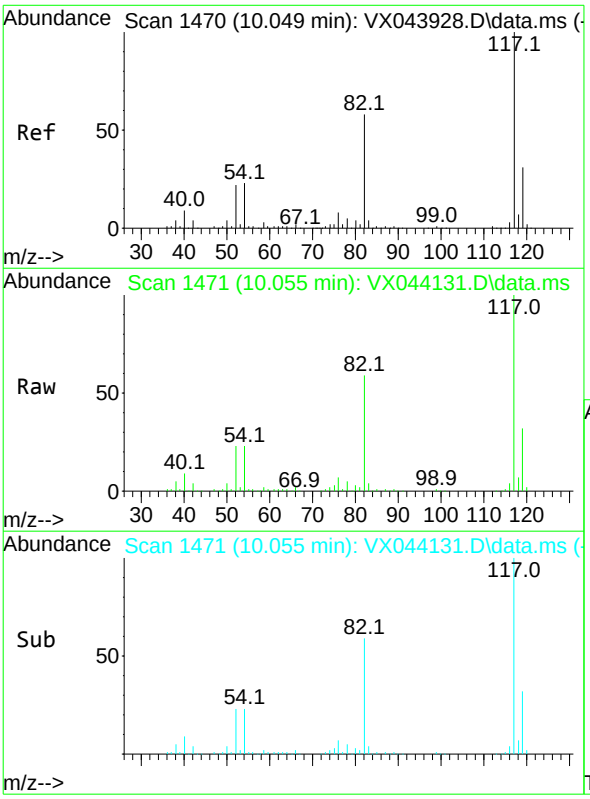
#62
4-Bromofluorobenzene
Concen: 49.345 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Tgt Ion: 95 Resp: 84962

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	150.4
176	67.2	0.0	146.0

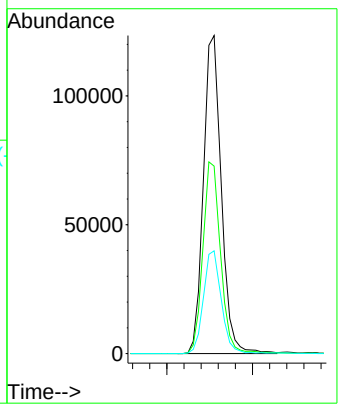


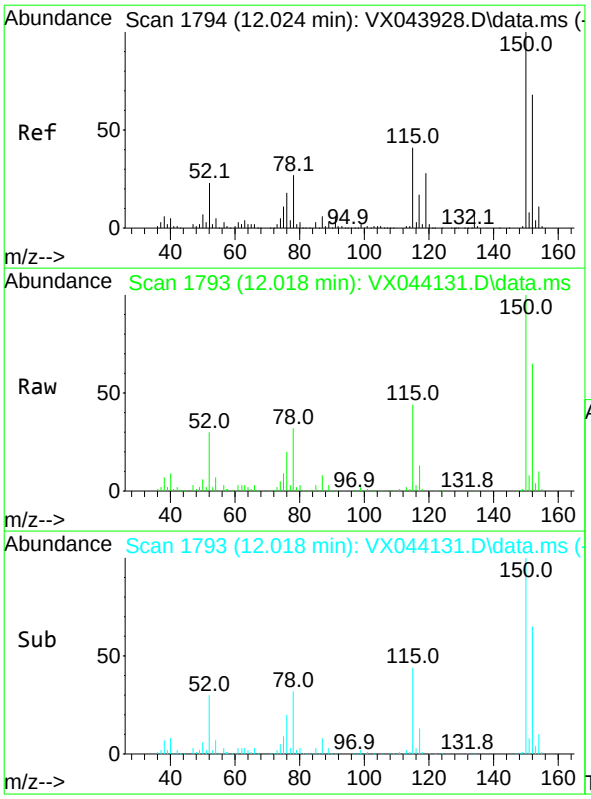


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Tgt Ion:117 Resp: 179121

Ion	Ratio	Lower	Upper
117	100		
82	58.9	46.4	69.6
119	32.3	24.6	37.0



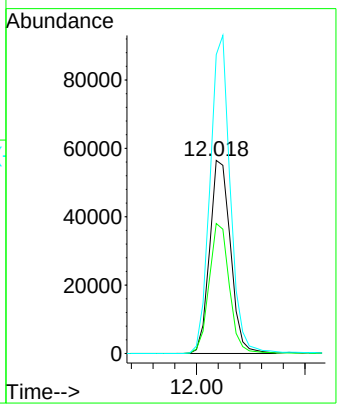


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.006 min
Lab File: VX044131.D
Acq: 04 Dec 2024 20:44

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Tgt Ion:152 Resp: 75267

Ion	Ratio	Lower	Upper
152	100		
115	65.4	45.4	136.2
150	160.5	0.0	353.0



Sample Results: **VX044131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260

Signal : TIC: VX044131.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.593	68	83	84	rBV2	18427	58304	8.38%	1.571%
2	5.385	692	705	721	rBV	79116	234182	33.66%	6.311%
3	5.544	721	731	748	rVV	124877	358756	51.56%	9.669%
4	5.952	789	798	809	rBV	101510	258652	37.17%	6.971%
5	6.757	919	930	947	rBV	215877	511157	73.46%	13.776%
6	8.647	1233	1240	1250	rBV	443162	695797	100.00%	18.753%
7	10.049	1465	1470	1483	rBV	411469	599900	86.22%	16.168%
8	11.079	1634	1639	1648	rBV	332214	433518	62.31%	11.684%
9	12.018	1788	1793	1809	rBV	391546	521125	74.90%	14.045%
10	13.780	2077	2082	2090	rBV	25212	39016	5.61%	1.052%

Sum of corrected areas: 3710407

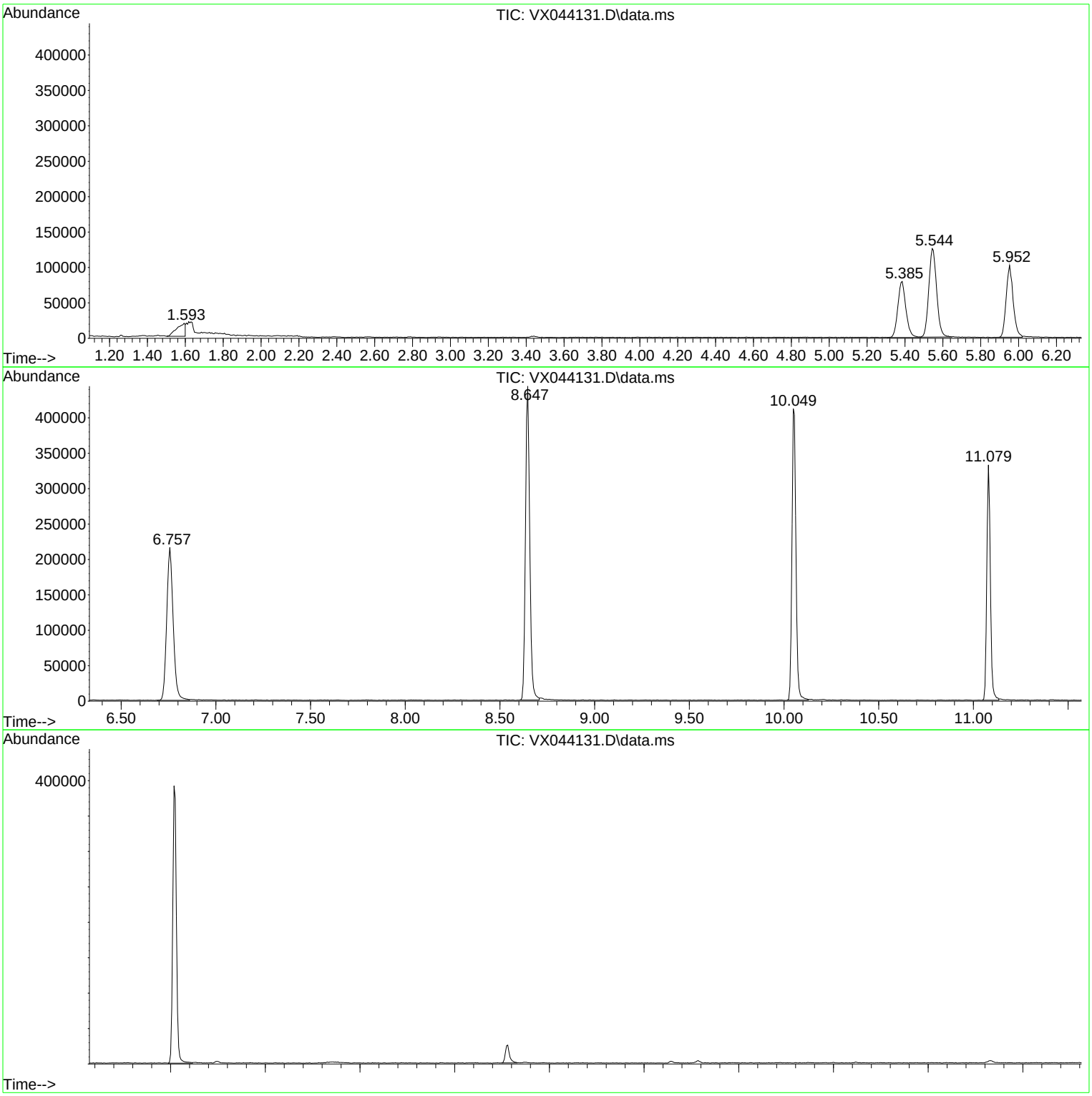
Sample Results: **VX044131.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

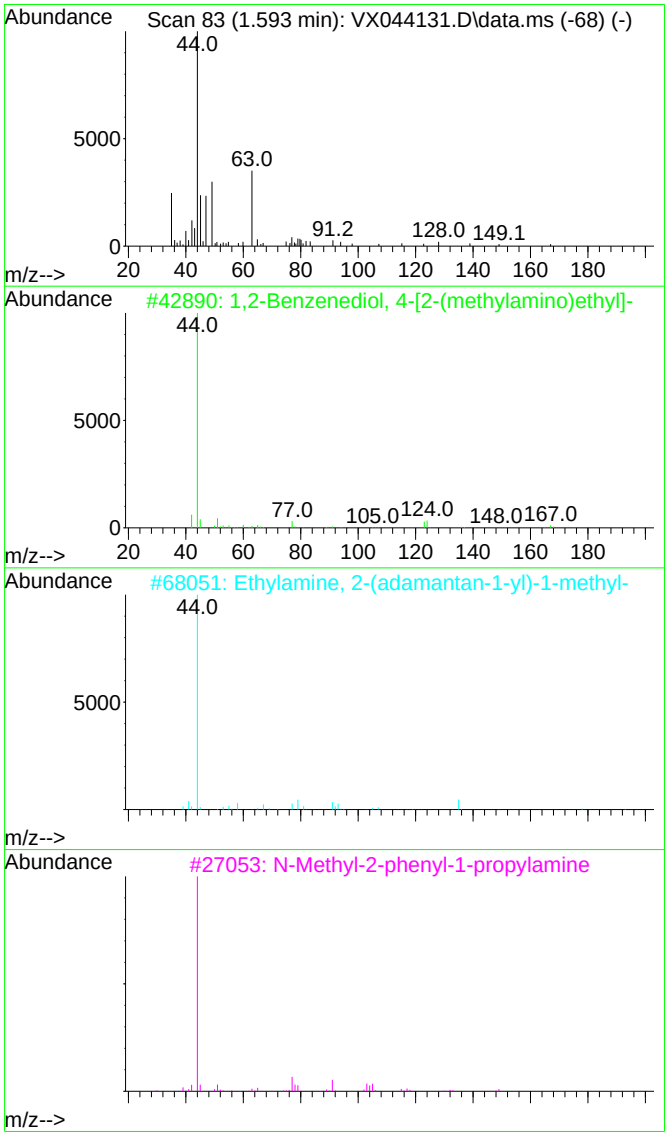
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

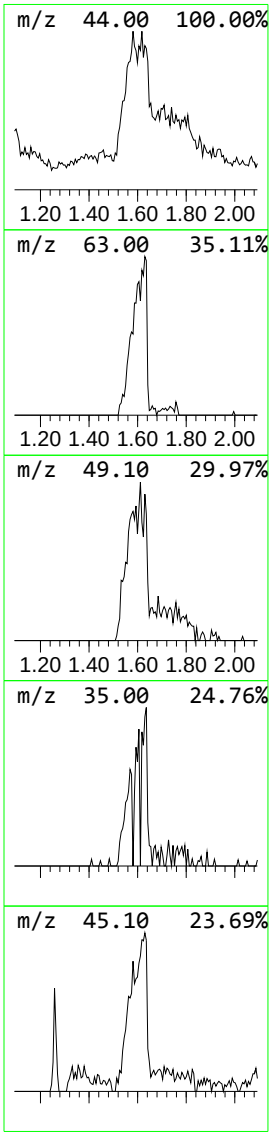
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 unknown1.593 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.593	8.13 ug/l	58304	Pentafluorobenzene	5.544

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenediol, 4-[2-(methylami...	167	C9H13NO2	000501-15-5	16
2	Ethylamine, 2-(adamantan-1-yl)-1...	193	C13H23N	1000310-59-0	10
3	N-Methyl-2-phenyl-1-propylamine	149	C10H15N	000093-88-9	9
4	Metaraminol	167	C9H13NO2	000054-49-9	9
5	p-Hydroxynorephedrine	167	C9H13NO2	000552-85-2	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044131.D
Acq On : 04 Dec 2024 20:44
Operator : JC/MD
Sample : P5093-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown1.593	1.593	8.1	ug/l	58304	1	5.544	358756	50.0

Raw Data: **VX044132.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044132.D	1		12/04/24 21:07	VX120424

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

Raw Data: **VX044132.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044132.D	1		12/04/24 21:07	VX120424

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	53.4		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	111000	5.543			
540-36-3	1,4-Difluorobenzene	219000	6.763			
3114-55-4	Chlorobenzene-d5	189000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	79800	12.018			

Raw Data: **VX044132.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044132.D	1		12/04/24 21:07	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VX044132.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Quant Time: Dec 05 00:38:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

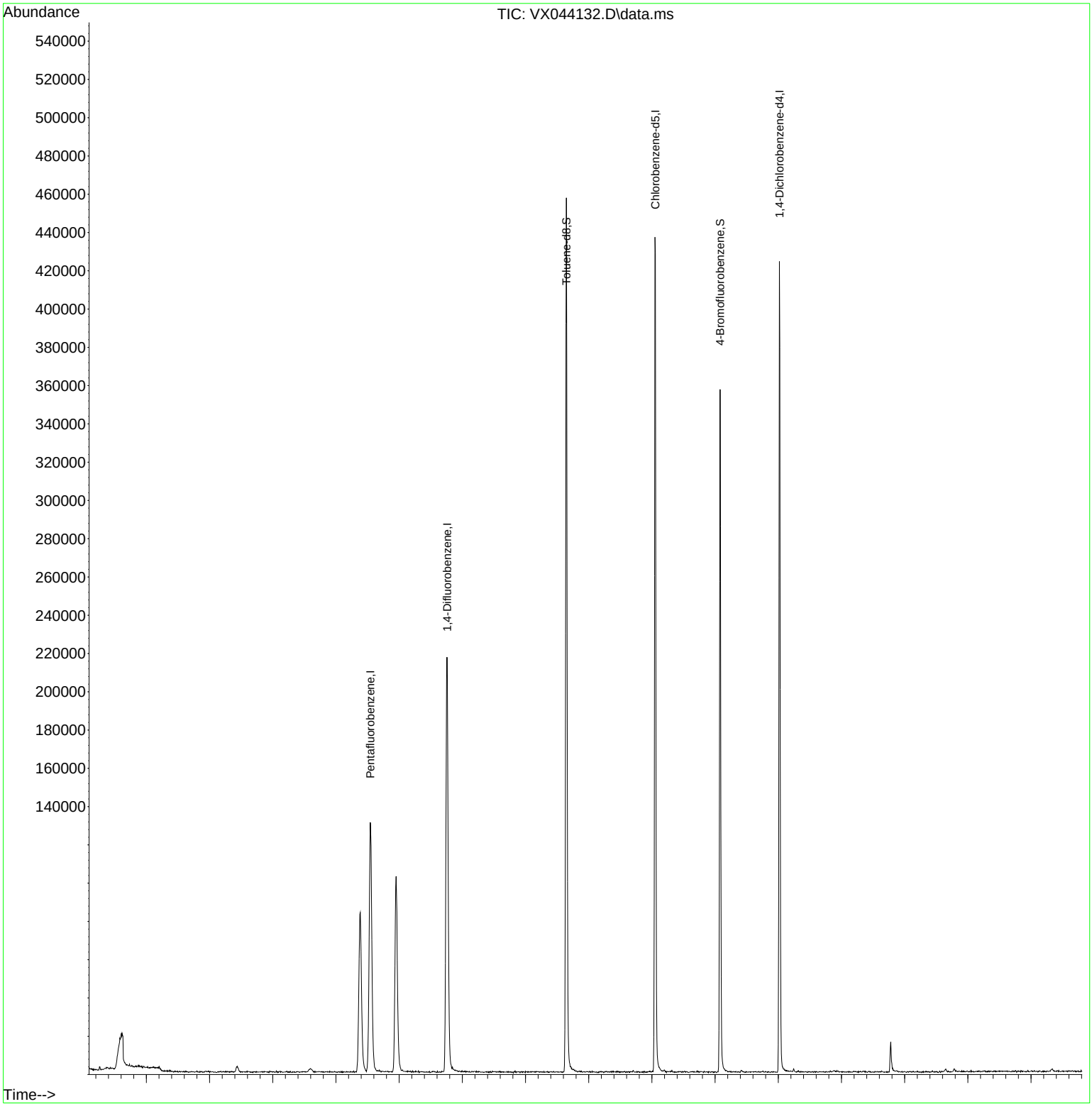
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	110604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	218721	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189224	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79833	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	101329	53.414	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.820%			
35) Dibromofluoromethane	5.385	113	71404	45.688	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.380%			
50) Toluene-d8	8.647	98	262132	48.657	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.320%			
62) 4-Bromofluorobenzene	11.079	95	90619	49.425	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.840%			
Target Compounds						Qvalue

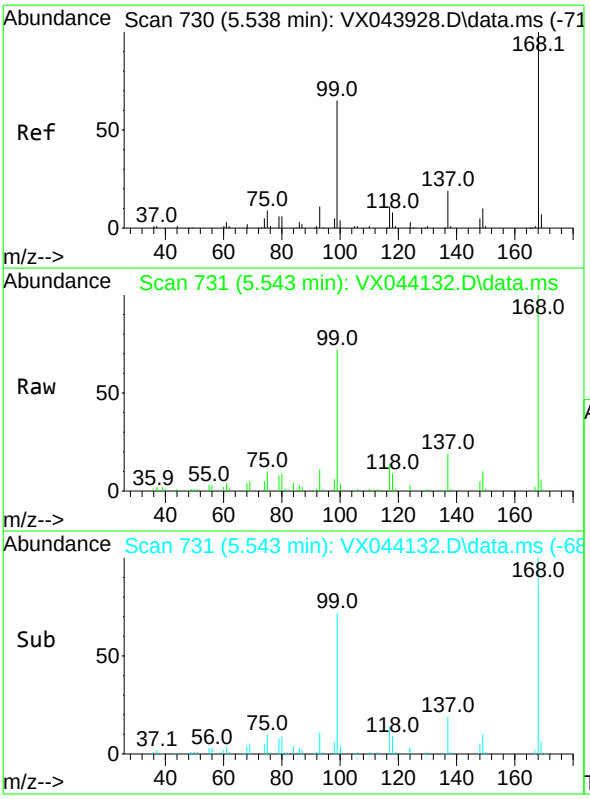
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Quant Time: Dec 05 00:38:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



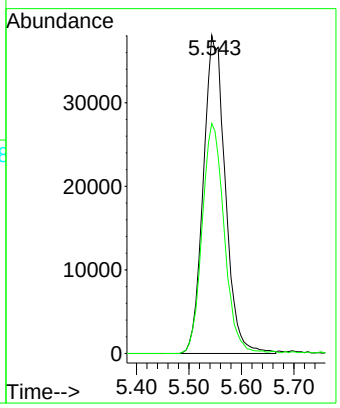


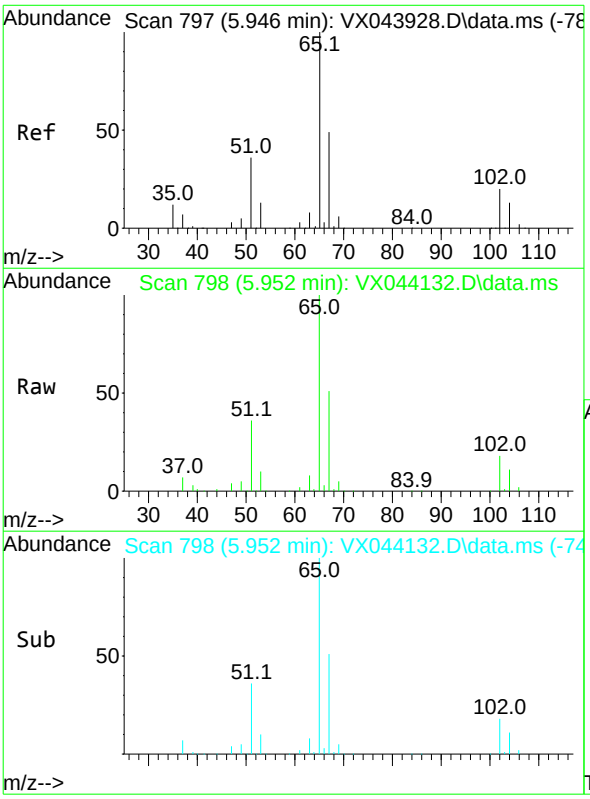
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. 0.005 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:168 Resp: 110604

Ion	Ratio	Lower	Upper
168	100		
99	72.3	51.8	77.8

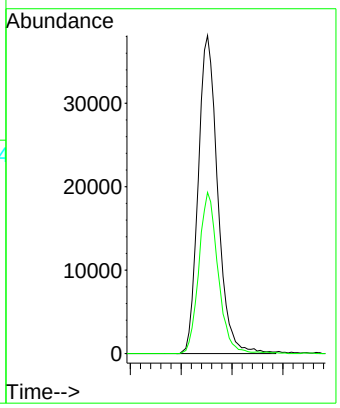


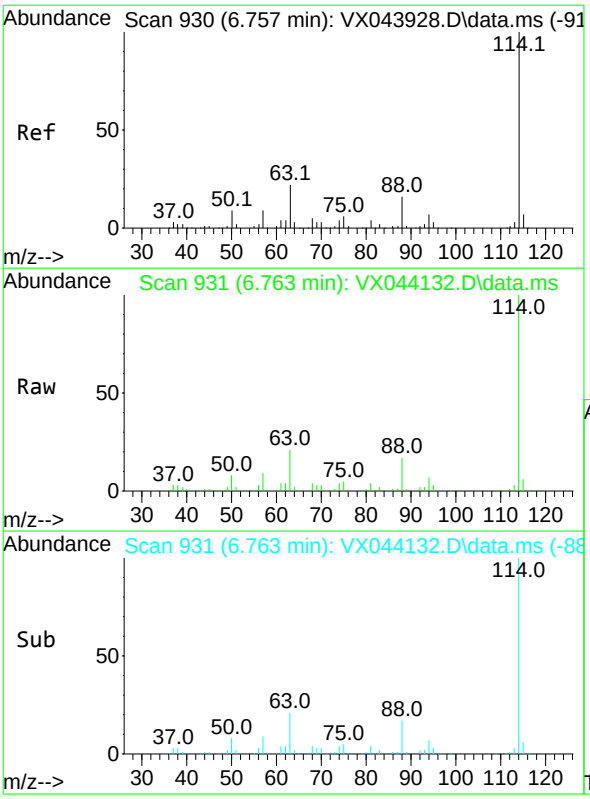


#33
1,2-Dichloroethane-d4
Concen: 53.414 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Tgt Ion: 65 Resp: 101329

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	100.8



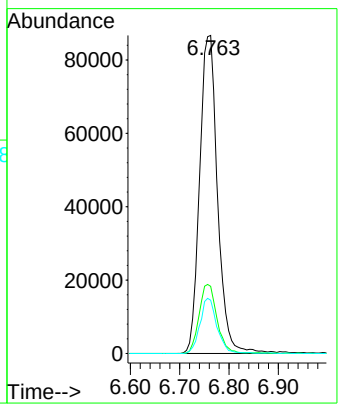


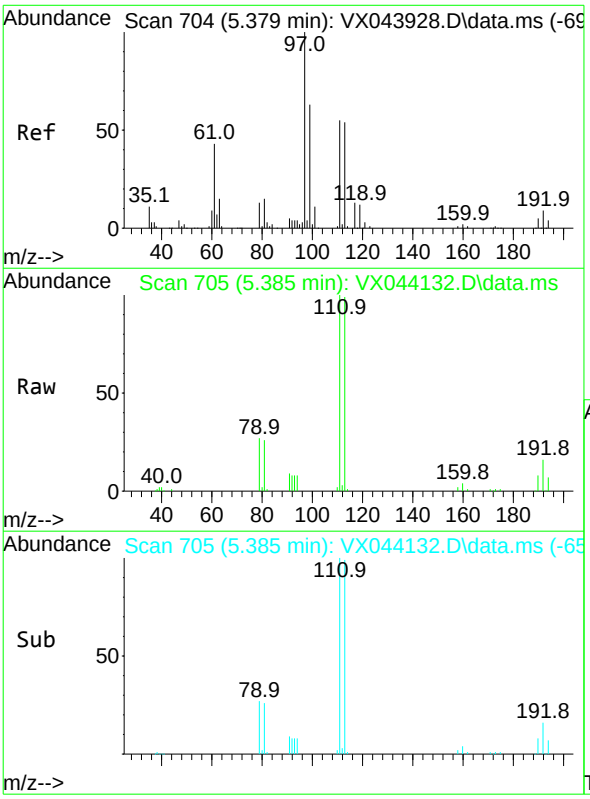
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 93
Delta R.T. 0.006 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:114 Resp: 218721

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.8	0.0	32.4

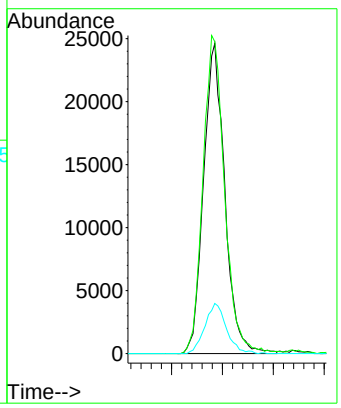


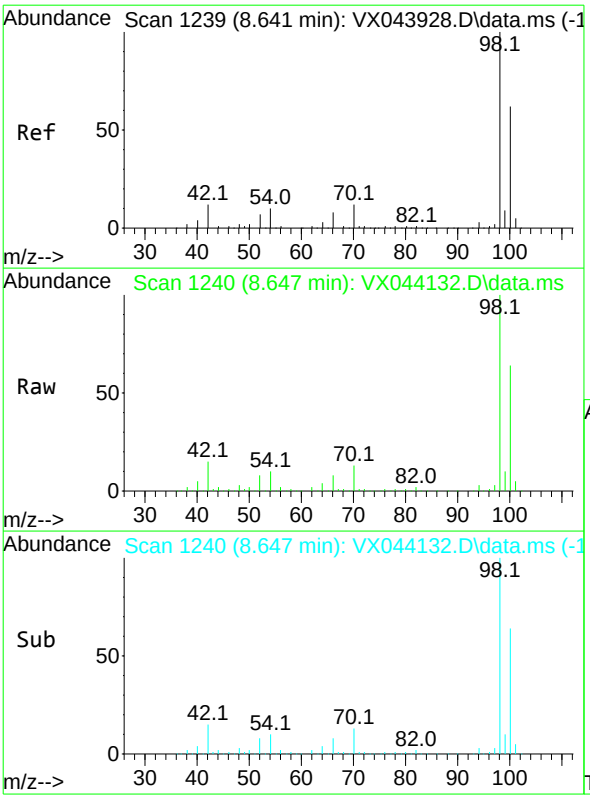


#35
Dibromofluoromethane
Concen: 45.688 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Tgt Ion:113 Resp: 71404

Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.0	121.4
192	16.4	13.0	19.6



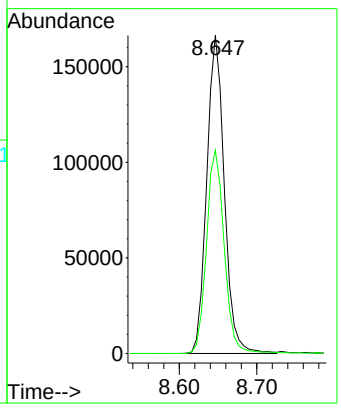


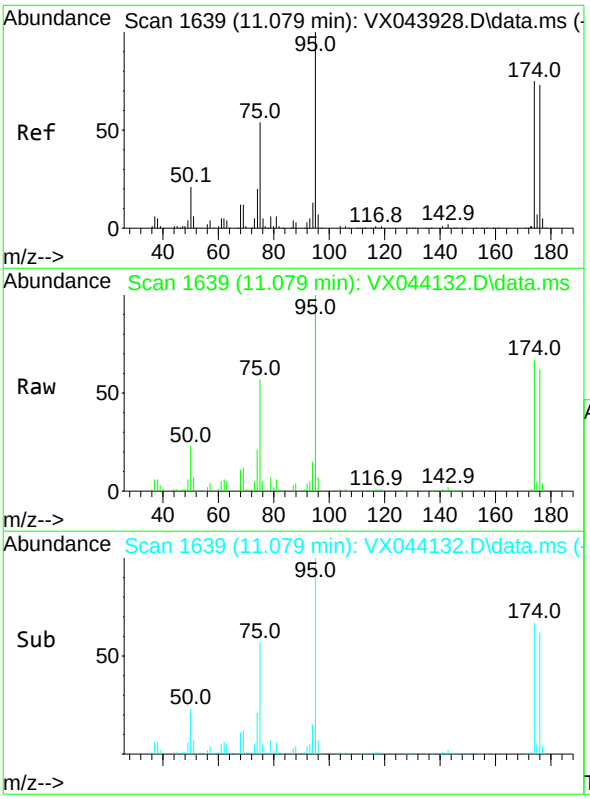
#50
Toluene-d8
Concen: 48.657 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion: 98 Resp: 262132

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.6	79.0

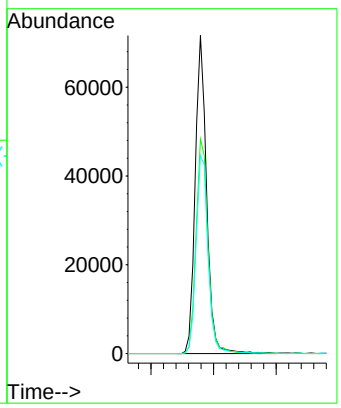


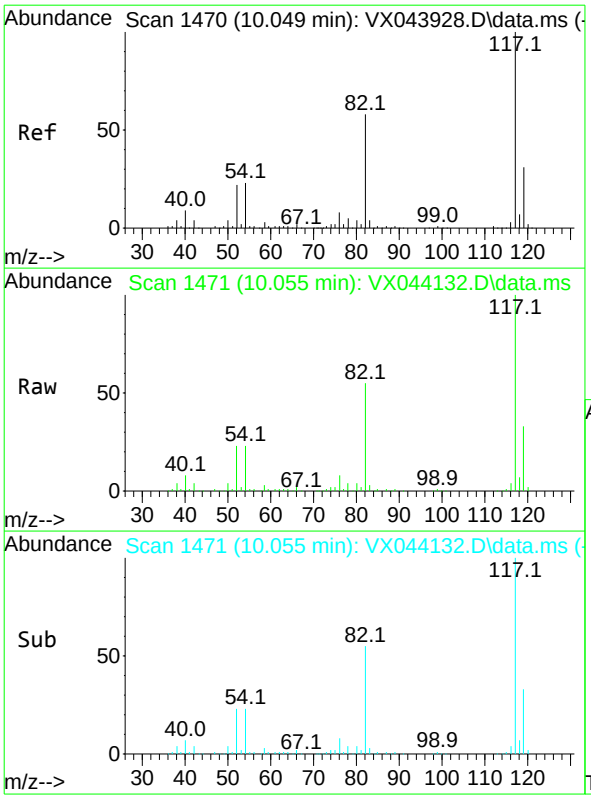


#62
4-Bromofluorobenzene
Concen: 49.425 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Tgt Ion: 95 Resp: 90619

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	150.4
176	65.9	0.0	146.0



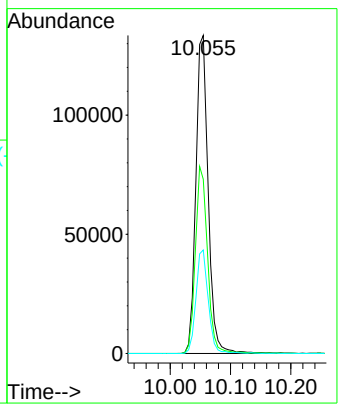


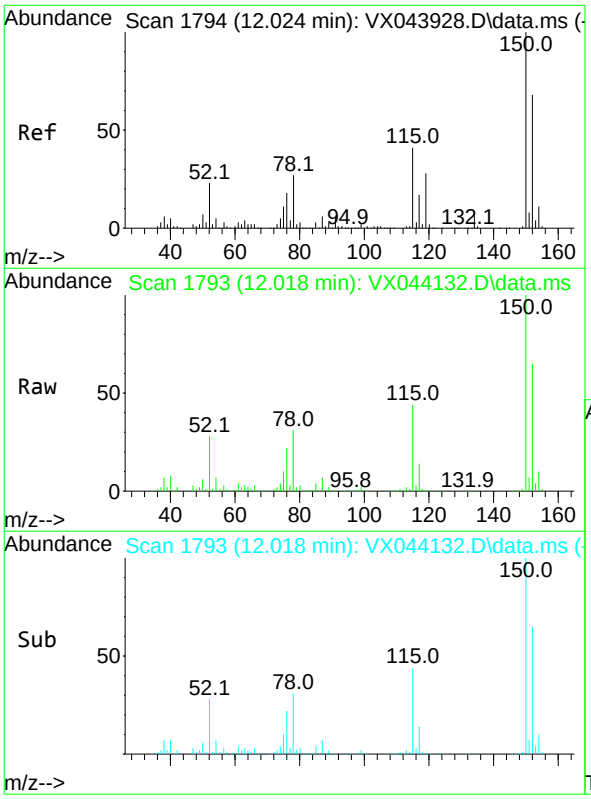
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:117 Resp: 189224

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.4	69.6
119	32.5	24.6	37.0

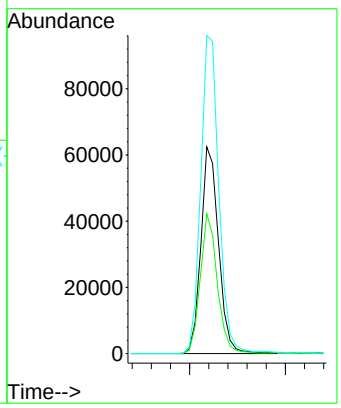




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.007 min
Lab File: VX044132.D
Acq: 04 Dec 2024 21:07

Tgt Ion:152 Resp: 79833

Ion	Ratio	Lower	Upper
152	100		
115	65.3	45.4	136.2
150	159.2	0.0	353.0



Sample Results: **VX044132.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260

Signal : TIC: VX044132.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	67	81	82	rBV2	16123	42308	5.85%	1.097%
2	3.440	378	386	395	rVB7	3158	8499	1.18%	0.220%
3	5.385	695	705	721	rBV2	83387	246089	34.02%	6.380%
4	5.543	721	731	748	rVV2	130146	376869	52.10%	9.771%
5	5.952	787	798	812	rBV	102384	275608	38.10%	7.145%
6	6.757	921	930	943	rBV	216592	531593	73.49%	13.782%
7	8.647	1232	1240	1250	rBV	457001	723306	100.00%	18.752%
8	10.049	1465	1470	1488	rBV	436174	627176	86.71%	16.260%
9	11.079	1634	1639	1653	rBV	356582	458746	63.42%	11.893%
10	12.018	1788	1793	1804	rBV	423681	543478	75.14%	14.090%
11	13.780	2078	2082	2089	rBV	15679	23512	3.25%	0.610%

Sum of corrected areas: 3857184

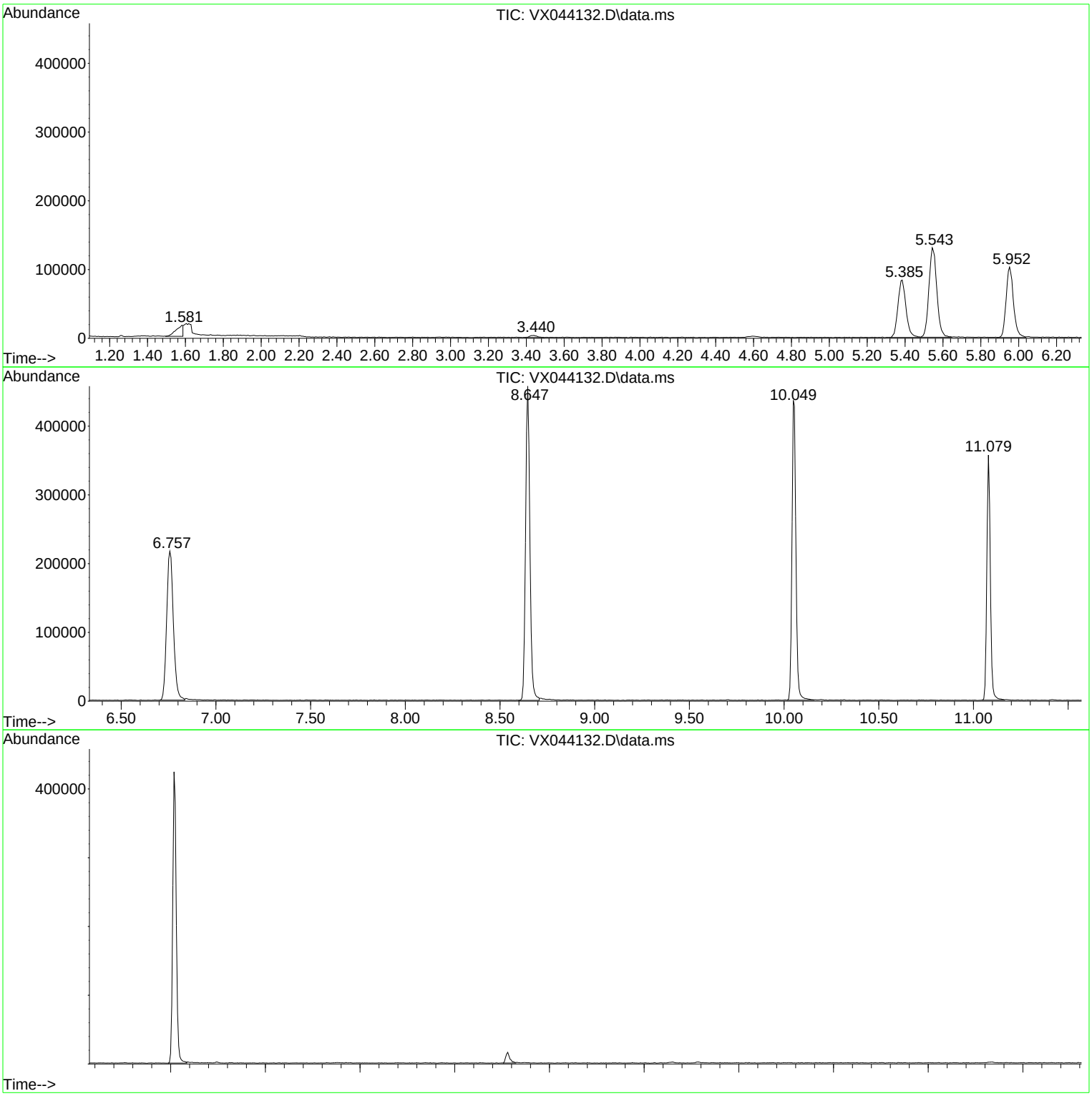
Sample Results: **VX044132.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044132.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044132.D
Acq On : 04 Dec 2024 21:07
Operator : JC/MD
Sample : P5093-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LL-001-FB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

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

Raw Data: **VX044133.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	TB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044133.D	1		12/04/24 21:30	VX120424

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

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	TB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044133.D	1		12/04/24 21:30	VX120424

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	53.0		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	45.3		70 (75) - 130 (124)	91%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	110000	5.544			
540-36-3	1,4-Difluorobenzene	215000	6.757			
3114-55-4	Chlorobenzene-d5	185000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	78600	12.024			

Raw Data: **VX044133.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	TB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044133.D	1		12/04/24 21:30	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Quant Time: Dec 05 02:12:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	110240	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	214620	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	184877	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	78562	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	100258	53.024	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.040%			
35) Dibromofluoromethane	5.385	113	69428	45.272	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.540%			
50) Toluene-d8	8.647	98	258502	48.900	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.800%			
62) 4-Bromofluorobenzene	11.079	95	88763	49.338	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.680%			
Target Compounds						Qvalue
95) Naphthalene	13.780	128	8682	1.545	ug/l	99

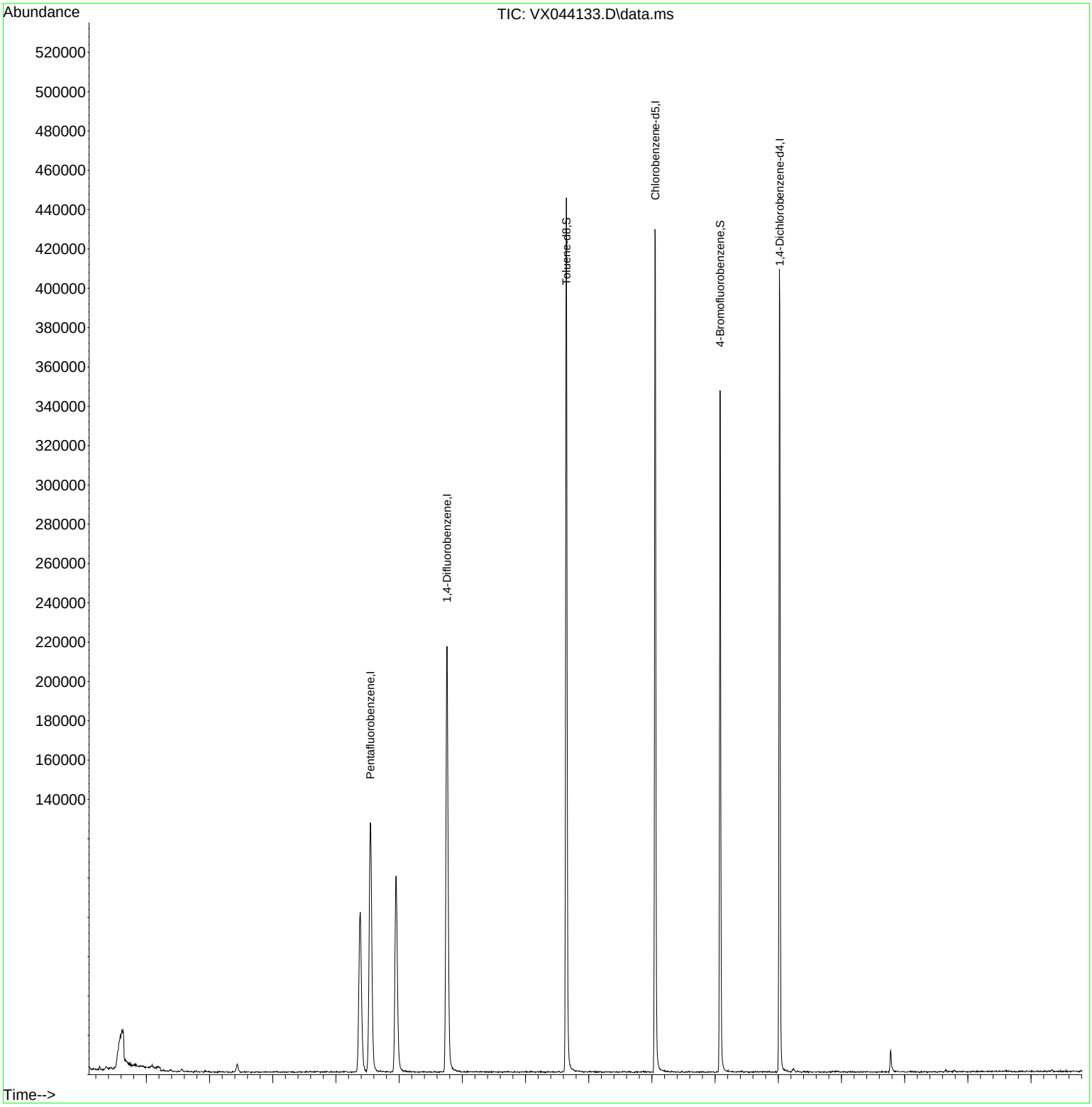
(#) = qualifier out of range (m) = manual integration (+) = signals summed

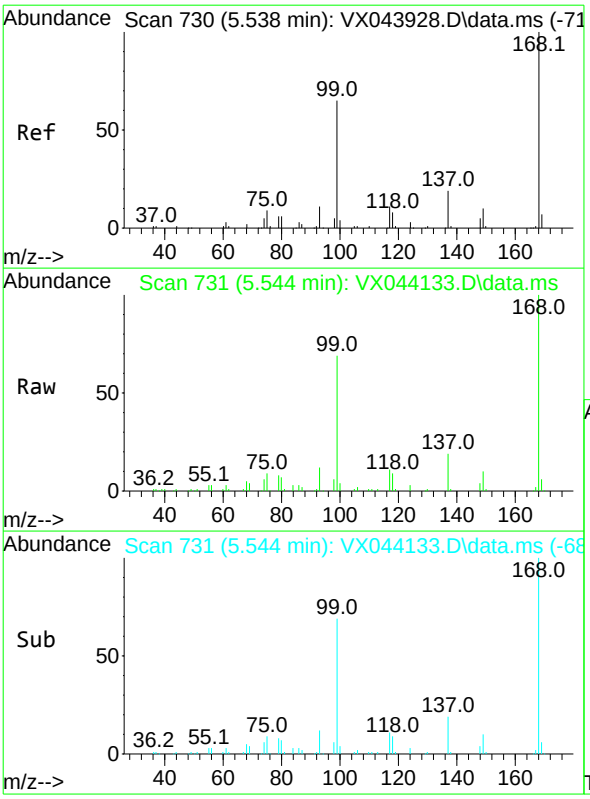
Sample Results: **VX044133.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Quant Time: Dec 05 02:12:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



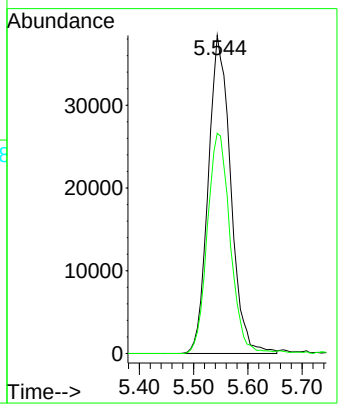


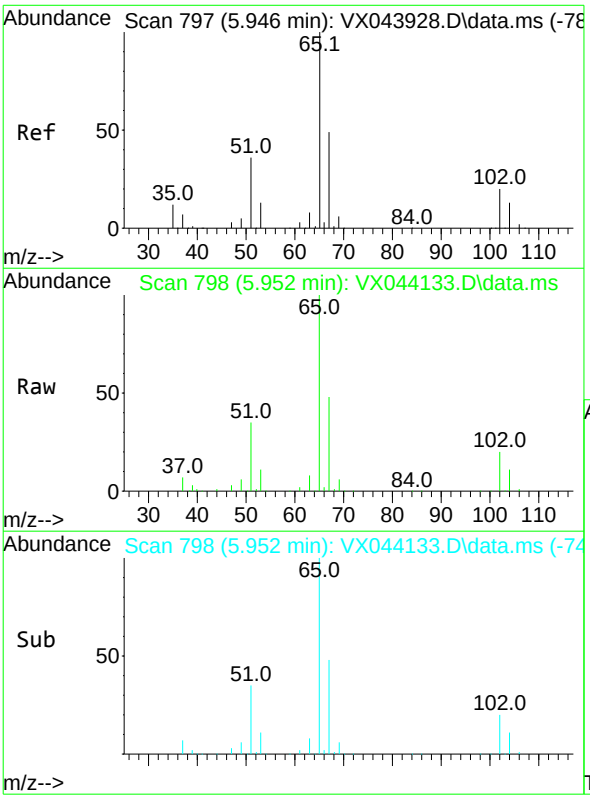
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Tgt Ion:168 Resp: 110240

Ion	Ratio	Lower	Upper
168	100		
99	69.2	51.8	77.8

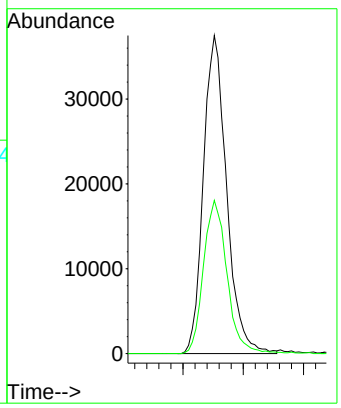


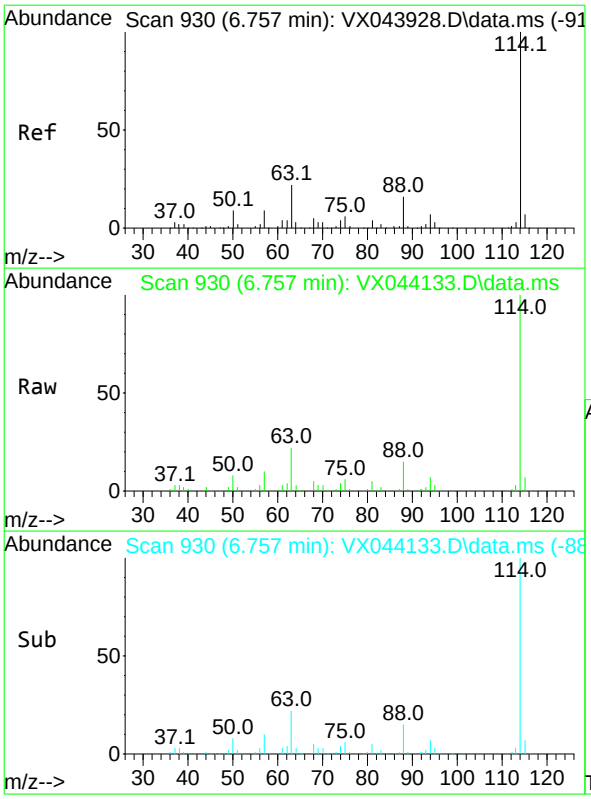


#33
1,2-Dichloroethane-d4
Concen: 53.024 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Tgt Ion: 65 Resp: 100258

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	100.8



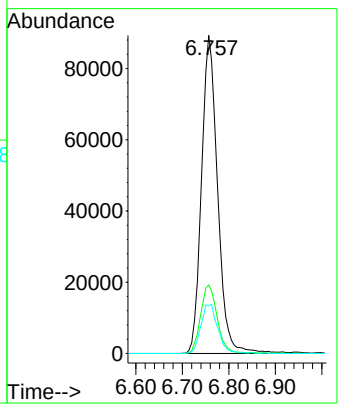


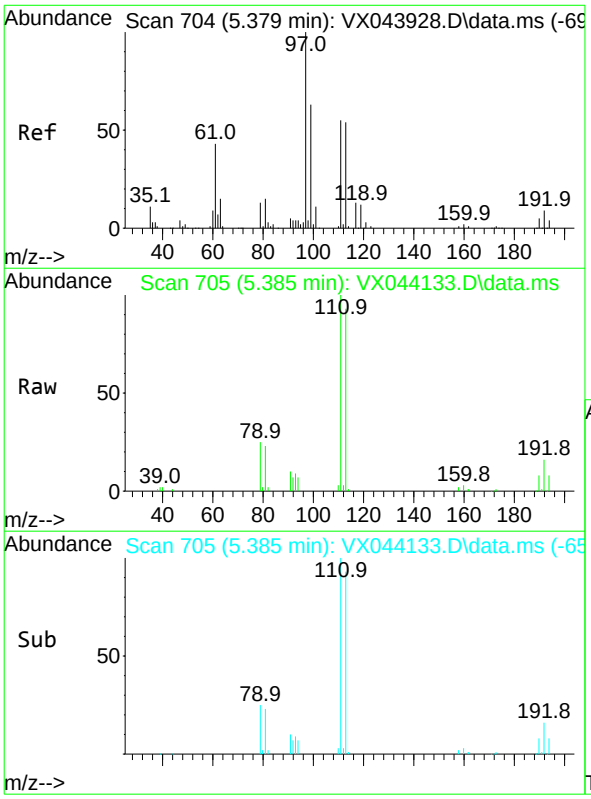
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Tgt Ion:114 Resp: 214620

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.0
88	15.1	0.0	32.4

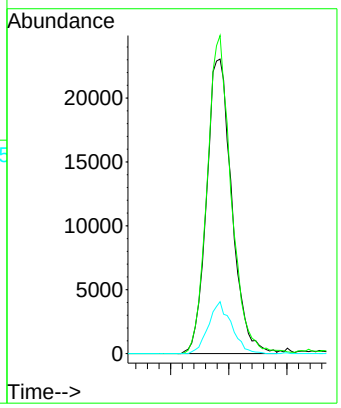


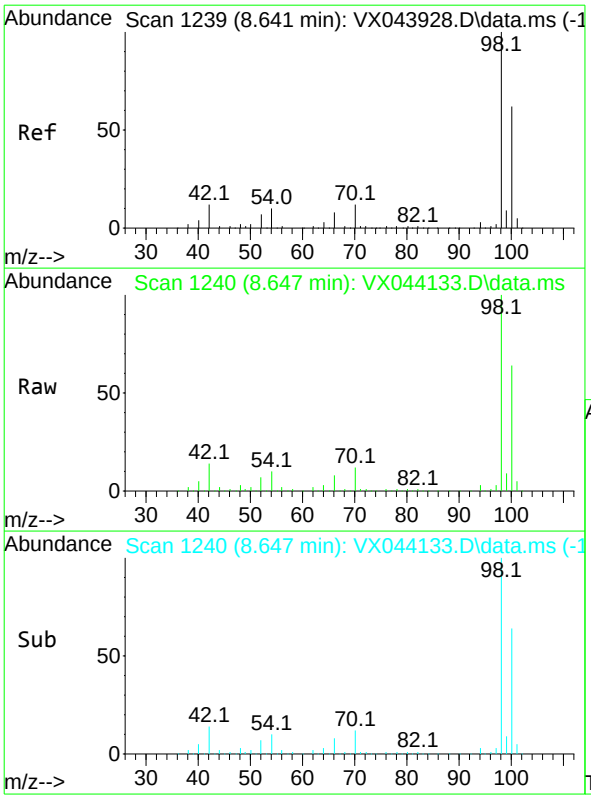


#35
Dibromofluoromethane
Concen: 45.272 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Tgt Ion:113 Resp: 69428

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.0	121.4
192	16.2	13.0	19.6



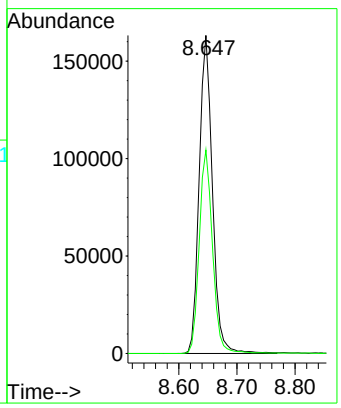


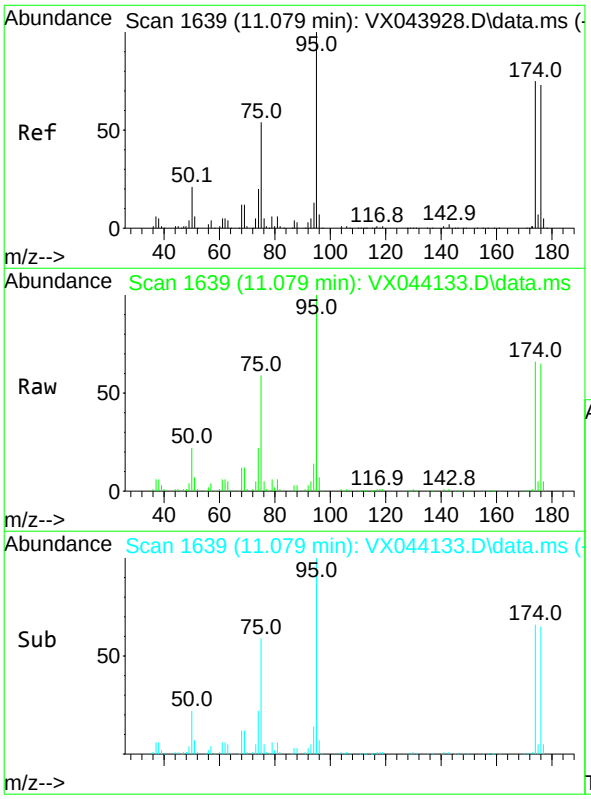
#50
Toluene-d8
Concen: 48.900 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Tgt Ion: 98 Resp: 258502

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.6	79.0

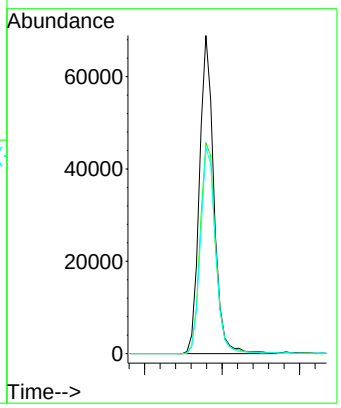


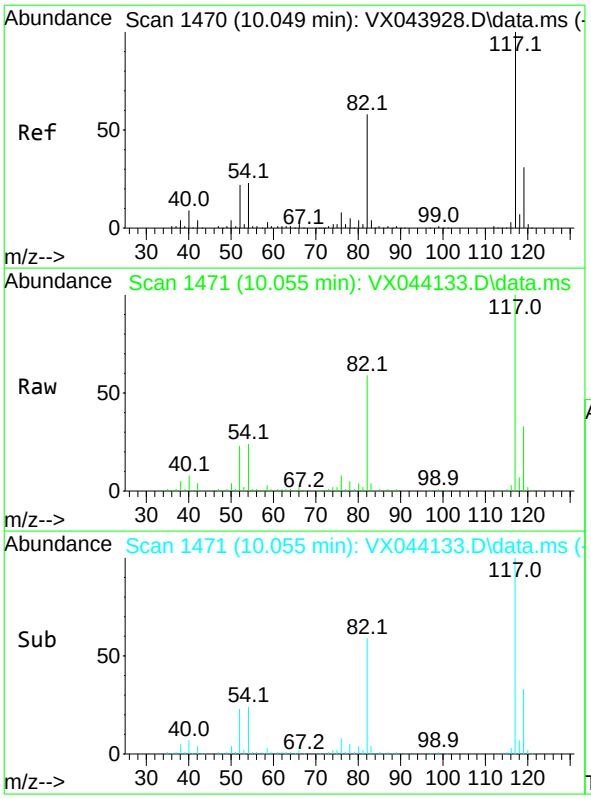


#62
4-Bromofluorobenzene
Concen: 49.338 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Tgt Ion: 95 Resp: 88763

Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	150.4
176	68.0	0.0	146.0



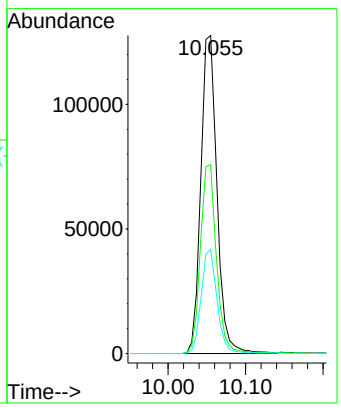


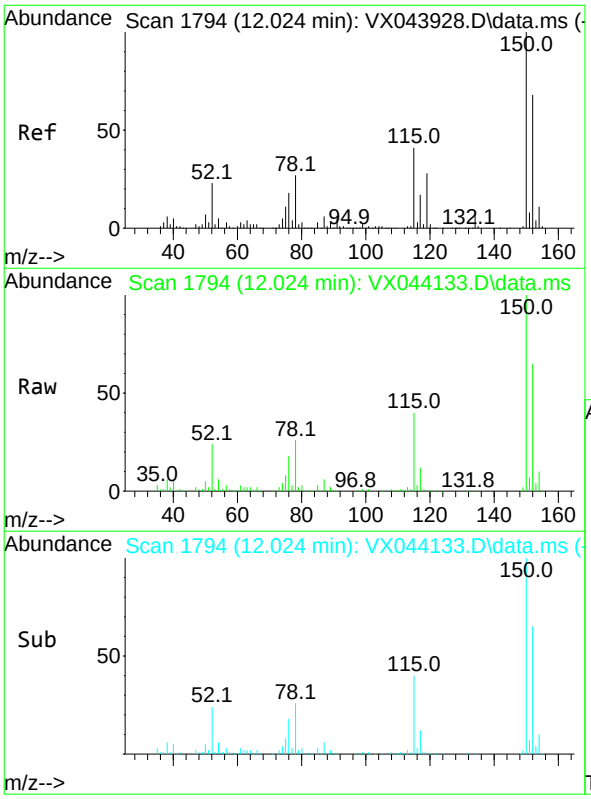
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Tgt Ion:117 Resp: 184877

Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.4	69.6
119	32.7	24.6	37.0

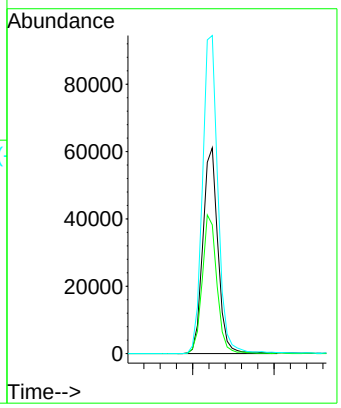


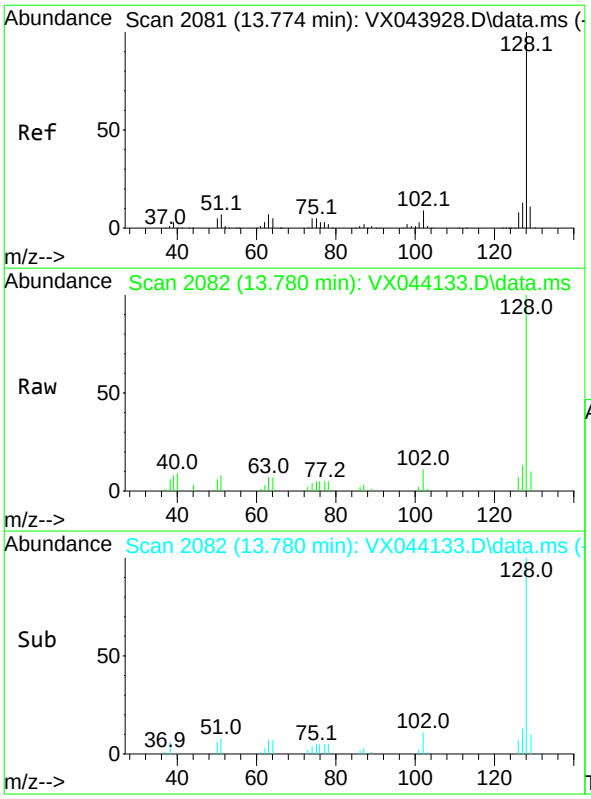


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Tgt Ion:152 Resp: 78562

Ion	Ratio	Lower	Upper
152	100		
115	65.5	45.4	136.2
150	158.8	0.0	353.0



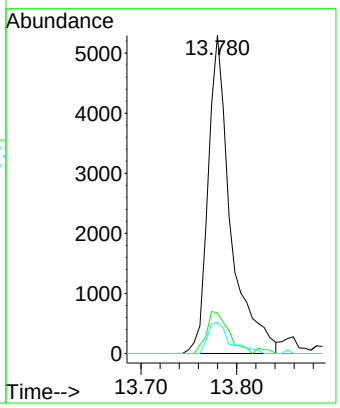


#95
Naphthalene
Concen: 1.545 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044133.D
Acq: 04 Dec 2024 21:30

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Tgt Ion:128 Resp: 8682

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	9.7	8.6	12.8



Sample Results: **VX044133.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260

Signal : TIC: VX044133.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.611	69	86	88	rBV3	18913	78243	11.01%	2.042%
2	3.440	378	386	393	rVB4	4295	9748	1.37%	0.254%
3	5.385	694	705	721	rBV2	81238	240155	33.81%	6.266%
4	5.544	721	731	748	rBV	126475	373714	52.61%	9.751%
5	5.952	788	798	810	rBV	99825	270918	38.14%	7.069%
6	6.757	922	930	944	rBV2	216299	523012	73.62%	13.647%
7	8.647	1234	1240	1256	rBV	444222	710405	100.00%	18.537%
8	10.049	1465	1470	1482	rBV	428989	621348	87.46%	16.213%
9	11.079	1634	1639	1655	rBV	346661	454395	63.96%	11.857%
10	12.018	1788	1793	1804	rBV	408270	530812	74.72%	13.850%
11	13.780	2077	2082	2091	rBV	11232	19704	2.77%	0.514%

Sum of corrected areas: 3832454

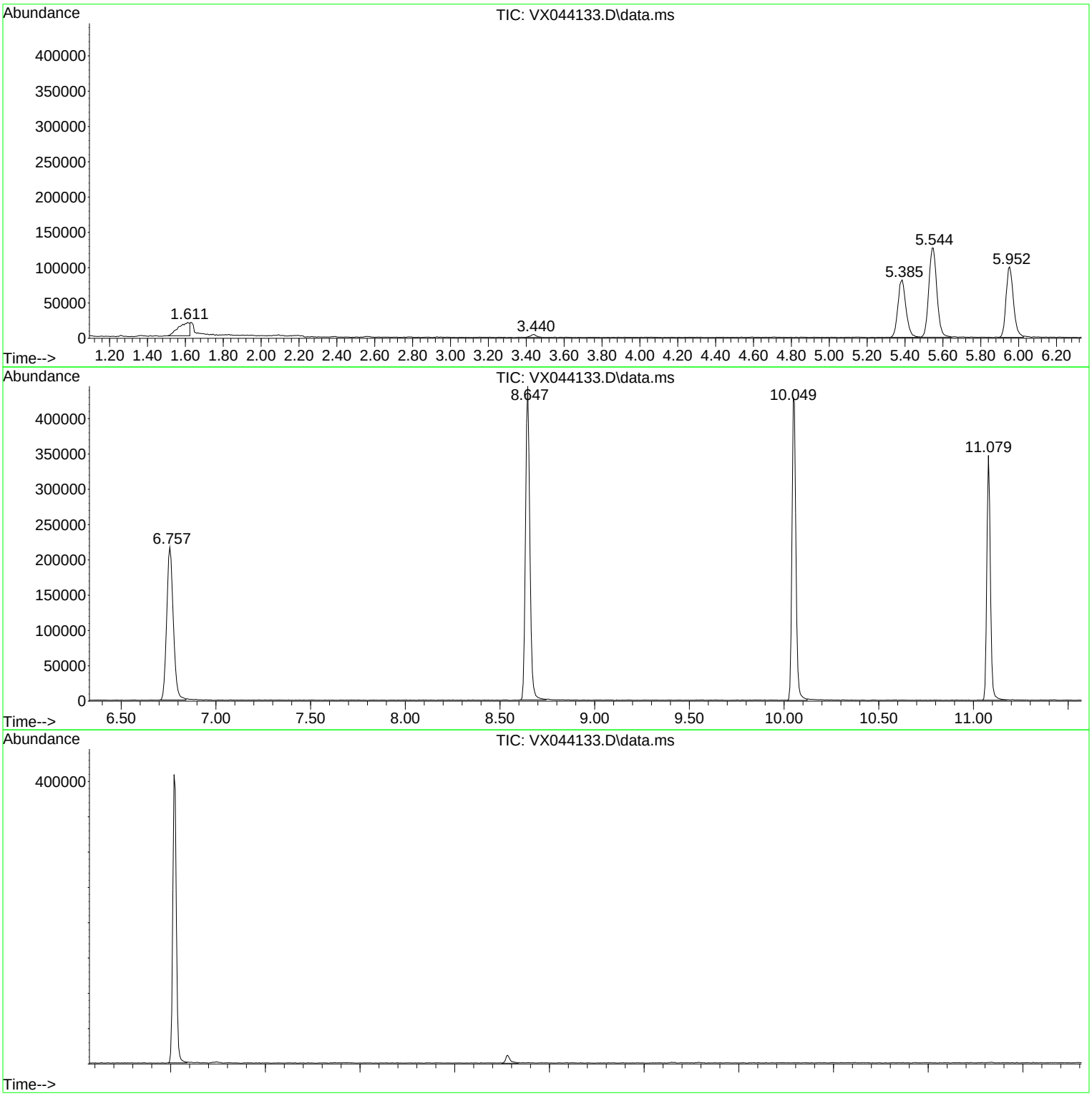
Sample Results: **VX044133.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044133.D
Acq On : 04 Dec 2024 21:30
Operator : JC/MD
Sample : P5093-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-12-4-24

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

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

CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.634	0.633	0.641	0.684	0.601	0.608	0.633	4.6
Chloromethane	0.578	0.662	0.720	0.697	0.665	0.677	0.667	7.3
Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.6
Bromomethane		0.425	0.438	0.445	0.429	0.442	0.436	2
Chloroethane	0.579	0.429	0.404	0.459	0.368	0.354	0.432	18.9
Trichlorofluoromethane	1.038	1.267	1.335	1.357	1.281	1.328	1.268	9.3
1,1,2-Trichlorotrifluoroethane	0.592	0.585	0.605	0.658	0.589	0.599	0.605	4.5
1,1-Dichloroethene	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.4
Acetone	0.401	0.396	0.401	0.425	0.370	0.370	0.394	5.4
Carbon Disulfide	1.082	0.956	1.078	1.287	1.330	1.398	1.188	14.6
Methyl tert-butyl Ether	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.5
Methyl Acetate	0.931	0.871	0.911	0.987	0.894	0.910	0.917	4.3
Methylene Chloride	0.704	0.656	0.684	0.667	0.643	0.655	0.668	3.3
trans-1,2-Dichloroethene	0.545	0.563	0.609	0.633	0.600	0.619	0.595	5.7
1,1-Dichloroethane	0.980	1.118	1.221	1.256	1.185	1.208	1.161	8.6
Cyclohexane		0.911	0.976	1.041	0.926	0.925	0.956	5.6
2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.1
Carbon Tetrachloride	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.7
cis-1,2-Dichloroethene	0.674	0.673	0.761	0.792	0.745	0.767	0.735	6.8
Bromochloromethane	0.501	0.611	0.482	0.450	0.500	0.523	0.511	10.7
Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.4
1,1,1-Trichloroethane	0.873	1.005	1.133	1.184	1.119	1.149	1.077	10.9
Methylcyclohexane	0.544	0.556	0.564	0.656	0.574	0.576	0.578	6.9
Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7
1,2-Dichloroethane	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.4
Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.5
1,2-Dichloropropane	0.288	0.322	0.361	0.371	0.346	0.350	0.340	8.8
Bromodichloromethane	0.349	0.425	0.501	0.544	0.528	0.545	0.482	16.4
4-Methyl-2-Pentanone	0.437	0.527	0.562	0.606	0.539	0.548	0.537	10.4
Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: MSVOA_X Calibration Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043925.D RRF005 = VX043926.D RRF020 = VX043927.D
RRF050 = VX043928.D RRF100 = VX043929.D RRF150 = VX043930.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.341	0.413	0.507	0.569	0.549	0.570	0.491	19.2
cis-1,3-Dichloropropene	0.409	0.462	0.569	0.611	0.580	0.601	0.539	15.4
1,1,2-Trichloroethane	0.287	0.340	0.375	0.370	0.340	0.345	0.343	9.1
2-Hexanone	0.297	0.393	0.431	0.471	0.410	0.419	0.403	14.5
Dibromochloromethane	0.249	0.292	0.344	0.396	0.380	0.401	0.344	18
1,2-Dibromoethane	0.258	0.339	0.373	0.385	0.358	0.367	0.346	13.3
Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.1
Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.1
Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.2
m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.6
o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.7
Styrene	0.859	1.025	1.174	1.263	1.186	1.217	1.121	13.5
Bromoform	0.145	0.200	0.222	0.284	0.286	0.306	0.240	25.9
Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.3
1,1,2,2-Tetrachloroethane	1.198	1.356	1.375	1.393	1.260	1.314	1.316	5.7
1,3-Dichlorobenzene	1.580	1.656	1.701	1.764	1.623	1.696	1.670	3.9
1,4-Dichlorobenzene	1.730	1.638	1.706	1.782	1.650	1.710	1.702	3.1
1,2-Dichlorobenzene	1.506	1.733	1.723	1.768	1.642	1.740	1.685	5.8
1,2-Dibromo-3-Chloropropane	0.213	0.254	0.252	0.284	0.275	0.304	0.264	12
1,2,4-Trichlorobenzene	0.849	0.905	0.987	1.084	1.012	1.125	0.994	10.5
1,2,3-Trichlorobenzene	0.753	0.960	1.055	1.118	1.018	1.130	1.006	13.8
1,2-Dichloroethane-d4		0.926	0.876	0.751	0.855	0.880	0.858	7.6
Dibromofluoromethane		0.371	0.353	0.327	0.359	0.376	0.357	5.4
Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.6
4-Bromofluorobenzene		0.401	0.414	0.387	0.438	0.455	0.419	6.6

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

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X112124W.M
Title : SW846 8260
Last Update : Fri Nov 22 03:45:52 2024
Response Via : Initial Calibration

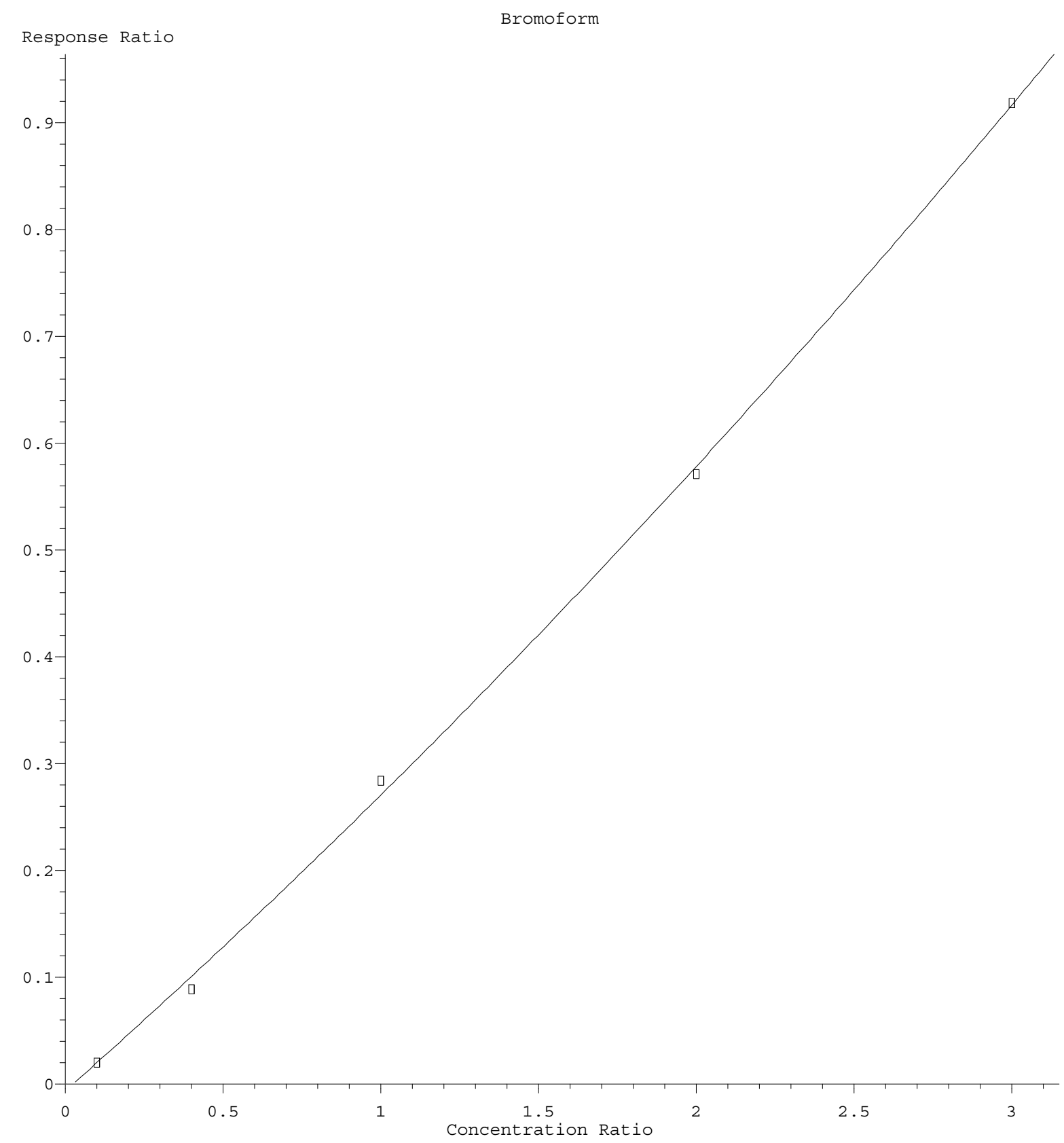
Calibration Files
1 =VX043925.D 5 =VX043926.D 20 =VX043927.D 50 =VX043928.D 100 =VX043929.D 150 =VX043930.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.634	0.633	0.641	0.684	0.601	0.608	0.633	4.64
3)	P	Chloromethane	0.578	0.662	0.720	0.697	0.665	0.677	0.667	7.26
4)	C	Vinyl Chloride	0.675	0.708	0.730	0.762	0.695	0.684	0.709	4.56#
5)	T	Bromomethane		0.425	0.438	0.445	0.429	0.442	0.436	1.95
6)	T	Chloroethane	0.579	0.429	0.404	0.459	0.368	0.354	0.432	18.87
7)	T	Trichlorofluor...	1.038	1.267	1.335	1.357	1.281	1.328	1.268	9.27
8)	T	Diethyl Ether	0.477	0.430	0.470	0.474	0.455	0.467	0.462	3.80
9)	T	1,1,2-Trichlor...	0.592	0.585	0.605	0.658	0.589	0.599	0.605	4.47
10)	T	Methyl Iodide		0.656	0.782	0.809	0.773	0.755	0.755	7.75
11)	T	Tert butyl alc...		0.123	0.133	0.145	0.134	0.154	0.138	8.73
12)	CM	1,1-Dichloroet...	0.596	0.530	0.585	0.600	0.572	0.576	0.576	4.38#
13)	T	Acrolein		0.158	0.128	0.145	0.145	0.148	0.145	7.53
14)	T	Allyl chloride	0.796	0.854	0.964	1.044	0.998	0.993	0.941	10.17
15)	T	Acrylonitrile	0.301	0.322	0.343	0.370	0.332	0.345	0.335	6.97
16)	T	Acetone	0.401	0.396	0.401	0.425	0.370	0.370	0.394	5.39
17)	T	Carbon Disulfide	1.082	0.956	1.078	1.287	1.330	1.398	1.188	14.64
18)	T	Methyl Acetate	0.931	0.871	0.911	0.987	0.894	0.910	0.917	4.32
19)	T	Methyl tert-bu...	1.732	1.991	2.212	2.264	2.160	2.192	2.092	9.52
20)	T	Methylene Chlo...	0.704	0.656	0.684	0.667	0.643	0.655	0.668	3.33
21)	T	trans-1,2-Dich...	0.545	0.563	0.609	0.633	0.600	0.619	0.595	5.72
22)	T	Diisopropyl ether	1.638	1.930	2.170	2.162	2.071	2.106	2.013	10.09
23)	T	Vinyl Acetate	1.244	1.542	1.833	1.941	1.858	1.914	1.722	15.93
24)	P	1,1-Dichloroet...	0.980	1.118	1.221	1.256	1.185	1.208	1.161	8.63
25)	T	2-Butanone	0.448	0.486	0.538	0.567	0.500	0.510	0.508	8.10
26)	T	2,2-Dichloropr...	0.902	0.997	1.062	1.141	1.082	1.109	1.049	8.28
27)	T	cis-1,2-Dichlo...	0.674	0.673	0.761	0.792	0.745	0.767	0.735	6.83
28)	T	Bromochloromet...	0.501	0.611	0.482	0.450	0.500	0.523	0.511	10.68
29)	T	Tetrahydrofuran	0.286	0.312	0.319	0.338	0.303	0.311	0.312	5.49
30)	C	Chloroform	1.070	1.238	1.309	1.316	1.269	1.293	1.249	7.41#
31)	T	Cyclohexane		0.911	0.976	1.041	0.926	0.925	0.956	5.60
32)	T	1,1,1-Trichlor...	0.873	1.005	1.133	1.184	1.119	1.149	1.077	10.86
33)	S	1,2-Dichloroet...		0.926	0.876	0.751	0.855	0.880	0.858	7.57
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.371	0.353	0.327	0.359	0.376	0.357	5.43
36)	T	1,1-Dichloropr...	0.382	0.430	0.449	0.494	0.452	0.465	0.445	8.36
37)	T	Ethyl Acetate	0.517	0.549	0.549	0.610	0.539	0.552	0.553	5.61
38)	T	Carbon Tetrach...	0.439	0.466	0.491	0.558	0.520	0.528	0.500	8.69
39)	T	Methylcyclohexane	0.544	0.556	0.564	0.656	0.574	0.576	0.578	6.91
40)	TM	Benzene	1.211	1.369	1.457	1.494	1.388	1.402	1.387	7.04
41)	T	Methacrylonitrile	0.219	0.278	0.292	0.329	0.291	0.289	0.283	12.67
42)	TM	1,2-Dichloroet...	0.499	0.546	0.585	0.603	0.551	0.558	0.557	6.41
43)	T	Isopropyl Acetate	0.745	0.840	0.893	0.976	0.894	0.928	0.880	9.07
44)	TM	Trichloroethene	0.547	0.372	0.368	0.373	0.345	0.352	0.393	19.47
45)	C	1,2-Dichloropr...	0.288	0.322	0.361	0.371	0.346	0.350	0.340	8.84#
46)	T	Dibromomethane	0.239	0.240	0.280	0.293	0.276	0.284	0.269	8.58
47)	T	Bromodichlorom...	0.349	0.425	0.501	0.544	0.528	0.545	0.482	16.40
48)	T	Methyl methacr...	0.387	0.385	0.423	0.467	0.427	0.443	0.422	7.57
49)	T	1,4-Dioxane	0.006	0.008	0.008	0.008	0.008	0.007	0.008	11.13
50)	S	Toluene-d8		1.327	1.237	1.104	1.232	1.257	1.232	6.58
51)	T	4-Methyl-2-Pen...	0.437	0.527	0.562	0.606	0.539	0.548	0.537	10.41
52)	CM	Toluene	0.636	0.839	0.883	0.921	0.850	0.852	0.830	12.02#
53)	T	t-1,3-Dichloro...	0.341	0.413	0.507	0.569	0.549	0.570	0.491	19.21
54)	T	cis-1,3-Dichlo...	0.409	0.462	0.569	0.611	0.580	0.601	0.539	15.38
55)	T	1,1,2-Trichlor...	0.287	0.340	0.375	0.370	0.340	0.345	0.343	9.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X112124W.M

56)	T	Ethyl methacry...	0.379	0.467	0.571	0.614	0.582	0.590	0.534	17.12
57)	T	1,3-Dichloropr...	0.480	0.574	0.620	0.625	0.579	0.585	0.577	9.04
58)	T	2-Chloroethyl ...	0.159	0.327	0.276	0.307	0.284	0.287	0.273	21.65
59)	T	2-Hexanone	0.297	0.393	0.431	0.471	0.410	0.419	0.403	14.49
60)	T	Dibromochlorom...	0.249	0.292	0.344	0.396	0.380	0.401	0.344	17.98
61)	T	1,2-Dibromoethane	0.258	0.339	0.373	0.385	0.358	0.367	0.346	13.33
62)	S	4-Bromofluorob...		0.401	0.414	0.387	0.438	0.455	0.419	6.61
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.304	0.342	0.336	0.349	0.315	0.332	0.330	5.14
65)	PM	Chlorobenzene	1.050	1.109	1.107	1.145	1.069	1.108	1.098	3.05
66)	T	1,1,1,2-Tetrac...	0.260	0.332	0.371	0.395	0.382	0.396	0.356	14.75
67)	C	Ethyl Benzene	1.579	1.831	1.910	2.024	1.884	1.938	1.861	8.19#
68)	T	m/p-Xylenes	0.610	0.663	0.704	0.762	0.700	0.725	0.694	7.57
69)	T	o-Xylene	0.543	0.665	0.691	0.757	0.693	0.716	0.678	10.75
70)	T	Styrene	0.859	1.025	1.174	1.263	1.186	1.217	1.121	13.47
71)	P	Bromoform	0.145	0.200	0.222	0.284	0.286	0.306	0.240	25.88
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.435	3.927	3.996	4.097	3.679	3.927	3.843	6.32
74)	T	N-amyl acetate	1.249	1.648	1.867	1.996	1.895	2.029	1.780	16.45
75)	P	1,1,2,2-Tetrac...	1.198	1.356	1.375	1.393	1.260	1.314	1.316	5.70
76)	T	1,2,3-Trichlor...	0.863	1.246	1.153	1.181	1.053	1.084	1.096	12.17
77)	T	Bromobenzene	0.794	0.958	0.955	0.975	0.883	0.936	0.917	7.40
78)	T	n-propylbenzene	3.667	4.115	4.469	4.733	4.286	4.486	4.293	8.63
79)	T	2-Chlorotoluene	2.487	2.766	2.868	2.857	2.581	2.726	2.714	5.62
80)	T	1,3,5-Trimethy...	2.704	3.115	3.352	3.444	3.118	3.238	3.162	8.19
81)	T	trans-1,4-Dich...		0.298	0.374	0.443	0.423	0.471	0.402	16.90
82)	T	4-Chlorotoluene	2.660	3.005	3.187	3.329	3.025	3.180	3.064	7.54
83)	T	tert-Butylbenzene	2.581	3.097	3.266	3.440	3.152	3.269	3.134	9.42
84)	T	1,2,4-Trimethy...	2.557	3.173	3.366	3.440	3.124	3.228	3.148	9.95
85)	T	sec-Butylbenzene	3.116	3.921	3.968	4.249	3.812	3.974	3.840	9.97
86)	T	p-Isopropyltol...	2.255	3.043	3.316	3.521	3.219	3.362	3.119	14.50
87)	T	1,3-Dichlorobe...	1.580	1.656	1.701	1.764	1.623	1.696	1.670	3.88
88)	T	1,4-Dichlorobe...	1.730	1.638	1.706	1.782	1.650	1.710	1.702	3.10
89)	T	n-Butylbenzene	1.897	2.580	2.805	3.184	2.909	3.126	2.750	17.18
90)	T	Hexachloroethane	0.450	0.443	0.496	0.588	0.581	0.625	0.530	14.64
91)	T	1,2-Dichlorobe...	1.506	1.733	1.723	1.768	1.642	1.740	1.685	5.79
92)	T	1,2-Dibromo-3-...	0.213	0.254	0.252	0.284	0.275	0.304	0.264	12.00
93)	T	1,2,4-Trichlor...	0.849	0.905	0.987	1.084	1.012	1.125	0.994	10.53
94)	T	Hexachlorobuta...	0.382	0.384	0.376	0.411	0.384	0.419	0.393	4.54
95)	T	Naphthalene	2.605	3.361	3.698	4.005	3.733	4.058	3.576	15.03
96)	T	1,2,3-Trichlor...	0.753	0.960	1.055	1.118	1.018	1.130	1.006	13.83

(#) = Out of Range



R = 1.533e-002 A*A + 2.616e-001 A - 6.311e-003
Coef of Det (r^2) = 0.999408 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X112124W.M
Calibration Table Last Updated: Fri Nov 22 03:45:52 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	138810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	250758	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	211620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	102312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	123698	58.016	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.040%			
35) Dibromofluoromethane	5.379	113	92258	54.792	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.580%			
50) Toluene-d8	8.647	98	312682	55.587	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 111.180%			
62) 4-Bromofluorobenzene	11.079	95	112440	60.492	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 120.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	87148	62.046	ug/l	98
3) Chloromethane	1.294	50	98071	55.867	ug/l	99
4) Vinyl Chloride	1.374	62	98663	55.940	ug/l	97
5) Bromomethane	1.593	94	55648	69.459	ug/l	100
6) Chloroethane	1.660	64	49530	58.791	ug/l	99
7) Trichlorofluoromethane	1.867	101	174189	69.274	ug/l	100
8) Diethyl Ether	2.136	74	61407	64.776	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	78888	53.013	ug/l	98
10) Methyl Iodide	2.441	142	108199	51.664	ug/l	95
11) Tert butyl alcohol	3.001	59	96228	283.818	ug/l	99
12) 1,1-Dichloroethene	2.306	96	77411	53.599	ug/l	87
13) Acrolein	2.239	56	103637	272.556	ug/l	99
14) Allyl chloride	2.654	41	136615	58.343	ug/l	89
15) Acrylonitrile	3.068	53	241080	276.221	ug/l	98
16) Acetone	2.392	43	227575	265.748	ug/l	93
17) Carbon Disulfide	2.502	76	170454	54.052	ug/l	99
18) Methyl Acetate	2.703	43	128026	54.593	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	308920	57.868	ug/l	99
20) Methylene Chloride	2.782	84	92077	51.368	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	87463	55.548	ug/l	97
22) Diisopropyl ether	3.763	45	296742	58.005	ug/l	96
23) Vinyl Acetate	3.721	43	1303089	314.256	ug/l	98
24) 1,1-Dichloroethane	3.605	63	169925	56.478	ug/l	100
25) 2-Butanone	4.562	43	345310	288.244	ug/l	97
26) 2,2-Dichloropropane	4.465	77	141245	57.127	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	106274	54.236	ug/l	96
28) Bromochloromethane	4.891	49	68700	54.265	ug/l	94
29) Tetrahydrofuran	5.007	42	220135	284.374	ug/l	97
30) Chloroform	5.086	83	178903	57.044	ug/l	100
31) Cyclohexane	5.458	56	128800	52.818	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	155630	58.048	ug/l	98
36) 1,1-Dichloropropene	5.684	75	112658	53.685	ug/l	99
37) Ethyl Acetate	4.715	43	139478	59.057	ug/l	97
38) Carbon Tetrachloride	5.666	117	124606	56.086	ug/l	98
39) Methylcyclohexane	7.373	83	138032	52.543	ug/l	97
40) Benzene	6.031	78	349857	53.028	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	73757	59.928 ug/l		96
42) 1,2-Dichloroethane	6.080	62	141058	58.882 ug/l		97
43) Isopropyl Acetate	6.342	43	224533	60.266 ug/l		94
44) Trichloroethene	7.123	130	87313	48.004 ug/l		99
45) 1,2-Dichloropropane	7.427	63	87107	53.869 ug/l		100
46) Dibromomethane	7.580	93	69900	57.366 ug/l		95
47) Bromodichloromethane	7.818	83	125370	58.559 ug/l		97
48) Methyl methacrylate	7.696	41	105250	56.995 ug/l	#	88
49) 1,4-Dioxane	7.665	88	45681m	1161.399 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	689501	296.806 ug/l		95
52) Toluene	8.714	92	217080	57.032 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	128331	59.078 ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	139851	56.813 ug/l	#	91
55) 1,1,2-Trichloroethane	9.153	97	86975	58.565 ug/l		98
56) Ethyl methacrylate	9.116	69	141716	60.268 ug/l	#	89
57) 1,3-Dichloropropane	9.305	76	146448	58.860 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	346010	280.598 ug/l		98
59) 2-Hexanone	9.433	43	513732	313.432 ug/l		94
60) Dibromochloromethane	9.519	129	90863	62.789 ug/l		99
61) 1,2-Dibromoethane	9.610	107	89087	57.509 ug/l		98
64) Tetrachloroethene	9.269	164	69945	51.529 ug/l		97
65) Chlorobenzene	10.079	112	230498	52.143 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	80691	54.848 ug/l		97
67) Ethyl Benzene	10.189	91	404866	54.424 ug/l		98
68) m/p-Xylenes	10.299	106	300638	108.500 ug/l		96
69) o-Xylene	10.640	106	149788	55.404 ug/l		99
70) Styrene	10.652	104	250564	56.236 ug/l		97
71) Bromoform	10.799	173	56733	49.198 ug/l	#	97
73) Isopropylbenzene	10.963	105	387920	53.117 ug/l		99
74) N-amyl acetate	10.841	43	193137	51.587 ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.213	83	134303	54.391 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	110813m	53.071 ug/l		
77) Bromobenzene	11.195	156	92179	51.501 ug/l		98
78) n-propylbenzene	11.305	91	441866	54.835 ug/l		98
79) 2-Chlorotoluene	11.366	91	277003	54.025 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	322601	53.291 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	39924	48.469 ug/l		93
82) 4-Chlorotoluene	11.451	91	313937	53.165 ug/l		98
83) tert-Butylbenzene	11.713	119	320262	51.719 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	327564	53.283 ug/l		98
85) sec-Butylbenzene	11.890	105	389571	52.682 ug/l		99
86) p-Isopropyltoluene	12.006	119	325801	52.472 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	168646	50.841 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	167075	49.126 ug/l		98
89) n-Butylbenzene	12.329	91	283194	53.527 ug/l		98
90) Hexachloroethane	12.536	117	55605	46.087 ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	169920	48.926 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	27323	45.200 ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	98885	48.719 ug/l		97
94) Hexachlorobutadiene	13.725	225	39642	47.658 ug/l		98
95) Naphthalene	13.774	128	381936	50.468 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	104145	49.248 ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

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

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

ICAL Form

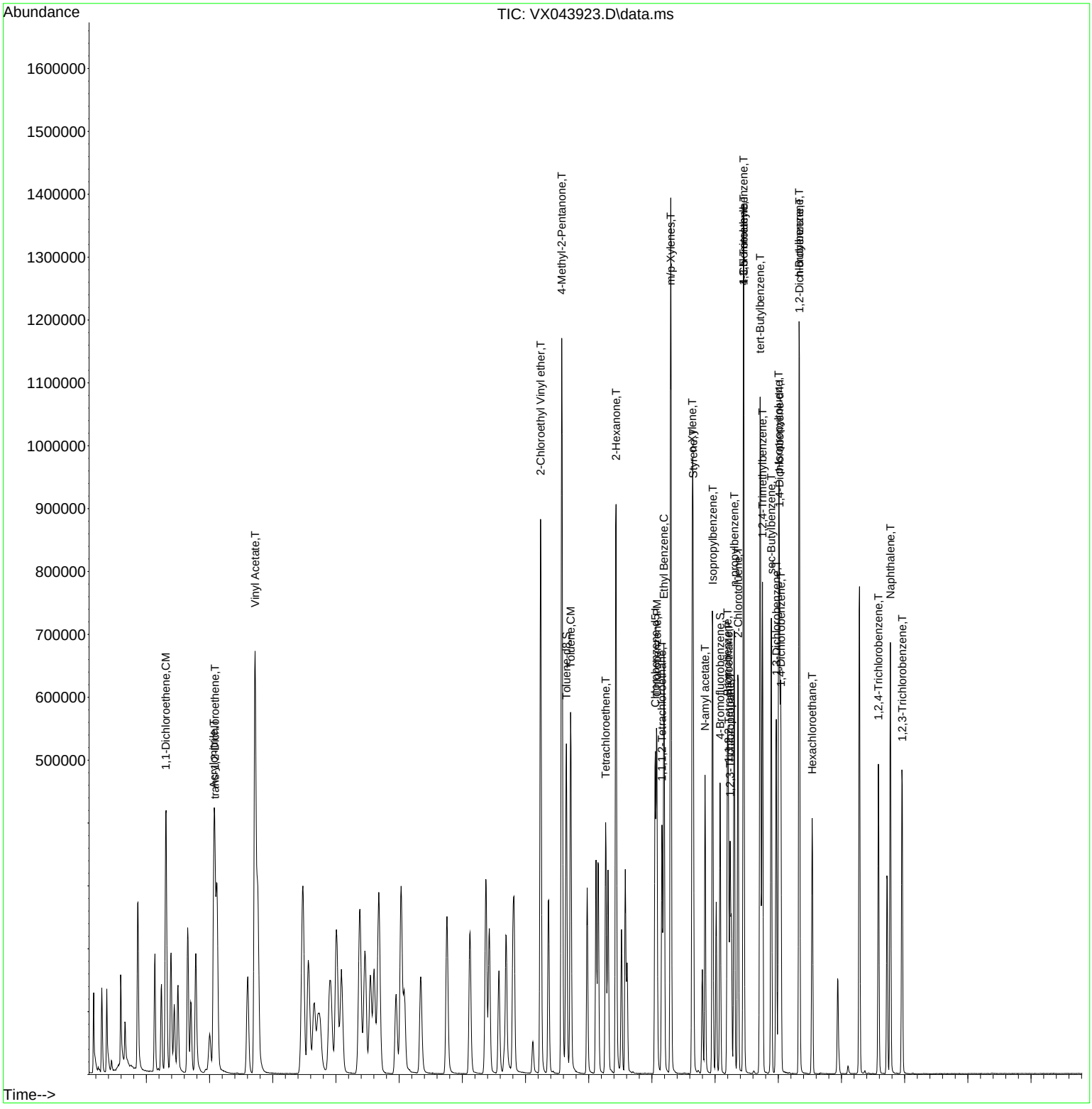
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/21/2024
Supervised By :Mahesh Dadoda 11/22/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	78	0.00
2	T	Dichlorodifluoromethane	0.611	0.628	-2.8	89	0.00
3	P	Chloromethane	0.660	0.707	-7.1	84	0.00
4	C	Vinyl Chloride	0.680	0.711	-4.6#	94	0.00
5	T	Bromomethane	0.408	0.401	1.7	102	0.00
6	T	Chloroethane	0.401	0.357	11.0	102	0.00
7	T	Trichlorofluoromethane	1.197	1.255	-4.8	105	0.00
8	T	Diethyl Ether	0.440	0.442	-0.5	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.568	2.7	83	0.00
10	T	Methyl Iodide	0.749	0.779	-4.0	78	0.00
11	T	Tert butyl alcohol	0.138	0.139	-0.7	93	0.00
12	CM	1,1-Dichloroethene	0.566	0.558	1.4#	80	0.00
13	T	Acrolein	0.145	0.149	-2.8	81	0.00
14	T	Allyl chloride	0.921	0.984	-6.8	83	0.00
15	T	Acrylonitrile	0.328	0.347	-5.8	83	0.00
16	T	Acetone	0.373	0.328	12.1	85	0.00
17	T	Carbon Disulfide	1.163	1.228	-5.6	84	0.00
18	T	Methyl Acetate	0.892	0.922	-3.4	86	0.00
19	T	Methyl tert-butyl Ether	2.047	2.225	-8.7	87	0.00
20	T	Methylene Chloride	0.662	0.663	-0.2	82	0.00
21	T	trans-1,2-Dichloroethene	0.586	0.630	-7.5	84	0.00
22	T	Diisopropyl ether	1.969	2.138	-8.6	87	0.00
23	T	Vinyl Acetate	1.666	1.878	-12.7	91	0.00
24	P	1,1-Dichloroethane	1.137	1.224	-7.7	86	0.00
25	T	2-Butanone	0.489	0.498	-1.8	86	0.00
26	T	2,2-Dichloropropane	1.009	1.018	-0.9	87	0.00
27	T	cis-1,2-Dichloroethene	0.723	0.766	-5.9	83	0.00
28	T	Bromochloromethane	0.512	0.495	3.3	84	0.00
29	T	Tetrahydrofuran	0.303	0.317	-4.6	86	0.00
30	C	Chloroform	1.221	1.289	-5.6#	87	0.00
31	T	Cyclohexane	0.922	0.928	-0.7	83	0.00
32	T	1,1,1-Trichloroethane	1.047	1.121	-7.1	87	0.00
33	S	1,2-Dichloroethane-d4	0.864	0.891	-3.1	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
35	S	Dibromofluoromethane	0.360	0.368	-2.2	82	0.00
36	T	1,1-Dichloropropene	0.431	0.449	-4.2	84	0.00
37	T	Ethyl Acetate	0.514	0.556	-8.2	90	0.00
38	T	Carbon Tetrachloride	0.480	0.497	-3.5	87	0.00
39	T	Methylcyclohexane	0.555	0.550	0.9	81	0.00
40	TM	Benzene	1.360	1.395	-2.6	80	0.00
41	T	Methacrylonitrile	0.274	0.294	-7.3	87	0.00
42	TM	1,2-Dichloroethane	0.536	0.563	-5.0	90	0.00
43	T	Isopropyl Acetate	0.840	0.895	-6.5	92	0.00
44	TM	Trichloroethene	0.385	0.348	9.6	82	0.00
45	C	1,2-Dichloropropane	0.331	0.347	-4.8#	82	0.00
46	T	Dibromomethane	0.260	0.279	-7.3	87	0.00
47	T	Bromodichloromethane	0.467	0.500	-7.1	84	0.00
48	T	Methyl methacrylate	0.388	0.420	-8.2	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	0.009	-50.0#	120	0.00
50	S	Toluene-d8	1.247	1.247	0.0	80	0.00
51	T	4-Methyl-2-Pentanone	0.515	0.550	-6.8	88	0.00
52	CM	Toluene	0.812	0.866	-6.7#	81	0.00
53	T	t-1,3-Dichloropropene	0.475	0.512	-7.8	83	0.00
54	T	cis-1,3-Dichloropropene	0.521	0.558	-7.1	84	0.00
55	T	1,1,2-Trichloroethane	0.335	0.347	-3.6	82	0.00
56	T	Ethyl methacrylate	0.519	0.565	-8.9	82	0.00
57	T	1,3-Dichloropropane	0.564	0.584	-3.5	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.265	0.276	-4.2	82	0.00
59	T	2-Hexanone	0.384	0.410	-6.8	88	0.00
60	T	Dibromochloromethane	0.333	0.362	-8.7	84	0.00
61	T	1,2-Dibromoethane	0.337	0.355	-5.3	82	0.00
62	S	4-Bromofluorobenzene	0.426	0.448	-5.2	81	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
64	T	Tetrachloroethene	0.325	0.331	-1.8	79	0.00
65	PM	Chlorobenzene	1.085	1.089	-0.4	78	0.00
66	T	1,1,1,2-Tetrachloroethane	0.350	0.381	-8.9	81	0.00
67	C	Ethyl Benzene	1.828	1.913	-4.6#	80	0.00
68	T	m/p-Xylenes	0.682	0.710	-4.1	78	0.00
69	T	o-Xylene	0.665	0.708	-6.5	79	0.00
70	T	Styrene	1.104	1.184	-7.2	78	0.00
71	P	Bromoform	0.234	0.268	-14.5	83	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
73	T	Isopropylbenzene	3.765	3.792	-0.7	81	0.00
74	T	N-amyl acetate	1.717	1.888	-10.0	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.289	1.313	-1.9	82	0.00
76	T	1,2,3-Trichloropropane	1.069	1.083	-1.3	82	0.00
77	T	Bromobenzene	0.902	0.901	0.1	78	0.00
78	T	n-propylbenzene	4.192	4.319	-3.0	81	0.00
79	T	2-Chlorotoluene	2.665	2.707	-1.6	81	0.00
80	T	1,3,5-Trimethylbenzene	3.096	3.153	-1.8	80	0.00
81	T	trans-1,4-Dichloro-2-butene	0.388	0.390	-0.5	80	0.00
82	T	4-Chlorotoluene	3.000	3.068	-2.3	80	0.00
83	T	tert-Butylbenzene	3.073	3.130	-1.9	78	0.00
84	T	1,2,4-Trimethylbenzene	3.094	3.202	-3.5	79	0.00
85	T	sec-Butylbenzene	3.750	3.808	-1.5	79	0.00
86	T	p-Isopropyltoluene	3.057	3.184	-4.2	78	0.00
87	T	1,3-Dichlorobenzene	1.647	1.648	-0.1	78	0.00
88	T	1,4-Dichlorobenzene	1.648	1.633	0.9	78	0.00
89	T	n-Butylbenzene	2.657	2.768	-4.2	81	0.00
90	T	Hexachloroethane	0.515	0.543	-5.4	85	0.00
91	T	1,2-Dichlorobenzene	1.665	1.661	0.2	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.267	-3.5	83	0.00
93	T	1,2,4-Trichlorobenzene	0.976	0.967	0.9	76	0.00
94	T	Hexachlorobutadiene	0.386	0.387	-0.3	80	0.00
95	T	Naphthalene	3.532	3.733	-5.7	77	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	0.991	1.018	-2.7	76	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	78	0.00
2	T	Dichlorodifluoromethane	50.000	62.046	-24.1	89	0.00
3	P	Chloromethane	50.000	55.867	-11.7	84	0.00
4	C	Vinyl Chloride	50.000	55.940	-11.9#	94	0.00
5	T	Bromomethane	50.000	69.459	-38.9#	102	0.00
6	T	Chloroethane	50.000	58.791	-17.6	102	0.00
7	T	Trichlorofluoromethane	50.000	69.274	-38.5#	105	0.00
8	T	Diethyl Ether	50.000	64.776	-29.6#	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.013	-6.0	83	0.00
10	T	Methyl Iodide	50.000	51.664	-3.3	78	0.00
11	T	Tert butyl alcohol	250.000	283.818	-13.5	93	0.00
12	CM	1,1-Dichloroethene	50.000	53.599	-7.2#	80	0.00
13	T	Acrolein	250.000	272.556	-9.0	81	0.00
14	T	Allyl chloride	50.000	58.343	-16.7	83	0.00
15	T	Acrylonitrile	250.000	276.221	-10.5	83	0.00
16	T	Acetone	250.000	265.748	-6.3	85	0.00
17	T	Carbon Disulfide	50.000	54.052	-8.1	84	0.00
18	T	Methyl Acetate	50.000	54.593	-9.2	86	0.00
19	T	Methyl tert-butyl Ether	50.000	57.868	-15.7	87	0.00
20	T	Methylene Chloride	50.000	51.368	-2.7	82	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.548	-11.1	84	0.00
22	T	Diisopropyl ether	50.000	58.005	-16.0	87	0.00
23	T	Vinyl Acetate	250.000	314.256	-25.7#	91	0.00
24	P	1,1-Dichloroethane	50.000	56.478	-13.0	86	0.00
25	T	2-Butanone	250.000	288.244	-15.3	86	0.00
26	T	2,2-Dichloropropane	50.000	57.127	-14.3	87	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.236	-8.5	83	0.00
28	T	Bromochloromethane	50.000	54.265	-8.5	84	0.00
29	T	Tetrahydrofuran	250.000	284.374	-13.7	86	0.00
30	C	Chloroform	50.000	57.044	-14.1#	87	0.00
31	T	Cyclohexane	50.000	52.818	-5.6	83	0.00
32	T	1,1,1-Trichloroethane	50.000	58.048	-16.1	87	0.00
33	S	1,2-Dichloroethane-d4	50.000	58.016	-16.0	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	76	0.00
35	S	Dibromofluoromethane	50.000	54.792	-9.6	82	0.00
36	T	1,1-Dichloropropene	50.000	53.685	-7.4	84	0.00
37	T	Ethyl Acetate	50.000	59.057	-18.1	90	0.00
38	T	Carbon Tetrachloride	50.000	56.086	-12.2	87	0.00
39	T	Methylcyclohexane	50.000	52.543	-5.1	81	0.00
40	TM	Benzene	50.000	53.028	-6.1	80	0.00
41	T	Methacrylonitrile	50.000	59.928	-19.9	87	0.00
42	TM	1,2-Dichloroethane	50.000	58.882	-17.8	90	0.00
43	T	Isopropyl Acetate	50.000	60.266	-20.5	92	0.00
44	TM	Trichloroethene	50.000	48.004	4.0	82	0.00
45	C	1,2-Dichloropropane	50.000	53.869	-7.7#	82	0.00
46	T	Dibromomethane	50.000	57.366	-14.7	87	0.00
47	T	Bromodichloromethane	50.000	58.559	-17.1	84	0.00
48	T	Methyl methacrylate	50.000	56.995	-14.0	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	1161.399	-16.1	120	0.00
50	S	Toluene-d8	50.000	55.587	-11.2	80	0.00
51	T	4-Methyl-2-Pentanone	250.000	296.806	-18.7	88	0.00
52	CM	Toluene	50.000	57.032	-14.1#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	59.078	-18.2	83	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.813	-13.6	84	0.00
55	T	1,1,2-Trichloroethane	50.000	58.565	-17.1	82	0.00
56	T	Ethyl methacrylate	50.000	60.268	-20.5	82	0.00
57	T	1,3-Dichloropropane	50.000	58.860	-17.7	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.598	-12.2	82	0.00
59	T	2-Hexanone	250.000	313.432	-25.4#	88	0.00
60	T	Dibromochloromethane	50.000	62.789	-25.6#	84	0.00
61	T	1,2-Dibromoethane	50.000	57.509	-15.0	82	0.00
62	S	4-Bromofluorobenzene	50.000	60.492	-21.0	81	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	77	0.00
64	T	Tetrachloroethene	50.000	51.529	-3.1	79	0.00
65	PM	Chlorobenzene	50.000	52.143	-4.3	78	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.848	-9.7	81	0.00
67	C	Ethyl Benzene	50.000	54.424	-8.8#	80	0.00
68	T	m/p-Xylenes	100.000	108.500	-8.5	78	0.00
69	T	o-Xylene	50.000	55.404	-10.8	79	0.00
70	T	Styrene	50.000	56.236	-12.5	78	0.00
71	P	Bromoform	50.000	49.198	1.6	83	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	77	0.00
73	T	Isopropylbenzene	50.000	53.117	-6.2	81	0.00
74	T	N-amyl acetate	50.000	51.587	-3.2	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.391	-8.8	82	0.00
76	T	1,2,3-Trichloropropane	50.000	53.071	-6.1	82	0.00
77	T	Bromobenzene	50.000	51.501	-3.0	78	0.00
78	T	n-propylbenzene	50.000	54.835	-9.7	81	0.00
79	T	2-Chlorotoluene	50.000	54.025	-8.0	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.291	-6.6	80	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.469	3.1	80	0.00
82	T	4-Chlorotoluene	50.000	53.165	-6.3	80	0.00
83	T	tert-Butylbenzene	50.000	51.719	-3.4	78	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.283	-6.6	79	0.00
85	T	sec-Butylbenzene	50.000	52.682	-5.4	79	0.00
86	T	p-Isopropyltoluene	50.000	52.472	-4.9	78	0.00
87	T	1,3-Dichlorobenzene	50.000	50.841	-1.7	78	0.00
88	T	1,4-Dichlorobenzene	50.000	49.126	1.7	78	0.00
89	T	n-Butylbenzene	50.000	53.527	-7.1	81	0.00
90	T	Hexachloroethane	50.000	46.087	7.8	85	0.00
91	T	1,2-Dichlorobenzene	50.000	48.926	2.1	78	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.200	9.6	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.719	2.6	76	0.00
94	T	Hexachlorobutadiene	50.000	47.658	4.7	80	0.00
95	T	Naphthalene	50.000	50.468	-0.9	77	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043923.D
Acq On : 20 Nov 2024 19:16
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 21 07:05:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 07:00:56 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	49.248	1.5	76	0.00

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	148984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	260569	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	92854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	1889	1.001	ug/l	88
3) Chloromethane	1.295	50	1723	0.868	ug/l	90
4) Vinyl Chloride	1.374	62	2010	0.951	ug/l #	81
6) Chloroethane	1.666	64	1724	1.339	ug/l #	82
7) Trichlorofluoromethane	1.874	101	3093	0.819	ug/l	92
8) Diethyl Ether	2.136	74	1421	1.032	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.313	101	1764	0.979	ug/l	94
12) 1,1-Dichloroethene	2.300	96	1775	1.034	ug/l #	62
14) Allyl chloride	2.654	41	2371	0.845	ug/l	87
15) Acrylonitrile	3.063	53	4483	4.485	ug/l	95
16) Acetone	2.386	43	5977	5.093	ug/l #	86
17) Carbon Disulfide	2.502	76	3223	0.910	ug/l	99
18) Methyl Acetate	2.703	43	2775	1.015	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	5162	0.828	ug/l	94
20) Methylene Chloride	2.782	84	2099	1.054	ug/l #	73
21) trans-1,2-Dichloroethene	3.081	96	1624	0.916	ug/l	97
22) Diisopropyl ether	3.751	45	4882	0.814	ug/l #	30
23) Vinyl Acetate	3.727	43	18541	3.613	ug/l	98
24) 1,1-Dichloroethane	3.593	63	2919	0.844	ug/l #	94
25) 2-Butanone	4.581	43	6676	4.408	ug/l	92
26) 2,2-Dichloropropane	4.459	77	2687	0.860	ug/l	86
27) cis-1,2-Dichloroethene	4.495	96	2007	0.916	ug/l	89
28) Bromochloromethane	4.904	49	1494m	0.981	ug/l	
29) Tetrahydrofuran	5.013	42	4264	4.593	ug/l	95
30) Chloroform	5.093	83	3187	0.856	ug/l #	76
32) 1,1,1-Trichloroethane	5.373	97	2600	0.810	ug/l #	46
36) 1,1-Dichloropropene	5.690	75	1993	0.859	ug/l #	80
37) Ethyl Acetate	4.733	43	2692m	0.935	ug/l	
38) Carbon Tetrachloride	5.660	117	2287	0.877	ug/l #	78
39) Methylcyclohexane	7.379	83	2835	0.941	ug/l	90
40) Benzene	6.032	78	6312	0.873	ug/l #	84
41) Methacrylonitrile	4.934	41	1141m	0.774	ug/l	
42) 1,2-Dichloroethane	6.086	62	2602	0.896	ug/l	84
43) Isopropyl Acetate	6.355	43	3881	0.847	ug/l #	90
44) Trichloroethene	7.123	130	2850	1.393	ug/l	82
45) 1,2-Dichloropropane	7.428	63	1503	0.849	ug/l	100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.580	93	1246	0.890	ug/l		94
47) Bromodichloromethane	7.824	83	1819	0.724	ug/l	#	93
48) Methyl methacrylate	7.702	41	2017m	0.917	ug/l		
49) 1,4-Dioxane	7.671	88	613	16.166	ug/l	#	50
51) 4-Methyl-2-Pentanone	8.574	43	11392	4.073	ug/l		96
52) Toluene	8.714	92	3313	0.766	ug/l		82
53) t-1,3-Dichloropropene	8.988	75	1776	0.694	ug/l	#	86
54) cis-1,3-Dichloropropene	8.366	75	2132	0.759	ug/l	#	84
55) 1,1,2-Trichloroethane	9.153	97	1496	0.838	ug/l	#	85
56) Ethyl methacrylate	9.122	69	1973	0.709	ug/l	#	82
57) 1,3-Dichloropropane	9.305	76	2502	0.832	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.245	63	4135	2.662	ug/l		93
59) 2-Hexanone	9.439	43	7726	3.675	ug/l		99
60) Dibromochloromethane	9.519	129	1296	0.723	ug/l		93
61) 1,2-Dibromoethane	9.610	107	1342	0.743	ug/l	#	80
64) Tetrachloroethene	9.269	164	1329	0.924	ug/l		88
65) Chlorobenzene	10.073	112	4585	0.957	ug/l	#	86
66) 1,1,1,2-Tetrachloroethane	10.165	131	1136	0.731	ug/l	#	66
67) Ethyl Benzene	10.195	91	6890	0.848	ug/l	#	86
68) m/p-Xylenes	10.305	106	5324	1.758	ug/l		95
69) o-Xylene	10.640	106	2370	0.801	ug/l		95
70) Styrene	10.665	104	3751	0.767	ug/l		97
71) Bromoform	10.799	173	632	1.756	ug/l	#	87
73) Isopropylbenzene	10.964	105	6379	0.894	ug/l		94
74) N-amyl acetate	10.848	43	2319	0.701	ug/l		93
75) 1,1,2,2-Tetrachloroethane	11.214	83	2224	0.910	ug/l		83
76) 1,2,3-Trichloropropane	11.244	75	1603m	0.801	ug/l		
77) Bromobenzene	11.201	156	1475	0.866	ug/l		94
78) n-propylbenzene	11.305	91	6810	0.854	ug/l		95
79) 2-Chlorotoluene	11.366	91	4618	0.916	ug/l		92
80) 1,3,5-Trimethylbenzene	11.451	105	5022	0.855	ug/l		96
82) 4-Chlorotoluene	11.457	91	4940	0.868	ug/l		94
83) tert-Butylbenzene	11.713	119	4794	0.824	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	4748	0.812	ug/l		99
85) sec-Butylbenzene	11.890	105	5787	0.812	ug/l		94
86) p-Isopropyltoluene	12.012	119	4187	0.723	ug/l		87
87) 1,3-Dichlorobenzene	11.969	146	2934	0.946	ug/l		93
88) 1,4-Dichlorobenzene	12.043	146	3212m	1.020	ug/l		
89) n-Butylbenzene	12.335	91	3522	0.690	ug/l		93
90) Hexachloroethane	12.536	117	835	0.848	ug/l		86
91) 1,2-Dichlorobenzene	12.335	146	2796	0.893	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.957	75	395	0.807	ug/l		65
93) 1,2,4-Trichlorobenzene	13.597	180	1576	0.854	ug/l		78
94) Hexachlorobutadiene	13.725	225	709	0.972	ug/l		89
95) Naphthalene	13.780	128	4837	0.728	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	1398	0.749	ug/l		81

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

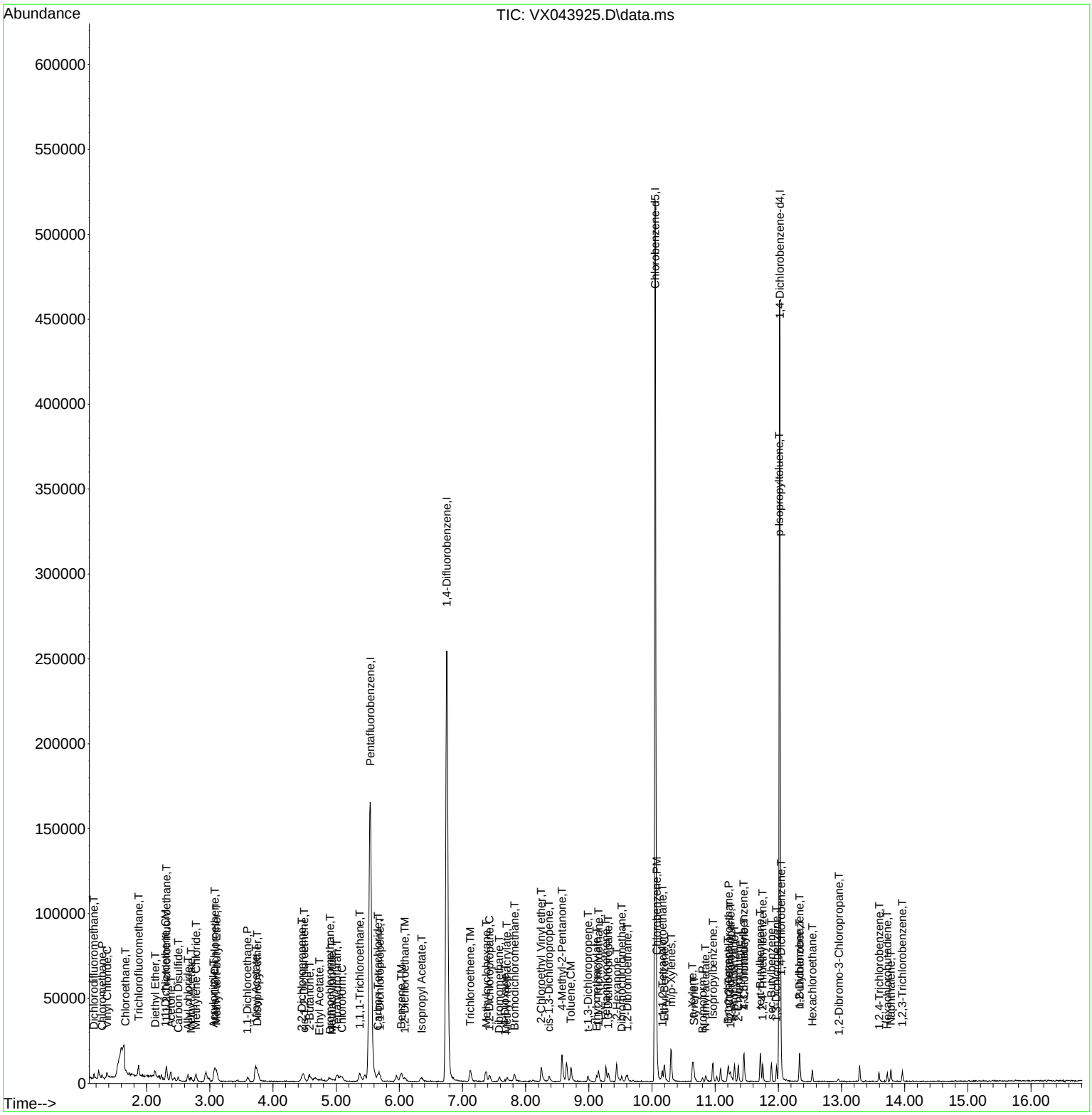
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043925.D
Acq On : 21 Nov 2024 09:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 22 03:27:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	150793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	264969	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	223514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96662	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	13961	5.398	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.800%#		
35) Dibromofluoromethane	5.379	113	9842	5.198	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.400%#		
50) Toluene-d8	8.646	98	35173	5.389	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.780%#		
62) 4-Bromofluorobenzene	11.079	95	10618	4.780	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.560%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9545	4.997	ug/l	87
3) Chloromethane	1.294	50	9980	4.965	ug/l	98
4) Vinyl Chloride	1.373	62	10682	4.996	ug/l	100
5) Bromomethane	1.593	94	6415	4.877	ug/l	90
6) Chloroethane	1.666	64	6474	4.969	ug/l	99
7) Trichlorofluoromethane	1.867	101	19099	4.996	ug/l	91
8) Diethyl Ether	2.129	74	6480	4.651	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.318	101	8824	4.839	ug/l	98
10) Methyl Iodide	2.440	142	9897	4.346	ug/l	98
11) Tert butyl alcohol	2.995	59	9278m	22.349	ug/l	
12) 1,1-Dichloroethene	2.306	96	7987	4.597	ug/l	87
13) Acrolein	2.239	56	11940	27.287	ug/l	97
14) Allyl chloride	2.654	41	12874	4.534	ug/l	96
15) Acrylonitrile	3.062	53	24290	24.010	ug/l	99
16) Acetone	2.385	43	29886	25.159	ug/l	95
17) Carbon Disulfide	2.495	76	14415	4.022	ug/l #	94
18) Methyl Acetate	2.702	43	13127	4.745	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	30022	4.759	ug/l #	88
20) Methylene Chloride	2.782	84	9895	4.909	ug/l	95
21) trans-1,2-Dichloroethene	3.080	96	8486	4.730	ug/l #	80
22) Diisopropyl ether	3.757	45	29102	4.794	ug/l #	65
23) Vinyl Acetate	3.721	43	116242	22.382	ug/l	100
24) 1,1-Dichloroethane	3.599	63	16857	4.813	ug/l	98
25) 2-Butanone	4.568	43	36680	23.931	ug/l	96
26) 2,2-Dichloropropane	4.458	77	15040	4.755	ug/l #	76
27) cis-1,2-Dichloroethene	4.477	96	10153	4.579	ug/l	96
28) Bromochloromethane	4.891	49	9210	5.974	ug/l	100
29) Tetrahydrofuran	5.007	42	23518	25.028	ug/l	96
30) Chloroform	5.086	83	18661	4.954	ug/l	97
31) Cyclohexane	5.458	56	13740	4.767	ug/l #	85
32) 1,1,1-Trichloroethane	5.379	97	15162	4.667	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11406	4.834	ug/l	97
37) Ethyl Acetate	4.720	43	14551m	4.968	ug/l	
38) Carbon Tetrachloride	5.665	117	12348	4.658	ug/l	97
39) Methylcyclohexane	7.372	83	14721	4.803	ug/l	95
40) Benzene	6.031	78	36283	4.937	ug/l	94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	7355	4.907	ug/l	#	95
42) 1,2-Dichloroethane	6.080	62	14467	4.901	ug/l		99
43) Isopropyl Acetate	6.348	43	22267	4.777	ug/l		99
44) Trichloroethene	7.128	130	9852	4.736	ug/l		92
45) 1,2-Dichloropropane	7.427	63	8525	4.736	ug/l		91
46) Dibromomethane	7.586	93	6372	4.475	ug/l		93
47) Bromodichloromethane	7.823	83	11249	4.405	ug/l		96
48) Methyl methacrylate	7.695	41	10190	4.556	ug/l		95
49) 1,4-Dioxane	7.677	88	4090m	106.070	ug/l		
51) 4-Methyl-2-Pentanone	8.573	43	69843	24.556	ug/l		97
52) Toluene	8.714	92	22218	5.051	ug/l		96
53) t-1,3-Dichloropropene	8.982	75	10937	4.200	ug/l		94
54) cis-1,3-Dichloropropene	8.366	75	12253	4.292	ug/l		94
55) 1,1,2-Trichloroethane	9.152	97	9000	4.957	ug/l		94
56) Ethyl methacrylate	9.116	69	12381	4.378	ug/l		96
57) 1,3-Dichloropropane	9.311	76	15211	4.973	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	43351	27.673	ug/l		100
59) 2-Hexanone	9.433	43	52072	24.357	ug/l		100
60) Dibromochloromethane	9.518	129	7738	4.247	ug/l		99
61) 1,2-Dibromoethane	9.610	107	8985	4.894	ug/l		98
64) Tetrachloroethene	9.274	164	7642	5.185	ug/l		93
65) Chlorobenzene	10.079	112	24792	5.050	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	7421	4.661	ug/l		96
67) Ethyl Benzene	10.195	91	40927	4.920	ug/l		95
68) m/p-Xylenes	10.305	106	29635	9.553	ug/l		99
69) o-Xylene	10.640	106	14856	4.905	ug/l		98
70) Styrene	10.658	104	22907	4.573	ug/l		97
71) Bromoform	10.799	173	4476	5.004	ug/l	#	99
73) Isopropylbenzene	10.957	105	37958	5.109	ug/l		99
74) N-amyl acetate	10.841	43	15928	4.627	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	13107	5.152	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	12040m	5.776	ug/l		
77) Bromobenzene	11.195	156	9259	5.224	ug/l		97
78) n-propylbenzene	11.305	91	39774	4.793	ug/l		98
79) 2-Chlorotoluene	11.366	91	26740	5.096	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	30114	4.926	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	2880	3.707	ug/l	#	77
82) 4-Chlorotoluene	11.451	91	29049	4.903	ug/l		96
83) tert-Butylbenzene	11.713	119	29934	4.940	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	30674	5.040	ug/l		97
85) sec-Butylbenzene	11.890	105	37899	5.105	ug/l		96
86) p-Isopropyltoluene	12.006	119	29412	4.878	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	16008	4.959	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	15837	4.831	ug/l		89
89) n-Butylbenzene	12.335	91	24938	4.691	ug/l		99
90) Hexachloroethane	12.536	117	4279	4.173	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	16747	5.140	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2454	4.814	ug/l		85
93) 1,2,4-Trichlorobenzene	13.591	180	8746	4.553	ug/l		98
94) Hexachlorobutadiene	13.725	225	3713	4.891	ug/l		97
95) Naphthalene	13.774	128	32485	4.698	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	9280	4.773	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

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

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

ICAL Form

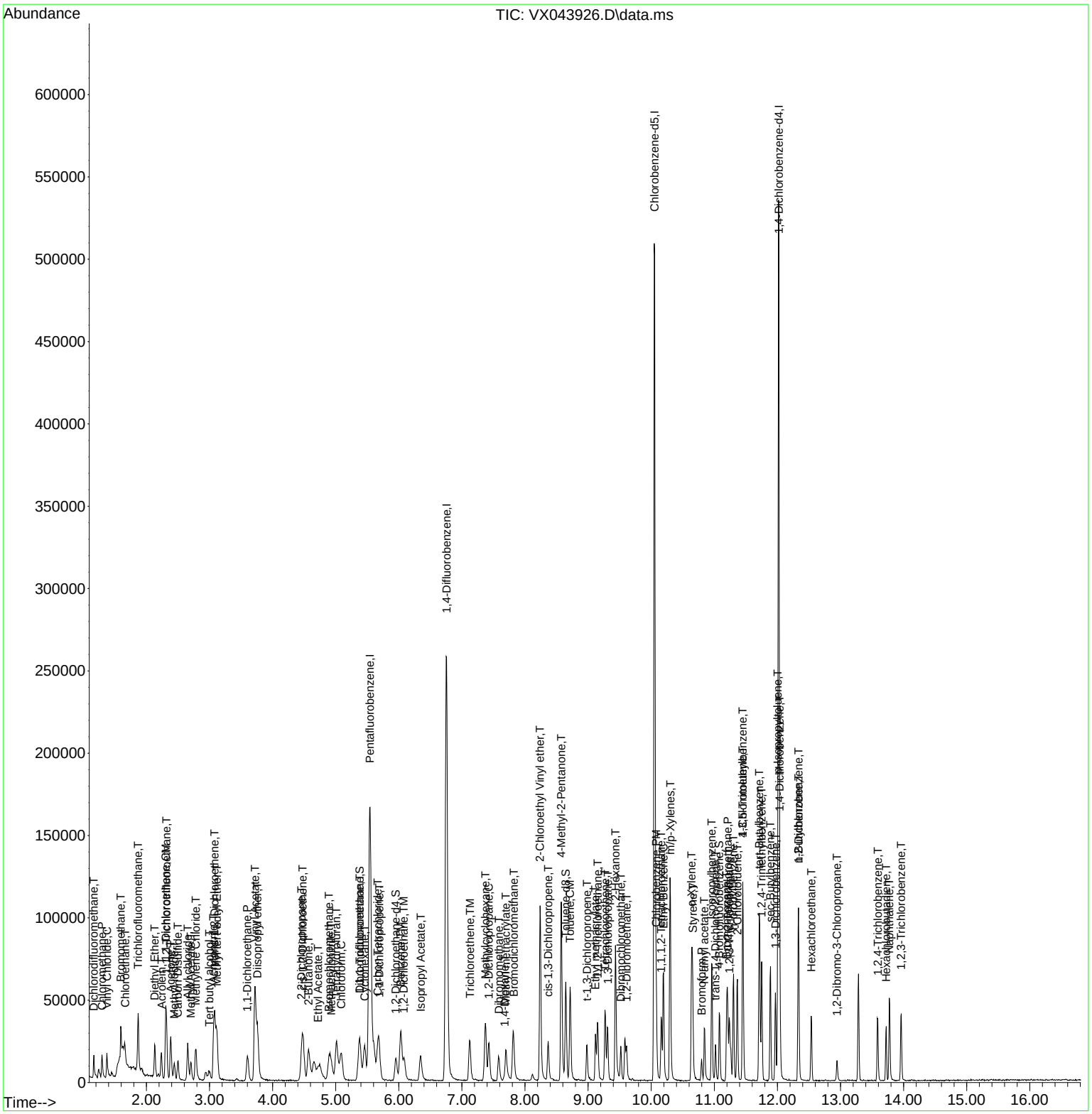
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043926.D
Acq On : 21 Nov 2024 10:14
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 22 03:28:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:25:42 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	137617	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	247844	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	48239	22.821	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	45.640%#		
35) Dibromofluoromethane	5.385	113	35015	21.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	42.080%#		
50) Toluene-d8	8.647	98	122646	22.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	44.120%#		
62) 4-Bromofluorobenzene	11.079	95	41087	22.365	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	44.720%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	35268	25.327	ug/l	98
3) Chloromethane	1.295	50	39622	22.767	ug/l	93
4) Vinyl Chloride	1.374	62	40173	22.975	ug/l	95
5) Bromomethane	1.593	94	24112	30.357	ug/l	98
6) Chloroethane	1.666	64	22213	26.595	ug/l	97
7) Trichlorofluoromethane	1.868	101	73464	29.469	ug/l	99
8) Diethyl Ether	2.136	74	25875	27.531	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	33284	22.561	ug/l	96
10) Methyl Iodide	2.441	142	43047	20.733	ug/l	94
11) Tert butyl alcohol	3.002	59	36554	108.748	ug/l	100
12) 1,1-Dichloroethene	2.307	96	32180	22.474	ug/l	96
13) Acrolein	2.240	56	35249	93.505	ug/l	99
14) Allyl chloride	2.660	41	53053	22.853	ug/l #	88
15) Acrylonitrile	3.069	53	94417	109.118	ug/l	99
16) Acetone	2.386	43	110373	130.004	ug/l	89
17) Carbon Disulfide	2.502	76	59349	18.983	ug/l	98
18) Methyl Acetate	2.709	43	50136	21.564	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	121776	23.009	ug/l	100
20) Methylene Chloride	2.788	84	37633	21.177	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	33545	21.489	ug/l	100
22) Diisopropyl ether	3.764	45	119475	23.557	ug/l	91
23) Vinyl Acetate	3.721	43	504408	122.699	ug/l	98
24) 1,1-Dichloroethane	3.599	63	67233	22.540	ug/l	99
25) 2-Butanone	4.568	43	148152	124.741	ug/l	97
26) 2,2-Dichloropropane	4.471	77	58444	23.843	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	41866	21.551	ug/l	94
28) Bromochloromethane	4.891	49	26507	21.119	ug/l	90
29) Tetrahydrofuran	5.013	42	87736	114.321	ug/l	98
30) Chloroform	5.087	83	72049	23.172	ug/l	97
31) Cyclohexane	5.458	56	53731	22.225	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	62394	23.474	ug/l	98
36) 1,1-Dichloropropene	5.684	75	44465	21.438	ug/l	99
37) Ethyl Acetate	4.715	43	54426	23.316	ug/l	97
38) Carbon Tetrachloride	5.672	117	48701	22.179	ug/l	99
39) Methylcyclohexane	7.379	83	55958	21.551	ug/l	99
40) Benzene	6.025	78	144401	22.144	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	28938	23.789 ug/l		95
42) 1,2-Dichloroethane	6.086	62	57981	24.487 ug/l		98
43) Isopropyl Acetate	6.349	43	88577	24.054 ug/l		94
44) Trichloroethene	7.117	130	36440	20.270 ug/l		95
45) 1,2-Dichloropropane	7.428	63	35791	22.394 ug/l		97
46) Dibromomethane	7.580	93	27799	23.082 ug/l		96
47) Bromodichloromethane	7.818	83	49665	23.471 ug/l	#	94
48) Methyl methacrylate	7.690	41	41962	22.991 ug/l	#	87
49) 1,4-Dioxane	7.665	88	12071	310.503 ug/l	#	62
51) 4-Methyl-2-Pentanone	8.574	43	278479	121.285 ug/l		95
52) Toluene	8.714	92	87569	23.277 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	50294	23.425 ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	56407	23.184 ug/l	#	91
55) 1,1,2-Trichloroethane	9.153	97	37148	25.308 ug/l		96
56) Ethyl methacrylate	9.116	69	56585	24.347 ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	61420	24.976 ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	136842	112.277 ug/l		96
59) 2-Hexanone	9.433	43	213629	131.869 ug/l		93
60) Dibromochloromethane	9.519	129	34133	23.864 ug/l		100
61) 1,2-Dibromoethane	9.610	107	36985	24.156 ug/l		99
64) Tetrachloroethene	9.269	164	29274	20.948 ug/l		98
65) Chlorobenzene	10.080	112	96469	21.197 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	32353	21.360 ug/l		98
67) Ethyl Benzene	10.189	91	166435	21.731 ug/l		98
68) m/p-Xylenes	10.299	106	122658	42.997 ug/l		95
69) o-Xylene	10.640	106	60254	21.648 ug/l		94
70) Styrene	10.653	104	102329	22.308 ug/l		97
71) Bromoform	10.799	173	19329	19.555 ug/l	#	97
73) Isopropylbenzene	10.964	105	157405	22.393 ug/l		99
74) N-amyl acetate	10.842	43	73525	23.459 ug/l		93
75) 1,1,2,2-Tetrachloroethane	11.213	83	54158	22.787 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	45423m	22.601 ug/l		
77) Bromobenzene	11.195	156	37631	21.843 ug/l		97
78) n-propylbenzene	11.305	91	176034	22.696 ug/l		98
79) 2-Chlorotoluene	11.360	91	112986	22.894 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	132041	22.662 ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	14743	20.654 ug/l		88
82) 4-Chlorotoluene	11.451	91	125521	22.085 ug/l		99
83) tert-Butylbenzene	11.713	119	128636	21.582 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	132595	22.408 ug/l		99
85) sec-Butylbenzene	11.890	105	156312	21.962 ug/l		98
86) p-Isopropyltoluene	12.006	119	130605	21.854 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	67003	20.986 ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	67195	20.527 ug/l		98
89) n-Butylbenzene	12.329	91	110491	21.698 ug/l		98
90) Hexachloroethane	12.536	117	19547	19.432 ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	67852	20.298 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	9939	20.259 ug/l		93
93) 1,2,4-Trichlorobenzene	13.591	180	38866	19.894 ug/l		100
94) Hexachlorobutadiene	13.725	225	14818	18.508 ug/l		91
95) Naphthalene	13.774	128	145678	19.999 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	41554	20.415 ug/l		97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

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

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

ICAL Form

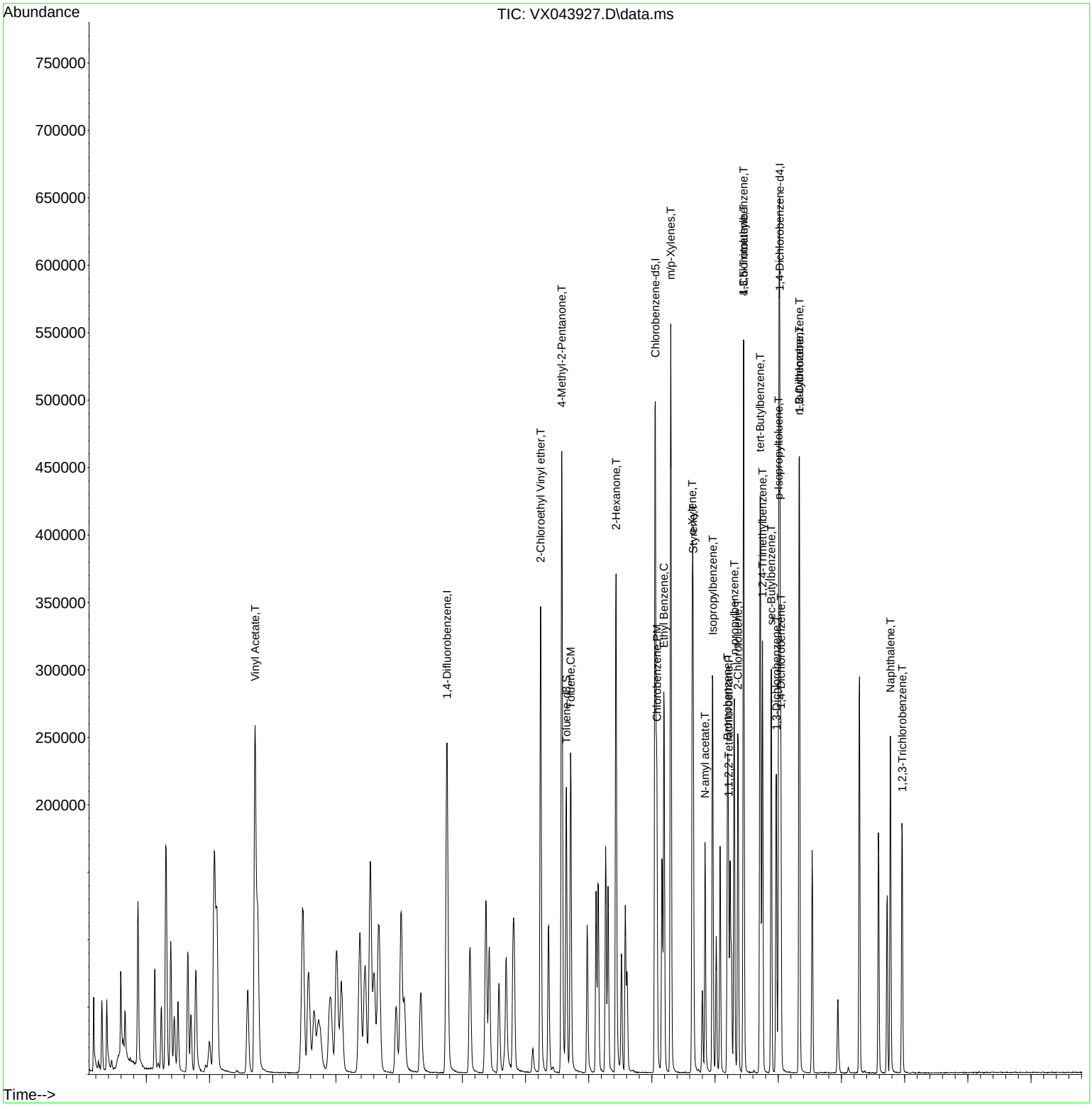
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043927.D
Acq On : 21 Nov 2024 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 11:27:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	138578	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.757	114	241629	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	100316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104086	48.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.800%			
35) Dibromofluoromethane	5.379	113	78954	48.663	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.320%			
50) Toluene-d8	8.641	98	266650	49.194	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.380%			
62) 4-Bromofluorobenzene	11.079	95	93510	52.209	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	94790	67.600	ug/l	98
3) Chloromethane	1.295	50	96646	55.148	ug/l	100
4) Vinyl Chloride	1.374	62	105586	59.966	ug/l	100
5) Bromomethane	1.593	94	61728	77.177	ug/l	97
6) Chloroethane	1.660	64	63580	75.594	ug/l	98
7) Trichlorofluoromethane	1.868	101	188045	74.909	ug/l	100
8) Diethyl Ether	2.130	74	65665	69.383	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	91167	61.367	ug/l	97
10) Methyl Iodide	2.441	142	112083	53.608	ug/l	95
11) Tert butyl alcohol	2.995	59	100130	295.821	ug/l	99
12) 1,1-Dichloroethene	2.307	96	83087	57.625	ug/l	92
13) Acrolein	2.233	56	100647	265.136	ug/l	97
14) Allyl chloride	2.654	41	144663	61.883	ug/l	91
15) Acrylonitrile	3.063	53	256493	294.373	ug/l	98
16) Acetone	2.380	43	294611	344.605	ug/l	93
17) Carbon Disulfide	2.502	76	178294	56.633	ug/l	99
18) Methyl Acetate	2.703	43	136735	58.404	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	313754	58.872	ug/l	98
20) Methylene Chloride	2.782	84	92475	51.676	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	87752	55.825	ug/l	95
22) Diisopropyl ether	3.758	45	299631	58.668	ug/l	94
23) Vinyl Acetate	3.715	43	1344870	324.875	ug/l	97
24) 1,1-Dichloroethane	3.599	63	174008	57.932	ug/l	99
25) 2-Butanone	4.556	43	392575	328.247	ug/l	97
26) 2,2-Dichloropropane	4.465	77	158151	64.072	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	109742	56.100	ug/l	94
28) Bromochloromethane	4.885	49	62386	49.360	ug/l	88
29) Tetrahydrofuran	5.001	42	234208	303.060	ug/l	97
30) Chloroform	5.080	83	182404	58.257	ug/l	94
31) Cyclohexane	5.458	56	144224	59.242	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	164023	61.280	ug/l	98
36) 1,1-Dichloropropene	5.678	75	119269	58.983	ug/l	99
37) Ethyl Acetate	4.709	43	147393	64.767	ug/l	98
38) Carbon Tetrachloride	5.666	117	134725	62.932	ug/l	97
39) Methylcyclohexane	7.373	83	158586	62.647	ug/l	95
40) Benzene	6.025	78	360978	56.780	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	79507	67.041	ug/l		96
42) 1,2-Dichloroethane	6.074	62	145681	63.109	ug/l		97
43) Isopropyl Acetate	6.336	43	235856	65.697	ug/l		94
44) Trichloroethene	7.117	130	90015	51.360	ug/l		91
45) 1,2-Dichloropropane	7.422	63	89529	57.459	ug/l		98
46) Dibromomethane	7.574	93	70679	60.196	ug/l		96
47) Bromodichloromethane	7.818	83	131365	63.678	ug/l		97
48) Methyl methacrylate	7.690	41	112803	63.393	ug/l	#	88
49) 1,4-Dioxane	7.659	88	33402	881.301	ug/l	#	73
51) 4-Methyl-2-Pentanone	8.574	43	732582	327.265	ug/l		95
52) Toluene	8.714	92	222500	60.664	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	137451	65.667	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	147638	62.243	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	89441	62.501	ug/l		97
56) Ethyl methacrylate	9.116	69	148281	65.443	ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	151124	63.034	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	371281	312.467	ug/l		98
59) 2-Hexanone	9.427	43	568460	359.925	ug/l		93
60) Dibromochloromethane	9.519	129	95641	68.588	ug/l		99
61) 1,2-Dibromoethane	9.604	107	92940	62.263	ug/l		99
64) Tetrachloroethene	9.269	164	74157	54.472	ug/l		99
65) Chlorobenzene	10.080	112	243080	54.828	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	83934	56.885	ug/l		98
67) Ethyl Benzene	10.189	91	429559	57.573	ug/l		97
68) m/p-Xylenes	10.299	106	323661	116.466	ug/l		96
69) o-Xylene	10.640	106	160643	59.245	ug/l		99
70) Styrene	10.653	104	268004	59.974	ug/l		98
71) Bromoform	10.799	173	60267	62.587	ug/l	#	98
73) Isopropylbenzene	10.957	105	411000	57.397	ug/l		99
74) N-amyl acetate	10.842	43	200195	62.704	ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.214	83	139756	57.726	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	118450m	57.858	ug/l		
77) Bromobenzene	11.195	156	97761	55.706	ug/l		97
78) n-propylbenzene	11.299	91	474802	60.094	ug/l		100
79) 2-Chlorotoluene	11.360	91	286649	57.018	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	345531	58.215	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	44450	61.129	ug/l		96
82) 4-Chlorotoluene	11.451	91	333946	57.679	ug/l		100
83) tert-Butylbenzene	11.713	119	345112	56.841	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	345112	57.254	ug/l		99
85) sec-Butylbenzene	11.890	105	426284	58.794	ug/l		99
86) p-Isopropyltoluene	12.006	119	353256	58.026	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	176936	54.401	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	178728	53.598	ug/l		98
89) n-Butylbenzene	12.329	91	319448	61.581	ug/l		99
90) Hexachloroethane	12.536	117	59010	57.586	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	177334	52.077	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	28467	56.961	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	108749	54.645	ug/l		98
94) Hexachlorobutadiene	13.725	225	41267	50.599	ug/l		95
95) Naphthalene	13.774	128	401752	54.142	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	112162	54.094	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

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

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

ICAL Form

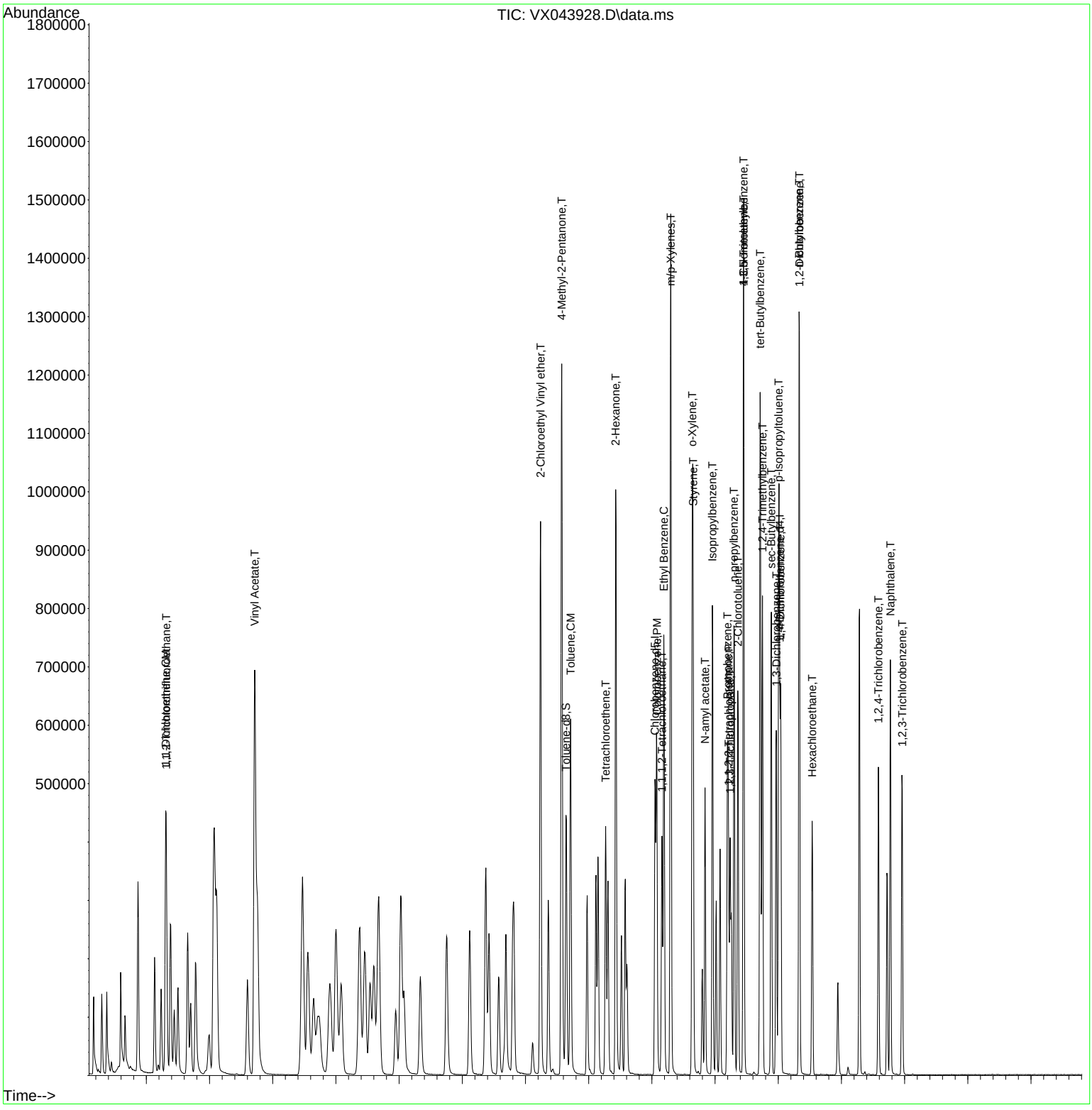
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043928.D
Acq On : 21 Nov 2024 11:17
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 12:14:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	138314	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	246419	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	215595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	104048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	236531	111.333	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 222.660%#			
35) Dibromofluoromethane	5.379	113	176869	106.893	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 213.780%#			
50) Toluene-d8	8.647	98	607337	109.870	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 219.740%#			
62) 4-Bromofluorobenzene	11.079	95	215953	118.228	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 236.460%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	166145	118.713	ug/l	97
3) Chloromethane	1.295	50	183899	105.136	ug/l	100
4) Vinyl Chloride	1.374	62	192221	109.377	ug/l	98
5) Bromomethane	1.593	94	118792	148.807	ug/l	99
6) Chloroethane	1.660	64	101816	121.286	ug/l	98
7) Trichlorofluoromethane	1.868	101	354375	141.438	ug/l	100
8) Diethyl Ether	2.136	74	125840	133.219	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	162988	109.922	ug/l	96
10) Methyl Iodide	2.441	142	213858	102.481	ug/l	96
11) Tert butyl alcohol	3.002	59	184757	546.882	ug/l	100
12) 1,1-Dichloroethene	2.307	96	158111	109.868	ug/l	89
13) Acrolein	2.240	56	200929	530.320	ug/l	99
14) Allyl chloride	2.654	41	276068	118.320	ug/l	90
15) Acrylonitrile	3.069	53	458624	527.361	ug/l	97
16) Acetone	2.386	43	511112	598.985	ug/l	92
17) Carbon Disulfide	2.502	76	367958	117.100	ug/l	99
18) Methyl Acetate	2.703	43	247225	105.800	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	597600	112.347	ug/l	99
20) Methylene Chloride	2.782	84	178008	99.663	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	165989	105.798	ug/l	98
22) Diisopropyl ether	3.764	45	572855	112.380	ug/l	97
23) Vinyl Acetate	3.721	43	2570419	622.111	ug/l	97
24) 1,1-Dichloroethane	3.605	63	327756	109.327	ug/l	99
25) 2-Butanone	4.562	43	690992	578.867	ug/l	98
26) 2,2-Dichloropropane	4.471	77	299254	121.468	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	206207	105.613	ug/l	94
28) Bromochloromethane	4.898	49	138227	109.575	ug/l	91
29) Tetrahydrofuran	5.007	42	419337	543.649	ug/l	97
30) Chloroform	5.087	83	350923	112.294	ug/l	97
31) Cyclohexane	5.458	56	256114	105.404	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	309469	115.841	ug/l	98
36) 1,1-Dichloropropene	5.684	75	222573	107.931	ug/l	99
37) Ethyl Acetate	4.715	43	265631	114.453	ug/l	97
38) Carbon Tetrachloride	5.672	117	256290	117.390	ug/l	97
39) Methylcyclohexane	7.373	83	283075	109.652	ug/l	98
40) Benzene	6.032	78	684139	105.520	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	143256	118.447 ug/l	94
42) 1,2-Dichloroethane	6.080	62	271641	115.387 ug/l	98
43) Isopropyl Acetate	6.342	43	440615	120.346 ug/l	94
44) Trichloroethene	7.123	130	169796	94.997 ug/l	98
45) 1,2-Dichloropropane	7.428	63	170741	107.450 ug/l	99
46) Dibromomethane	7.574	93	135928	113.518 ug/l	96
47) Bromodichloromethane	7.818	83	260442	123.792 ug/l	97
48) Methyl methacrylate	7.690	41	210614	116.061 ug/l	88
49) 1,4-Dioxane	7.665	88	62845	1625.913 ug/l #	72
51) 4-Methyl-2-Pentanone	8.574	43	1329064	582.189 ug/l	95
52) Toluene	8.714	92	418999	112.018 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	270418	126.680 ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	285627	118.077 ug/l #	89
55) 1,1,2-Trichloroethane	9.147	97	167357	114.675 ug/l	97
56) Ethyl methacrylate	9.116	69	286893	124.157 ug/l #	90
57) 1,3-Dichloropropane	9.305	76	285511	116.773 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	698756	576.637 ug/l	98
59) 2-Hexanone	9.433	43	1011261	627.842 ug/l	95
60) Dibromochloromethane	9.519	129	187476	131.832 ug/l	99
61) 1,2-Dibromoethane	9.610	107	176345	115.841 ug/l	99
64) Tetrachloroethene	9.269	164	135740	98.157 ug/l	97
65) Chlorobenzene	10.080	112	461076	102.382 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	164586	109.812 ug/l	97
67) Ethyl Benzene	10.189	91	812289	107.178 ug/l	98
68) m/p-Xylenes	10.299	106	603451	213.769 ug/l	96
69) o-Xylene	10.640	106	298739	108.462 ug/l	98
70) Styrene	10.653	104	511251	112.628 ug/l	98
71) Bromoform	10.799	173	123114	125.866 ug/l #	98
73) Isopropylbenzene	10.957	105	765623	103.086 ug/l	99
74) N-amyl acetate	10.842	43	394438	119.112 ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.213	83	262302	104.456 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	219028m	103.148 ug/l	
77) Bromobenzene	11.195	156	183742	100.944 ug/l	98
78) n-propylbenzene	11.305	91	891893	108.835 ug/l	99
79) 2-Chlorotoluene	11.360	91	537190	103.022 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	648916	105.408 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	88041	116.733 ug/l	97
82) 4-Chlorotoluene	11.451	91	629590	104.841 ug/l	100
83) tert-Butylbenzene	11.713	119	655918	104.157 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	650156	103.992 ug/l	100
85) sec-Butylbenzene	11.890	105	793233	105.481 ug/l	100
86) p-Isopropyltoluene	12.006	119	669819	106.078 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	337665	100.095 ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	343312	99.262 ug/l	99
89) n-Butylbenzene	12.329	91	605284	112.498 ug/l	99
90) Hexachloroethane	12.536	117	120913	113.763 ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	341767	96.765 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	57287	110.517 ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	210571	102.015 ug/l	98
94) Hexachlorobutadiene	13.725	225	79822	94.363 ug/l	95
95) Naphthalene	13.774	128	776740	100.923 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	211814	98.491 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

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

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

ICAL Form

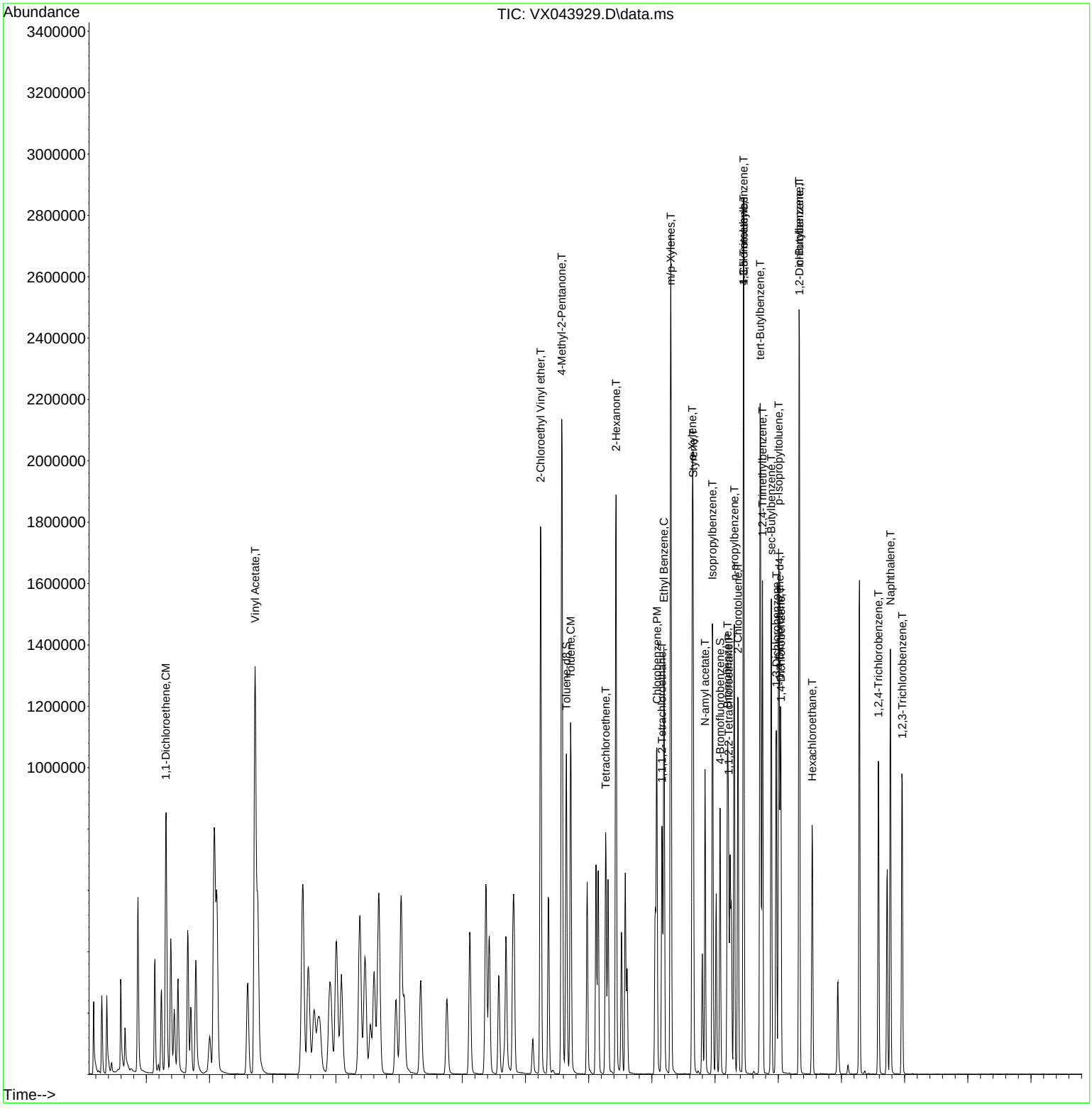
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043929.D
Acq On : 21 Nov 2024 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 12:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 11:25:29 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	132286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237642	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	203280	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96376	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	349080	171.797	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 343.600%#			
35) Dibromofluoromethane	5.385	113	268135	168.036	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 336.080%#			
50) Toluene-d8	8.647	98	896413	168.154	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 336.300%#			
62) 4-Bromofluorobenzene	11.079	95	324612	184.279	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 368.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	241389	180.335	ug/l	97
3) Chloromethane	1.294	50	268770	160.659	ug/l	100
4) Vinyl Chloride	1.374	62	271568	161.568	ug/l	99
5) Bromomethane	1.593	94	175581	229.967	ug/l	98
6) Chloroethane	1.660	64	140375	174.839	ug/l	98
7) Trichlorofluoromethane	1.861	101	527057	219.944	ug/l	100
8) Diethyl Ether	2.136	74	185146	204.934	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.312	101	237653	167.580	ug/l	97
10) Methyl Iodide	2.440	142	299792	150.207	ug/l	96
11) Tert butyl alcohol	3.014	59	306168	947.555	ug/l	99
12) 1,1-Dichloroethene	2.306	96	228504	166.017	ug/l	91
13) Acrolein	2.239	56	294638	813.086	ug/l	100
14) Allyl chloride	2.654	41	394228	176.662	ug/l	91
15) Acrylonitrile	3.068	53	684169	822.558	ug/l	98
16) Acetone	2.392	43	734161	899.588	ug/l	92
17) Carbon Disulfide	2.501	76	554853	184.625	ug/l	100
18) Methyl Acetate	2.703	43	361338	161.681	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	869848	170.980	ug/l	98
20) Methylene Chloride	2.782	84	260099	152.260	ug/l	94
21) trans-1,2-Dichloroethene	3.081	96	245485	163.596	ug/l	95
22) Diisopropyl ether	3.763	45	835960	171.467	ug/l	96
23) Vinyl Acetate	3.721	43	3797951	961.094	ug/l	97
24) 1,1-Dichloroethane	3.599	63	479590	167.262	ug/l	99
25) 2-Butanone	4.568	43	1012692	887.025	ug/l	97
26) 2,2-Dichloropropane	4.465	77	440061	186.761	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	304342	162.978	ug/l	94
28) Bromochloromethane	4.891	49	207753	172.194	ug/l	91
29) Tetrahydrofuran	5.007	42	617277	836.734	ug/l	98
30) Chloroform	5.092	83	513285	171.734	ug/l	98
31) Cyclohexane	5.458	56	367157	157.989	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	455922	178.438	ug/l	98
36) 1,1-Dichloropropene	5.684	75	331239	166.559	ug/l	98
37) Ethyl Acetate	4.721	43	393670	175.887	ug/l	97
38) Carbon Tetrachloride	5.672	117	376287	178.719	ug/l	98
39) Methylcyclohexane	7.372	83	410333	164.816	ug/l	96
40) Benzene	6.031	78	999210	159.808	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	206026	176.637 ug/l		95
42) 1,2-Dichloroethane	6.080	62	397508	175.089 ug/l		98
43) Isopropyl Acetate	6.342	43	661839	187.445 ug/l		94
44) Trichloroethene	7.123	130	251071	145.657 ug/l		97
45) 1,2-Dichloropropane	7.427	63	249394	162.744 ug/l		100
46) Dibromomethane	7.580	93	202329	175.212 ug/l		95
47) Bromodichloromethane	7.818	83	388259	191.362 ug/l		97
48) Methyl methacrylate	7.690	41	315872	180.493 ug/l		88
49) 1,4-Dioxane	7.665	88	106634	2860.706 ug/l	#	76
51) 4-Methyl-2-Pentanone	8.580	43	1954925	887.971 ug/l		96
52) Toluene	8.714	92	607179	168.323 ug/l		97
53) t-1,3-Dichloropropene	8.976	75	406346	197.387 ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	428549	183.704 ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	245706	174.579 ug/l		99
56) Ethyl methacrylate	9.116	69	420409	188.658 ug/l	#	88
57) 1,3-Dichloropropane	9.305	76	416811	176.770 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	1023576	875.887 ug/l		98
59) 2-Hexanone	9.433	43	1493755	961.650 ug/l		94
60) Dibromochloromethane	9.518	129	286188	208.679 ug/l		100
61) 1,2-Dibromoethane	9.610	107	261369	178.035 ug/l		100
64) Tetrachloroethene	9.268	164	202262	155.122 ug/l		98
65) Chlorobenzene	10.079	112	675513	159.085 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	241604	170.964 ug/l		97
67) Ethyl Benzene	10.195	91	1181693	165.365 ug/l		100
68) m/p-Xylenes	10.299	106	884067	332.148 ug/l		97
69) o-Xylene	10.640	106	436919	168.240 ug/l		98
70) Styrene	10.652	104	742061	173.379 ug/l		97
71) Bromoform	10.799	173	186691	161.632 ug/l	#	100
73) Isopropylbenzene	10.963	105	1135309	165.031 ug/l		99
74) N-amyl acetate	10.841	43	586560	159.995 ug/l		94
75) 1,1,2,2-Tetrachloroethane	11.213	83	379947	163.351 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	313344m	159.312 ug/l		
77) Bromobenzene	11.195	156	270671	160.539 ug/l		98
78) n-propylbenzene	11.305	91	1296979	170.866 ug/l		99
79) 2-Chlorotoluene	11.366	91	788163	163.185 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	936129	164.167 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	136104	161.734 ug/l		99
82) 4-Chlorotoluene	11.451	91	919566	165.319 ug/l		100
83) tert-Butylbenzene	11.713	119	945058	162.017 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	933275	161.161 ug/l		100
85) sec-Butylbenzene	11.890	105	1148877	164.934 ug/l		100
86) p-Isopropyltoluene	12.006	119	972007	166.189 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	490336	156.923 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	494318	154.301 ug/l		99
89) n-Butylbenzene	12.329	91	903805	181.353 ug/l		99
90) Hexachloroethane	12.536	117	180575	151.823 ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	503214	153.818 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	87963	146.019 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	325289	170.137 ug/l		99
94) Hexachlorobutadiene	13.725	225	121126	154.589 ug/l		97
95) Naphthalene	13.774	128	1173154	164.565 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	326693	164.001 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

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

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

ICAL Form

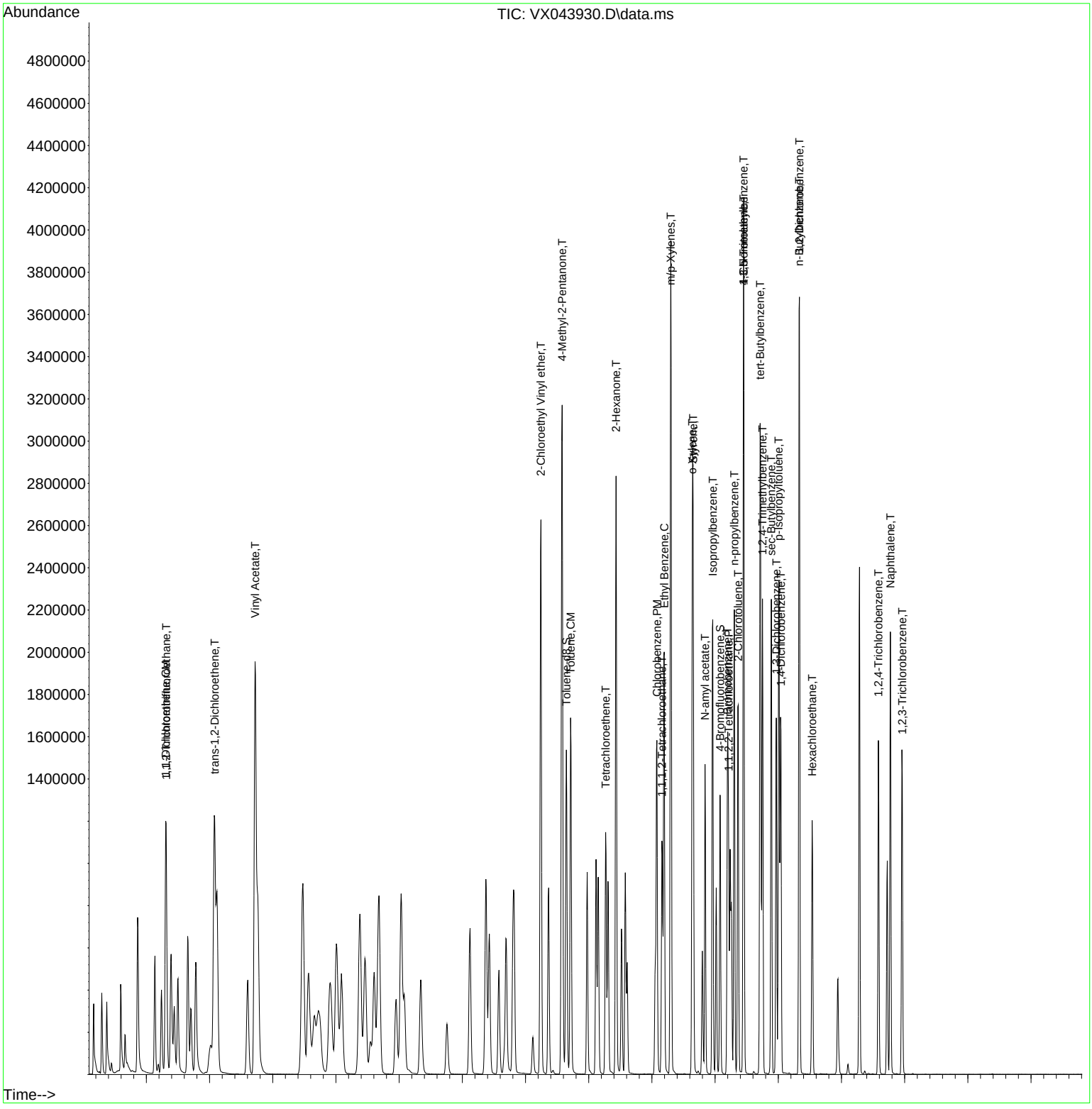
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043930.D
Acq On : 21 Nov 2024 12:03
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 12:32:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 21 12:18:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	131073	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	229009	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	198776	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	112818	50.183	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.360%			
35) Dibromofluoromethane	5.379	113	85815	52.442	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.880%			
50) Toluene-d8	8.647	98	289000	51.234	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	11.079	95	103640	53.987	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	83916	50.537	ug/l	99
3) Chloromethane	1.295	50	85795	49.100	ug/l	98
4) Vinyl Chloride	1.374	62	93147	50.118	ug/l	97
5) Bromomethane	1.593	94	53783	47.040	ug/l	100
6) Chloroethane	1.660	64	46342	40.921	ug/l	100
7) Trichlorofluoromethane	1.868	101	177461	53.407	ug/l	99
8) Diethyl Ether	2.130	74	57339	47.345	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	80458	50.762	ug/l	98
10) Methyl Iodide	2.441	142	96234	48.614	ug/l	100
11) Tert butyl alcohol	2.995	59	85927	238.127	ug/l	99
12) 1,1-Dichloroethene	2.307	96	72787	48.192	ug/l	99
13) Acrolein	2.233	56	89571	235.500	ug/l	98
14) Allyl chloride	2.654	41	127367	51.610	ug/l	99
15) Acrylonitrile	3.063	53	227832	259.090	ug/l	99
16) Acetone	2.386	43	257802	249.676	ug/l	99
17) Carbon Disulfide	2.496	76	153826	49.375	ug/l	100
18) Methyl Acetate	2.703	43	121774	50.643	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	275221	50.186	ug/l	98
20) Methylene Chloride	2.782	84	82274	46.954	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	76687	49.179	ug/l	97
22) Diisopropyl ether	3.758	45	264554	50.132	ug/l	96
23) Vinyl Acetate	3.715	43	1189244	263.441	ug/l	100
24) 1,1-Dichloroethane	3.599	63	153635	50.466	ug/l	98
25) 2-Butanone	4.556	43	348803	261.804	ug/l	98
26) 2,2-Dichloropropane	4.459	77	143910	52.343	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	95076	49.326	ug/l	99
28) Bromochloromethane	4.891	49	62874	46.920	ug/l	96
29) Tetrahydrofuran	5.001	42	207942	254.585	ug/l	100
30) Chloroform	5.080	83	163357	49.891	ug/l	98
31) Cyclohexane	5.458	56	128482	51.278	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	144908	51.320	ug/l	99
36) 1,1-Dichloropropene	5.678	75	108518	53.218	ug/l	97
37) Ethyl Acetate	4.709	43	133283	52.656	ug/l	97
38) Carbon Tetrachloride	5.660	117	118655	51.786	ug/l	99
39) Methylcyclohexane	7.373	83	141696	53.489	ug/l	93
40) Benzene	6.025	78	319222	50.257	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	69766	53.851 ug/l	99
42) 1,2-Dichloroethane	6.074	62	128623	50.421 ug/l	100
43) Isopropyl Acetate	6.336	43	207332	51.469 ug/l	99
44) Trichloroethene	7.117	130	80113	44.554 ug/l	90
45) 1,2-Dichloropropane	7.422	63	74380	47.811 ug/l	98
46) Dibromomethane	7.574	93	62345	50.662 ug/l	99
47) Bromodichloromethane	7.818	83	116199	52.648 ug/l	99
48) Methyl methacrylate	7.690	41	101062	52.284 ug/l	99
49) 1,4-Dioxane	7.659	88	31178	905.506 ug/l #	86
51) 4-Methyl-2-Pentanone	8.574	43	652721	265.520 ug/l	100
52) Toluene	8.714	92	195814	51.507 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	119461	53.077 ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	128808	52.205 ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	78575	50.069 ug/l	97
56) Ethyl methacrylate	9.116	69	129841	53.118 ug/l	100
57) 1,3-Dichloropropane	9.305	76	134680	50.945 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	315358	235.230 ug/l	99
59) 2-Hexanone	9.427	43	504444	273.011 ug/l	100
60) Dibromochloromethane	9.519	129	82754	52.557 ug/l	99
61) 1,2-Dibromoethane	9.604	107	83098	52.367 ug/l	100
64) Tetrachloroethene	9.269	164	66054	50.396 ug/l	97
65) Chlorobenzene	10.073	112	209963	48.094 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	74354	52.515 ug/l	98
67) Ethyl Benzene	10.189	91	377215	50.991 ug/l	97
68) m/p-Xylenes	10.299	106	282971	102.572 ug/l	99
69) o-Xylene	10.640	106	138437	51.396 ug/l	98
70) Styrene	10.653	104	230449	51.728 ug/l	99
71) Bromoform	10.799	173	50837	47.449 ug/l #	98
73) Isopropylbenzene	10.957	105	365084	49.222 ug/l	99
74) N-amyl acetate	10.842	43	176627	51.406 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.214	83	125346	49.356 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	105742m	49.973 ug/l	
77) Bromobenzene	11.195	156	85070	48.081 ug/l	99
78) n-propylbenzene	11.305	91	419586	50.652 ug/l	99
79) 2-Chlorotoluene	11.360	91	249079	47.551 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	305922	50.134 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	38583	49.756 ug/l	98
82) 4-Chlorotoluene	11.451	91	287717	48.652 ug/l	100
83) tert-Butylbenzene	11.713	119	303408	50.165 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	306251	50.410 ug/l	100
85) sec-Butylbenzene	11.890	105	372793	50.307 ug/l	99
86) p-Isopropyltoluene	12.006	119	310060	51.511 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	153164	47.529 ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	155422	47.306 ug/l	97
89) n-Butylbenzene	12.329	91	276075	52.020 ug/l	99
90) Hexachloroethane	12.536	117	51229	50.050 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	154980	47.656 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25968	51.030 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	94896	49.495 ug/l	99
94) Hexachlorobutadiene	13.725	225	37937	50.065 ug/l	97
95) Naphthalene	13.774	128	357725	51.831 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	99447	51.246 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

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

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

ICAL Form

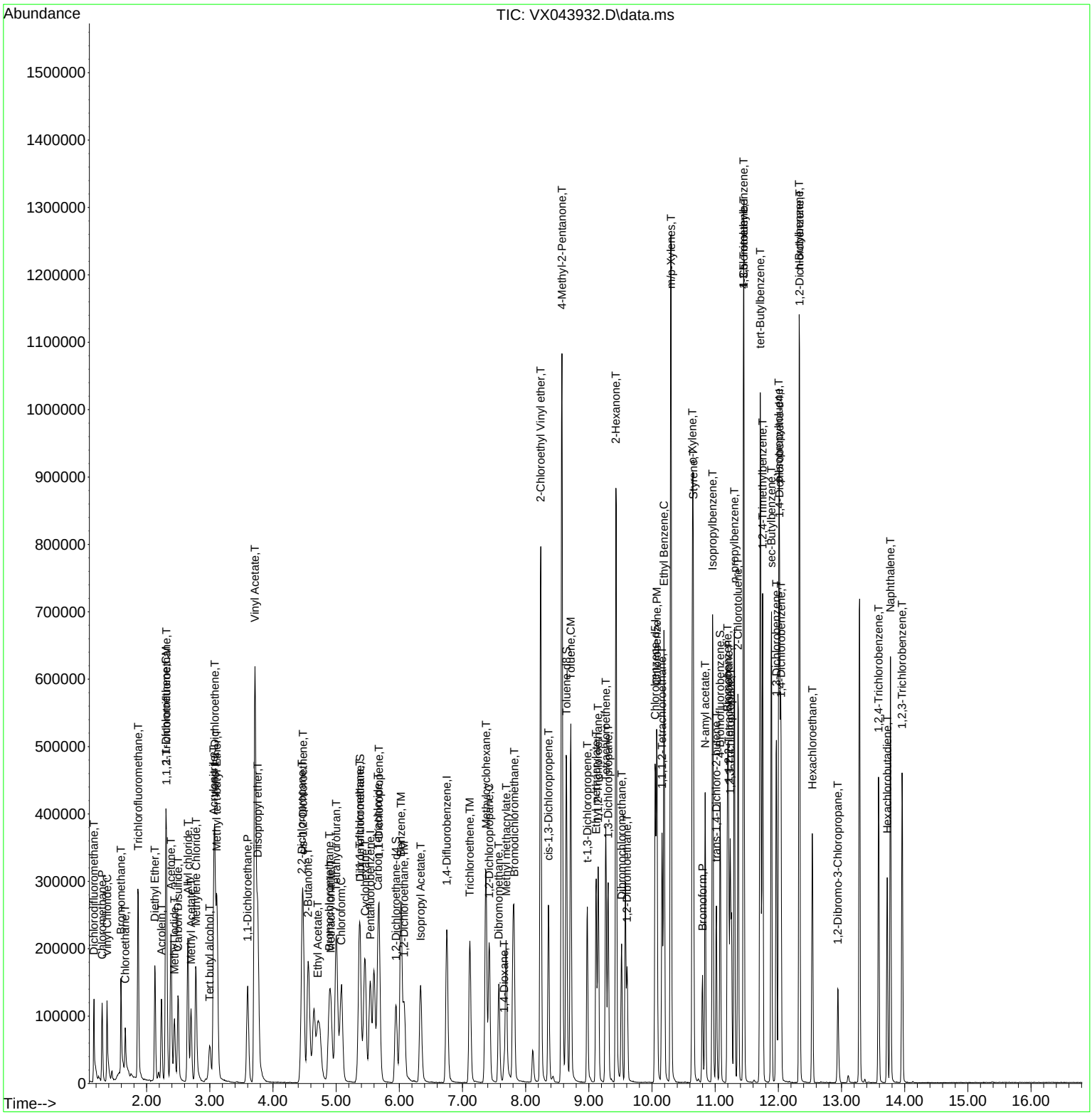
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Manual Integrations APPROVED

Reviewed By :John Carlone 11/22/2024
Supervised By :Mahesh Dadoda 11/22/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	95	0.00
2	T	Dichlorodifluoromethane	0.633	0.640	-1.1	89	0.00
3	P	Chloromethane	0.667	0.655	1.8	89	0.00
4	C	Vinyl Chloride	0.709	0.711	-0.3#	88	0.00
5	T	Bromomethane	0.436	0.410	6.0	87	0.00
6	T	Chloroethane	0.432	0.354	18.1	73	0.00
7	T	Trichlorofluoromethane	1.268	1.354	-6.8	94	0.00
8	T	Diethyl Ether	0.462	0.437	5.4	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.605	0.614	-1.5	88	0.00
10	T	Methyl Iodide	0.755	0.734	2.8	86	0.00
11	T	Tert butyl alcohol	0.138	0.131	5.1	86	0.00
12	CM	1,1-Dichloroethene	0.576	0.555	3.6#	88	0.00
13	T	Acrolein	0.145	0.137	5.5	89	0.00
14	T	Allyl chloride	0.941	0.972	-3.3	88	0.00
15	T	Acrylonitrile	0.335	0.348	-3.9	89	0.00
16	T	Acetone	0.394	0.393	0.3	88	0.00
17	T	Carbon Disulfide	1.188	1.174	1.2	86	0.00
18	T	Methyl Acetate	0.917	0.929	-1.3	89	0.00
19	T	Methyl tert-butyl Ether	2.092	2.100	-0.4	88	0.00
20	T	Methylene Chloride	0.668	0.628	6.0	89	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.585	1.7	87	0.00
22	T	Diisopropyl ether	2.013	2.018	-0.2	88	0.00
23	T	Vinyl Acetate	1.722	1.815	-5.4	88	0.00
24	P	1,1-Dichloroethane	1.161	1.172	-0.9	88	0.00
25	T	2-Butanone	0.508	0.532	-4.7	89	0.00
26	T	2,2-Dichloropropane	1.049	1.098	-4.7	91	0.00
27	T	cis-1,2-Dichloroethene	0.735	0.725	1.4	87	0.00
28	T	Bromochloromethane	0.511	0.480	6.1	101	0.00
29	T	Tetrahydrofuran	0.312	0.317	-1.6	89	0.00
30	C	Chloroform	1.249	1.246	0.2#	90	0.00
31	T	Cyclohexane	0.956	0.980	-2.5	89	0.00
32	T	1,1,1-Trichloroethane	1.077	1.106	-2.7	88	0.00
33	S	1,2-Dichloroethane-d4	0.858	0.861	-0.3	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.357	0.375	-5.0	109	0.00
36	T	1,1-Dichloropropene	0.445	0.474	-6.5	91	0.00
37	T	Ethyl Acetate	0.553	0.582	-5.2	90	0.00
38	T	Carbon Tetrachloride	0.500	0.518	-3.6	88	0.00
39	T	Methylcyclohexane	0.578	0.619	-7.1	89	0.00
40	TM	Benzene	1.387	1.394	-0.5	88	0.00
41	T	Methacrylonitrile	0.283	0.305	-7.8	88	0.00
42	TM	1,2-Dichloroethane	0.557	0.562	-0.9	88	0.00
43	T	Isopropyl Acetate	0.880	0.905	-2.8	88	0.00
44	TM	Trichloroethene	0.393	0.350	10.9	89	0.00
45	C	1,2-Dichloropropane	0.340	0.325	4.4#	83	0.00
46	T	Dibromomethane	0.269	0.272	-1.1	88	0.00
47	T	Bromodichloromethane	0.482	0.507	-5.2	88	0.00
48	T	Methyl methacrylate	0.422	0.441	-4.5	90	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	0.008	0.007	12.5	79	0.00
50	S	Toluene-d8	1.232	1.262	-2.4	108	0.00
51	T	4-Methyl-2-Pentanone	0.537	0.570	-6.1	89	0.00
52	CM	Toluene	0.830	0.855	-3.0#	88	0.00
53	T	t-1,3-Dichloropropene	0.491	0.522	-6.3	87	0.00
54	T	cis-1,3-Dichloropropene	0.539	0.562	-4.3	87	0.00
55	T	1,1,2-Trichloroethane	0.343	0.343	0.0	88	0.00
56	T	Ethyl methacrylate	0.534	0.567	-6.2	88	0.00
57	T	1,3-Dichloropropane	0.577	0.588	-1.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.273	0.275	-0.7	85	0.00
59	T	2-Hexanone	0.403	0.441	-9.4	89	0.00
60	T	Dibromochloromethane	0.344	0.361	-4.9	87	0.00
61	T	1,2-Dibromoethane	0.346	0.363	-4.9	89	0.00
62	S	4-Bromofluorobenzene	0.419	0.453	-8.1	111	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.330	0.332	-0.6	89	0.00
65	PM	Chlorobenzene	1.098	1.056	3.8	86	0.00
66	T	1,1,1,2-Tetrachloroethane	0.356	0.374	-5.1	89	0.00
67	C	Ethyl Benzene	1.861	1.898	-2.0#	88	0.00
68	T	m/p-Xylenes	0.694	0.712	-2.6	87	0.00
69	T	o-Xylene	0.678	0.696	-2.7	86	0.00
70	T	Styrene	1.121	1.159	-3.4	86	0.00
71	P	Bromoform	0.240	0.256	-6.7	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	3.843	3.784	1.5	89	0.00
74	T	N-amyl acetate	1.780	1.831	-2.9	88	0.00
75	P	1,1,2,2-Tetrachloroethane	1.316	1.299	1.3	90	0.00
76	T	1,2,3-Trichloropropane	1.096	1.096	0.0	89	0.00
77	T	Bromobenzene	0.917	0.882	3.8	87	0.00
78	T	n-propylbenzene	4.293	4.349	-1.3	88	0.00
79	T	2-Chlorotoluene	2.714	2.581	4.9	87	0.00
80	T	1,3,5-Trimethylbenzene	3.162	3.171	-0.3	89	0.00
81	T	trans-1,4-Dichloro-2-butene	0.402	0.400	0.5	87	0.00
82	T	4-Chlorotoluene	3.064	2.982	2.7	86	0.00
83	T	tert-Butylbenzene	3.134	3.144	-0.3	88	0.00
84	T	1,2,4-Trimethylbenzene	3.148	3.174	-0.8	89	0.00
85	T	sec-Butylbenzene	3.840	3.864	-0.6	87	0.00
86	T	p-Isopropyltoluene	3.119	3.213	-3.0	88	0.00
87	T	1,3-Dichlorobenzene	1.670	1.587	5.0	87	0.00
88	T	1,4-Dichlorobenzene	1.702	1.611	5.3	87	0.00
89	T	n-Butylbenzene	2.750	2.861	-4.0	86	0.00
90	T	Hexachloroethane	0.530	0.531	-0.2	87	0.00
91	T	1,2-Dichlorobenzene	1.685	1.606	4.7	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.264	0.269	-1.9	91	0.00
93	T	1,2,4-Trichlorobenzene	0.994	0.983	1.1	87	0.00
94	T	Hexachlorobutadiene	0.393	0.393	0.0	92	0.00
95	T	Naphthalene	3.576	3.707	-3.7	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	1.006	1.031	-2.5	89	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	95	0.00
2	T	Dichlorodifluoromethane	50.000	50.537	-1.1	89	0.00
3	P	Chloromethane	50.000	49.100	1.8	89	0.00
4	C	Vinyl Chloride	50.000	50.118	-0.2#	88	0.00
5	T	Bromomethane	50.000	47.040	5.9	87	0.00
6	T	Chloroethane	50.000	40.921	18.2	73	0.00
7	T	Trichlorofluoromethane	50.000	53.407	-6.8	94	0.00
8	T	Diethyl Ether	50.000	47.345	5.3	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.762	-1.5	88	0.00
10	T	Methyl Iodide	50.000	48.614	2.8	86	0.00
11	T	Tert butyl alcohol	250.000	238.127	4.7	86	0.00
12	CM	1,1-Dichloroethene	50.000	48.192	3.6#	88	0.00
13	T	Acrolein	250.000	235.500	5.8	89	0.00
14	T	Allyl chloride	50.000	51.610	-3.2	88	0.00
15	T	Acrylonitrile	250.000	259.090	-3.6	89	0.00
16	T	Acetone	250.000	249.676	0.1	88	0.00
17	T	Carbon Disulfide	50.000	49.375	1.3	86	0.00
18	T	Methyl Acetate	50.000	50.643	-1.3	89	0.00
19	T	Methyl tert-butyl Ether	50.000	50.186	-0.4	88	0.00
20	T	Methylene Chloride	50.000	46.954	6.1	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.179	1.6	87	0.00
22	T	Diisopropyl ether	50.000	50.132	-0.3	88	0.00
23	T	Vinyl Acetate	250.000	263.441	-5.4	88	0.00
24	P	1,1-Dichloroethane	50.000	50.466	-0.9	88	0.00
25	T	2-Butanone	250.000	261.804	-4.7	89	0.00
26	T	2,2-Dichloropropane	50.000	52.343	-4.7	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.326	1.3	87	0.00
28	T	Bromochloromethane	50.000	46.920	6.2	101	0.00
29	T	Tetrahydrofuran	250.000	254.585	-1.8	89	0.00
30	C	Chloroform	50.000	49.891	0.2#	90	0.00
31	T	Cyclohexane	50.000	51.278	-2.6	89	0.00
32	T	1,1,1-Trichloroethane	50.000	51.320	-2.6	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.183	-0.4	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	52.442	-4.9	109	0.00
36	T	1,1-Dichloropropene	50.000	53.218	-6.4	91	0.00
37	T	Ethyl Acetate	50.000	52.656	-5.3	90	0.00
38	T	Carbon Tetrachloride	50.000	51.786	-3.6	88	0.00
39	T	Methylcyclohexane	50.000	53.489	-7.0	89	0.00
40	TM	Benzene	50.000	50.257	-0.5	88	0.00
41	T	Methacrylonitrile	50.000	53.851	-7.7	88	0.00
42	TM	1,2-Dichloroethane	50.000	50.421	-0.8	88	0.00
43	T	Isopropyl Acetate	50.000	51.469	-2.9	88	0.00
44	TM	Trichloroethene	50.000	44.554	10.9	89	0.00
45	C	1,2-Dichloropropane	50.000	47.811	4.4#	83	0.00
46	T	Dibromomethane	50.000	50.662	-1.3	88	0.00
47	T	Bromodichloromethane	50.000	52.648	-5.3	88	0.00
48	T	Methyl methacrylate	50.000	52.284	-4.6	90	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	905.506	9.4	79	0.00
50	S	Toluene-d8	50.000	51.234	-2.5	108	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.520	-6.2	89	0.00
52	CM	Toluene	50.000	51.507	-3.0#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	53.077	-6.2	87	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.205	-4.4	87	0.00
55	T	1,1,2-Trichloroethane	50.000	50.069	-0.1	88	0.00
56	T	Ethyl methacrylate	50.000	53.118	-6.2	88	0.00
57	T	1,3-Dichloropropane	50.000	50.945	-1.9	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.230	5.9	85	0.00
59	T	2-Hexanone	250.000	273.011	-9.2	89	0.00
60	T	Dibromochloromethane	50.000	52.557	-5.1	87	0.00
61	T	1,2-Dibromoethane	50.000	52.367	-4.7	89	0.00
62	S	4-Bromofluorobenzene	50.000	53.987	-8.0	111	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	50.396	-0.8	89	0.00
65	PM	Chlorobenzene	50.000	48.094	3.8	86	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.515	-5.0	89	0.00
67	C	Ethyl Benzene	50.000	50.991	-2.0#	88	0.00
68	T	m/p-Xylenes	100.000	102.572	-2.6	87	0.00
69	T	o-Xylene	50.000	51.396	-2.8	86	0.00
70	T	Styrene	50.000	51.728	-3.5	86	0.00
71	P	Bromoform	50.000	47.449	5.1	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	49.222	1.6	89	0.00
74	T	N-amyl acetate	50.000	51.406	-2.8	88	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.356	1.3	90	0.00
76	T	1,2,3-Trichloropropane	50.000	49.973	0.1	89	0.00
77	T	Bromobenzene	50.000	48.081	3.8	87	0.00
78	T	n-propylbenzene	50.000	50.652	-1.3	88	0.00
79	T	2-Chlorotoluene	50.000	47.551	4.9	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.134	-0.3	89	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.756	0.5	87	0.00
82	T	4-Chlorotoluene	50.000	48.652	2.7	86	0.00
83	T	tert-Butylbenzene	50.000	50.165	-0.3	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.410	-0.8	89	0.00
85	T	sec-Butylbenzene	50.000	50.307	-0.6	87	0.00
86	T	p-Isopropyltoluene	50.000	51.511	-3.0	88	0.00
87	T	1,3-Dichlorobenzene	50.000	47.529	4.9	87	0.00
88	T	1,4-Dichlorobenzene	50.000	47.306	5.4	87	0.00
89	T	n-Butylbenzene	50.000	52.020	-4.0	86	0.00
90	T	Hexachloroethane	50.000	50.050	-0.1	87	0.00
91	T	1,2-Dichlorobenzene	50.000	47.656	4.7	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.030	-2.1	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.495	1.0	87	0.00
94	T	Hexachlorobutadiene	50.000	50.065	-0.1	92	0.00
95	T	Naphthalene	50.000	51.831	-3.7	89	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043932.D
Acq On : 21 Nov 2024 13:57
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX112124

Quant Time: Nov 22 03:54:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	51.246	-2.5	89	0.00

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

Raw Data: **VX044109.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: MSVOA_X Calibration Date/Time: 12/04/2024 12:12

Lab File ID: VX044109.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.633	0.554		-12.48	20
Chloromethane	0.667	0.570	0.1	-14.54	20
Vinyl Chloride	0.709	0.649		-8.46	20
Bromomethane	0.436	0.458		5.05	20
Chloroethane	0.432	0.405		-6.25	20
Trichlorofluoromethane	1.268	1.279		0.87	20
1,1,2-Trichlorotrifluoroethane	0.605	0.632		4.46	20
1,1-Dichloroethene	0.576	0.569		-1.22	20
Acetone	0.394	0.390		-1.01	20
Carbon Disulfide	1.188	1.084		-8.75	20
Methyl tert-butyl Ether	2.092	2.216		5.93	20
Methyl Acetate	0.917	0.925		0.87	20
Methylene Chloride	0.668	0.655		-1.95	20
trans-1,2-Dichloroethene	0.595	0.596		0.17	20
1,1-Dichloroethane	1.161	1.183	0.1	1.89	20
Cyclohexane	0.956	0.977		2.2	20
2-Butanone	0.508	0.522		2.76	20
Carbon Tetrachloride	0.500	0.529		5.8	20
cis-1,2-Dichloroethene	0.735	0.750		2.04	20
Bromochloromethane	0.511	0.487		-4.7	20
Chloroform	1.249	1.302		4.24	20
1,1,1-Trichloroethane	1.077	1.166		8.26	20
Methylcyclohexane	0.578	0.632		9.34	20
Benzene	1.387	1.416		2.09	20
1,2-Dichloroethane	0.557	0.589		5.74	20
Trichloroethene	0.393	0.351		-10.69	20
1,2-Dichloropropane	0.340	0.356		4.71	20
Bromodichloromethane	0.482	0.526		9.13	20
4-Methyl-2-Pentanone	0.537	0.587		9.31	20
Toluene	0.830	0.892		7.47	20
t-1,3-Dichloropropene	0.491	0.541		10.18	20
cis-1,3-Dichloropropene	0.539	0.584		8.35	20
1,1,2-Trichloroethane	0.343	0.355		3.5	20
2-Hexanone	0.403	0.450		11.66	20
Dibromochloromethane	0.344	0.371		7.85	20
1,2-Dibromoethane	0.346	0.380		9.83	20
Tetrachloroethene	0.330	0.353		6.97	20
Chlorobenzene	1.098	1.134	0.3	3.28	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: MSVOA_X Calibration Date/Time: 12/04/2024 12:12

Lab File ID: VX044109.D Init. Calib. Date(s): 11/21/2024 11/21/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:47 12:03

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.861	2.065		10.96	20
m/p-Xylenes	0.694	0.754		8.65	20
o-Xylene	0.678	0.751		10.77	20
Styrene	1.121	1.266		12.94	20
Bromoform	0.240	0.264	0.1	10	20
Isopropylbenzene	3.843	4.153		8.07	20
1,1,2,2-Tetrachloroethane	1.316	1.345	0.3	2.2	20
1,3-Dichlorobenzene	1.670	1.780		6.59	20
1,4-Dichlorobenzene	1.702	1.773		4.17	20
1,2-Dichlorobenzene	1.685	1.765		4.75	20
1,2-Dibromo-3-Chloropropane	0.264	0.295		11.74	20
1,2,4-Trichlorobenzene	0.994	1.043		4.93	20
1,2,3-Trichlorobenzene	1.006	1.082		7.55	20
1,2-Dichloroethane-d4	0.858	0.876		2.1	20
Dibromofluoromethane	0.357	0.369		3.36	20
Toluene-d8	1.232	1.240		0.65	20
4-Bromofluorobenzene	0.419	0.447		6.68	20

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

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	121433	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	212858	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	180347	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	85782	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	106394	51.083	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.160%			
35) Dibromofluoromethane	5.379	113	78606	51.681	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.360%			
50) Toluene-d8	8.647	98	263953	50.344	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.680%			
62) 4-Bromofluorobenzene	11.079	95	95182	53.343	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.680%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	67307	43.752	ug/l	96
3) Chloromethane	1.295	50	69241	42.772	ug/l	99
4) Vinyl Chloride	1.374	62	78753	45.737	ug/l	97
5) Bromomethane	1.593	94	55625	52.513	ug/l	100
6) Chloroethane	1.660	64	49235	46.927	ug/l	97
7) Trichlorofluoromethane	1.868	101	155311	50.451	ug/l	98
8) Diethyl Ether	2.130	74	55482	49.448	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.313	101	76765	52.277	ug/l	98
10) Methyl Iodide	2.441	142	89895	49.017	ug/l	97
11) Tert butyl alcohol	2.995	59	72474	216.790	ug/l	95
12) 1,1-Dichloroethene	2.307	96	69109	49.390	ug/l	93
13) Acrolein	2.233	56	107424	304.860	ug/l	99
14) Allyl chloride	2.654	41	119231	52.148	ug/l	98
15) Acrylonitrile	3.063	53	203671	250.001	ug/l	96
16) Acetone	2.386	43	236534	247.264	ug/l	99
17) Carbon Disulfide	2.502	76	131624	45.603	ug/l	99
18) Methyl Acetate	2.703	43	112337	50.427	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	269141	52.973	ug/l	99
20) Methylene Chloride	2.782	84	79519	48.984	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	72334	50.070	ug/l	97
22) Diisopropyl ether	3.757	45	259161	53.009	ug/l	97
23) Vinyl Acetate	3.715	43	1125070	269.010	ug/l	100
24) 1,1-Dichloroethane	3.599	63	143703	50.951	ug/l	99
25) 2-Butanone	4.556	43	316998	256.820	ug/l	100
26) 2,2-Dichloropropane	4.465	77	133929	52.580	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	91119	51.026	ug/l	99
28) Bromochloromethane	4.891	49	59097	47.602	ug/l	97
29) Tetrahydrofuran	5.007	42	190074	251.182	ug/l	99
30) Chloroform	5.080	83	158048	52.101	ug/l	94
31) Cyclohexane	5.458	56	118676	51.124	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	141586	54.124	ug/l	99
36) 1,1-Dichloropropene	5.684	75	102557	54.110	ug/l	97
37) Ethyl Acetate	4.715	43	121923	51.822	ug/l	98
38) Carbon Tetrachloride	5.666	117	112591	52.868	ug/l	97
39) Methylcyclohexane	7.373	83	134572	54.654	ug/l	96
40) Benzene	6.025	78	301458	51.062	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	63088	52.392 ug/l	94
42) 1,2-Dichloroethane	6.080	62	125415	52.893 ug/l	100
43) Isopropyl Acetate	6.336	43	200882	53.652 ug/l	99
44) Trichloroethene	7.117	130	74668	44.677 ug/l	95
45) 1,2-Dichloropropane	7.421	63	75747	52.385 ug/l	99
46) Dibromomethane	7.574	93	60579	52.962 ug/l	99
47) Bromodichloromethane	7.818	83	111906	54.550 ug/l	100
48) Methyl methacrylate	7.690	41	96199	53.544 ug/l	97
49) 1,4-Dioxane	7.665	88	29167	911.376 ug/l	91
51) 4-Methyl-2-Pentanone	8.574	43	625139	273.595 ug/l	98
52) Toluene	8.714	92	189864	53.731 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	115260	55.097 ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	124403	54.246 ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	75664	51.872 ug/l	97
56) Ethyl methacrylate	9.116	69	124403	54.755 ug/l	98
57) 1,3-Dichloropropane	9.305	76	129718	52.791 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	392231	315.913 ug/l	99
59) 2-Hexanone	9.433	43	478582	278.668 ug/l	99
60) Dibromochloromethane	9.519	129	78916	53.922 ug/l	100
61) 1,2-Dibromoethane	9.604	107	80945	54.881 ug/l	97
64) Tetrachloroethene	9.269	164	63710	53.575 ug/l	98
65) Chlorobenzene	10.080	112	204565	51.646 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	70769	55.091 ug/l	98
67) Ethyl Benzene	10.189	91	372467	55.494 ug/l	97
68) m/p-Xylenes	10.299	106	271912	108.636 ug/l	98
69) o-Xylene	10.640	106	135482	55.439 ug/l	97
70) Styrene	10.653	104	228338	56.492 ug/l	98
71) Bromoform	10.799	173	47650	48.902 ug/l #	99
73) Isopropylbenzene	10.957	105	356215	54.021 ug/l	99
74) N-amyl acetate	10.842	43	171732	56.219 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	115361	51.094 ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	100162m	53.244 ug/l	
77) Bromobenzene	11.195	156	82146	52.223 ug/l	99
78) n-propylbenzene	11.305	91	407948	55.393 ug/l	98
79) 2-Chlorotoluene	11.360	91	248427	53.346 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	296839	54.718 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	34600	50.189 ug/l	95
82) 4-Chlorotoluene	11.451	91	286787	54.548 ug/l	99
83) tert-Butylbenzene	11.713	119	300081	55.808 ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	299486	55.450 ug/l	99
85) sec-Butylbenzene	11.890	105	369889	56.145 ug/l	100
86) p-Isopropyltoluene	12.006	119	309369	57.811 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	152725	53.309 ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	152113	52.078 ug/l	98
89) n-Butylbenzene	12.329	91	276372	58.576 ug/l	99
90) Hexachloroethane	12.536	117	47394	52.083 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	151397	52.365 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25340	56.011 ug/l	92
93) 1,2,4-Trichlorobenzene	13.585	180	89505	52.510 ug/l	99
94) Hexachlorobutadiene	13.719	225	36929	54.818 ug/l	95
95) Naphthalene	13.774	128	348746	56.837 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	92849	53.817 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

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

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

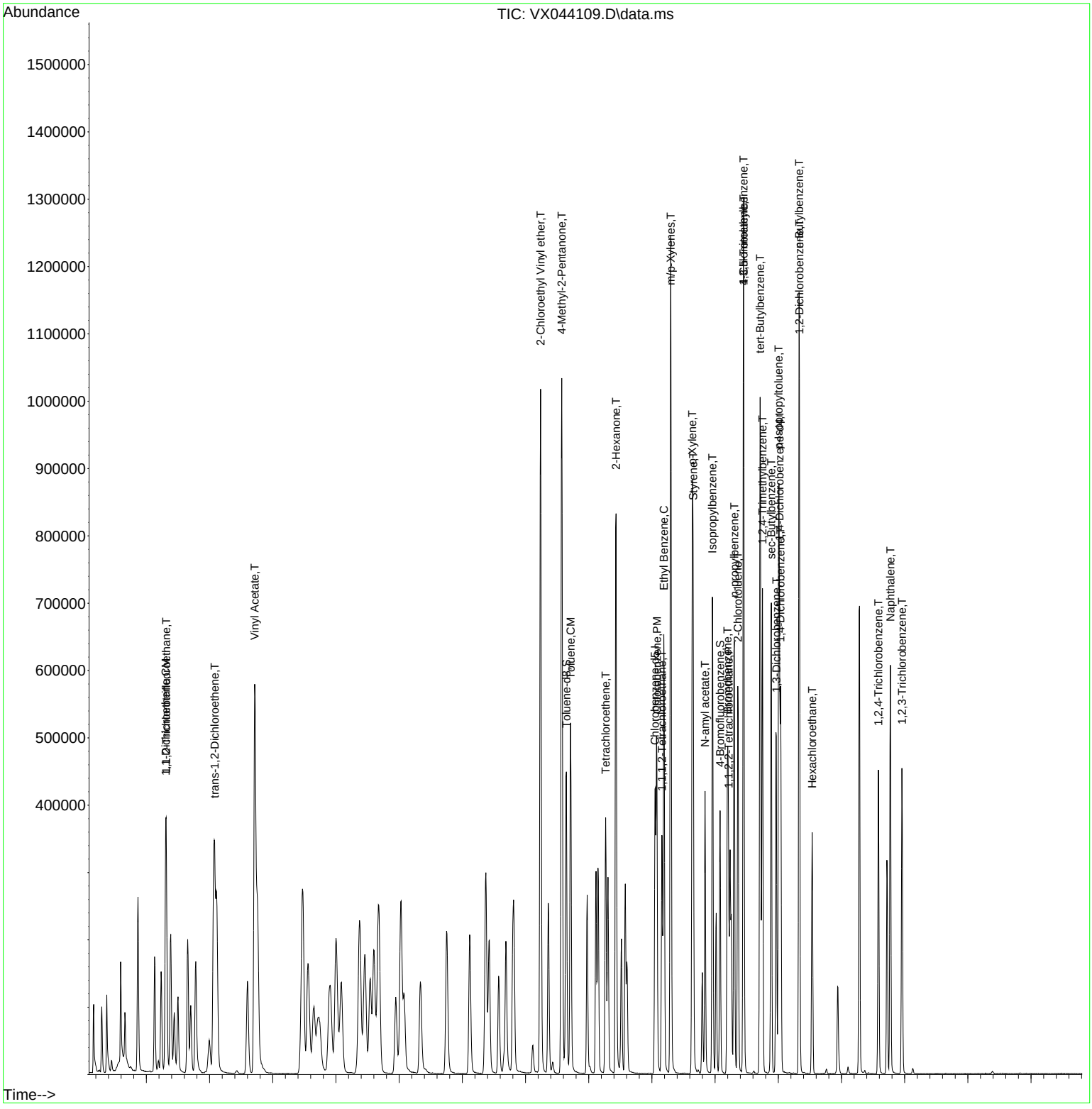
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	88	0.00
2	T	Dichlorodifluoromethane	0.633	0.554	12.5	71	0.00
3	P	Chloromethane	0.667	0.570	14.5	72	0.00
4	C	Vinyl Chloride	0.709	0.649	8.5#	75	0.00
5	T	Bromomethane	0.436	0.458	-5.0	90	0.00
6	T	Chloroethane	0.432	0.405	6.2	77	0.00
7	T	Trichlorofluoromethane	1.268	1.279	-0.9	83	0.00
8	T	Diethyl Ether	0.462	0.457	1.1	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.605	0.632	-4.5	84	0.00
10	T	Methyl Iodide	0.755	0.740	2.0	80	0.00
11	T	Tert butyl alcohol	0.138	0.119	13.8	72	0.00
12	CM	1,1-Dichloroethene	0.576	0.569	1.2#	83	0.00
13	T	Acrolein	0.145	0.177	-22.1	107	0.00
14	T	Allyl chloride	0.941	0.982	-4.4	82	0.00
15	T	Acrylonitrile	0.335	0.335	0.0	79	0.00
16	T	Acetone	0.394	0.390	1.0	80	0.00
17	T	Carbon Disulfide	1.188	1.084	8.8	74	0.00
18	T	Methyl Acetate	0.917	0.925	-0.9	82	0.00
19	T	Methyl tert-butyl Ether	2.092	2.216	-5.9	86	0.00
20	T	Methylene Chloride	0.668	0.655	1.9	86	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.596	-0.2	82	0.00
22	T	Diisopropyl ether	2.013	2.134	-6.0	86	0.00
23	T	Vinyl Acetate	1.722	1.853	-7.6	84	0.00
24	P	1,1-Dichloroethane	1.161	1.183	-1.9	83	0.00
25	T	2-Butanone	0.508	0.522	-2.8	81	0.00
26	T	2,2-Dichloropropane	1.049	1.103	-5.1	85	0.00
27	T	cis-1,2-Dichloroethene	0.735	0.750	-2.0	83	0.00
28	T	Bromochloromethane	0.511	0.487	4.7	95	0.00
29	T	Tetrahydrofuran	0.312	0.313	-0.3	81	0.00
30	C	Chloroform	1.249	1.302	-4.2#	87	0.00
31	T	Cyclohexane	0.956	0.977	-2.2	82	0.00
32	T	1,1,1-Trichloroethane	1.077	1.166	-8.3	86	0.00
33	S	1,2-Dichloroethane-d4	0.858	0.876	-2.1	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.357	0.369	-3.4	100	0.00
36	T	1,1-Dichloropropene	0.445	0.482	-8.3	86	0.00
37	T	Ethyl Acetate	0.553	0.573	-3.6	83	0.00
38	T	Carbon Tetrachloride	0.500	0.529	-5.8	84	0.00
39	T	Methylcyclohexane	0.578	0.632	-9.3	85	0.00
40	TM	Benzene	1.387	1.416	-2.1	84	0.00
41	T	Methacrylonitrile	0.283	0.296	-4.6	79	0.00
42	TM	1,2-Dichloroethane	0.557	0.589	-5.7	86	0.00
43	T	Isopropyl Acetate	0.880	0.944	-7.3	85	0.00
44	TM	Trichloroethene	0.393	0.351	10.7	83	0.00
45	C	1,2-Dichloropropane	0.340	0.356	-4.7#	85	0.00
46	T	Dibromomethane	0.269	0.285	-5.9	86	0.00
47	T	Bromodichloromethane	0.482	0.526	-9.1	85	0.00
48	T	Methyl methacrylate	0.422	0.452	-7.1	85	0.00

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	0.008	0.007	12.5	74	0.00
50	S	Toluene-d8	1.232	1.240	-0.6	99	0.00
51	T	4-Methyl-2-Pentanone	0.537	0.587	-9.3	85	0.00
52	CM	Toluene	0.830	0.892	-7.5#	85	0.00
53	T	t-1,3-Dichloropropene	0.491	0.541	-10.2	84	0.00
54	T	cis-1,3-Dichloropropene	0.539	0.584	-8.3	84	0.00
55	T	1,1,2-Trichloroethane	0.343	0.355	-3.5	85	0.00
56	T	Ethyl methacrylate	0.534	0.584	-9.4	84	0.00
57	T	1,3-Dichloropropane	0.577	0.609	-5.5	86	0.00
58	T	2-Chloroethyl Vinyl ether	0.273	0.369	-35.2#	106	0.00
59	T	2-Hexanone	0.403	0.450	-11.7	84	0.00
60	T	Dibromochloromethane	0.344	0.371	-7.8	83	0.00
61	T	1,2-Dibromoethane	0.346	0.380	-9.8	87	0.00
62	S	4-Bromofluorobenzene	0.419	0.447	-6.7	102	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64	T	Tetrachloroethene	0.330	0.353	-7.0	86	0.00
65	PM	Chlorobenzene	1.098	1.134	-3.3	84	0.00
66	T	1,1,1,2-Tetrachloroethane	0.356	0.392	-10.1	84	0.00
67	C	Ethyl Benzene	1.861	2.065	-11.0#	87	0.00
68	T	m/p-Xylenes	0.694	0.754	-8.6	84	0.00
69	T	o-Xylene	0.678	0.751	-10.8	84	0.00
70	T	Styrene	1.121	1.266	-12.9	85	0.00
71	P	Bromoform	0.240	0.264	-10.0	79	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73	T	Isopropylbenzene	3.843	4.153	-8.1	87	0.00
74	T	N-amyl acetate	1.780	2.002	-12.5	86	0.00
75	P	1,1,2,2-Tetrachloroethane	1.316	1.345	-2.2	83	0.00
76	T	1,2,3-Trichloropropane	1.096	1.168	-6.6	85	0.00
77	T	Bromobenzene	0.917	0.958	-4.5	84	0.00
78	T	n-propylbenzene	4.293	4.756	-10.8	86	0.00
79	T	2-Chlorotoluene	2.714	2.896	-6.7	87	0.00
80	T	1,3,5-Trimethylbenzene	3.162	3.460	-9.4	86	0.00
81	T	trans-1,4-Dichloro-2-butene	0.402	0.403	-0.2	78	0.00
82	T	4-Chlorotoluene	3.064	3.343	-9.1	86	0.00
83	T	tert-Butylbenzene	3.134	3.498	-11.6	87	0.00
84	T	1,2,4-Trimethylbenzene	3.148	3.491	-10.9	87	0.00
85	T	sec-Butylbenzene	3.840	4.312	-12.3	87	0.00
86	T	p-Isopropyltoluene	3.119	3.606	-15.6	88	0.00
87	T	1,3-Dichlorobenzene	1.670	1.780	-6.6	86	0.00
88	T	1,4-Dichlorobenzene	1.702	1.773	-4.2	85	0.00
89	T	n-Butylbenzene	2.750	3.222	-17.2	87	0.00
90	T	Hexachloroethane	0.530	0.552	-4.2	80	0.00
91	T	1,2-Dichlorobenzene	1.685	1.765	-4.7	85	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.264	0.295	-11.7	89	0.00
93	T	1,2,4-Trichlorobenzene	0.994	1.043	-4.9	82	0.00
94	T	Hexachlorobutadiene	0.393	0.430	-9.4	89	0.00
95	T	Naphthalene	3.576	4.065	-13.7	87	0.00

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	1.006	1.082	-7.6	83	0.00

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

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	88	0.00
2	T	Dichlorodifluoromethane	50.000	43.752	12.5	71	0.00
3	P	Chloromethane	50.000	42.772	14.5	72	0.00
4	C	Vinyl Chloride	50.000	45.737	8.5#	75	0.00
5	T	Bromomethane	50.000	52.513	-5.0	90	0.00
6	T	Chloroethane	50.000	46.927	6.1	77	0.00
7	T	Trichlorofluoromethane	50.000	50.451	-0.9	83	0.00
8	T	Diethyl Ether	50.000	49.448	1.1	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.277	-4.6	84	0.00
10	T	Methyl Iodide	50.000	49.017	2.0	80	0.00
11	T	Tert butyl alcohol	250.000	216.790	13.3	72	0.00
12	CM	1,1-Dichloroethene	50.000	49.390	1.2#	83	0.00
13	T	Acrolein	250.000	304.860	-21.9	107	0.00
14	T	Allyl chloride	50.000	52.148	-4.3	82	0.00
15	T	Acrylonitrile	250.000	250.001	-0.0	79	0.00
16	T	Acetone	250.000	247.264	1.1	80	0.00
17	T	Carbon Disulfide	50.000	45.603	8.8	74	0.00
18	T	Methyl Acetate	50.000	50.427	-0.9	82	0.00
19	T	Methyl tert-butyl Ether	50.000	52.973	-5.9	86	0.00
20	T	Methylene Chloride	50.000	48.984	2.0	86	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.070	-0.1	82	0.00
22	T	Diisopropyl ether	50.000	53.009	-6.0	86	0.00
23	T	Vinyl Acetate	250.000	269.010	-7.6	84	0.00
24	P	1,1-Dichloroethane	50.000	50.951	-1.9	83	0.00
25	T	2-Butanone	250.000	256.820	-2.7	81	0.00
26	T	2,2-Dichloropropane	50.000	52.580	-5.2	85	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.026	-2.1	83	0.00
28	T	Bromochloromethane	50.000	47.602	4.8	95	0.00
29	T	Tetrahydrofuran	250.000	251.182	-0.5	81	0.00
30	C	Chloroform	50.000	52.101	-4.2#	87	0.00
31	T	Cyclohexane	50.000	51.124	-2.2	82	0.00
32	T	1,1,1-Trichloroethane	50.000	54.124	-8.2	86	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.083	-2.2	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	51.681	-3.4	100	0.00
36	T	1,1-Dichloropropene	50.000	54.110	-8.2	86	0.00
37	T	Ethyl Acetate	50.000	51.822	-3.6	83	0.00
38	T	Carbon Tetrachloride	50.000	52.868	-5.7	84	0.00
39	T	Methylcyclohexane	50.000	54.654	-9.3	85	0.00
40	TM	Benzene	50.000	51.062	-2.1	84	0.00
41	T	Methacrylonitrile	50.000	52.392	-4.8	79	0.00
42	TM	1,2-Dichloroethane	50.000	52.893	-5.8	86	0.00
43	T	Isopropyl Acetate	50.000	53.652	-7.3	85	0.00
44	TM	Trichloroethene	50.000	44.677	10.6	83	0.00
45	C	1,2-Dichloropropane	50.000	52.385	-4.8#	85	0.00
46	T	Dibromomethane	50.000	52.962	-5.9	86	0.00
47	T	Bromodichloromethane	50.000	54.550	-9.1	85	0.00
48	T	Methyl methacrylate	50.000	53.544	-7.1	85	0.00

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	911.376	8.9	74	0.00
50	S	Toluene-d8	50.000	50.344	-0.7	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	273.595	-9.4	85	0.00
52	CM	Toluene	50.000	53.731	-7.5#	85	0.00
53	T	t-1,3-Dichloropropene	50.000	55.097	-10.2	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.246	-8.5	84	0.00
55	T	1,1,2-Trichloroethane	50.000	51.872	-3.7	85	0.00
56	T	Ethyl methacrylate	50.000	54.755	-9.5	84	0.00
57	T	1,3-Dichloropropane	50.000	52.791	-5.6	86	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	315.913	-26.4#	106	0.00
59	T	2-Hexanone	250.000	278.668	-11.5	84	0.00
60	T	Dibromochloromethane	50.000	53.922	-7.8	83	0.00
61	T	1,2-Dibromoethane	50.000	54.881	-9.8	87	0.00
62	S	4-Bromofluorobenzene	50.000	53.343	-6.7	102	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64	T	Tetrachloroethene	50.000	53.575	-7.2	86	0.00
65	PM	Chlorobenzene	50.000	51.646	-3.3	84	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.091	-10.2	84	0.00
67	C	Ethyl Benzene	50.000	55.494	-11.0#	87	0.00
68	T	m/p-Xylenes	100.000	108.636	-8.6	84	0.00
69	T	o-Xylene	50.000	55.439	-10.9	84	0.00
70	T	Styrene	50.000	56.492	-13.0	85	0.00
71	P	Bromoform	50.000	48.902	2.2	79	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73	T	Isopropylbenzene	50.000	54.021	-8.0	87	0.00
74	T	N-amyl acetate	50.000	56.219	-12.4	86	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.094	-2.2	83	0.00
76	T	1,2,3-Trichloropropane	50.000	53.244	-6.5	85	0.00
77	T	Bromobenzene	50.000	52.223	-4.4	84	0.00
78	T	n-propylbenzene	50.000	55.393	-10.8	86	0.00
79	T	2-Chlorotoluene	50.000	53.346	-6.7	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.718	-9.4	86	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.189	-0.4	78	0.00
82	T	4-Chlorotoluene	50.000	54.548	-9.1	86	0.00
83	T	tert-Butylbenzene	50.000	55.808	-11.6	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.450	-10.9	87	0.00
85	T	sec-Butylbenzene	50.000	56.145	-12.3	87	0.00
86	T	p-Isopropyltoluene	50.000	57.811	-15.6	88	0.00
87	T	1,3-Dichlorobenzene	50.000	53.309	-6.6	86	0.00
88	T	1,4-Dichlorobenzene	50.000	52.078	-4.2	85	0.00
89	T	n-Butylbenzene	50.000	58.576	-17.2	87	0.00
90	T	Hexachloroethane	50.000	52.083	-4.2	80	0.00
91	T	1,2-Dichlorobenzene	50.000	52.365	-4.7	85	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	56.011	-12.0	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.510	-5.0	82	0.00
94	T	Hexachlorobutadiene	50.000	54.818	-9.6	89	0.00
95	T	Naphthalene	50.000	56.837	-13.7	87	0.00

Sample Results: **VX044109.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044109.D
Acq On : 04 Dec 2024 12:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:21:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 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	53.817	-7.6	83	0.00

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

QC SAMPLE DATA

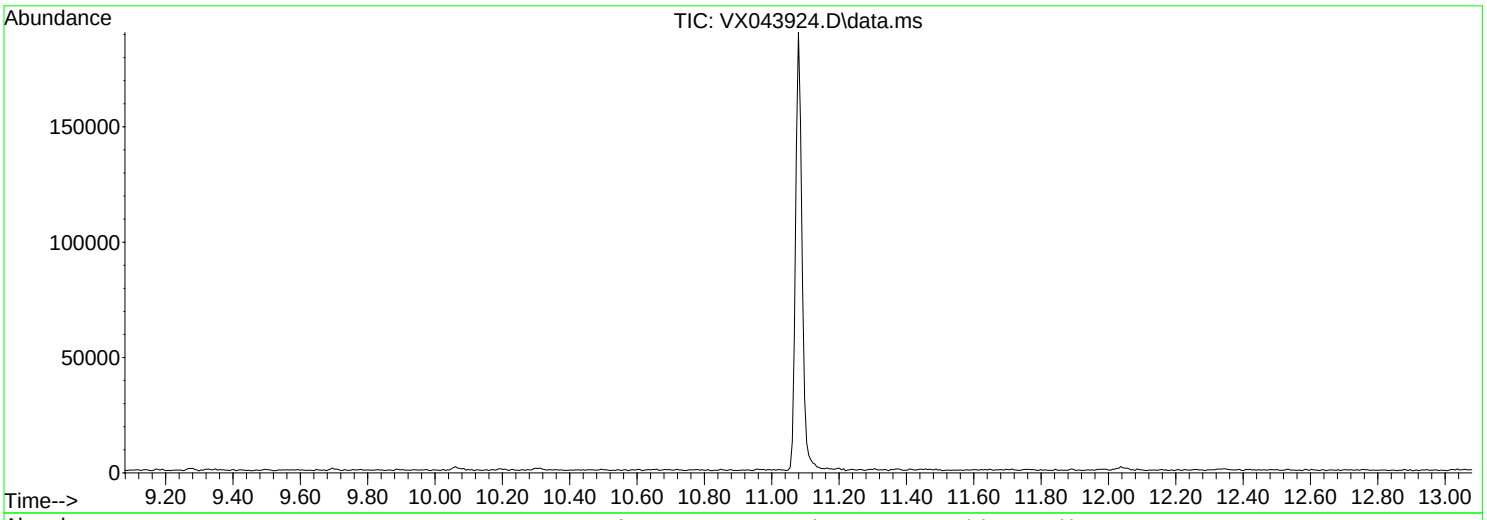
Sample Results: **VX043924.D**

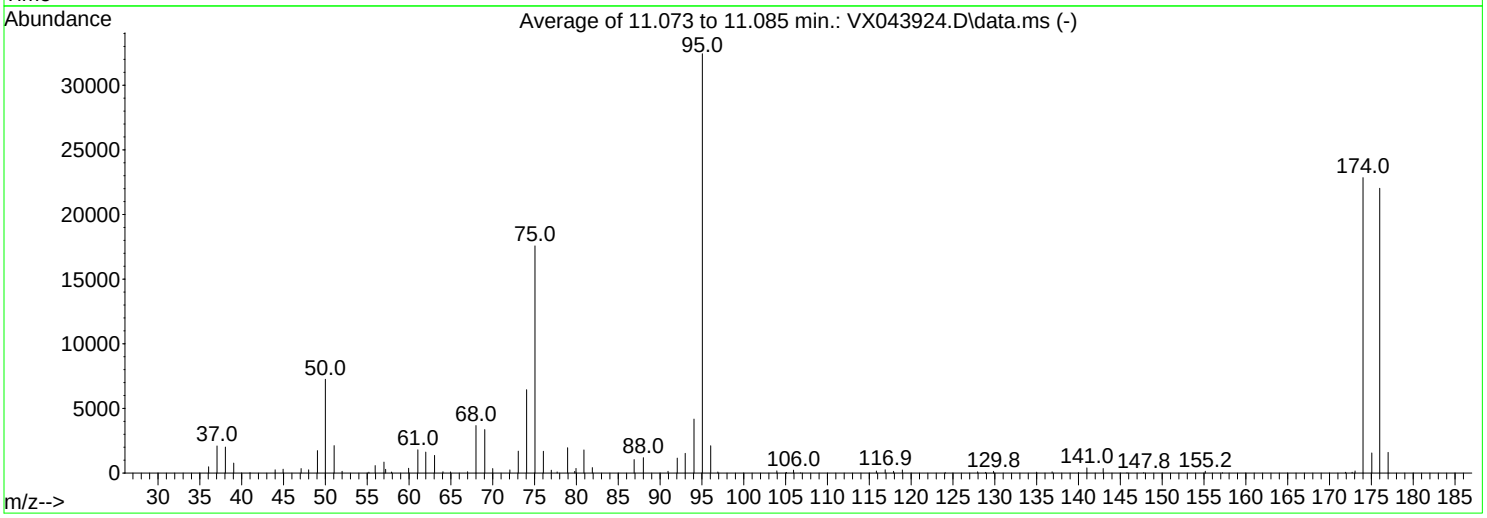
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112124\
Data File : VX043924.D
Acq On : 21 Nov 2024 08:51
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112024W.M
Title : SW846 8260
Last Update : Fri Nov 22 00:18:05 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	7254	PASS
75	95	30	60	54.2	17573	PASS
95	95	100	100	100.0	32437	PASS
96	95	5	9	6.5	2112	PASS
173	174	0.00	2	0.7	162	PASS
174	95	50	100	70.5	22853	PASS
175	174	5	9	6.8	1557	PASS
176	174	95	101	96.4	22030	PASS
177	176	5	9	7.3	1600	PASS

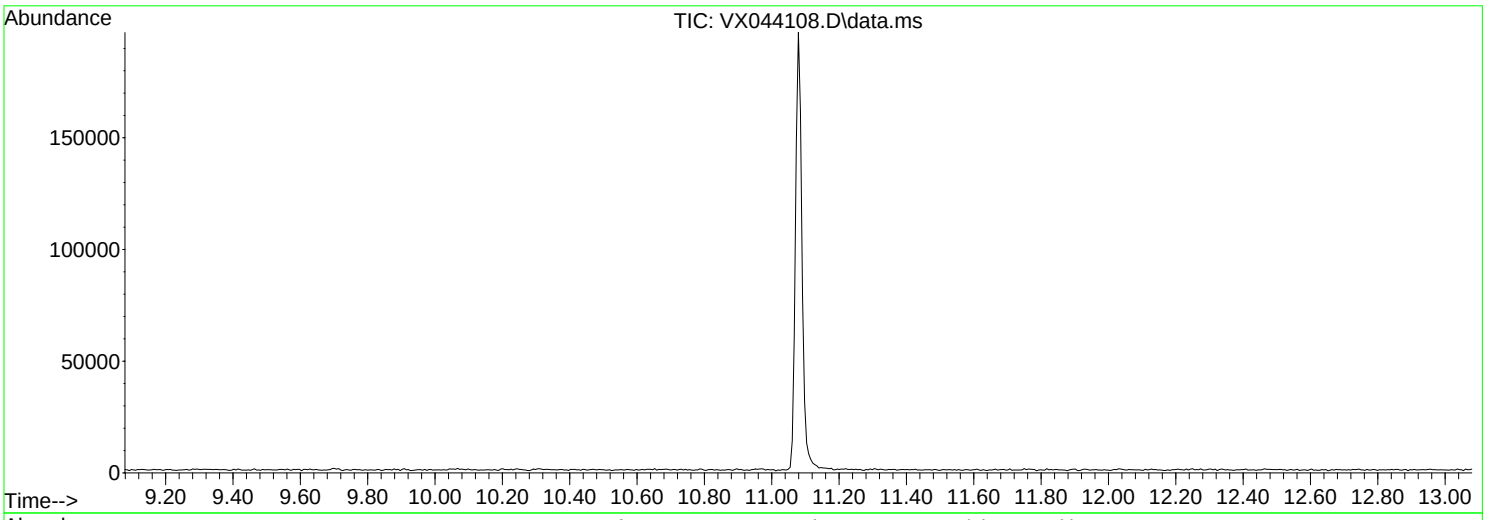
Sample Results: **VX044108.D**

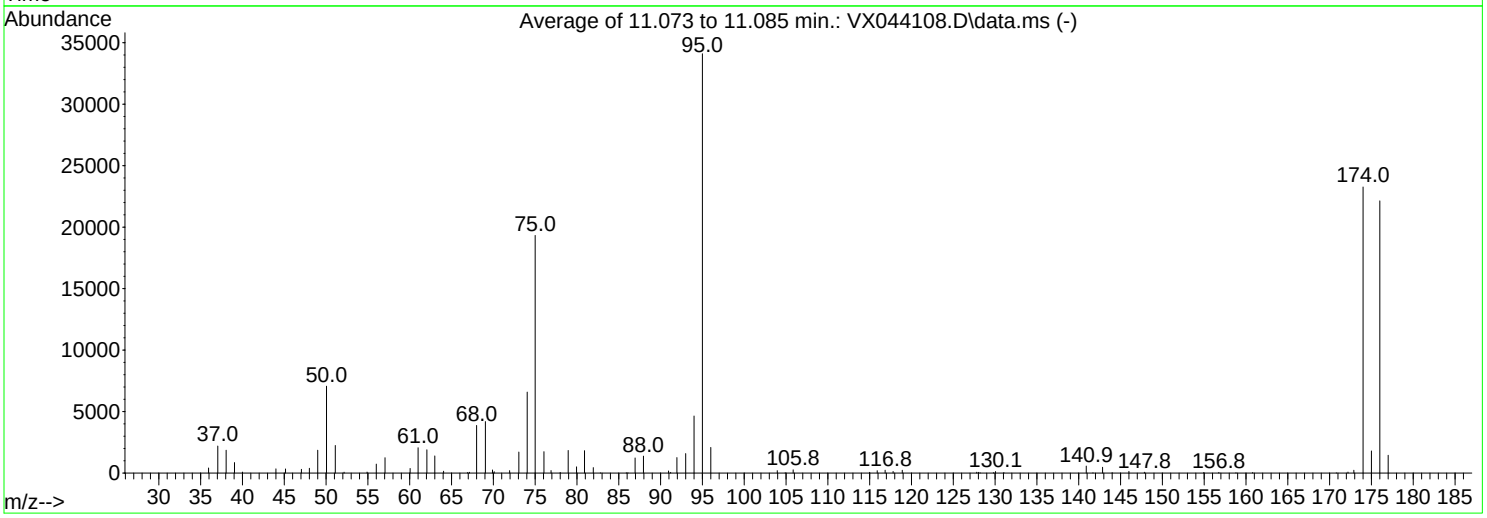
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044108.D
Acq On : 04 Dec 2024 11:12
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260
Last Update : Fri Nov 22 03:45:52 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	7067	PASS
75	95	30	60	56.7	19328	PASS
95	95	100	100	100.0	34104	PASS
96	95	5	9	6.1	2087	PASS
173	174	0.00	2	1.0	232	PASS
174	95	50	100	68.2	23267	PASS
175	174	5	9	7.7	1801	PASS
176	174	95	101	95.1	22136	PASS
177	176	5	9	6.6	1450	PASS

Raw Data: **VX044111.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBL01	SDG No.:	P5093
Lab Sample ID:	VX1204WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044111.D	1		12/04/24 12:58	VX120424

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

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBL01	SDG No.:	P5093
Lab Sample ID:	VX1204WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044111.D	1		12/04/24 12:58	VX120424

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	52.1		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	114000	5.55			
540-36-3	1,4-Difluorobenzene	220000	6.757			
3114-55-4	Chlorobenzene-d5	189000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	77700	12.024			

Raw Data: **VX044111.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBL01	SDG No.:	P5093
Lab Sample ID:	VX1204WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044111.D	1		12/04/24 12:58	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Quant Time: Dec 05 00:23:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

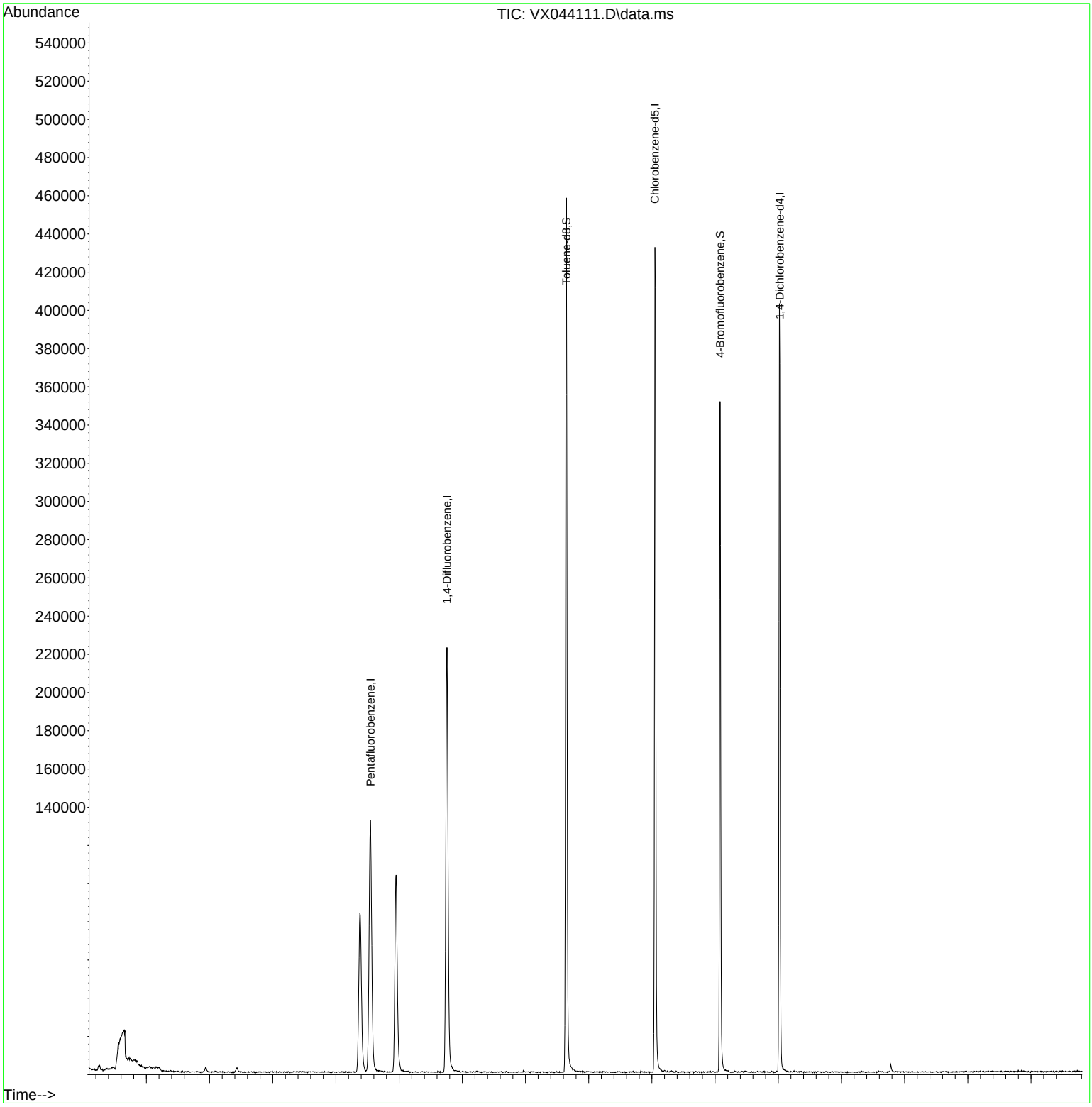
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	113722	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	6.757	114	219894	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	188758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	77704	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	101536	52.056	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.120%			
35) Dibromofluoromethane	5.385	113	72469	46.122	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.240%			
50) Toluene-d8	8.647	98	266552	49.213	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.420%			
62) 4-Bromofluorobenzene	11.079	95	89747	48.688	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.380%			
Target Compounds						Qvalue

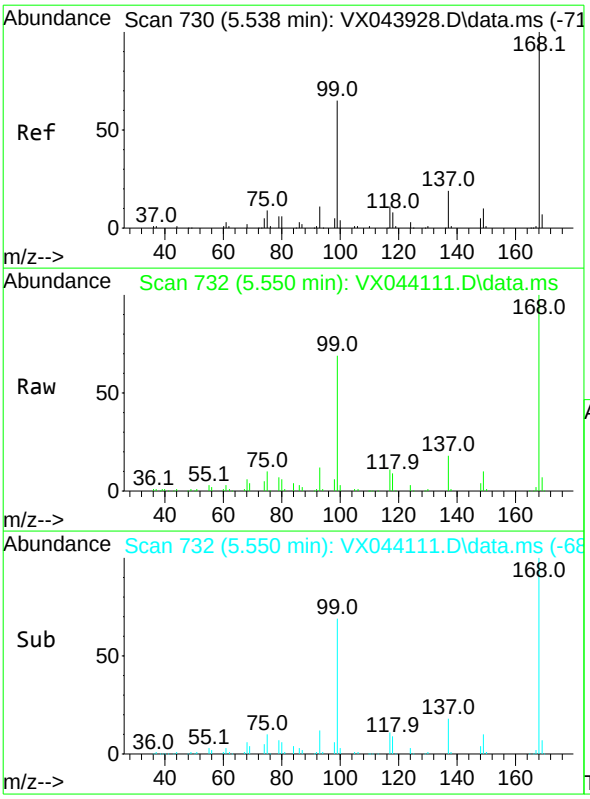
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Quant Time: Dec 05 00:23:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration



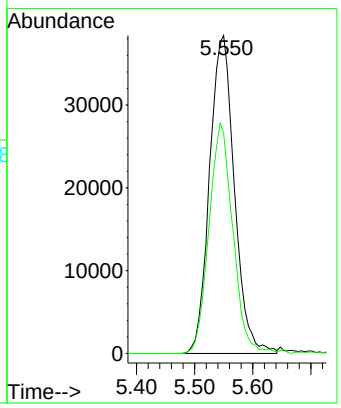


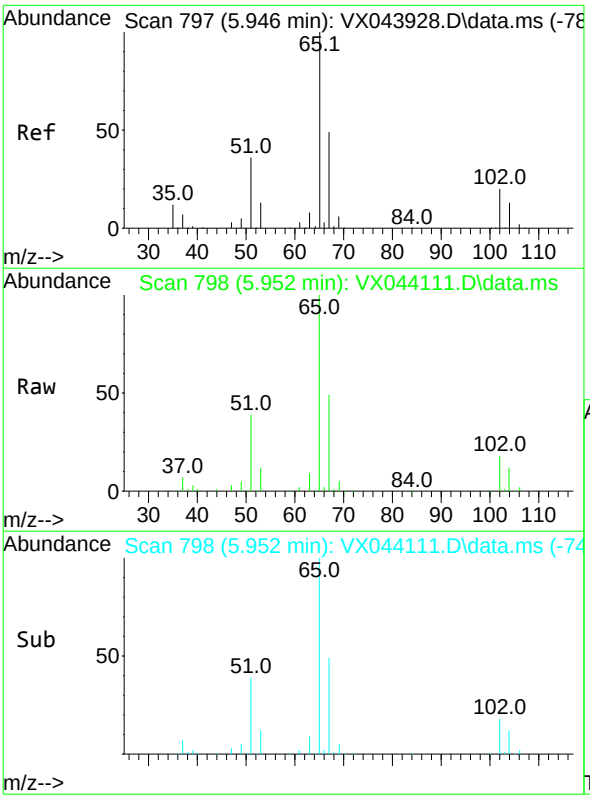
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. 0.012 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Tgt Ion:168 Resp: 113722

Ion	Ratio	Lower	Upper
168	100		
99	69.3	51.8	77.8

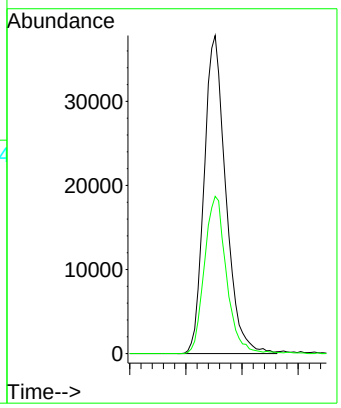


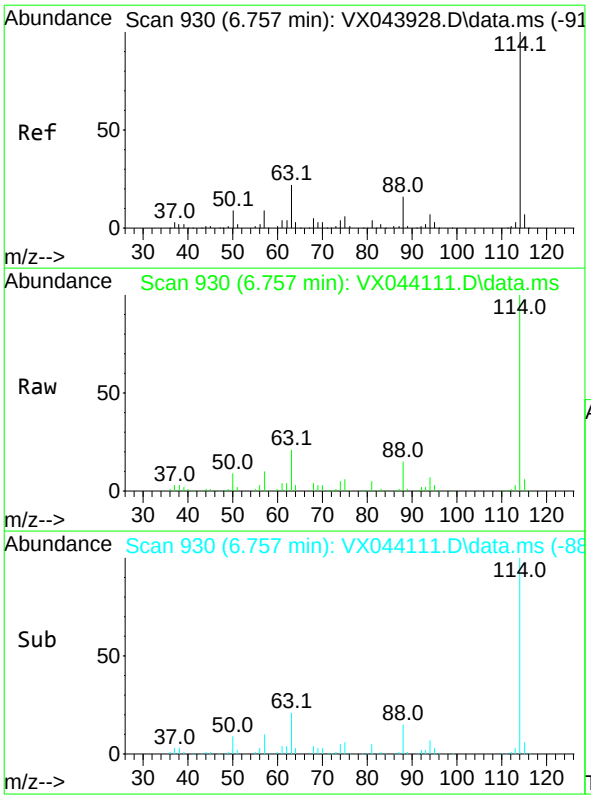


#33
1,2-Dichloroethane-d4
Concen: 52.056 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Tgt Ion: 65 Resp: 101536

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	100.8



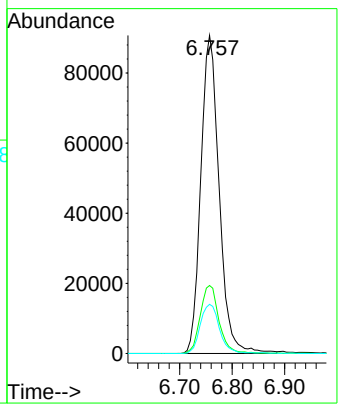


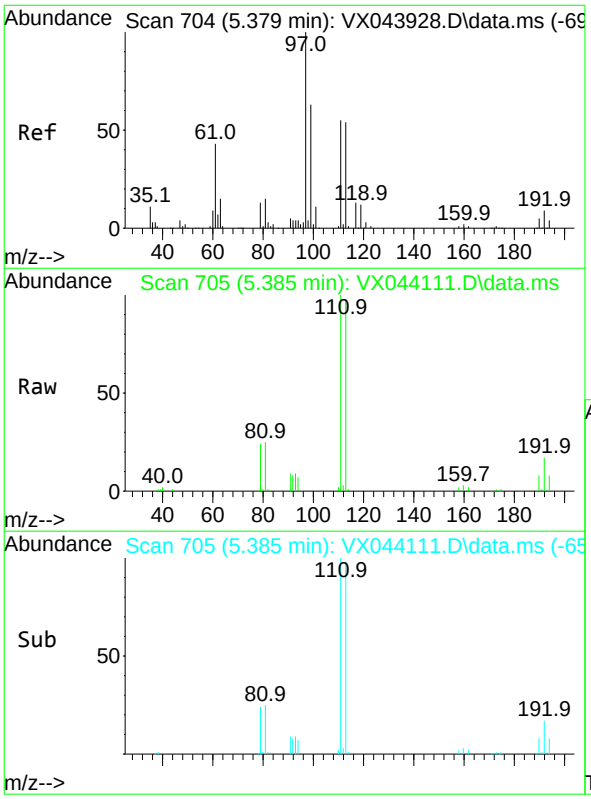
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Tgt Ion:114 Resp: 219894

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	15.5	0.0	32.4

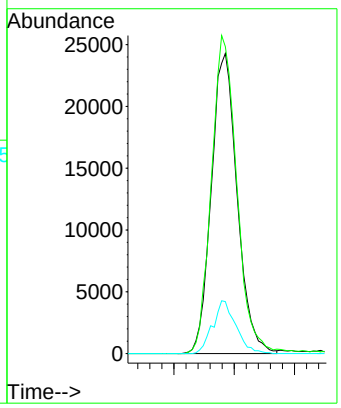


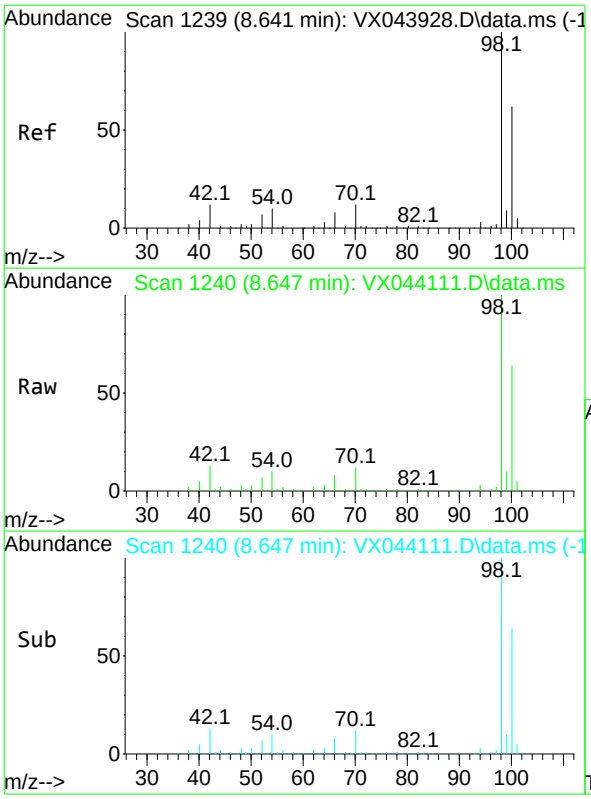


#35
Dibromofluoromethane
Concen: 46.122 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Tgt Ion:113 Resp: 72469

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.0	121.4
192	15.8	13.0	19.6



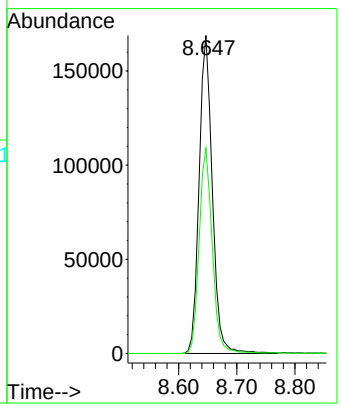


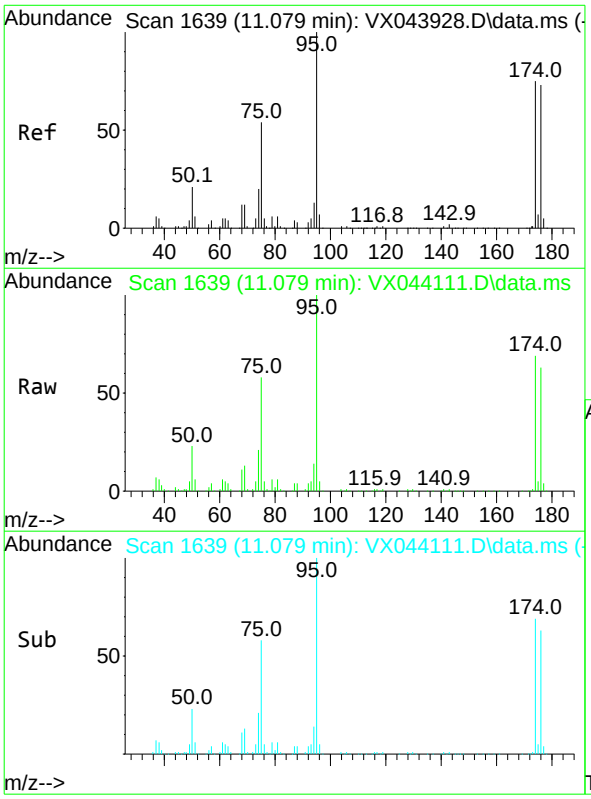
#50
Toluene-d8
Concen: 49.213 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Tgt Ion: 98 Resp: 266552

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.6	79.0

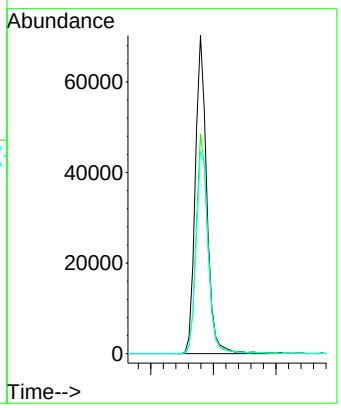


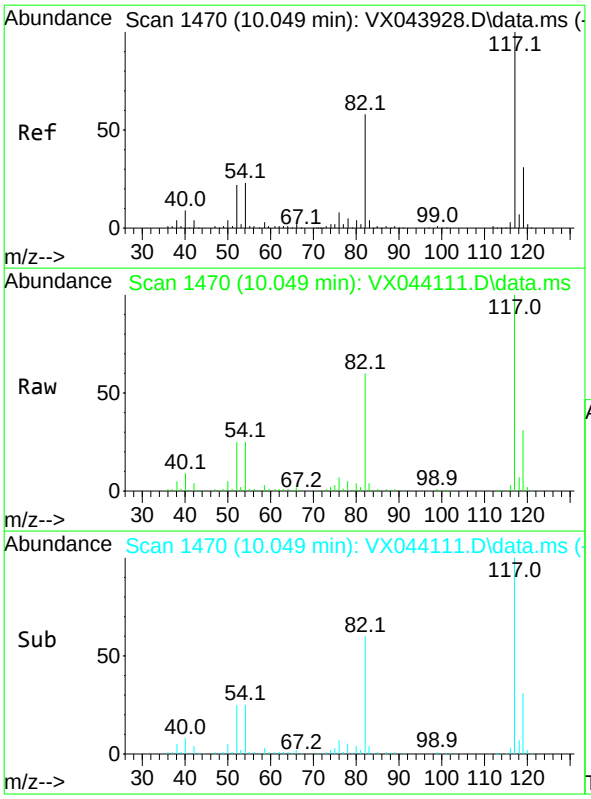


#62
4-Bromofluorobenzene
Concen: 48.688 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Tgt Ion: 95 Resp: 89747

Ion	Ratio	Lower	Upper
95	100		
174	69.7	0.0	150.4
176	67.2	0.0	146.0



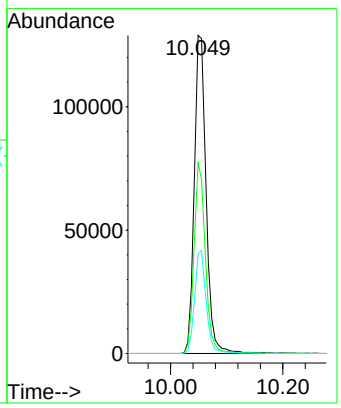


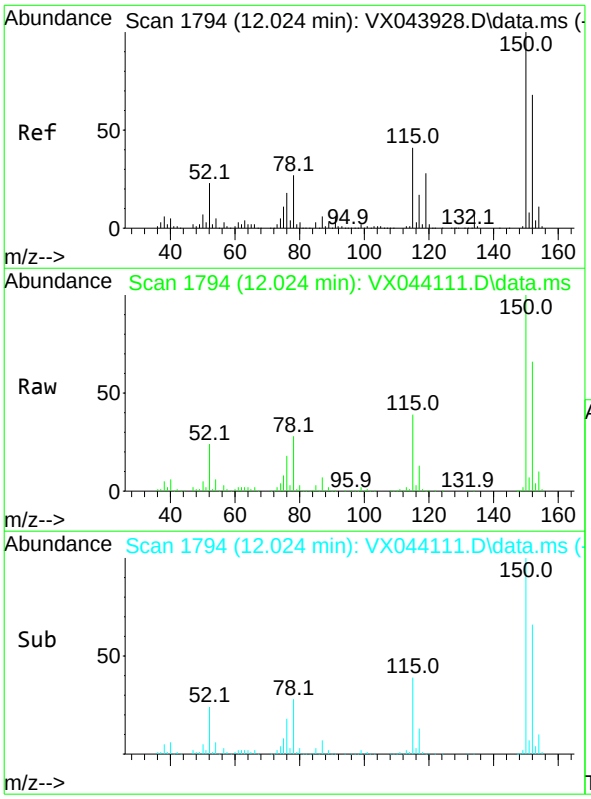
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Tgt Ion:117 Resp: 188758

Ion	Ratio	Lower	Upper
117	100		
82	60.0	46.4	69.6
119	31.4	24.6	37.0

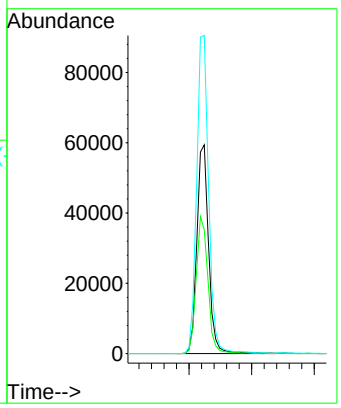




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX044111.D
Acq: 04 Dec 2024 12:58

Tgt Ion:152 Resp: 77704

Ion	Ratio	Lower	Upper
152	100		
115	65.1	45.4	136.2
150	155.6	0.0	353.0



Sample Results: **VX044111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Title : SW846 8260

Signal : TIC: VX044111.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.563	69	78	79	rBV5	13740	29293	4.00%	0.772%
2	5.379	693	704	719	rBV2	83571	250128	34.19%	6.589%
3	5.544	721	731	747	rVV2	131214	377282	51.58%	9.938%
4	5.952	786	798	811	rBV	103308	277802	37.98%	7.318%
5	6.757	921	930	944	rBV	222301	540061	73.83%	14.226%
6	8.647	1233	1240	1256	rBV	457570	731513	100.00%	19.269%
7	10.049	1465	1470	1490	rVB	431486	621547	84.97%	16.373%
8	11.079	1634	1639	1652	rBV	350650	449460	61.44%	11.840%
9	12.018	1788	1793	1805	rBV	402054	519159	70.97%	13.676%

Sum of corrected areas: 3796245

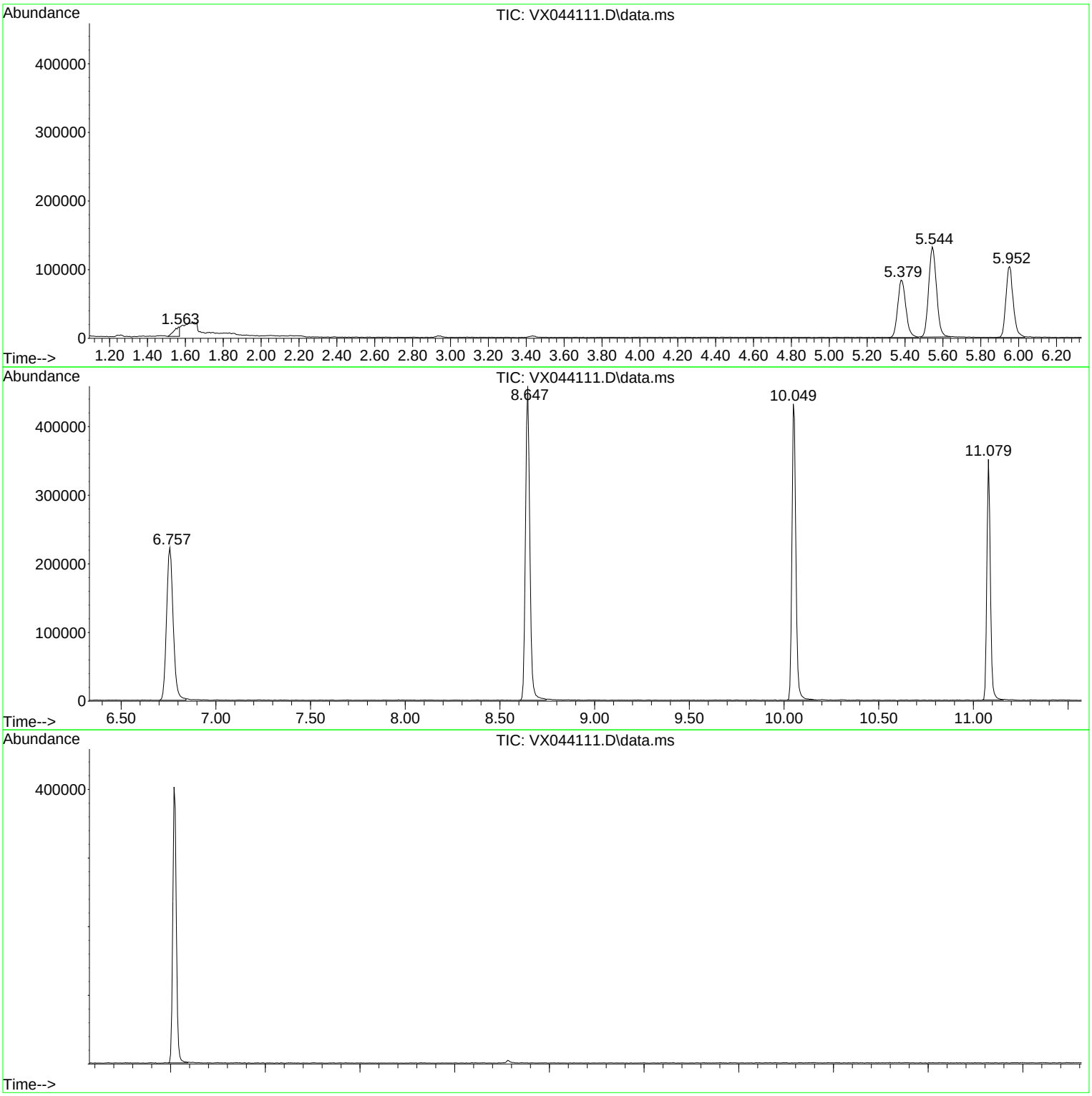
Sample Results: **VX044111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044111.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044111.D
Acq On : 04 Dec 2024 12:58
Operator : JC/MD
Sample : VX1204WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBS01	SDG No.:	P5093
Lab Sample ID:	VX1204WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044112.D	1		12/04/24 13:21	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.5		0.21	1.00	ug/L
74-87-3	Chloromethane	18.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.9		0.34	1.00	ug/L
74-83-9	Bromomethane	21.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.9		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	20.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.6		0.26	1.00	ug/L
67-64-1	Acetone	99.4		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.4		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	21.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.5		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.2		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.4		0.18	1.00	ug/L
67-66-3	Chloroform	21.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.5		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.19	1.00	ug/L
71-43-2	Benzene	20.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	20.5		0.18	1.00	ug/L

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBS01	SDG No.:	P5093
Lab Sample ID:	VX1204WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044112.D	1		12/04/24 13:21	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	18.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.5		0.31	2.00	ug/L
95-47-6	o-Xylene	21.1		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	17.3		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.6		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		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	21.0		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.4		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.8		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	120000	5.544			
540-36-3	1,4-Difluorobenzene	226000	6.757			
3114-55-4	Chlorobenzene-d5	190000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	84900	12.018			

Raw Data: **VX044112.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBS01	SDG No.:	P5093
Lab Sample ID:	VX1204WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044112.D	1		12/04/24 13:21	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VX044112.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044112.D
Acq On : 04 Dec 2024 13:21
Operator : JC/MD
Sample : VX1204WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 00:23:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	120163	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	225592	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189832	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84893	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115722	56.148	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.300%			
35) Dibromofluoromethane	5.385	113	83211	51.621	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.240%			
50) Toluene-d8	8.647	98	280762	50.528	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.060%			
62) 4-Bromofluorobenzene	11.079	95	99260	52.489	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26700	17.540	ug/l	95
3) Chloromethane	1.295	50	29260	18.266	ug/l	99
4) Vinyl Chloride	1.374	62	32229	18.915	ug/l	98
5) Bromomethane	1.593	94	22566	21.529	ug/l	98
6) Chloroethane	1.666	64	22765	21.927	ug/l	100
7) Trichlorofluoromethane	1.868	101	59496	19.531	ug/l	99
8) Diethyl Ether	2.136	74	23474	21.142	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	29404	20.236	ug/l	96
10) Methyl Iodide	2.441	142	37335	20.573	ug/l	97
11) Tert butyl alcohol	2.989	59	30744	92.936	ug/l	99
12) 1,1-Dichloroethene	2.307	96	27129	19.593	ug/l	95
13) Acrolein	2.233	56	37521	107.607	ug/l	96
14) Allyl chloride	2.660	41	46898	20.729	ug/l	94
15) Acrylonitrile	3.069	53	83841	104.001	ug/l	99
16) Acetone	2.386	43	94056	99.362	ug/l	96
17) Carbon Disulfide	2.502	76	43875	15.362	ug/l	96
18) Methyl Acetate	2.703	43	47378	21.492	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	109375	21.755	ug/l	95
20) Methylene Chloride	2.782	84	31372	19.530	ug/l	90
21) trans-1,2-Dichloroethene	3.081	96	28356	19.836	ug/l	98
22) Diisopropyl ether	3.757	45	106269	21.966	ug/l #	86
23) Vinyl Acetate	3.721	43	443108	107.069	ug/l	99
24) 1,1-Dichloroethane	3.599	63	58695	21.031	ug/l	99
25) 2-Butanone	4.562	43	127602	104.471	ug/l	95
26) 2,2-Dichloropropane	4.465	77	50179	19.908	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	35925	20.330	ug/l	97
28) Bromochloromethane	4.898	49	25067	20.405	ug/l	97
29) Tetrahydrofuran	5.007	42	79326	105.937	ug/l	97
30) Chloroform	5.087	83	65221	21.728	ug/l	98
31) Cyclohexane	5.458	56	46435	20.215	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	55653	21.499	ug/l	98
36) 1,1-Dichloropropene	5.684	75	40243	20.034	ug/l	99
37) Ethyl Acetate	4.715	43	50296	20.171	ug/l	99
38) Carbon Tetrachloride	5.672	117	43411	19.233	ug/l	99
39) Methylcyclohexane	7.379	83	49630	19.019	ug/l	97
40) Benzene	6.031	78	125395	20.041	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044112.D
Acq On : 04 Dec 2024 13:21
Operator : JC/MD
Sample : VX1204WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 00:23:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	25742	20.171 ug/l	94
42) 1,2-Dichloroethane	6.080	62	53881	21.441 ug/l	98
43) Isopropyl Acetate	6.342	43	82057	20.679 ug/l	99
44) Trichloroethene	7.123	130	30679	17.320 ug/l	90
45) 1,2-Dichloropropane	7.428	63	31801	20.751 ug/l	96
46) Dibromomethane	7.580	93	24787	20.447 ug/l	98
47) Bromodichloromethane	7.824	83	42959	19.759 ug/l	95
48) Methyl methacrylate	7.696	41	38601	20.273 ug/l	94
49) 1,4-Dioxane	7.665	88	9121	268.915 ug/l #	69
51) 4-Methyl-2-Pentanone	8.574	43	255184	105.378 ug/l	97
52) Toluene	8.714	92	76802	20.508 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	43019	19.403 ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	47419	19.510 ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	32039	20.725 ug/l	99
56) Ethyl methacrylate	9.116	69	48530	20.154 ug/l	95
57) 1,3-Dichloropropane	9.305	76	55767	21.414 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	106859	80.347 ug/l	98
59) 2-Hexanone	9.433	43	192320	105.663 ug/l	98
60) Dibromochloromethane	9.519	129	28498	18.373 ug/l	98
61) 1,2-Dibromoethane	9.610	107	32350	20.695 ug/l	99
64) Tetrachloroethene	9.269	164	25439	20.323 ug/l	96
65) Chlorobenzene	10.080	112	84199	20.195 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	28027	20.728 ug/l	97
67) Ethyl Benzene	10.189	91	148143	20.969 ug/l	99
68) m/p-Xylenes	10.299	106	109352	41.506 ug/l	99
69) o-Xylene	10.640	106	54239	21.086 ug/l	99
70) Styrene	10.653	104	87379	20.538 ug/l	98
71) Bromoform	10.799	173	16310	17.278 ug/l #	98
73) Isopropylbenzene	10.957	105	141268	21.648 ug/l	100
74) N-amyl acetate	10.842	43	64815	21.441 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	47802	21.393 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	39282m	21.100 ug/l	
77) Bromobenzene	11.195	156	32424	20.829 ug/l	99
78) n-propylbenzene	11.305	91	157667	21.633 ug/l	99
79) 2-Chlorotoluene	11.360	91	98996	21.481 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	117829	21.947 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11466	16.806 ug/l	88
82) 4-Chlorotoluene	11.451	91	110664	21.269 ug/l	99
83) tert-Butylbenzene	11.713	119	115305	21.669 ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	117565	21.995 ug/l	98
85) sec-Butylbenzene	11.890	105	139312	21.368 ug/l	100
86) p-Isopropyltoluene	12.006	119	114408	21.603 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	57464	20.268 ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	58603	20.274 ug/l	95
89) n-Butylbenzene	12.329	91	99944	21.405 ug/l	100
90) Hexachloroethane	12.536	117	16715	18.561 ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	60184	21.034 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8538	19.070 ug/l	89
93) 1,2,4-Trichlorobenzene	13.585	180	32677	19.371 ug/l	97
94) Hexachlorobutadiene	13.725	225	13196	19.793 ug/l	97
95) Naphthalene	13.774	128	129119	21.264 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	33881	19.844 ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044112.D
Acq On : 04 Dec 2024 13:21
Operator : JC/MD
Sample : VX1204WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 00:23:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044112.D
Acq On : 04 Dec 2024 13:21
Operator : JC/MD
Sample : VX1204WBS01
Misc : 5.0mL/MSVOA_X/WATER
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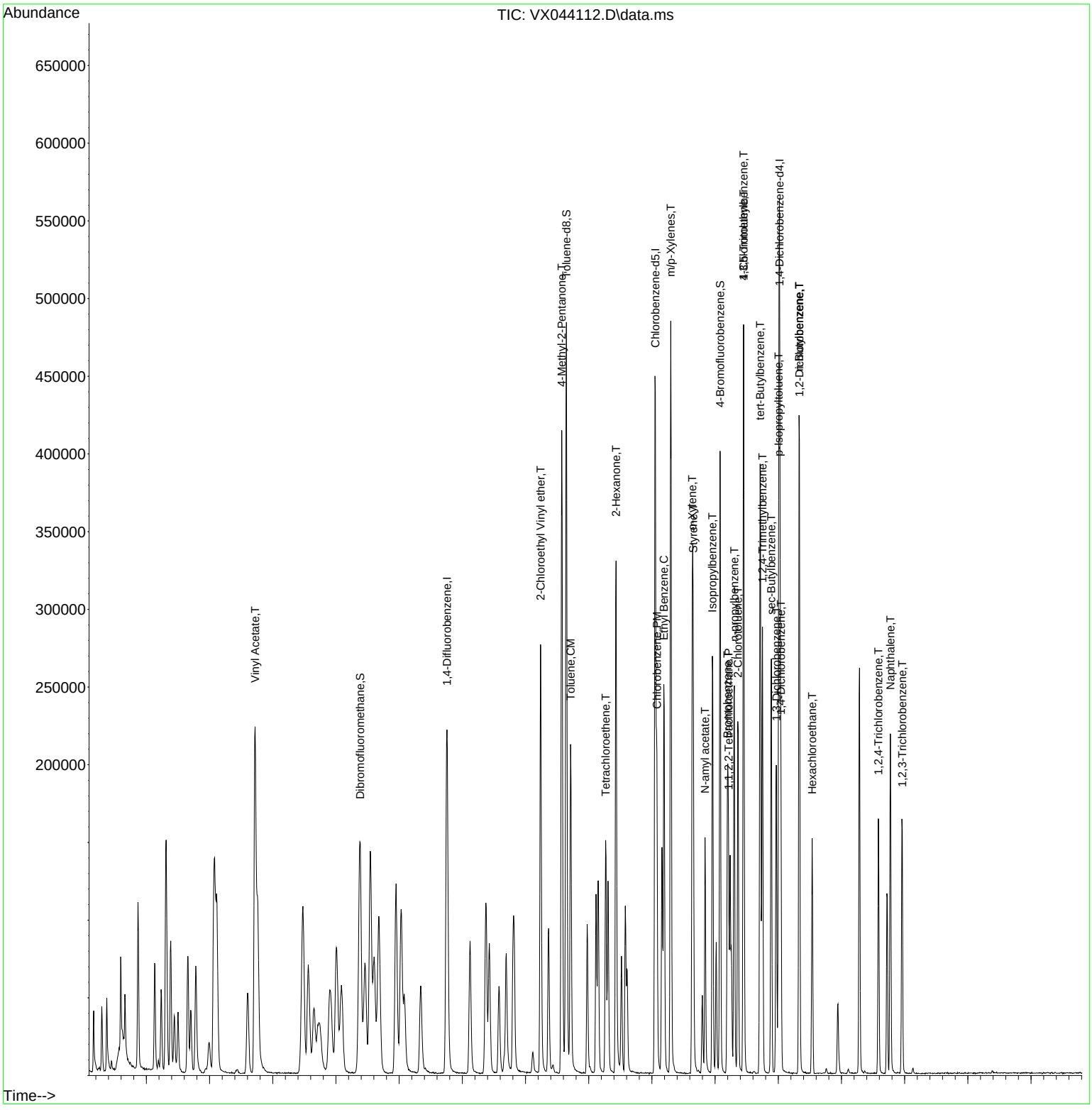
Quant Time: Dec 05 00:23:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



Raw Data: **VX044113.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBSD01	SDG No.:	P5093
Lab Sample ID:	VX1204WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044113.D	1		12/04/24 13:47	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.1		0.21	1.00	ug/L
74-87-3	Chloromethane	18.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.34	1.00	ug/L
74-83-9	Bromomethane	20.8		1.40	5.00	ug/L
75-00-3	Chloroethane	22.3		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.26	1.00	ug/L
67-64-1	Acetone	98.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		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	21.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.9		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.1		0.18	1.00	ug/L
67-66-3	Chloroform	21.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.5		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.19	1.00	ug/L
71-43-2	Benzene	20.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.4		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.2		0.18	1.00	ug/L

Raw Data: **VX044113.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBSD01	SDG No.:	P5093
Lab Sample ID:	VX1204WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044113.D	1		12/04/24 13:47	VX120424

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	20.4		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	19.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.9		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.4		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.2		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.0		0.31	2.00	ug/L
95-47-6	o-Xylene	21.2		0.14	1.00	ug/L
100-42-5	Styrene	20.8		0.16	1.00	ug/L
75-25-2	Bromoform	17.9		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.9		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.6		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.1		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.3		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.3		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	115000	5.544			
540-36-3	1,4-Difluorobenzene	207000	6.757			
3114-55-4	Chlorobenzene-d5	179000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	82600	12.018			

Raw Data: **VX044113.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	VX1204WBSD01	SDG No.:	P5093
Lab Sample ID:	VX1204WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044113.D	1		12/04/24 13:47	VX120424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **VX044113.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044113.D
Acq On : 04 Dec 2024 13:47
Operator : JC/MD
Sample : VX1204WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 00:24:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	115232	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	206872	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	178913	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	82606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109370	55.337	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.680%			
35) Dibromofluoromethane	5.379	113	78130	52.855	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.700%			
50) Toluene-d8	8.647	98	264584	51.925	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.840%			
62) 4-Bromofluorobenzene	11.079	95	94839	54.689	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25006	17.130	ug/l	96
3) Chloromethane	1.295	50	28015	18.237	ug/l	96
4) Vinyl Chloride	1.374	62	30025	18.376	ug/l	98
5) Bromomethane	1.593	94	20901	20.794	ug/l	91
6) Chloroethane	1.666	64	22200	22.298	ug/l	98
7) Trichlorofluoromethane	1.868	101	62867	21.521	ug/l	98
8) Diethyl Ether	2.130	74	21320	20.024	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	27651	19.844	ug/l	97
10) Methyl Iodide	2.441	142	34180	19.640	ug/l	97
11) Tert butyl alcohol	2.989	59	31200	98.350	ug/l	99
12) 1,1-Dichloroethene	2.307	96	25268	19.030	ug/l	94
13) Acrolein	2.233	56	35628	106.550	ug/l	100
14) Allyl chloride	2.654	41	43798	20.187	ug/l	95
15) Acrylonitrile	3.062	53	82880	107.208	ug/l	98
16) Acetone	2.386	43	89251	98.320	ug/l	98
17) Carbon Disulfide	2.502	76	43591	15.915	ug/l	100
18) Methyl Acetate	2.703	43	45440	21.495	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	105263	21.833	ug/l	98
20) Methylene Chloride	2.782	84	29827	19.362	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	26768	19.526	ug/l	96
22) Diisopropyl ether	3.764	45	99038	21.347	ug/l	97
23) Vinyl Acetate	3.715	43	430660	108.514	ug/l	99
24) 1,1-Dichloroethane	3.605	63	56025	20.933	ug/l	99
25) 2-Butanone	4.562	43	124283	106.108	ug/l	94
26) 2,2-Dichloropropane	4.471	77	47919	19.825	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	33834	19.966	ug/l	96
28) Bromochloromethane	4.891	49	23731	20.144	ug/l	100
29) Tetrahydrofuran	5.013	42	76368	106.351	ug/l	99
30) Chloroform	5.080	83	61163	21.248	ug/l	95
31) Cyclohexane	5.464	56	43850	19.907	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	53283	21.465	ug/l	99
36) 1,1-Dichloropropene	5.684	75	37571	20.397	ug/l	99
37) Ethyl Acetate	4.715	43	48962	21.413	ug/l	98
38) Carbon Tetrachloride	5.666	117	40966	19.793	ug/l	97
39) Methylcyclohexane	7.373	83	49139	20.534	ug/l	97
40) Benzene	6.031	78	115508	20.131	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044113.D
Acq On : 04 Dec 2024 13:47
Operator : JC/MD
Sample : VX1204WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 00:24:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	25107	21.454 ug/l #	90
42) 1,2-Dichloroethane	6.080	62	49334	21.408 ug/l	99
43) Isopropyl Acetate	6.342	43	79930	21.965 ug/l	98
44) Trichloroethene	7.123	130	28166	17.341 ug/l	100
45) 1,2-Dichloropropane	7.428	63	30054	21.386 ug/l	93
46) Dibromomethane	7.580	93	23576	21.208 ug/l	99
47) Bromodichloromethane	7.818	83	40640	20.384 ug/l	96
48) Methyl methacrylate	7.696	41	36691	21.013 ug/l	98
49) 1,4-Dioxane	7.665	88	10086	324.275 ug/l #	83
51) 4-Methyl-2-Pentanone	8.574	43	252833	113.855 ug/l	98
52) Toluene	8.714	92	72868	21.218 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	41774	20.547 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	45471	20.401 ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	30652	21.622 ug/l	96
56) Ethyl methacrylate	9.116	69	48535	21.980 ug/l	99
57) 1,3-Dichloropropane	9.305	76	52456	21.966 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	106301	87.188 ug/l	97
59) 2-Hexanone	9.433	43	188989	113.228 ug/l	97
60) Dibromochloromethane	9.519	129	27939	19.643 ug/l	100
61) 1,2-Dibromoethane	9.610	107	31398	21.904 ug/l	99
64) Tetrachloroethene	9.269	164	23898	20.257 ug/l	90
65) Chlorobenzene	10.080	112	80200	20.410 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	26343	20.671 ug/l	99
67) Ethyl Benzene	10.189	91	141214	21.208 ug/l	99
68) m/p-Xylenes	10.299	106	104219	41.972 ug/l	100
69) o-Xylene	10.640	106	51436	21.216 ug/l	98
70) Styrene	10.653	104	83419	20.804 ug/l	97
71) Bromoform	10.799	173	15959	17.880 ug/l #	99
73) Isopropylbenzene	10.964	105	134354	21.159 ug/l	100
74) N-amyl acetate	10.842	43	64407	21.895 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	46598	21.432 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	39328m	21.710 ug/l	
77) Bromobenzene	11.195	156	31362	20.704 ug/l	99
78) n-propylbenzene	11.305	91	152303	21.476 ug/l	98
79) 2-Chlorotoluene	11.366	91	95329	21.258 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	114085	21.838 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	10671	16.074 ug/l #	77
82) 4-Chlorotoluene	11.451	91	107030	21.140 ug/l	100
83) tert-Butylbenzene	11.713	119	109435	21.135 ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	113300	21.784 ug/l	99
85) sec-Butylbenzene	11.890	105	137654	21.698 ug/l	98
86) p-Isopropyltoluene	12.006	119	112943	21.917 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	57583	20.872 ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	56941	20.244 ug/l	96
89) n-Butylbenzene	12.329	91	98251	21.625 ug/l	99
90) Hexachloroethane	12.536	117	15672	17.885 ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	57283	20.575 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8344	19.152 ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	31357	19.104 ug/l	98
94) Hexachlorobutadiene	13.725	225	13426	20.696 ug/l	95
95) Naphthalene	13.774	128	128692	21.780 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	33682	20.273 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044113.D
Acq On : 04 Dec 2024 13:47
Operator : JC/MD
Sample : VX1204WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024

Quant Time: Dec 05 00:24:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

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

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

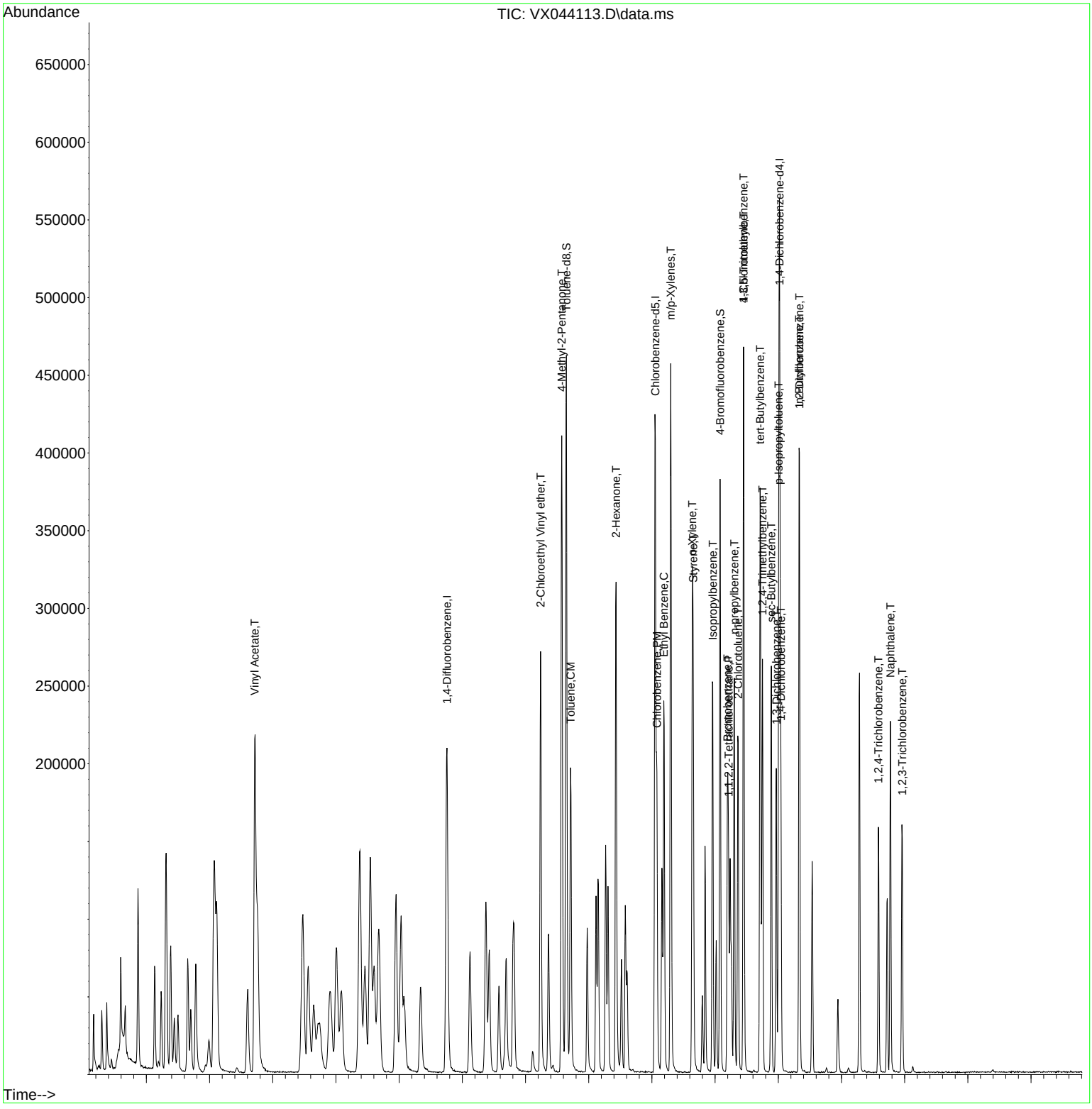
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120424\
Data File : VX044113.D
Acq On : 04 Dec 2024 13:47
Operator : JC/MD
Sample : VX1204WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 00:24:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 22 03:45:52 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1204WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2024
Supervised By :Mahesh Dadoda 12/05/2024



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Manual Integration Report

Sequence:	vx112124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX043923.D	1,2,3-Trichloropropane	JOHN	11/21/2024 9:44:34 AM	MMDadoda	11/22/2024 3:33:41 PM	Peak Integrated by Software
VSTDICV050	VX043923.D	1,4-Dioxane	JOHN	11/21/2024 9:44:34 AM	MMDadoda	11/22/2024 3:33:41 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	1,4-Dichlorobenzene	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Bromochloromethane	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Ethyl Acetate	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Methacrylonitrile	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC001	VX043925.D	Methyl methacrylate	JOHN	11/22/2024 9:57:01 AM	MMDadoda	11/22/2024 3:33:43 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	1,4-Dioxane	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	Ethyl Acetate	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC005	VX043926.D	Tert butyl alcohol	JOHN	11/22/2024 9:57:07 AM	MMDadoda	11/22/2024 3:33:44 PM	Peak Integrated by Software
VSTDICC020	VX043927.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:12 AM	MMDadoda	11/22/2024 3:33:46 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx112124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VX043927.D	1,4-Dioxane	JOHN	11/22/2024 9:57:12 AM	MMDadoda	11/22/2024 3:33:46 PM	Peak Integrated by Software
VSTDICCC050	VX043928.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:17 AM	MMDadoda	11/22/2024 3:33:47 PM	Peak Integrated by Software
VSTDICCC050	VX043928.D	1,4-Dioxane	JOHN	11/22/2024 9:57:17 AM	MMDadoda	11/22/2024 3:33:47 PM	Peak Integrated by Software
VSTDICC100	VX043929.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:21 AM	MMDadoda	11/22/2024 3:33:49 PM	Peak Integrated by Software
VSTDICC100	VX043929.D	1,4-Dioxane	JOHN	11/22/2024 9:57:21 AM	MMDadoda	11/22/2024 3:33:49 PM	Peak Integrated by Software
VSTDICC150	VX043930.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:26 AM	MMDadoda	11/22/2024 3:33:50 PM	Peak Integrated by Software
VSTDICV050	VX043932.D	1,2,3-Trichloropropane	JOHN	11/22/2024 9:57:30 AM	MMDadoda	11/22/2024 3:33:52 PM	Peak Integrated by Software
VSTDCCC050	VX043948.D	1,2,3-Trichloropropane	MMDadoda	11/29/2024 8:03:03 AM	SAM	11/29/2024 8:03:34 AM	Peak Integrated by Software
VSTDCCC050	VX043948.D	2-Chloroethyl Vinyl ether	MMDadoda	11/29/2024 8:03:03 AM	SAM	11/29/2024 8:03:34 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX120424	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044109.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:52:01 AM	MMDadoda	12/5/2024 12:36:02 PM	Peak Integrated by Software
VX1204WBS01	VX044112.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:52:06 AM	MMDadoda	12/5/2024 12:36:02 PM	Peak Integrated by Software
VX1204WBSD01	VX044113.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:52:10 AM	MMDadoda	12/5/2024 12:36:03 PM	Peak Integrated by Software
VSTDCCC050	VX044134.D	1,2,3-Trichloropropane	JOHN	12/5/2024 9:53:28 AM	MMDadoda	12/5/2024 12:36:04 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043915.D	20 Nov 2024 15:43	JC/MD	Not Ok
2	VSTDICC001	VX043916.D	20 Nov 2024 16:11	JC/MD	Not Ok
3	VSTDICC005	VX043917.D	20 Nov 2024 16:57	JC/MD	Not Ok
4	VSTDICC020	VX043918.D	20 Nov 2024 17:20	JC/MD	Not Ok
5	VSTDICCC050	VX043919.D	20 Nov 2024 17:43	JC/MD	Not Ok
6	VSTDICC100	VX043920.D	20 Nov 2024 18:06	JC/MD	Not Ok
7	VSTDICC150	VX043921.D	20 Nov 2024 18:30	JC/MD	Not Ok
8	IBLK	VX043922.D	20 Nov 2024 18:53	JC/MD	Not Ok
9	VSTDICV050	VX043923.D	20 Nov 2024 19:16	JC/MD	Not Ok
10	BFB	VX043924.D	21 Nov 2024 08:51	JC/MD	Ok
11	VSTDICC001	VX043925.D	21 Nov 2024 09:47	JC/MD	Ok,M
12	VSTDICC005	VX043926.D	21 Nov 2024 10:14	JC/MD	Ok,M
13	VSTDICC020	VX043927.D	21 Nov 2024 10:37	JC/MD	Ok,M
14	VSTDICCC050	VX043928.D	21 Nov 2024 11:17	JC/MD	Ok,M
15	VSTDICC100	VX043929.D	21 Nov 2024 11:40	JC/MD	Ok,M
16	VSTDICC150	VX043930.D	21 Nov 2024 12:03	JC/MD	Ok,M
17	IBLK	VX043931.D	21 Nov 2024 12:27	JC/MD	Ok
18	VSTDICV050	VX043932.D	21 Nov 2024 13:57	JC/MD	Ok,M
19	VX1121MBL01	VX043933.D	21 Nov 2024 14:27	JC/MD	Ok
20	VX1121WBL01	VX043934.D	21 Nov 2024 14:50	JC/MD	Ok
21	VX1121WBS01	VX043935.D	21 Nov 2024 15:13	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VX1121WBSD01	VX043936.D	21 Nov 2024 15:40	JC/MD	Ok,M
23	P4921-01	VX043937.D	21 Nov 2024 16:03	JC/MD	Ok
24	P4934-01	VX043938.D	21 Nov 2024 16:27	JC/MD	Ok
25	P4934-09	VX043939.D	21 Nov 2024 16:50	JC/MD	Ok
26	P4934-11	VX043940.D	21 Nov 2024 17:13	JC/MD	Ok
27	P4934-02	VX043941.D	21 Nov 2024 17:36	JC/MD	Ok
28	P4934-03	VX043942.D	21 Nov 2024 17:59	JC/MD	Ok
29	P4934-08	VX043943.D	21 Nov 2024 18:23	JC/MD	Ok
30	P4934-10	VX043944.D	21 Nov 2024 18:46	JC/MD	Ok
31	P4934-04	VX043945.D	21 Nov 2024 19:09	JC/MD	Ok
32	P4934-12	VX043946.D	21 Nov 2024 19:32	JC/MD	Ok
33	P4934-05	VX043947.D	21 Nov 2024 19:55	JC/MD	Ok
34	VSTDCCC050	VX043948.D	21 Nov 2024 20:18	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX120424

Review By	Mahesh Dadoda	Review On	12/5/2024 12:36:06 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2024 12:36:46 PM		
SubDirectory	VX120424	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131908
Initial Calibration Stds	
CCC	VP131909,VP131910
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044108.D	04 Dec 2024 11:12	JC/MD	Ok
2	VSTDCCC050	VX044109.D	04 Dec 2024 12:12	JC/MD	Ok,M
3	VX1204MBL01	VX044110.D	04 Dec 2024 12:35	JC/MD	Ok
4	VX1204WBL01	VX044111.D	04 Dec 2024 12:58	JC/MD	Ok
5	VX1204WBS01	VX044112.D	04 Dec 2024 13:21	JC/MD	Ok,M
6	VX1204WBSD01	VX044113.D	04 Dec 2024 13:47	JC/MD	Ok,M
7	P5006-04	VX044114.D	04 Dec 2024 14:10	JC/MD	ReRun
8	IBLK	VX044115.D	04 Dec 2024 14:33	JC/MD	Ok
9	P5006-09DL	VX044116.D	04 Dec 2024 14:56	JC/MD	Ok
10	P5006-12DL	VX044117.D	04 Dec 2024 15:20	JC/MD	Ok
11	P5006-10DL	VX044118.D	04 Dec 2024 15:43	JC/MD	Ok
12	P5006-11DL	VX044119.D	04 Dec 2024 16:06	JC/MD	Ok
13	P5006-03RE	VX044120.D	04 Dec 2024 16:29	JC/MD	Confirms
14	P5006-05RE	VX044121.D	04 Dec 2024 16:52	JC/MD	Confirms
15	P5006-06RE	VX044122.D	04 Dec 2024 17:15	JC/MD	Confirms
16	P5006-08RE	VX044123.D	04 Dec 2024 17:38	JC/MD	Confirms
17	P5006-13RE	VX044124.D	04 Dec 2024 18:02	JC/MD	Confirms
18	P5006-14RE	VX044125.D	04 Dec 2024 18:25	JC/MD	Confirms
19	P5006-15RE	VX044126.D	04 Dec 2024 18:48	JC/MD	Confirms
20	P5006-16RE	VX044127.D	04 Dec 2024 19:11	JC/MD	Confirms
21	P5006-17RE	VX044128.D	04 Dec 2024 19:34	JC/MD	Confirms

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX120424

Review By	Mahesh Dadoda	Review On	12/5/2024 12:36:06 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2024 12:36:46 PM		
SubDirectory	VX120424	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131908
Initial Calibration Stds	
CCC	VP131909,VP131910
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5006-04RE	VX044129.D	04 Dec 2024 19:57	JC/MD	Confirms
23	IBLK	VX044130.D	04 Dec 2024 20:21	JC/MD	Ok
24	P5093-01	VX044131.D	04 Dec 2024 20:44	JC/MD	Ok
25	P5093-02	VX044132.D	04 Dec 2024 21:07	JC/MD	Ok
26	P5093-03	VX044133.D	04 Dec 2024 21:30	JC/MD	Ok
27	VSTDCCC050	VX044134.D	04 Dec 2024 21:53	JC/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043915.D	20 Nov 2024 15:43		JC/MD	Not Ok
2	VSTDICC001	VSTDICC001	VX043916.D	20 Nov 2024 16:11	%D failed for Comp. #71,74,90,92 in 01 PPB	JC/MD	Not Ok
3	VSTDICC005	VSTDICC005	VX043917.D	20 Nov 2024 16:57	%D failed for Comp. #81 in 05 PPB	JC/MD	Not Ok
4	VSTDICC020	VSTDICC020	VX043918.D	20 Nov 2024 17:20		JC/MD	Not Ok
5	VSTDICCC050	VSTDICC050	VX043919.D	20 Nov 2024 17:43		JC/MD	Not Ok
6	VSTDICC100	VSTDICC100	VX043920.D	20 Nov 2024 18:06		JC/MD	Not Ok
7	VSTDICC150	VSTDICC150	VX043921.D	20 Nov 2024 18:30		JC/MD	Not Ok
8	IBLK	IBLK	VX043922.D	20 Nov 2024 18:53		JC/MD	Not Ok
9	VSTDICV050	ICVVX112124	VX043923.D	20 Nov 2024 19:16	Failed	JC/MD	Not Ok
10	BFB	BFB	VX043924.D	21 Nov 2024 08:51		JC/MD	Ok
11	VSTDICC001	VSTDICC001	VX043925.D	21 Nov 2024 09:47	%D failed for Comp. #71 in 01 PPB	JC/MD	Ok,M
12	VSTDICC005	VSTDICC005	VX043926.D	21 Nov 2024 10:14	QR- 58,71	JC/MD	Ok,M
13	VSTDICC020	VSTDICC020	VX043927.D	21 Nov 2024 10:37		JC/MD	Ok,M
14	VSTDICCC050	VSTDICCC050	VX043928.D	21 Nov 2024 11:17		JC/MD	Ok,M
15	VSTDICC100	VSTDICC100	VX043929.D	21 Nov 2024 11:40		JC/MD	Ok,M
16	VSTDICC150	VSTDICC150	VX043930.D	21 Nov 2024 12:03		JC/MD	Ok,M
17	IBLK	IBLK	VX043931.D	21 Nov 2024 12:27		JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX112124

Review By	John Carlone	Review On	11/21/2024 9:44:50 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/22/2024 3:34:00 PM		
SubDirectory	VX112124	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131686,VP131690
Initial Calibration Stds	VP131716,VP131717,VP131718,VP131719,VP131720,VP131721
CCC	VP131691
Internal Standard/PEM	
ICV/I.BLK	VP131722
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDICV050	ICVVX112124	VX043932.D	21 Nov 2024 13:57		JC/MD	Ok,M
19	VX1121MBL01	VX1121MBL01	VX043933.D	21 Nov 2024 14:27		JC/MD	Ok
20	VX1121WBL01	VX1121WBL01	VX043934.D	21 Nov 2024 14:50		JC/MD	Ok
21	VX1121WBS01	VX1121WBS01	VX043935.D	21 Nov 2024 15:13		JC/MD	Ok,M
22	VX1121WBSD01	VX1121WBSD01	VX043936.D	21 Nov 2024 15:40		JC/MD	Ok,M
23	P4921-01	WC-11-A-202411	VX043937.D	21 Nov 2024 16:03	vial B pH#5.0	JC/MD	Ok
24	P4934-01	TB-01-20241118	VX043938.D	21 Nov 2024 16:27	vial A pH<2 TB;	JC/MD	Ok
25	P4934-09	FB-01-20241119	VX043939.D	21 Nov 2024 16:50	vial A pH<2 FB;	JC/MD	Ok
26	P4934-11	RB-01-20241119	VX043940.D	21 Nov 2024 17:13	vial A pH<2	JC/MD	Ok
27	P4934-02	BPOW6-11-20241118	VX043941.D	21 Nov 2024 17:36	vial A pH<2	JC/MD	Ok
28	P4934-03	BPOW6-7-20241118	VX043942.D	21 Nov 2024 17:59	vial A pH<2	JC/MD	Ok
29	P4934-08	BPOW6-9-20241119	VX043943.D	21 Nov 2024 18:23	vial A pH<2	JC/MD	Ok
30	P4934-10	BPOW6-8-20241119	VX043944.D	21 Nov 2024 18:46	vial A pH<2	JC/MD	Ok
31	P4934-04	DUP-01-20241118	VX043945.D	21 Nov 2024 19:09	vial A pH<2	JC/MD	Ok
32	P4934-12	DUP-02-20241119	VX043946.D	21 Nov 2024 19:32	vial A pH<2	JC/MD	Ok
33	P4934-05	BPOW6-10-20241119	VX043947.D	21 Nov 2024 19:55	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX043948.D	21 Nov 2024 20:18		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX120424

Review By	Mahesh Dadoda	Review On	12/5/2024 12:36:06 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2024 12:36:46 PM		
SubDirectory	VX120424	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131908
Initial Calibration Stds	
CCC	VP131909,VP131910
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044108.D	04 Dec 2024 11:12		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044109.D	04 Dec 2024 12:12	V13516	JC/MD	Ok,M
3	VX1204MBL01	VX1204MBL01	VX044110.D	04 Dec 2024 12:35		JC/MD	Ok
4	VX1204WBL01	VX1204WBL01	VX044111.D	04 Dec 2024 12:58		JC/MD	Ok
5	VX1204WBS01	VX1204WBS01	VX044112.D	04 Dec 2024 13:21		JC/MD	Ok,M
6	VX1204WBSD01	VX1204WBSD01	VX044113.D	04 Dec 2024 13:47		JC/MD	Ok,M
7	P5006-04	SPLP-C5-2	VX044114.D	04 Dec 2024 14:10	vial A pH#6.0 Surrogate fail	JC/MD	ReRun
8	IBLK	IBLK	VX044115.D	04 Dec 2024 14:33		JC/MD	Ok
9	P5006-09DL	SPLP-C10-1DL	VX044116.D	04 Dec 2024 14:56	vial B pH#6.0	JC/MD	Ok
10	P5006-12DL	SPLP-C11-1DL	VX044117.D	04 Dec 2024 15:20	vial B pH#6.0	JC/MD	Ok
11	P5006-10DL	SPLP-C10-2DL	VX044118.D	04 Dec 2024 15:43	vial B pH#6.0	JC/MD	Ok
12	P5006-11DL	SPLP-C10-3DL	VX044119.D	04 Dec 2024 16:06	vial B pH#6.0	JC/MD	Ok
13	P5006-03RE	SPLP-C5-1RE	VX044120.D	04 Dec 2024 16:29	Surrogate fail	JC/MD	Confirms
14	P5006-05RE	SPLP-C5-3RE	VX044121.D	04 Dec 2024 16:52	Surrogate fail	JC/MD	Confirms
15	P5006-06RE	SPLP-C6-1RE	VX044122.D	04 Dec 2024 17:15	Surrogate fail	JC/MD	Confirms
16	P5006-08RE	SPLP-C6-3RE	VX044123.D	04 Dec 2024 17:38	Surrogate fail	JC/MD	Confirms
17	P5006-13RE	SPLP-C11-2RE	VX044124.D	04 Dec 2024 18:02	Surrogate fail	JC/MD	Confirms
18	P5006-14RE	SPLP-C11-3RE	VX044125.D	04 Dec 2024 18:25	Surrogate fail	JC/MD	Confirms

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX120424

Review By	Mahesh Dadoda	Review On	12/5/2024 12:36:06 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2024 12:36:46 PM		
SubDirectory	VX120424	HP Acquire Method		HP Processing Method	82X112124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131908
Initial Calibration Stds	
CCC	VP131909,VP131910
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5006-15RE	SPLP-C12-1RE	VX044126.D	04 Dec 2024 18:48	Surrogate fail	JC/MD	Confirms
20	P5006-16RE	SPLP-C12-2RE	VX044127.D	04 Dec 2024 19:11	Surrogate fail	JC/MD	Confirms
21	P5006-17RE	SPLP-C12-3RE	VX044128.D	04 Dec 2024 19:34	Surrogate fail	JC/MD	Confirms
22	P5006-04RE	SPLP-C5-2RE	VX044129.D	04 Dec 2024 19:57	Surrogate fail	JC/MD	Confirms
23	IBLK	IBLK	VX044130.D	04 Dec 2024 20:21		JC/MD	Ok
24	P5093-01	LL-001	VX044131.D	04 Dec 2024 20:44	vial A pH<2	JC/MD	Ok
25	P5093-02	LL-001-FB-12-4-24	VX044132.D	04 Dec 2024 21:07	vial A pH<2 FB	JC/MD	Ok
26	P5093-03	TB-12-4-24	VX044133.D	04 Dec 2024 21:30	vial A pH<2 TB	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX044134.D	04 Dec 2024 21:53		JC/MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO.
QUOTE NO. P50093
COC Number 2040990 P5094

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: R3M Engineering, INC
ADDRESS: 11 Landing Ln.
CITY New Brunswick STATE: NJ ZIP:
ATTENTION: Stacey L. Felts-Bock
PHONE: (973) 207-1820 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MC054.36 23-B-1 LM - Landing Lane New Brunswick
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1 VOC-TCL
2 SVOC-TCL BNA 20
3 Pest./PCB
4 TOC
5 Dioxin
6 Metals
7 Cyanide
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	E	E	C	E	B	D			← Specify Preservatives
1.	LL-001	W.		X	12/4	1105	10	X	X	X	X	X	X	X			A-HCl D-NaOH
2.	LL-001-FB-12-4-24	W		X	12/4	1100	10	X	X	X	X	X	X	X			B-HN03 E-ICE
3.	TB-12-4-24	W		X	12/4	—	2	X									C-H2SO4 F-OTHER
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 1200 12/4/24	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1300 12/4/24	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 5.3°C °C
Comments:

Page 1 of 1

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

Shipment Complete ❑ YES ❑ NO

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

LOW FLOW SAMPLING
DATA SHEET

SHEET 1 OF 1

SITE: Landing Lane New Brunswick
DATE: 12-4-24
WEATHER:

CONSULTING FIRM: Alliance Technical Group
FIELD PERSONNEL: Gorge Vegnon

MONITOR WELL #:
WELL PERMIT #:
WELL DEPTH: 20'
WELL DIAMETER: 2" inches
SCREENED/OPEN INTERVAL:

PID/FID READINGS (ppm):
BACKGROUND: 0.0
BENEATH OUTER CAP: 0.0
BENEATH INNER CAP: 0.0

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 22.8' ft below TOC

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0925	X		7.38	NA	0.266	NA	162	NA	4.60	NA	257	NA	15.42	NA	—	22.8'
0930	X		7.24	0.14	0.261	0.005	157	5	4.03	0.57	253	4	16.05	0.63	—	22.8'
0935	X		7.14	0.1	0.257	0.004	139	18	2.77	1.26	94.8	158.2	16.44	0.39	—	22.8'
0940	X		7.11	0.03	0.255	0.002	132	7	1.89	0.88	73.6	21.2	16.66	0.22	—	22.8'
0945	X		7.11	0	0.254	0.001	128	4	1.19	0.7	60.1	13.5	16.92	0.26	—	22.8'
0950	X		7.11	0	0.252	0.002	122	6	2.11	0.92	54.2	5.9	16.82	0.1	—	22.8'
0955	X		7.11	0	0.253	0.001	121	1	2.12	0.01	52.8	1.4	16.79	0.03	—	22.8'
1000	X		7.11	0	0.255	0.002	120	1	2.08	0.04	52.6	0.2	16.78	0.01	—	22.8'
1005		X	7.11	0	0.257	0.002	122	2	2.06	0.02	51.9	0.9	16.77	0.01	—	22.8'

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln. New Brunswick

Client Rep on Site: Stacey L. Fehto-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: 1200

Project Name: MC054.36 23-8-1 LH-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD EQUIPMENT CALIBRATION

pH Calibration (SM4500-H B/9040C)				
	Calibration			ICV (± 0.1 pH unit)
	7.00 Buffer W 3071	4.00 Buffer W 3107	10.00 Buffer W 3094	7.00 Buffer W 3093
Time	0710	0712	0714	0716
Temp °C	14.92	14.96	14.90	14.93
pH	7.00	4.01	10.02	7.00

FIELD EQUIPMENT CALIBRATION

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
	Calibration (± 1%) (99% -101%)	ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date:

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln.

Client Rep on Site: Stacey L. Felts-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: _____

Project Name: MC054 36 23-8-1 LM-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD SAMPLING INFORMATION

Sampling Location	Date/Time of sampling	Field Measurements			
		Date/Time of Analysis	pH	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV (W3071)	12-4-24 0959	12-4-24 1001	7.01	16.70	0.266
LL-001	1003	1005	7.11	16.77	0.257
DUP	1007	1009	7.11	16.76	0.255
CCV (W3071)	1011	1013	7.00	16.72	0.264

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date: _____

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

Laboratory Certification

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

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5093 RTHR01
Client Name : R3M Engineering, Inc.
Client Contact : Stacey L. Felts-Bock
Invoice Name : R3M Engineering, Inc.
Invoice Contact : Stacey L. Felts-Bock

Order Date : 12/4/2024 12:24:38 PM
Project Name : MC054.36 23-8-1 LM - Lar
Receive DateTime : 12/4/2024 ~~12:00:00 AM~~ 13:00
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5093-01	LL-001	Water	12/04/2024	11:05					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-02	LL-001-FB-12-4-24	Water	12/04/2024	11:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-03	TB-12-4-24	Water	12/04/2024	00:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days

Relinguished By : AV
Date / Time : 12/4/24 1400

Received By : Sally
Date / Time : 12/4/24 14:00 NG 12 4

Storage Area : **VOA Refridgerator Room**