

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q3787	OrderDate:	12/5/2025 7:44:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3787-01	MW-15B-42.5-120425	Water	VOCMS Group3	8260-Low	12/04/25		12/08/25	12/04/25
Q3787-07	OWBR-02-170-120425	Water	VOCMS Group3	8260-Low	12/04/25		12/08/25	12/04/25
Q3787-07RE	OWBR-02-170-120425RE	Water	VOCMS Group3	8260-Low	12/04/25		12/10/25	12/04/25
Q3787-09	OWBR-02-170-120425-FD	Water	VOCMS Group3	8260-Low	12/04/25		12/08/25	12/04/25
Q3787-09RE	OWBR-02-170-120425-FDRE	Water	VOCMS Group3	8260-Low	12/04/25		12/10/25	12/04/25
Q3787-11	OW-03B-51.5-120425	Water	VOCMS Group3	8260-Low	12/04/25		12/08/25	12/04/25
Q3787-11RE	OW-03B-51.5-120425RE	Water	VOCMS Group3	8260-Low	12/04/25		12/10/25	12/04/25
Q3787-13	OW-03B-51.5-120425-FD	Water	VOCMS Group3	8260-Low	12/04/25		12/08/25	12/04/25
Q3787-13RE	OW-03B-51.5-120425-FDRE	Water	VOCMS Group3	8260-Low	12/04/25		12/10/25	12/04/25
Q3787-15	OW-08B-72.5-120425	Water			12/04/25			12/04/25

LAB CHRONICLE

			VOCMS Group3	8260-Low	12/08/25	
Q3787-17	OW-08B-72.5-120425	Water			12/04/25	12/04/25
	-FD					
			VOCMS Group3	8260-Low	12/08/25	
Q3787-17RE	OW-08B-72.5-120425	Water			12/04/25	12/04/25
	-FDRE					
			VOCMS Group3	8260-Low	12/10/25	
Q3787-19	OW-02B-21.2-120425	Water			12/04/25	12/04/25
			VOCMS Group3	8260-Low	12/10/25	
Q3787-21	TB01-120425	Water			12/04/25	12/04/25
			VOCMS Group3	8260-Low	12/10/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q3787

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-15B-42.5-120425							
Q3787-01	MW-15B-42.5-1204	Water	Vinyl Chloride	1.30		0.26	1.00	ug/L
Q3787-01	MW-15B-42.5-1204	Water	cis-1,2-Dichloroethene	3.30		0.19	1.00	ug/L
Q3787-01	MW-15B-42.5-1204	Water	Trichloroethene	6.20		0.090	1.00	ug/L
			Total Voc :		10.8			
			Total Concentration:		10.8			



QC SUMMARY

Surrogate Summary

SDG No.: **Q3787**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3787-01	MW-15B-42.5-120425	1,2-Dichloroethane-d4	50	54.2	108		70 (74)	130 (125)
		Dibromofluoromethane	50	55.0	110		70 (75)	130 (124)
		Toluene-d8	50	55.3	111		70 (86)	130 (113)
		4-Bromofluorobenzene	50	58.9	118		70 (77)	130 (121)
Q3787-02MS	MW-15B-42.5-120425-MS	1,2-Dichloroethane-d4	50	58.5	117		70 (74)	130 (125)
		Dibromofluoromethane	50	48.6	97		70 (75)	130 (124)
		Toluene-d8	50	46.5	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102		70 (77)	130 (121)
Q3787-03MSD	MW-15B-42.5-120425-MSD	1,2-Dichloroethane-d4	50	53.3	106		70 (74)	130 (125)
		Dibromofluoromethane	50	44.0	88		70 (75)	130 (124)
		Toluene-d8	50	43.3	86		70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.5	89		70 (77)	130 (121)
Q3787-07	OWBR-02-170-120425	1,2-Dichloroethane-d4	50	46.0	92		70 (74)	130 (125)
		Dibromofluoromethane	50	70.9	142	*	70 (75)	130 (124)
		Toluene-d8	50	48.9	98		70 (86)	130 (113)
		4-Bromofluorobenzene	50	92.8	186	*	70 (77)	130 (121)
Q3787-07RE	OWBR-02-170-120425RE	1,2-Dichloroethane-d4	50	60.1	120		70 (74)	130 (125)
		Dibromofluoromethane	50	47.7	95		70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	62.6	125		70 (77)	130 (121)
Q3787-09	OWBR-02-170-120425-FD	1,2-Dichloroethane-d4	50	71.0	142	*	70 (74)	130 (125)
		Dibromofluoromethane	50	67.0	134	*	70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	85.6	171	*	70 (77)	130 (121)
Q3787-09RE	OWBR-02-170-120425-FDRE	1,2-Dichloroethane-d4	50	59.5	119		70 (74)	130 (125)
		Dibromofluoromethane	50	47.5	95		70 (75)	130 (124)
		Toluene-d8	50	47.5	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	61.2	122		70 (77)	130 (121)
Q3787-11	OW-03B-51.5-120425	1,2-Dichloroethane-d4	50	64.1	128		70 (74)	130 (125)
		Dibromofluoromethane	50	48.6	97		70 (75)	130 (124)
		Toluene-d8	50	47.5	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	38.6	77		70 (77)	130 (121)
Q3787-11RE	OW-03B-51.5-120425RE	1,2-Dichloroethane-d4	50	57.4	115		70 (74)	130 (125)
		Dibromofluoromethane	50	47.9	96		70 (75)	130 (124)
		Toluene-d8	50	47.4	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	61.0	122		70 (77)	130 (121)
Q3787-13	OW-03B-51.5-120425-FD	1,2-Dichloroethane-d4	50	70.1	140	*	70 (74)	130 (125)
		Dibromofluoromethane	50	62.4	125		70 (75)	130 (124)
		Toluene-d8	50	48.3	97		70 (86)	130 (113)
		4-Bromofluorobenzene	50	77.6	155	*	70 (77)	130 (121)
Q3787-13RE	OW-03B-51.5-120425-FDRE	1,2-Dichloroethane-d4	50	61.6	123		70 (74)	130 (125)
		Dibromofluoromethane	50	48.8	98		70 (75)	130 (124)
		Toluene-d8	50	48.6	97		70 (86)	130 (113)
		4-Bromofluorobenzene	50	62.6	125		70 (77)	130 (121)
Q3787-15	OW-08B-72.5-120425	1,2-Dichloroethane-d4	50	47.1	94		70 (74)	130 (125)
		Dibromofluoromethane	50	59.8	120		70 (75)	130 (124)
		Toluene-d8	50	48.0	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	59.0	118		70 (77)	130 (121)
Q3787-17	OW-08B-72.5-120425-FD	1,2-Dichloroethane-d4	50	60.6	121		70 (74)	130 (125)
		Dibromofluoromethane	50	68.2	136	*	70 (75)	130 (124)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SDG No.: Q3787

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3787-17	OW-08B-72.5-120425-FD	Toluene-d8	50	47.5	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	59.0	118		70 (77)	130 (121)
Q3787-17RE	OW-08B-72.5-120425-FDRE	1,2-Dichloroethane-d4	50	58.6	117		70 (74)	130 (125)
		Dibromofluoromethane	50	47.5	95		70 (75)	130 (124)
		Toluene-d8	50	47.0	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	61.4	123		70 (77)	130 (121)
Q3787-19	OW-02B-21.2-120425	1,2-Dichloroethane-d4	50	53.7	107		70 (74)	130 (125)
		Dibromofluoromethane	50	47.0	94		70 (75)	130 (124)
		Toluene-d8	50	46.8	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	60.7	121		70 (77)	130 (121)
Q3787-21	TB01-120425	1,2-Dichloroethane-d4	50	55.8	112		70 (74)	130 (125)
		Dibromofluoromethane	50	46.7	93		70 (75)	130 (124)
		Toluene-d8	50	46.2	92		70 (86)	130 (113)
		4-Bromofluorobenzene	50	59.2	118		70 (77)	130 (121)
VX1208WBL01	VX1208WBL01	1,2-Dichloroethane-d4	50	49.5	99		70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92		70 (75)	130 (124)
		Toluene-d8	50	45.2	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.8	112		70 (77)	130 (121)
VX1208WBS01	VX1208WBS01	1,2-Dichloroethane-d4	50	56.7	113		70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101		70 (75)	130 (124)
		Toluene-d8	50	50.6	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	58.8	118		70 (77)	130 (121)
VX1210WBL01	VX1210WBL01	1,2-Dichloroethane-d4	50	51.4	103		70 (74)	130 (125)
		Dibromofluoromethane	50	45.2	90		70 (75)	130 (124)
		Toluene-d8	50	46.7	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.2	114		70 (77)	130 (121)
VX1210WBS01	VX1210WBS01	1,2-Dichloroethane-d4	50	54.9	110		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	49.2	98		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.7	107		70 (77)	130 (121)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3787

Analytical Method: SW8260-Low

Client: JACOBS Engineering Group, Inc

Datafile : VX048764.D

											Limits		
Parameter	Spike	Sample	Result	Units	Rec			RPD	Qual	Low	High	RPD	
		Result			Rec	Qual	RPD						
Lab Sample ID :	Q3787-02MS	Client Sample ID :	MW-15B-42.5-120425-MS										
Vinyl chloride	50	1.30	51.8	ug/L	101					70 (69)	130 (125)		
1,1-Dichloroethene	50	0	49.2	ug/L	98					70 (80)	130 (124)		
1,1-Dichloroethane	50	0	58.8	ug/L	118					70 (78)	130 (122)		
cis-1,2-Dichloroethene	50	3.30	59.1	ug/L	112					70 (55)	130 (150)		
1,1,1-Trichloroethane	50	0	51.6	ug/L	103					70 (83)	130 (117)		
Benzene	50	0	49.9	ug/L	100					70 (81)	130 (128)		
1,2-Dichloroethane	50	0	52.7	ug/L	105					70 (76)	130 (120)		
Trichloroethene	50	6.20	52.5	ug/L	93					70 (44)	130 (168)		
1,1,2-Trichloroethane	50	0	51.4	ug/L	103					70 (73)	130 (136)		
Tetrachloroethene	50	0	38.7	ug/L	77					70 (63)	130 (122)		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3787

Analytical Method: SW8260-Low

Client: JACOBS Engineering Group, Inc

Datafile : VX048765.D

Parameter	Spike	Sample	Result	Units	Rec		RPD	Limits			
		Result			Qual	RPD	Qual	Low	High	RPD	
Lab Sample ID :	Q3787-03MSD	Client Sample ID :	MW-15B-42.5-120425-MSD								
Vinyl chloride	50	1.30	50.9	ug/L	99		2		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	49.7	ug/L	99		1		70 (80)	130 (124)	20 (20)
1,1-Dichloroethane	50	0	60.4	ug/L	121		3		70 (78)	130 (122)	20 (20)
cis-1,2-Dichloroethene	50	3.30	60.7	ug/L	115		3		70 (55)	130 (150)	20 (20)
1,1,1-Trichloroethane	50	0	53.2	ug/L	106		3		70 (83)	130 (117)	20 (20)
Benzene	50	0	50.1	ug/L	100		0		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	55.2	ug/L	110		5		70 (76)	130 (120)	20 (20)
Trichloroethene	50	6.20	52.7	ug/L	93		0		70 (44)	130 (168)	20 (20)
1,1,2-Trichloroethane	50	0	51.4	ug/L	103		0		70 (73)	130 (136)	20 (20)
Tetrachloroethene	50	0	39.5	ug/L	79		2		70 (63)	130 (122)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3787</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX048745.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1208WBS01	Vinyl chloride	20	19.8	ug/L	99			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.2	ug/L	96			70 (74)	130 (110)	
	1,1-Dichloroethane	20	20.8	ug/L	104			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.1	ug/L	101			70 (80)	130 (108)	
	Benzene	20	18.8	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.7	ug/L	109			70 (83)	130 (112)	
	Tetrachloroethene	20	16.5	ug/L	83			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3787</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX048799.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1210WBS01	Vinyl chloride	20	16.7	ug/L	84			70 (65)	130 (117)	
	1,1-Dichloroethene	20	16.9	ug/L	85			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.8	ug/L	99			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.7	ug/L	99			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	18.2	ug/L	91			70 (80)	130 (108)	
	Benzene	20	18.6	ug/L	93			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.9	ug/L	95			70 (80)	130 (115)	
	Trichloroethene	20	17.9	ug/L	90			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			70 (83)	130 (112)	
	Tetrachloroethene	20	16.3	ug/L	81			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VX1208WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3787

Lab File ID: VX048744.D

Lab Sample ID: VX1208WBL01

Date Analyzed: 12/08/2025

Time Analyzed: 11:15

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
VX1208WBS01	VX1208WBS01	VX048745.D	12/08/2025
MW-15B-42.5-120425	Q3787-01	VX048749.D	12/08/2025
OWBR-02-170-120425	Q3787-07	VX048752.D	12/08/2025
OWBR-02-170-120425-FD	Q3787-09	VX048753.D	12/08/2025
OW-03B-51.5-120425	Q3787-11	VX048754.D	12/08/2025
OW-03B-51.5-120425-FD	Q3787-13	VX048755.D	12/08/2025
OW-08B-72.5-120425	Q3787-15	VX048756.D	12/08/2025
OW-08B-72.5-120425-FD	Q3787-17	VX048757.D	12/08/2025
MW-15B-42.5-120425-MS	Q3787-02MS	VX048764.D	12/08/2025
MW-15B-42.5-120425-MSD	Q3787-03MSD	VX048765.D	12/08/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VX1210WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3787

Lab File ID: VX048797.D

Lab Sample ID: VX1210WBL01

Date Analyzed: 12/10/2025

Time Analyzed: 10:10

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
VX1210WBS01	VX1210WBS01	VX048799.D	12/10/2025
OWBR-02-170-120425RE	Q3787-07RE	VX048807.D	12/10/2025
OWBR-02-170-120425-FDRE	Q3787-09RE	VX048808.D	12/10/2025
OW-03B-51.5-120425RE	Q3787-11RE	VX048809.D	12/10/2025
OW-03B-51.5-120425-FDRE	Q3787-13RE	VX048810.D	12/10/2025
OW-08B-72.5-120425-FDRE	Q3787-17RE	VX048811.D	12/10/2025
OW-02B-21.2-120425	Q3787-19	VX048812.D	12/10/2025
TB01-120425	Q3787-21	VX048813.D	12/10/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3787

Lab File ID: VX048713.D

BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:15

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	19.6
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	76.2
175	5.0 - 9.0% of mass 174	5.9 (7.8) 1
176	95.0 - 101.0% of mass 174	74.4 (97.7) 1
177	5.0 - 9.0% of mass 176	4.9 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX048714.D	12/04/2025	08:47
VSTDIC005	VSTDIC005	VX048715.D	12/04/2025	09:16
VSTDIC020	VSTDIC020	VX048716.D	12/04/2025	09:36
VSTDIC050	VSTDIC050	VX048717.D	12/04/2025	09:57
VSTDIC100	VSTDIC100	VX048718.D	12/04/2025	10:17
VSTDIC150	VSTDIC150	VX048719.D	12/04/2025	10:38



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3787

Lab File ID: VX048741.D

BFB Injection Date: 12/08/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:17

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	19.5
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	80.1
175	5.0 - 9.0% of mass 174	6 (7.5) 1
176	95.0 - 101.0% of mass 174	76.4 (95.3) 1
177	5.0 - 9.0% of mass 176	5.3 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048742.D	12/08/2025	09:20
VX1208WBL01	VX1208WBL01	VX048744.D	12/08/2025	11:15
VX1208WBS01	VX1208WBS01	VX048745.D	12/08/2025	11:44
MW-15B-42.5-120425	Q3787-01	VX048749.D	12/08/2025	13:14
OWBR-02-170-120425	Q3787-07	VX048752.D	12/08/2025	14:16
OWBR-02-170-120425-FD	Q3787-09	VX048753.D	12/08/2025	14:36
OW-03B-51.5-120425	Q3787-11	VX048754.D	12/08/2025	14:57
OW-03B-51.5-120425-FD	Q3787-13	VX048755.D	12/08/2025	15:18
OW-08B-72.5-120425	Q3787-15	VX048756.D	12/08/2025	15:38
OW-08B-72.5-120425-FD	Q3787-17	VX048757.D	12/08/2025	15:59
MW-15B-42.5-120425-MS	Q3787-02MS	VX048764.D	12/08/2025	18:22
MW-15B-42.5-120425-MSD	Q3787-03MSD	VX048765.D	12/08/2025	18:43



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VX048795.D
Instrument ID: MSVOA_X
GC Column: DB-624UI ID: 0.18 (mm)

Contract: JACO05
SDG NO.: Q3787
BFB Injection Date: 12/10/2025
BFB Injection Time: 09:13
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	75.3 (97.1) 1
177	5.0 - 9.0% of mass 176	5 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048796.D	12/10/2025	09:40
VX1210WBL01	VX1210WBL01	VX048797.D	12/10/2025	10:10
VX1210WBS01	VX1210WBS01	VX048799.D	12/10/2025	10:58
OWBR-02-170-120425RE	Q3787-07RE	VX048807.D	12/10/2025	13:49
OWBR-02-170-120425-FDRE	Q3787-09RE	VX048808.D	12/10/2025	14:10
OW-03B-51.5-120425RE	Q3787-11RE	VX048809.D	12/10/2025	14:30
OW-03B-51.5-120425-FDRE	Q3787-13RE	VX048810.D	12/10/2025	14:51
OW-08B-72.5-120425-FDRE	Q3787-17RE	VX048811.D	12/10/2025	15:11
OW-02B-21.2-120425	Q3787-19	VX048812.D	12/10/2025	15:32
TB01-120425	Q3787-21	VX048813.D	12/10/2025	15:53

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
Lab Code: ACE SDG NO.: Q3787
Lab File ID: VX048742.D Date Analyzed: 12/08/2025
Instrument ID: MSVOA_X Time Analyzed: 09:20
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	174813	5.53	271670	6.74	259893	10.04
UPPER LIMIT	349626	6.031	543340	7.239	519786	10.537
LOWER LIMIT	87406.5	5.031	135835	6.239	129947	9.537
EPA SAMPLE NO.						
MW-15B-42.5-120425	120816	5.54	219416	6.75	321746	10.04
MW-15B-42.5-120425-MS	149218	5.54	267773	6.75	245391	10.04
MW-15B-42.5-120425-MSD	132053	5.54	236459	6.75	210246	10.04
OWBR-02-170-120425	152251	5.54	235496	6.75	353865	10.04
OWBR-02-170-120425-FD	129874	5.54	212277	6.74	232388	10.04
OW-03B-51.5-120425	160355	5.54	343808	6.75	352510	10.04
OW-03B-51.5-120425-FD	121788	5.54	204088	6.75	259488	10.04
OW-08B-72.5-120425	124545	5.54	210799	6.75	312315	10.04
OW-08B-72.5-120425-FD	127845	5.54	199202	6.75	216738	10.04
VX1208WBL01	173343	5.53	340953	6.74	370451	10.04
VX1208WBS01	178446	5.53	298973	6.74	311271	10.04

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3787</u>
Lab File ID:	<u>VX048742.D</u>	Date Analyzed:	<u>12/08/2025</u>
Instrument ID:	<u>MSVOA_X</u>	Time Analyzed:	<u>09:20</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	132353	12				
UPPER LIMIT	264706	12.5				
LOWER LIMIT	66176.5	11.5				
EPA SAMPLE NO.						
MW-15B-42.5-120425	129079	12.01				
MW-15B-42.5-120425-MS	125815	12.01				
MW-15B-42.5-120425-MSD	103730	12.01				
OWBR-02-170-120425	191518	12.01				
OWBR-02-170-120425-FD	176527	12.01				
OW-03B-51.5-120425	128068	12.01				
OW-03B-51.5-120425-FD	118375	12.01				
OW-08B-72.5-120425	119855	12.01				
OW-08B-72.5-120425-FD	171945	12.01				
VX1208WBL01	179749	12.01				
VX1208WBS01	157846	12.00				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q3787
 Lab File ID: VX048796.D Date Analyzed: 12/10/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:40
 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	164636	5.53	275167	6.74	243543	10.04
UPPER LIMIT	329272	6.031	550334	7.238	487086	10.537
LOWER LIMIT	82318	5.031	137584	6.238	121772	9.537
EPA SAMPLE NO.						
OWBR-02-170-120425RE	160525	5.54	337243	6.75	371573	10.04
OWBR-02-170-120425-FDRE	150728	5.54	313869	6.75	341495	10.04
OW-03B-51.5-120425RE	142606	5.54	299203	6.75	326420	10.04
OW-03B-51.5-120425-FDRE	152091	5.54	320261	6.75	354570	10.04
OW-08B-72.5-120425-FDRE	154804	5.54	318388	6.75	343017	10.04
OW-02B-21.2-120425	138008	5.54	284336	6.75	306079	10.04
TB01-120425	137750	5.54	283821	6.75	308054	10.04
VX1210WBL01	143182	5.53	288257	6.74	306883	10.04
VX1210WBS01	153473	5.53	261026	6.74	236663	10.04

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q3787
 Lab File ID: VX048796.D Date Analyzed: 12/10/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:40
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	117430	12				
UPPER LIMIT	234860	12.5				
LOWER LIMIT	58715	11.5				
EPA SAMPLE NO.						
OWBR-02-170-120425RE	199241	12.01				
OWBR-02-170-120425-FDRE	184829	12.01				
OW-03B-51.5-120425RE	172615	12.01				
OW-03B-51.5-120425-FDRE	184719	12.01				
OW-08B-72.5-120425-FDRE	186375	12.01				
OW-02B-21.2-120425	165546	12.01				
TB01-120425	167960	12.01				
VX1210WBL01	162084	12.00				
VX1210WBS01	123629	12.01				

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



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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: MW-15B-42.5-120425
Lab Sample ID: Q3787-01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	1.30		1	0.26	1.00	ug/L	12/08/25 13:14	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 13:14	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 13:14	VX120825
156-59-2	cis-1,2-Dichloroethene	3.30		1	0.19	1.00	ug/L	12/08/25 13:14	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 13:14	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 13:14	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 13:14	VX120825
79-01-6	Trichloroethene	6.20		1	0.090	1.00	ug/L	12/08/25 13:14	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 13:14	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 13:14	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.2			70 (74) - 130 (125)	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.0			70 (75) - 130 (124)	110%	SPK: 50		
2037-26-5	Toluene-d8	55.3			70 (86) - 130 (113)	111%	SPK: 50		
460-00-4	4-Bromofluorobenzene	58.9			70 (77) - 130 (121)	118%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	121000							
540-36-3	1,4-Difluorobenzene	219000							
3114-55-4	Chlorobenzene-d5	322000							
3855-82-1	1,4-Dichlorobenzene-d4	129000							

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\VX120825\
 Data File : VX048749.D
 Acq On : 08 Dec 2025 13:14
 Operator : JC/MD
 Sample : Q3787-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15B-42.5-120425

Quant Time: Dec 09 04:09:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

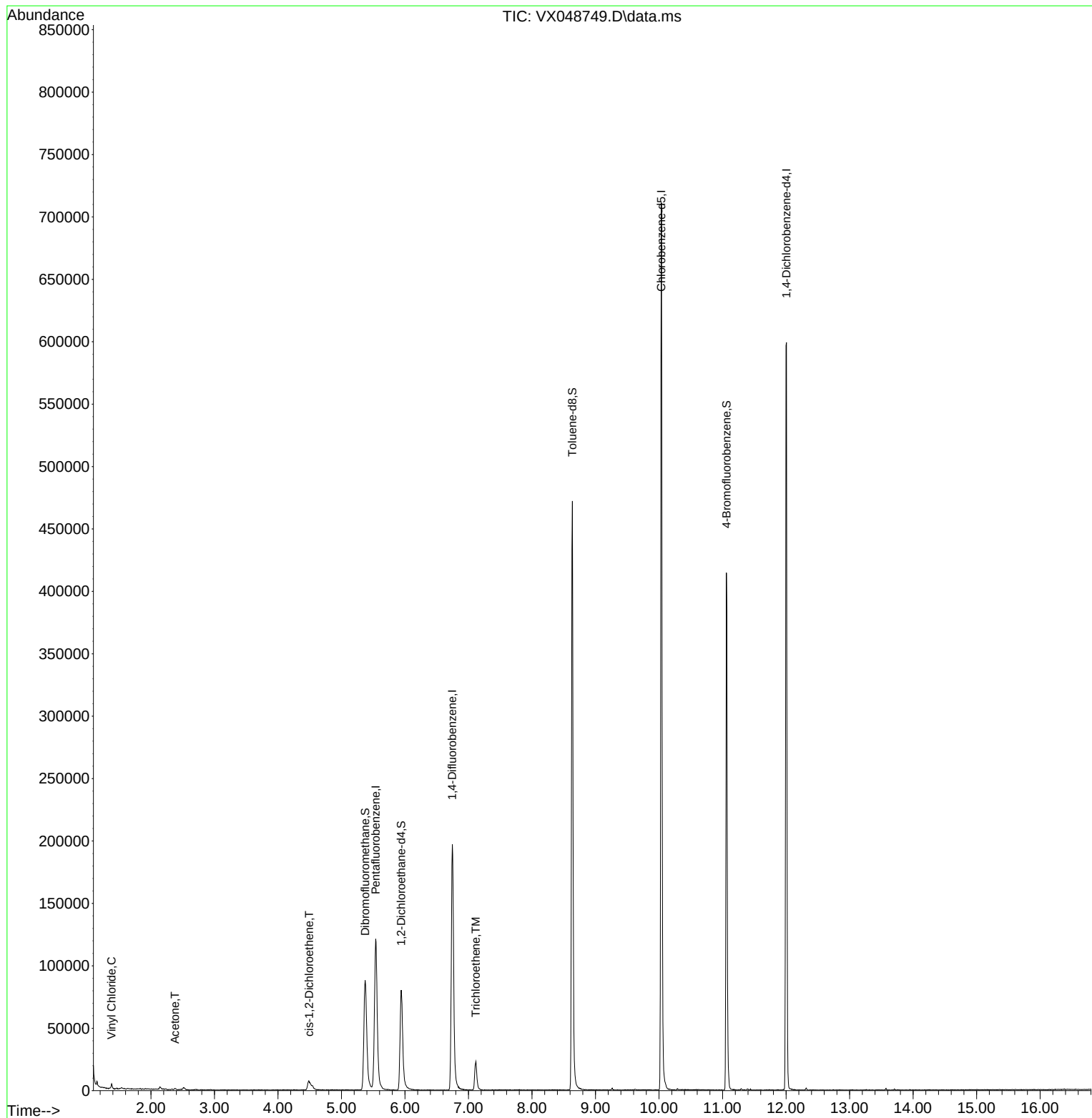
Internal Standards						
1) Pentafluorobenzene	5.537	168	120816	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	219416	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	321746	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129079	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	87950	54.237	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	108.480%
35) Dibromofluoromethane	5.373	113	83126	55.022	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.040%
50) Toluene-d8	8.634	98	292656	55.263	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	110.520%
62) 4-Bromofluorobenzene	11.061	95	107576	58.909	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	117.820%
Target Compounds						Qvalue
4) Vinyl Chloride	1.380	62	2144	1.296	ug/l	94
16) Acetone	2.379	43	1674	2.697	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	5339	3.304	ug/l	96
44) Trichloroethene	7.116	130	9908	6.190	ug/l	94

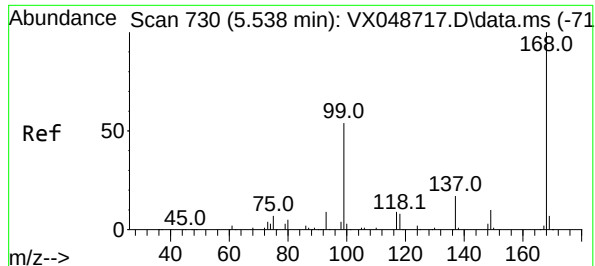
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048749.D
Acq On : 08 Dec 2025 13:14
Operator : JC/MD
Sample : Q3787-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425

Quant Time: Dec 09 04:09:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

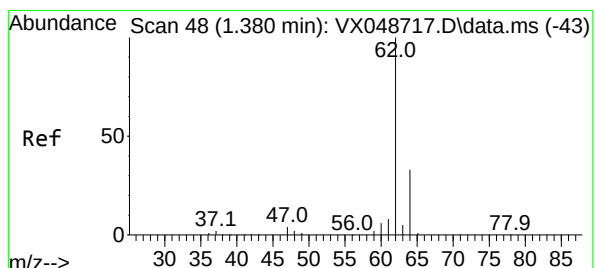
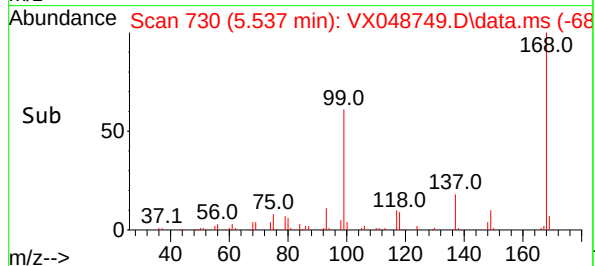
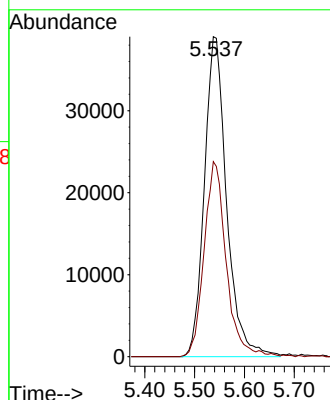
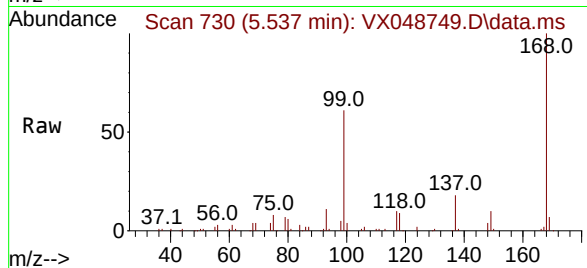




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

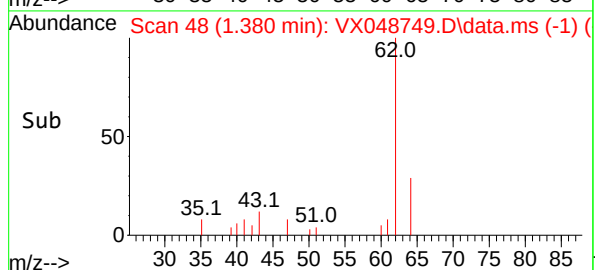
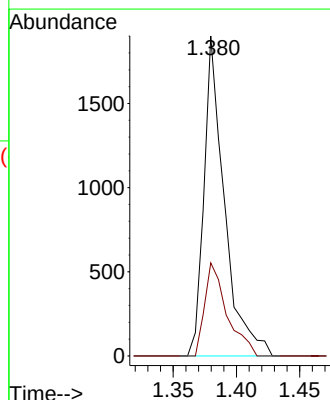
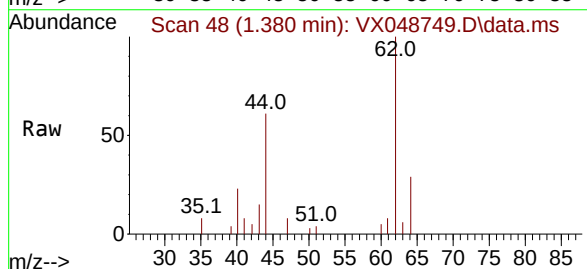
Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425

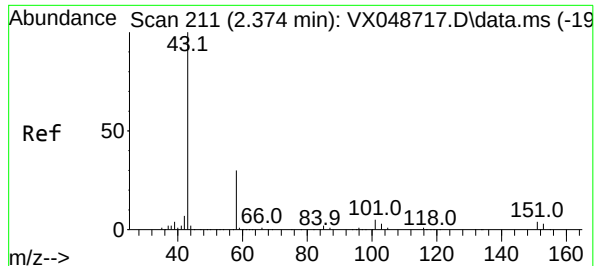
Tgt Ion:168 Resp: 120816
Ion Ratio Lower Upper
168 100
99 61.0 44.2 66.4



#4
Vinyl Chloride
Concen: 1.296 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

Tgt Ion: 62 Resp: 2144
Ion Ratio Lower Upper
62 100
64 29.1 26.0 39.0

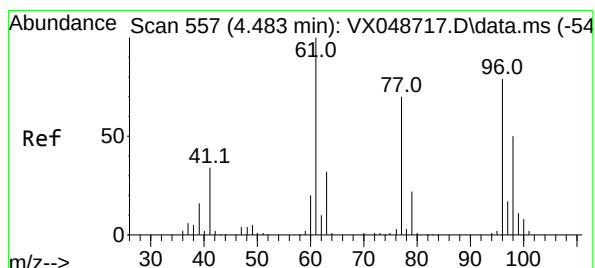
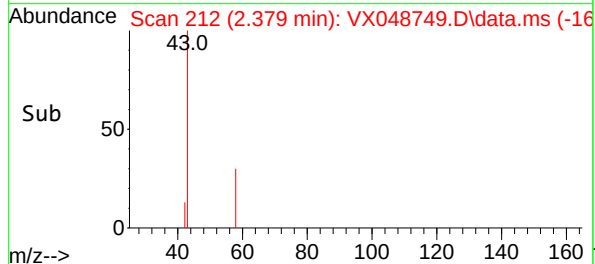
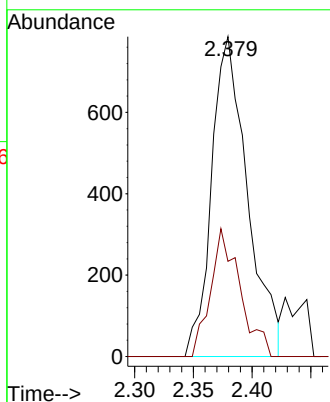
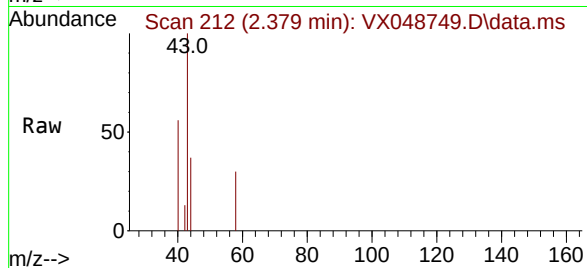




#16
Acetone
Concen: 2.697 ug/l
RT: 2.379 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

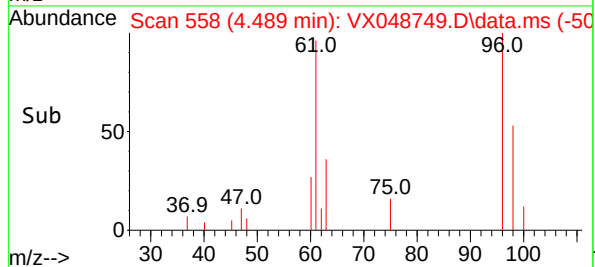
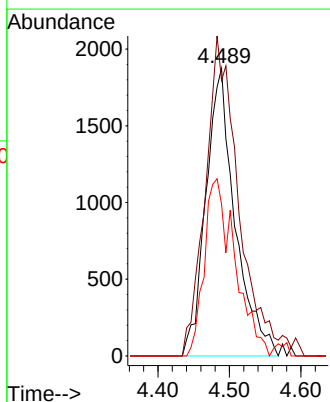
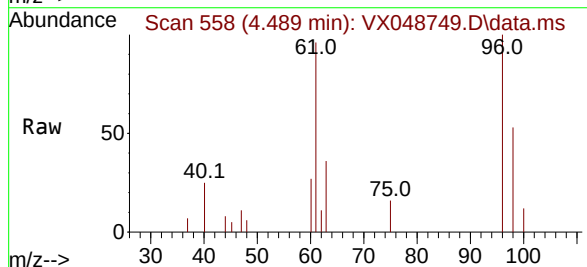
Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425

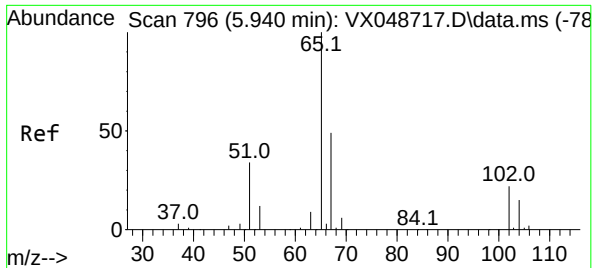
Tgt Ion: 43 Resp: 1674
Ion Ratio Lower Upper
43 100
58 29.8 25.0 37.4



#27
cis-1,2-Dichloroethene
Concen: 3.304 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

Tgt Ion: 96 Resp: 5339
Ion Ratio Lower Upper
96 100
61 128.1 0.0 271.0
98 64.4 0.0 130.2

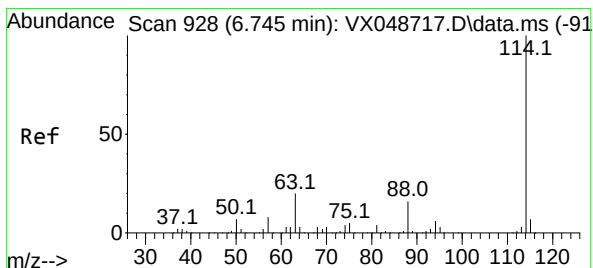
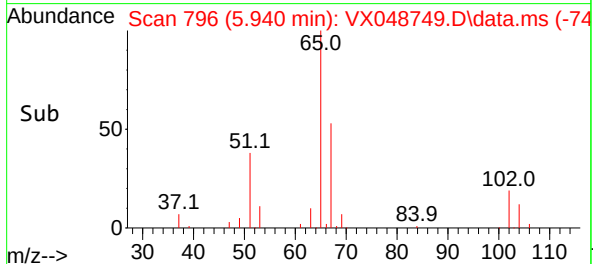
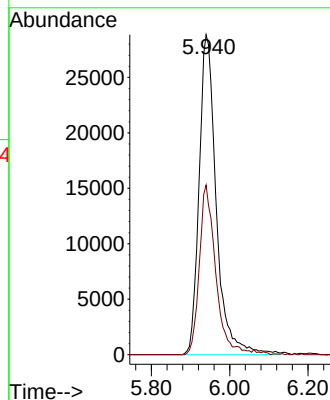
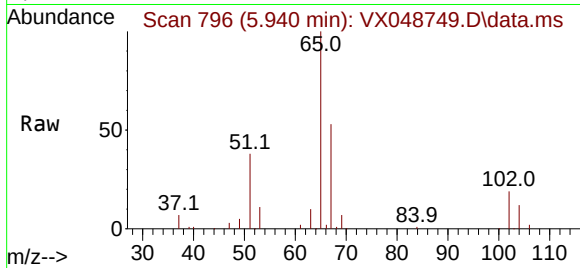




#33
1,2-Dichloroethane-d4
Concen: 54.237 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

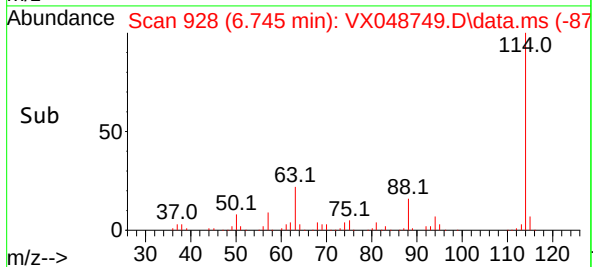
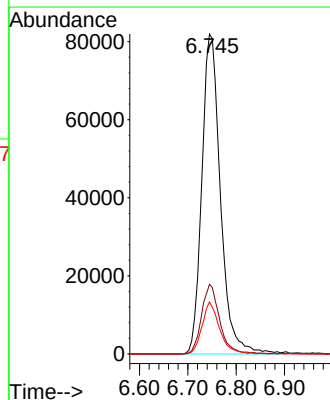
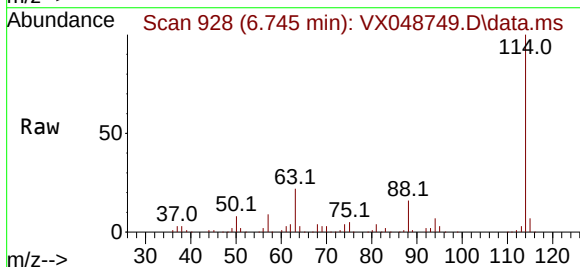
Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425

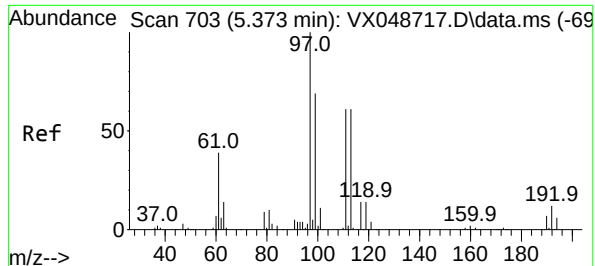
Tgt Ion: 65 Resp: 87950
Ion Ratio Lower Upper
65 100
67 50.3 0.0 107.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048749.D
Acq: 08 Dec 2025 13:14

Tgt Ion: 114 Resp: 219416
Ion Ratio Lower Upper
114 100
63 21.7 0.0 39.0
88 16.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 55.022 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048749.D

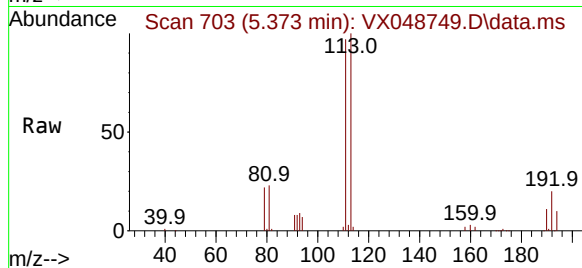
Acq: 08 Dec 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

MW-15B-42.5-120425



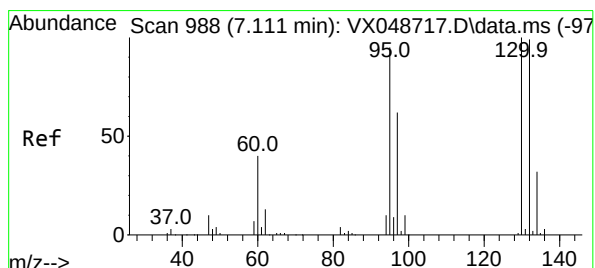
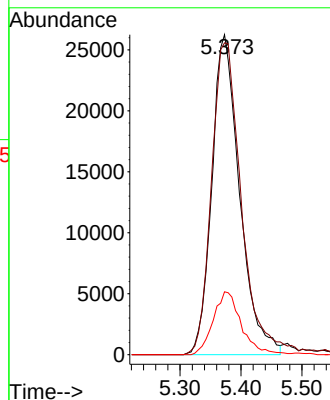
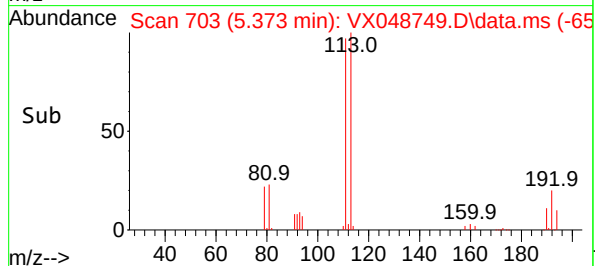
Tgt Ion:113 Resp: 83126

Ion Ratio Lower Upper

113 100

111 105.4 79.5 119.3

192 19.9 16.1 24.1



#44

Trichloroethene

Concen: 6.190 ug/l

RT: 7.116 min Scan# 989

Delta R.T. 0.006 min

Lab File: VX048749.D

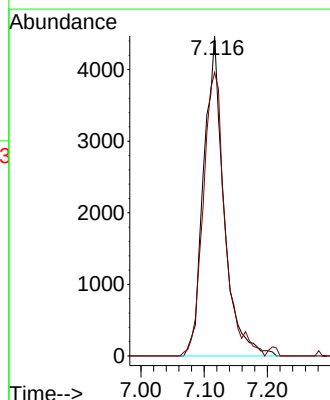
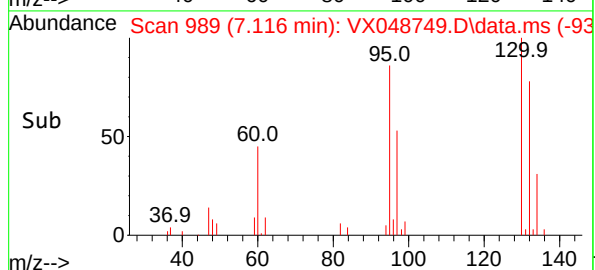
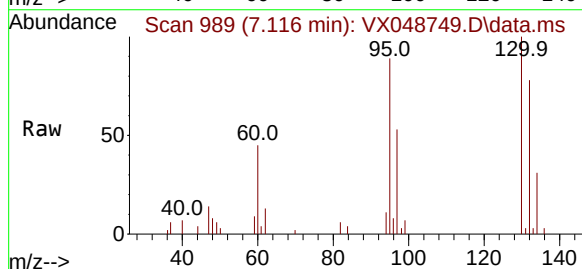
Acq: 08 Dec 2025 13:14

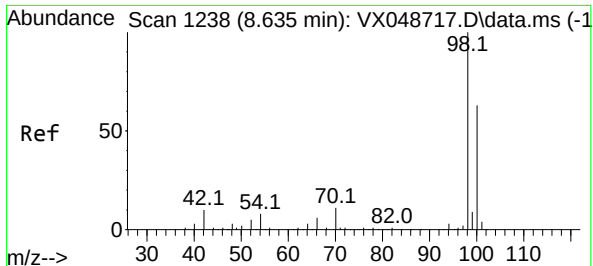
Tgt Ion:130 Resp: 9908

Ion Ratio Lower Upper

130 100

95 88.6 0.0 189.6





#50

Toluene-d8

Concen: 55.263 ug/l

RT: 8.634 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048749.D

Acq: 08 Dec 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

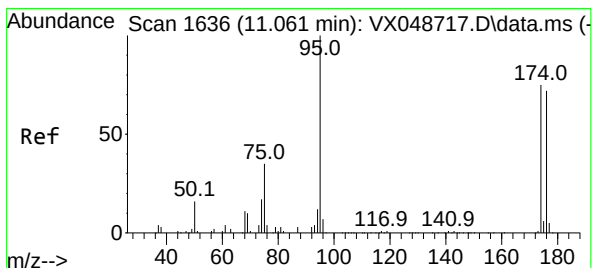
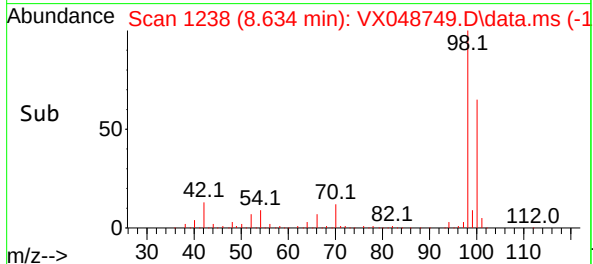
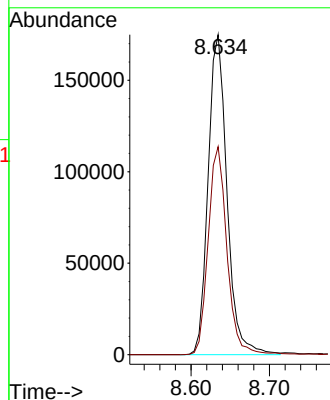
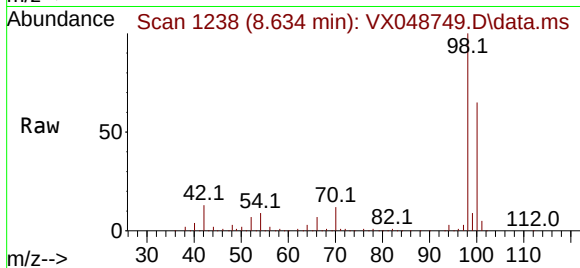
MW-15B-42.5-120425

Tgt Ion: 98 Resp: 292656

Ion Ratio Lower Upper

98 100

100 64.8 53.4 80.0



#62

4-Bromofluorobenzene

Concen: 58.909 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048749.D

Acq: 08 Dec 2025 13:14

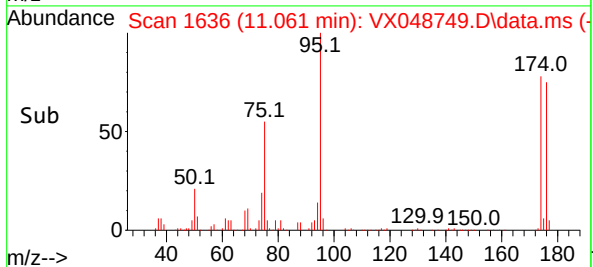
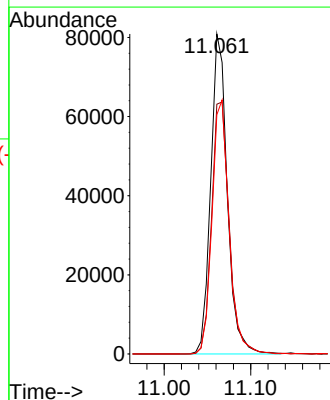
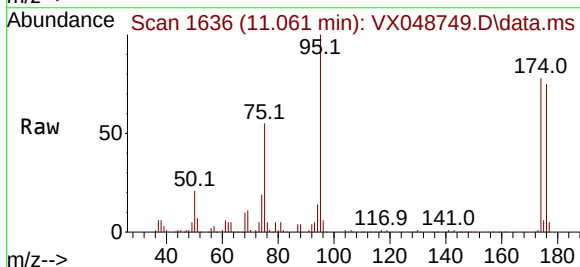
Tgt Ion: 95 Resp: 107576

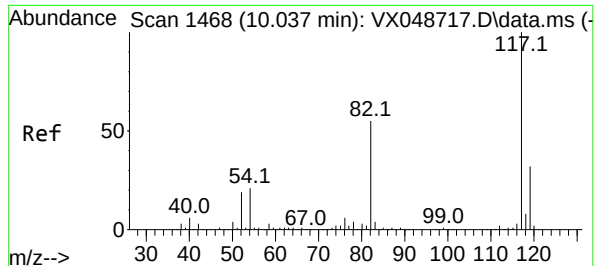
Ion Ratio Lower Upper

95 100

174 83.8 0.0 157.8

176 81.6 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048749.D

Acq: 08 Dec 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

MW-15B-42.5-120425

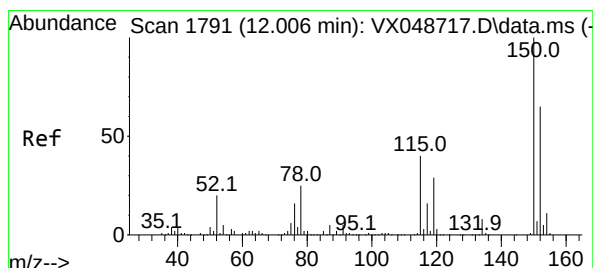
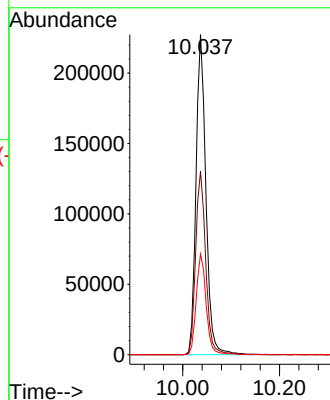
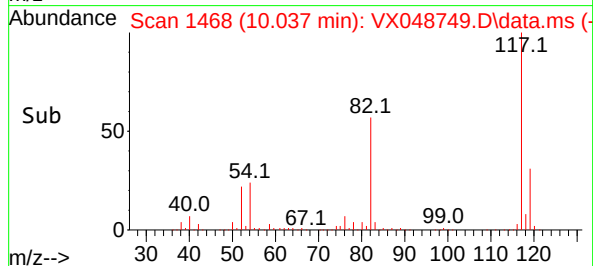
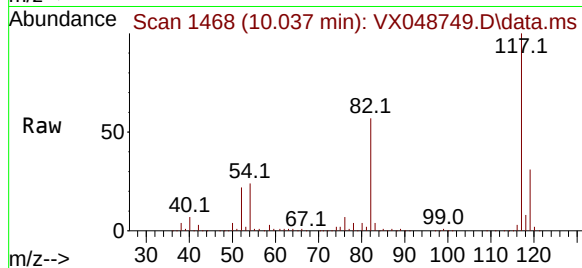
Tgt Ion:117 Resp: 321746

Ion Ratio Lower Upper

117 100

82 57.3 44.1 66.1

119 31.4 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048749.D

Acq: 08 Dec 2025 13:14

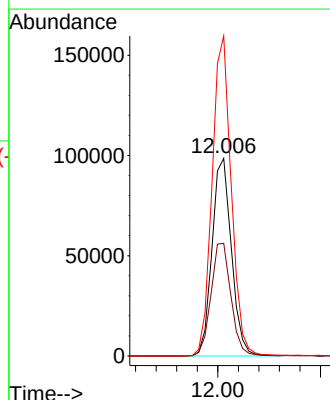
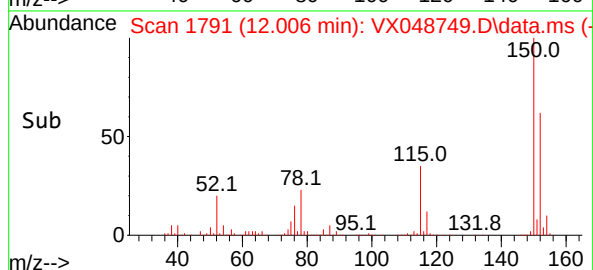
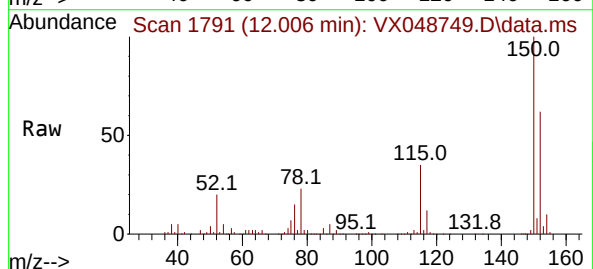
Tgt Ion:152 Resp: 129079

Ion Ratio Lower Upper

152 100

115 58.7 42.1 126.4

150 159.6 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OWBR-02-170-120425
Lab Sample ID: Q3787-07
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 14:16	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:16	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:16	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 14:16	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 14:16	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 14:16	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 14:16	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 14:16	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 14:16	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:16	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	46.0			70 (74) - 130 (125)	92%	SPK: 50		
1868-53-7	Dibromofluoromethane	70.9	*		70 (75) - 130 (124)	142%	SPK: 50		
2037-26-5	Toluene-d8	48.9			70 (86) - 130 (113)	98%	SPK: 50		
460-00-4	4-Bromofluorobenzene	92.8	*		70 (77) - 130 (121)	186%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	152000							
540-36-3	1,4-Difluorobenzene	235000							
3114-55-4	Chlorobenzene-d5	354000							
3855-82-1	1,4-Dichlorobenzene-d4	192000							

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\VX120825\
 Data File : VX048752.D
 Acq On : 08 Dec 2025 14:16
 Operator : JC/MD
 Sample : Q3787-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWBR-02-170-120425

Quant Time: Dec 09 04:10:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

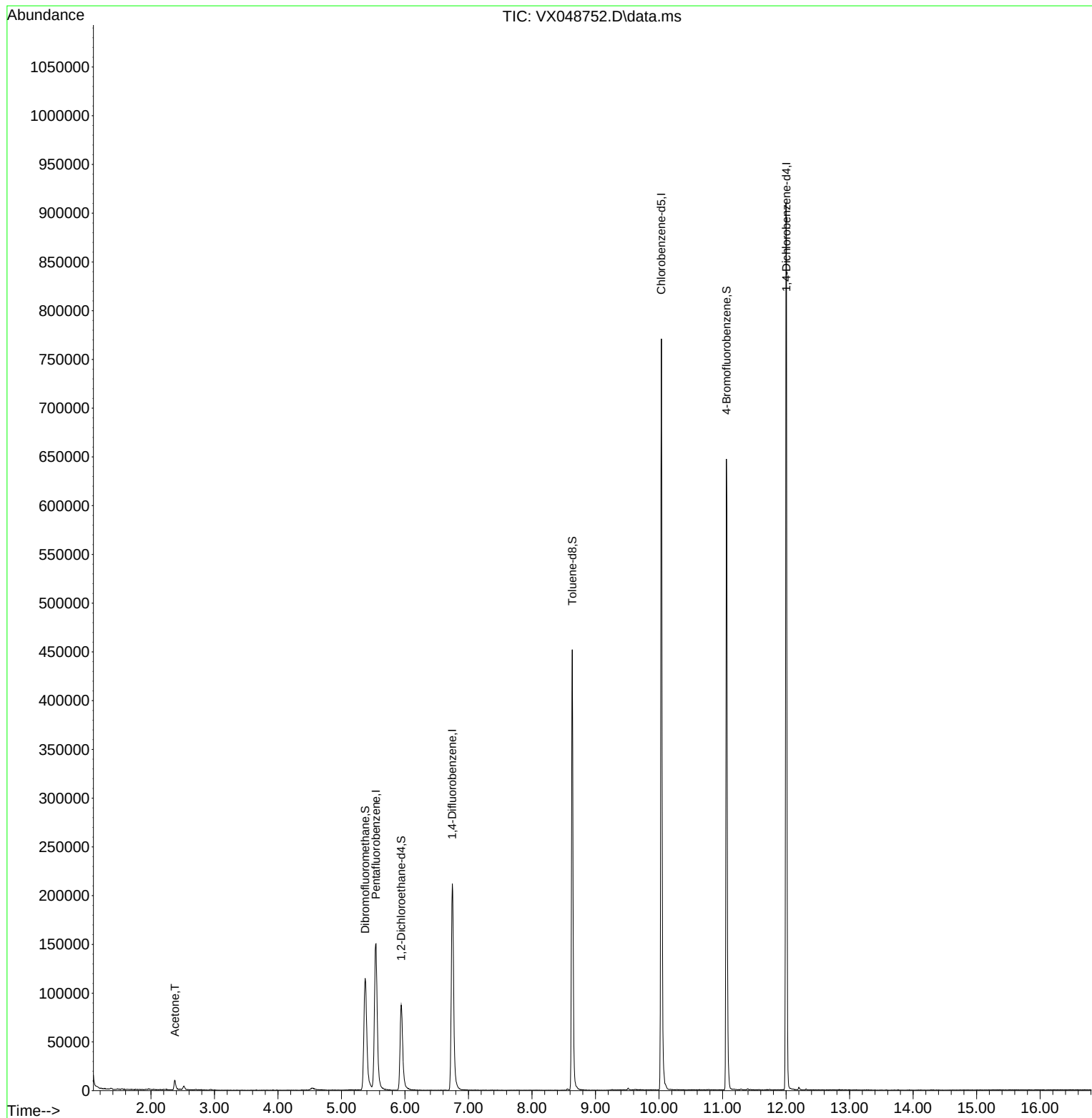
Internal Standards						
1) Pentafluorobenzene	5.544	168	152251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	235496	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	353865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	191518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	94036	46.017	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	92.040%
35) Dibromofluoromethane	5.373	113	115004	70.925	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	141.860%#
50) Toluene-d8	8.635	98	277928	48.898	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.800%
62) 4-Bromofluorobenzene	11.061	95	181933	92.825	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	185.660%#
Target Compounds						
16) Acetone	2.380	43	13237	16.921	ug/l	Qvalue 98

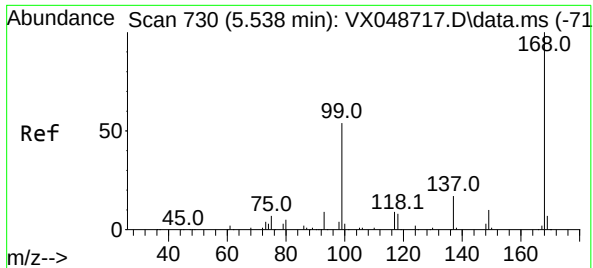
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048752.D
Acq On : 08 Dec 2025 14:16
Operator : JC/MD
Sample : Q3787-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425

Quant Time: Dec 09 04:10:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

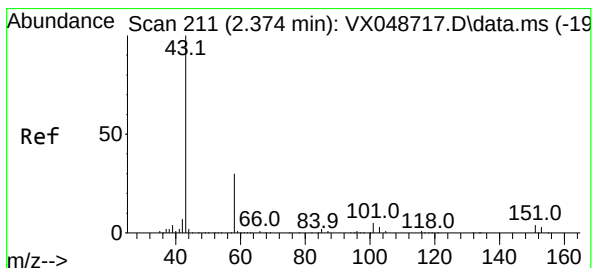
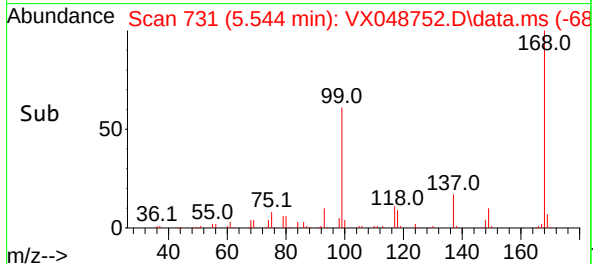
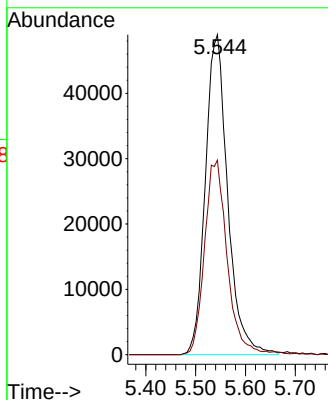
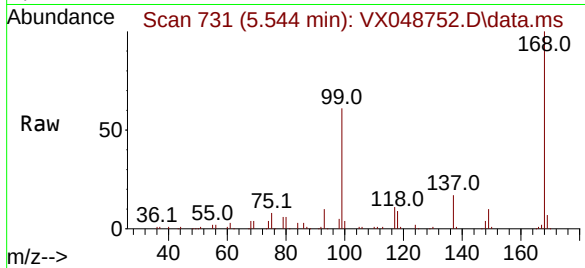




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048752.D
Acq: 08 Dec 2025 14:16

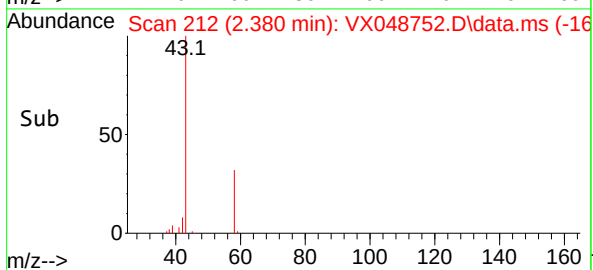
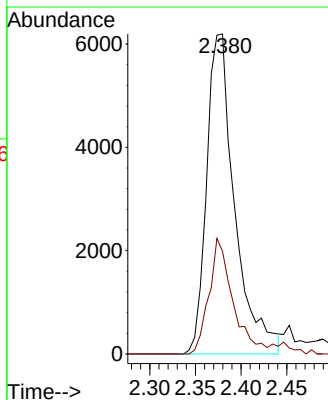
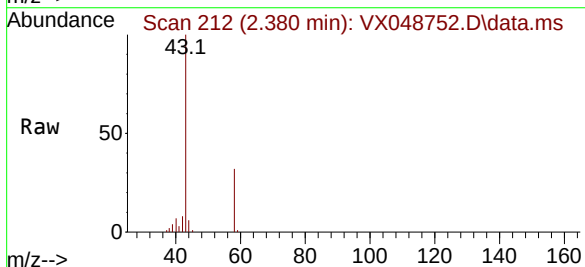
Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425

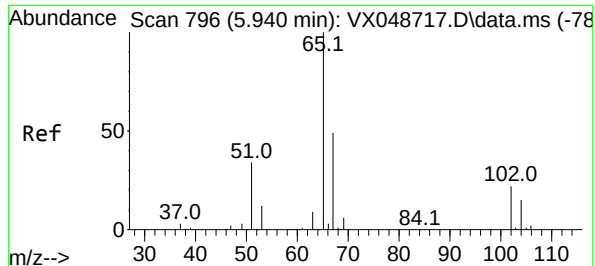
Tgt Ion:168 Resp: 152251
Ion Ratio Lower Upper
168 100
99 60.8 44.2 66.4



#16
Acetone
Concen: 16.921 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048752.D
Acq: 08 Dec 2025 14:16

Tgt Ion: 43 Resp: 13237
Ion Ratio Lower Upper
43 100
58 32.1 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 46.017 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048752.D

Acq: 08 Dec 2025 14:16

Instrument :

MSVOA_X

ClientSampleId :

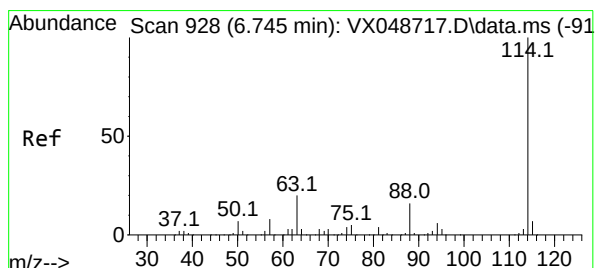
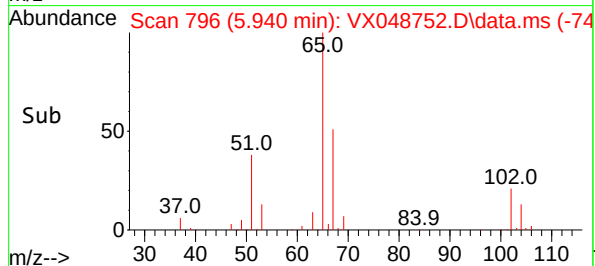
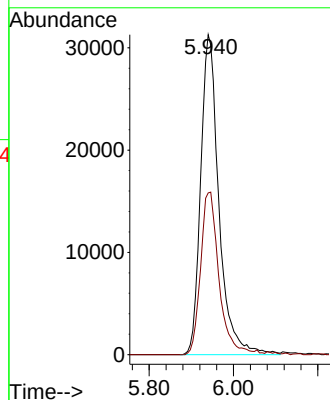
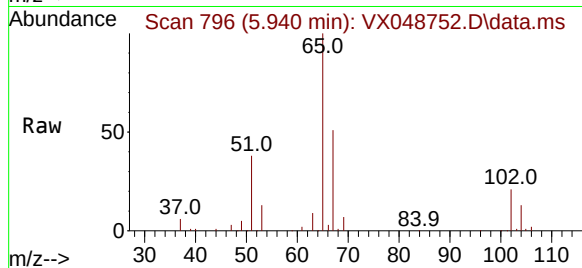
OWBR-02-170-120425

Tgt Ion: 65 Resp: 94036

Ion Ratio Lower Upper

65 100

67 51.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048752.D

Acq: 08 Dec 2025 14:16

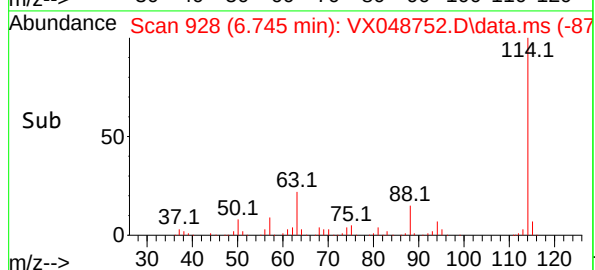
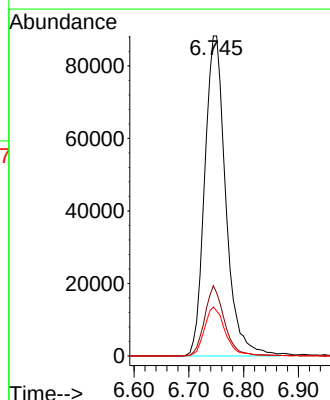
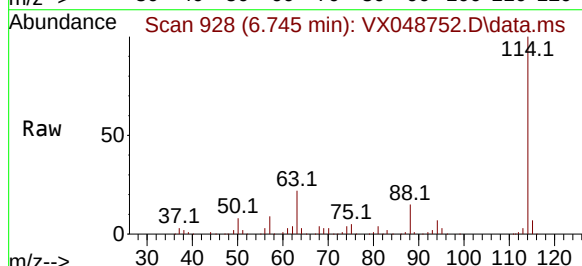
Tgt Ion: 114 Resp: 235496

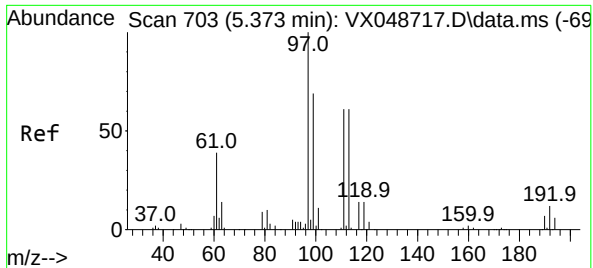
Ion Ratio Lower Upper

114 100

63 22.0 0.0 39.0

88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 70.925 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048752.D

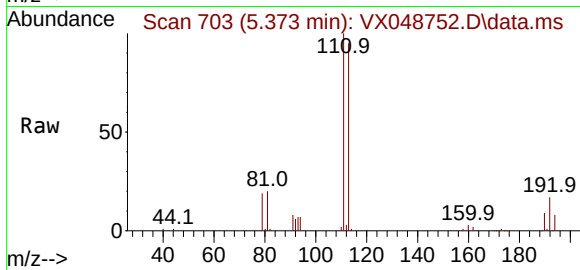
Acq: 08 Dec 2025 14:16

Instrument :

MSVOA_X

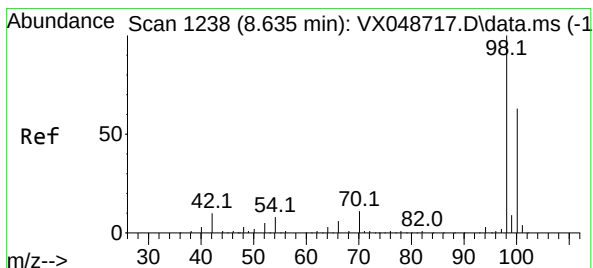
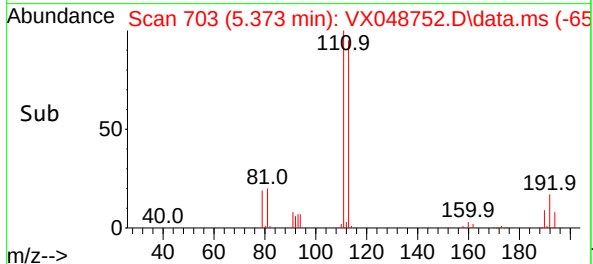
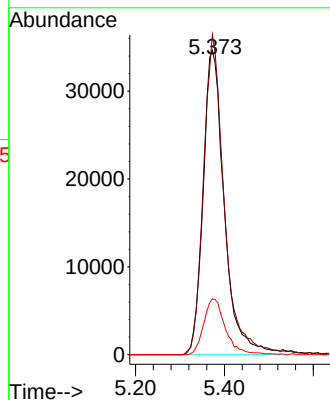
ClientSampleId :

OWBR-02-170-120425



Tgt Ion:113 Resp: 115004

Ion	Ratio	Lower	Upper
113	100		
111	103.6	79.5	119.3
192	18.7	16.1	24.1



#50

Toluene-d8

Concen: 48.898 ug/l

RT: 8.635 min Scan# 1238

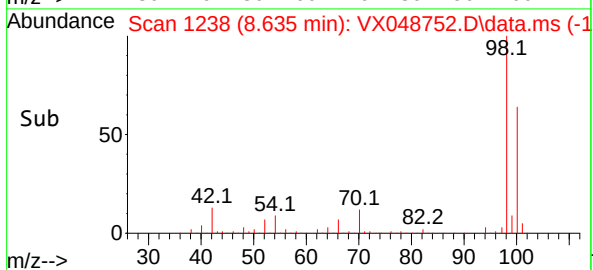
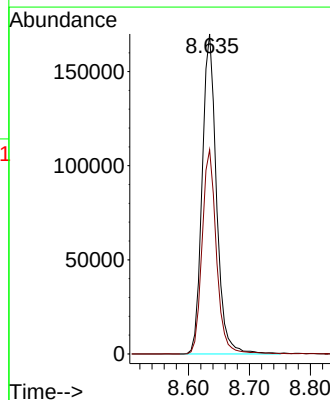
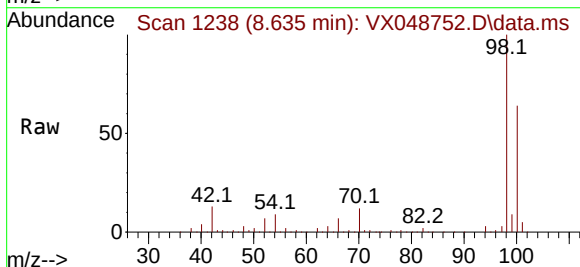
Delta R.T. -0.000 min

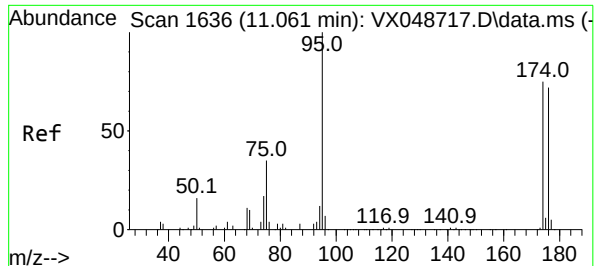
Lab File: VX048752.D

Acq: 08 Dec 2025 14:16

Tgt Ion: 98 Resp: 277928

Ion	Ratio	Lower	Upper
98	100		
100	63.8	53.4	80.0

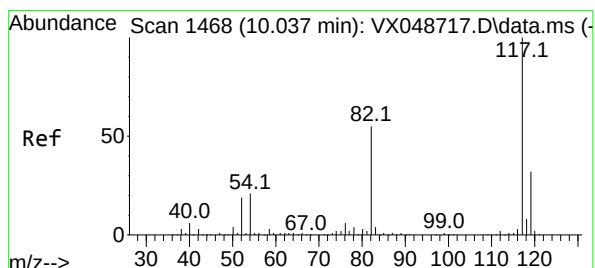
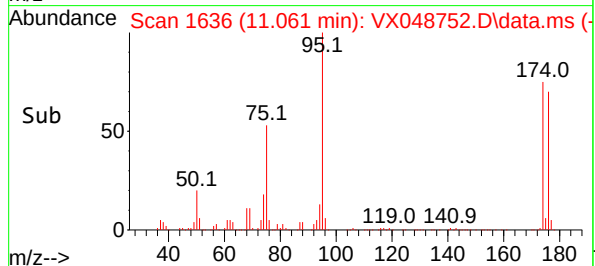
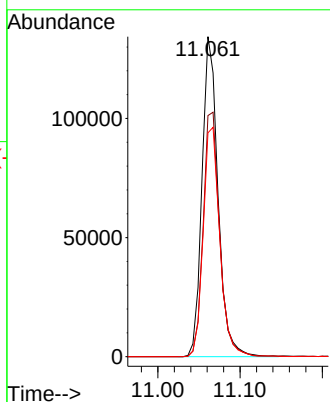
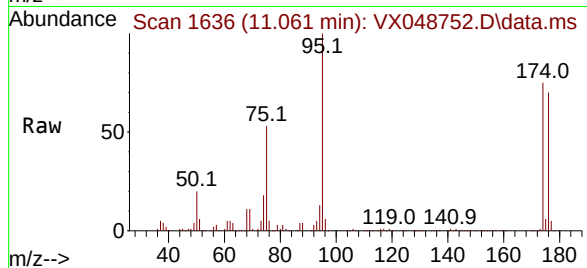




#62
4-Bromofluorobenzene
Concen: 92.825 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048752.D
Acq: 08 Dec 2025 14:16

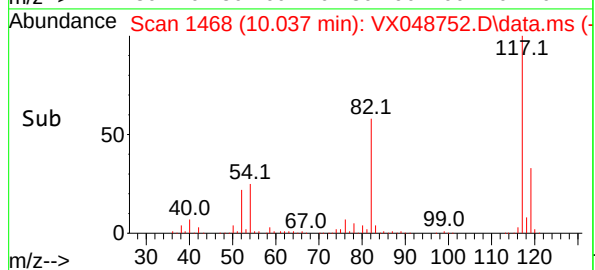
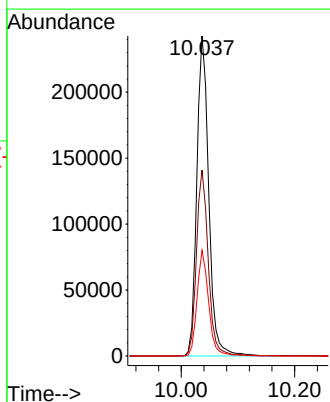
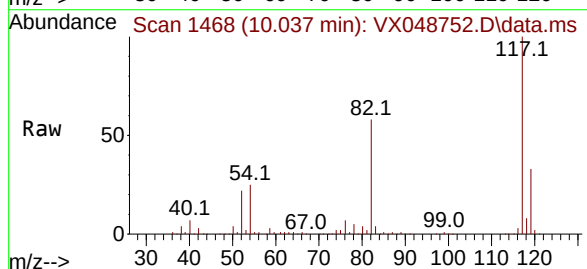
Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425

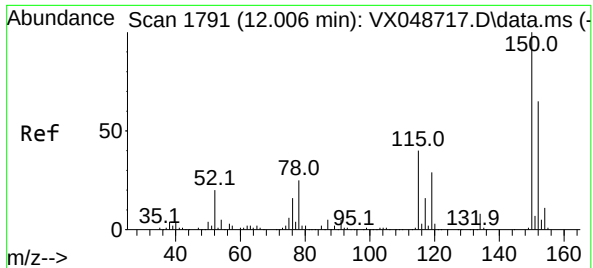
Tgt Ion: 95 Resp: 181933
Ion Ratio Lower Upper
95 100
174 78.6 0.0 157.8
176 74.9 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048752.D
Acq: 08 Dec 2025 14:16

Tgt Ion: 117 Resp: 353865
Ion Ratio Lower Upper
117 100
82 58.1 44.1 66.1
119 33.0 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048752.D

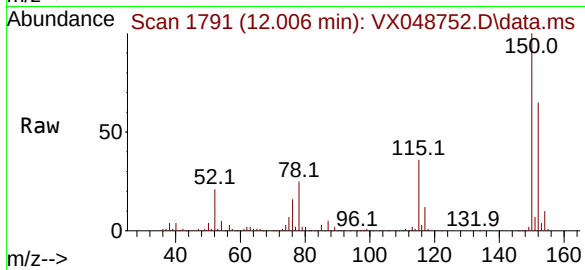
Acq: 08 Dec 2025 14:16

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425



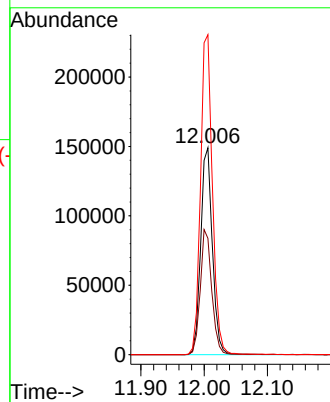
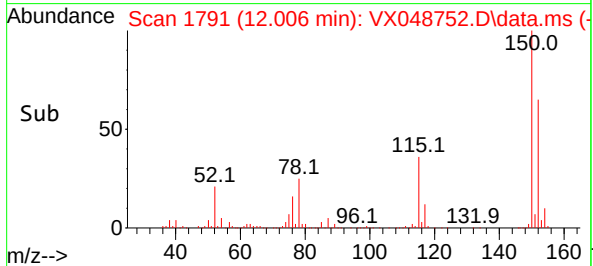
Tgt Ion:152 Resp: 191518

Ion Ratio Lower Upper

152 100

115 59.6 42.1 126.4

150 157.4 0.0 347.8





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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/04/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/04/25
Client Sample ID:	OWBR-02-170-120425RE	SDG No.:	Q3787
Lab Sample ID:	Q3787-07RE	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 mL	Test:	VOCMS Group3
	Level: LOW		
	Final Vol: 5000 uL		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 13:49	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:49	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:49	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 13:49	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 13:49	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 13:49	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 13:49	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 13:49	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 13:49	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:49	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.1			70 (74) - 130 (125)	120%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.7			70 (75) - 130 (124)	95%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	62.6			70 (77) - 130 (121)	125%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	161000							
540-36-3	1,4-Difluorobenzene	337000							
3114-55-4	Chlorobenzene-d5	372000							
3855-82-1	1,4-Dichlorobenzene-d4	199000							

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\VX121025\
 Data File : VX048807.D
 Acq On : 10 Dec 2025 13:49
 Operator : JC/MD
 Sample : Q3787-07RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWBR-02-170-120425RE

Quant Time: Dec 11 00:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

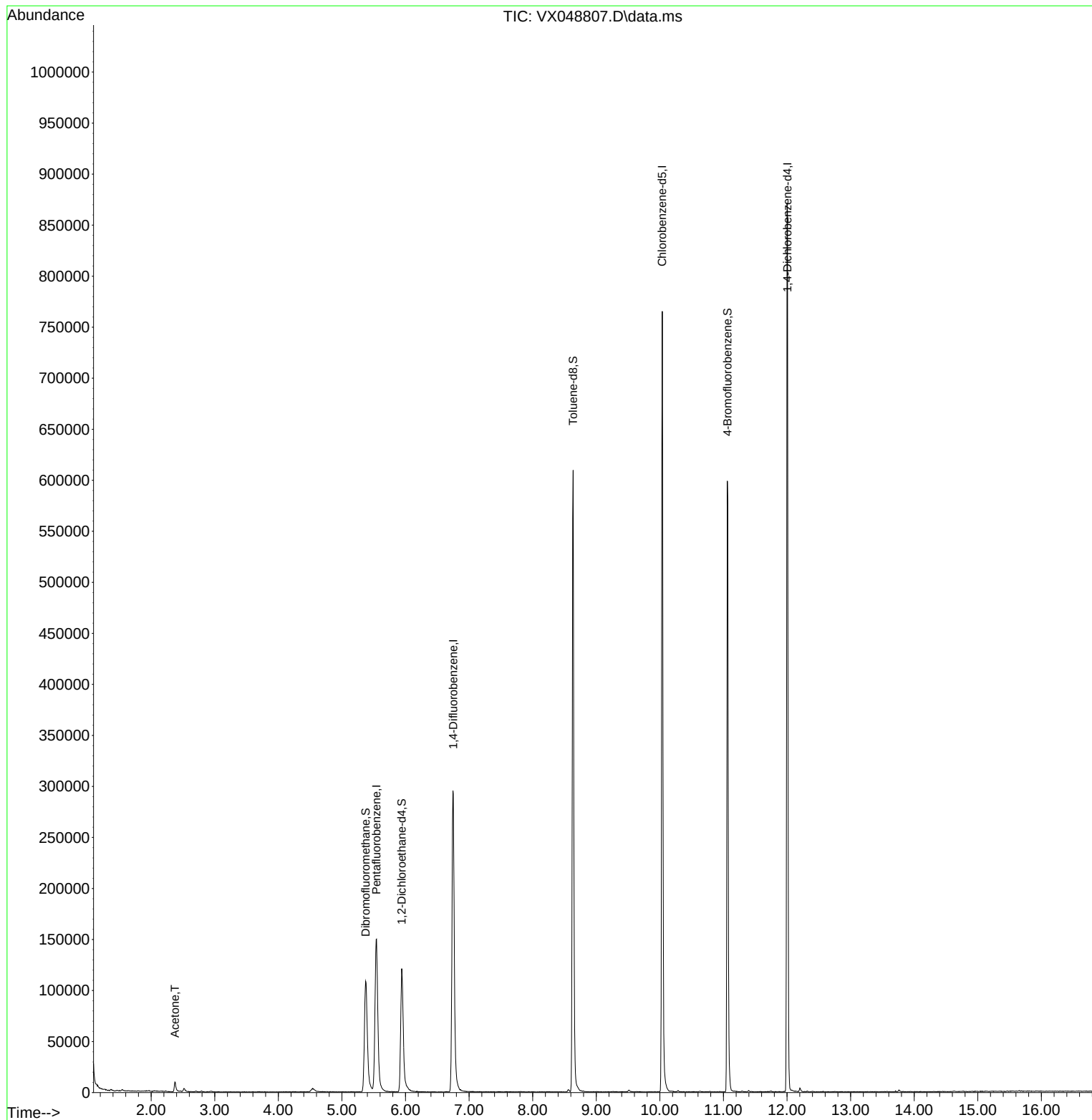
Internal Standards						
1) Pentafluorobenzene	5.544	168	160525	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	337243	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	371573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	199241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	129478	60.095	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	120.200%#
35) Dibromofluoromethane	5.373	113	110759	47.699	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.400%
50) Toluene-d8	8.635	98	387316	47.585	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.160%
62) 4-Bromofluorobenzene	11.061	95	175644	62.579	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	125.160%#
Target Compounds						
16) Acetone	2.374	43	12860	15.592	ug/l	Qvalue 96

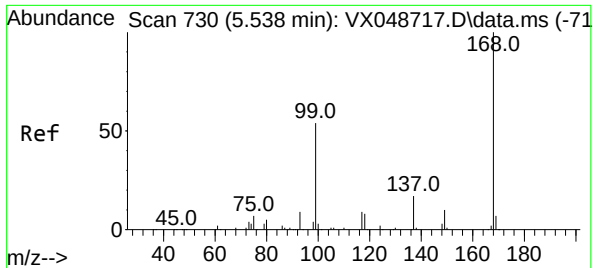
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048807.D
Acq On : 10 Dec 2025 13:49
Operator : JC/MD
Sample : Q3787-07RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425RE

Quant Time: Dec 11 00:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

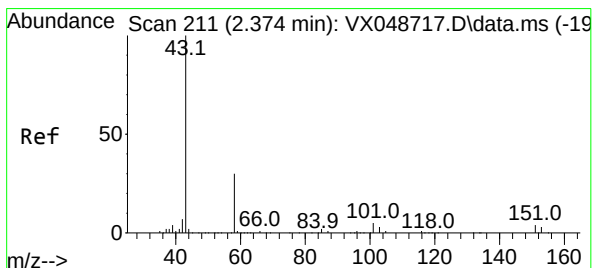
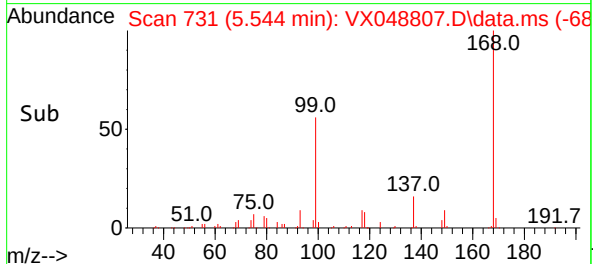
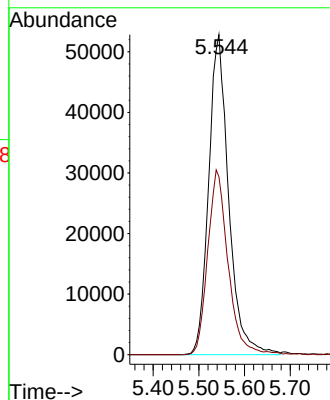
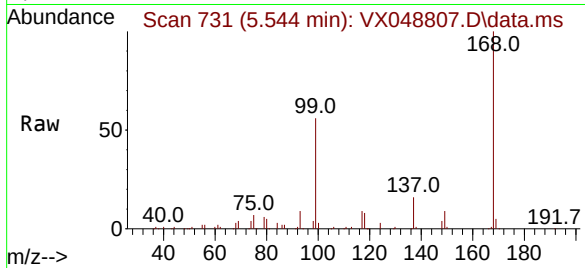




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048807.D
Acq: 10 Dec 2025 13:49

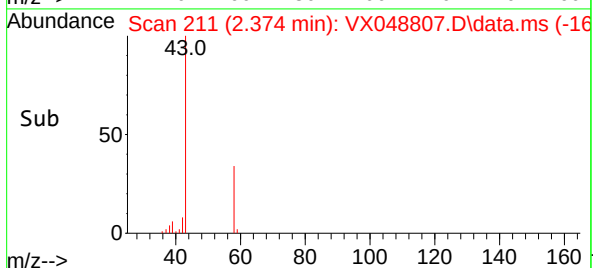
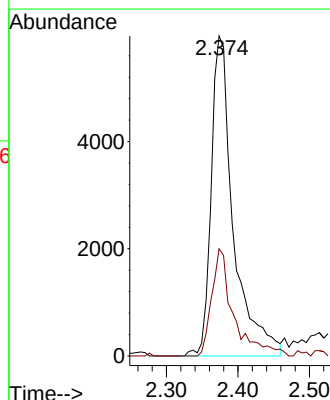
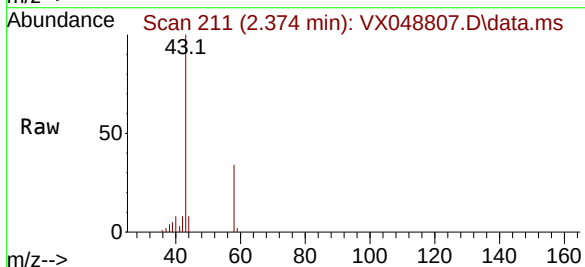
Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425RE

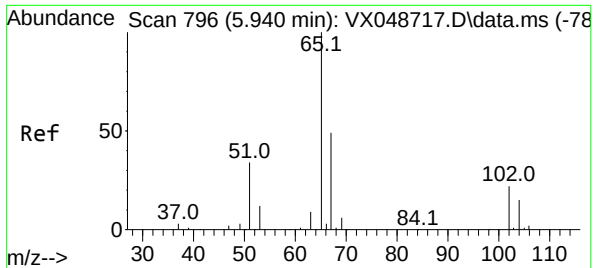
Tgt Ion:168 Resp: 160525
Ion Ratio Lower Upper
168 100
99 55.6 44.2 66.4



#16
Acetone
Concen: 15.592 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048807.D
Acq: 10 Dec 2025 13:49

Tgt Ion: 43 Resp: 12860
Ion Ratio Lower Upper
43 100
58 33.5 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 60.095 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048807.D

Acq: 10 Dec 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

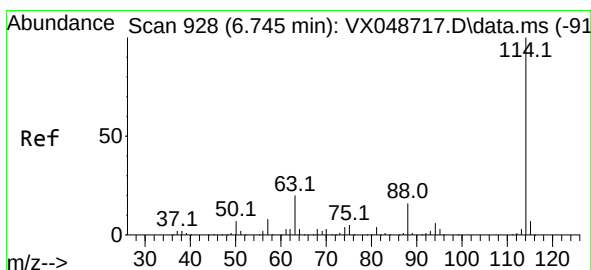
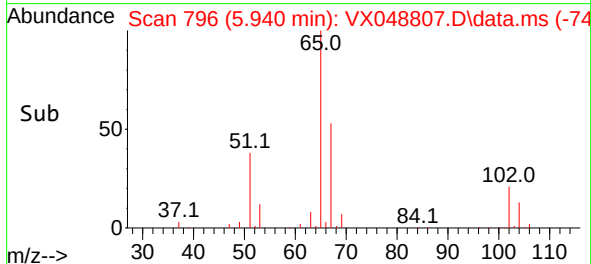
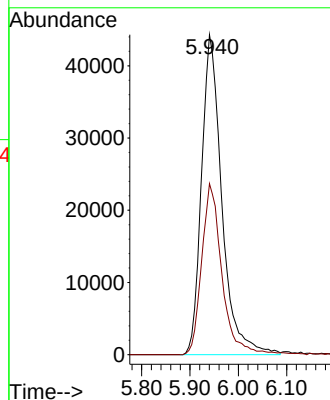
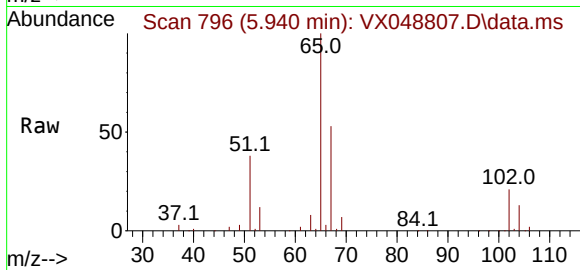
OWBR-02-170-120425RE

Tgt Ion: 65 Resp: 129478

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048807.D

Acq: 10 Dec 2025 13:49

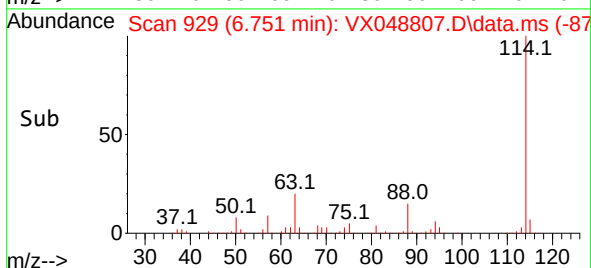
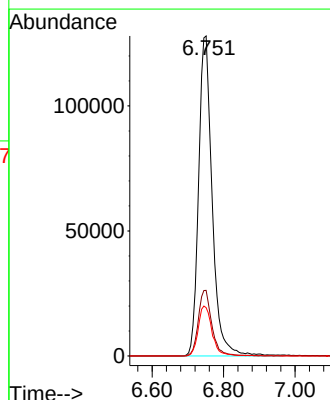
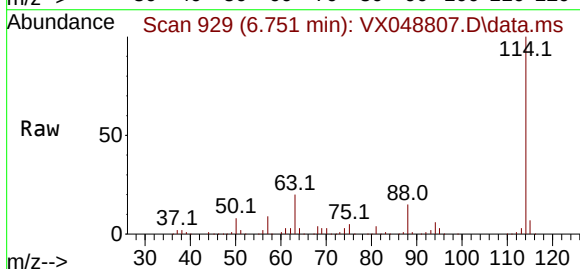
Tgt Ion: 114 Resp: 337243

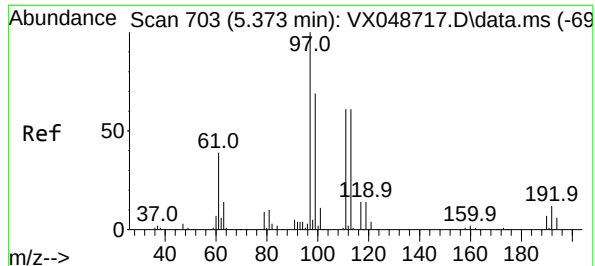
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.699 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048807.D

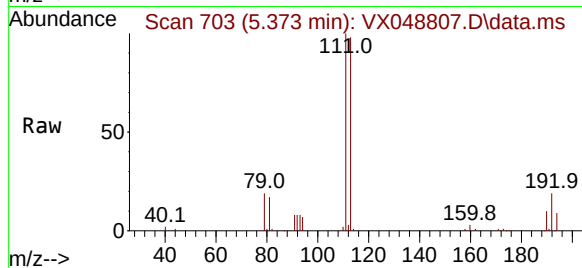
Acq: 10 Dec 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425RE



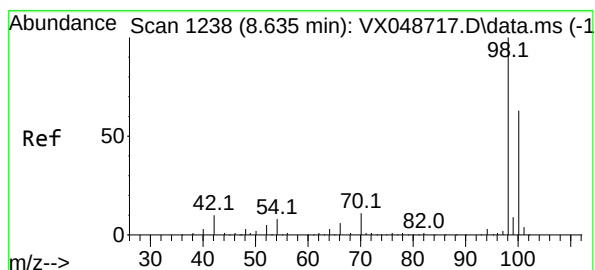
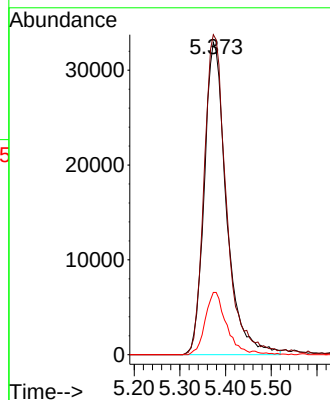
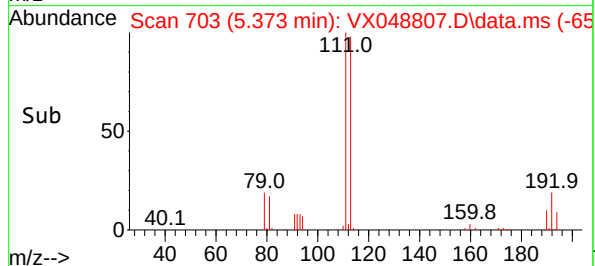
Tgt Ion:113 Resp: 110759

Ion Ratio Lower Upper

113 100

111 103.0 79.5 119.3

192 18.8 16.1 24.1



#50

Toluene-d8

Concen: 47.585 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX048807.D

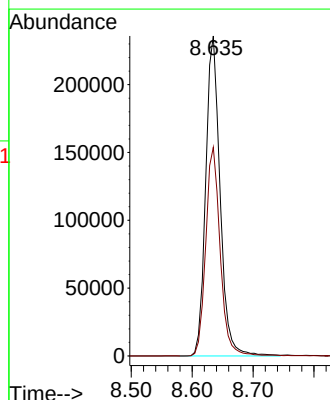
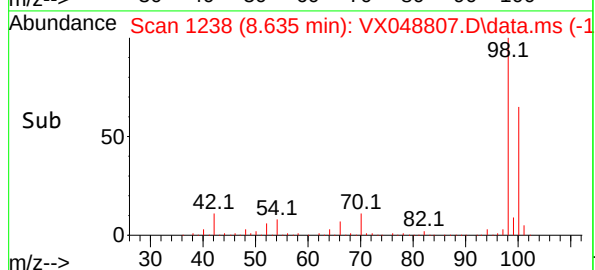
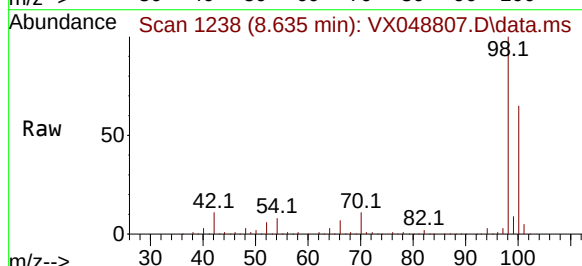
Acq: 10 Dec 2025 13:49

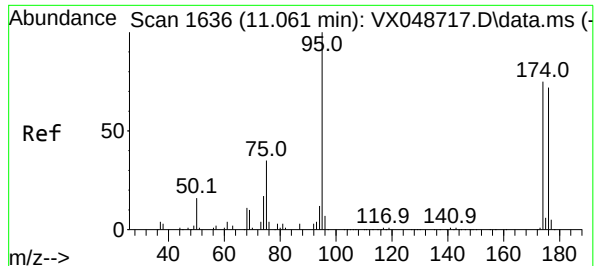
Tgt Ion: 98 Resp: 387316

Ion Ratio Lower Upper

98 100

100 65.8 53.4 80.0





#62

4-Bromofluorobenzene

Concen: 62.579 ug/l

RT: 11.061 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048807.D

Acq: 10 Dec 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425RE

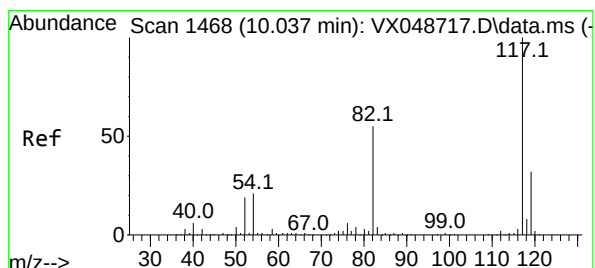
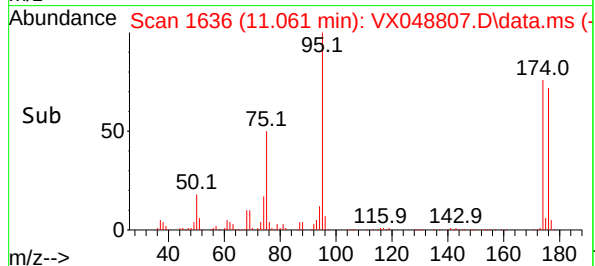
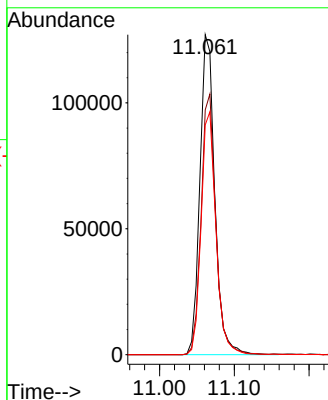
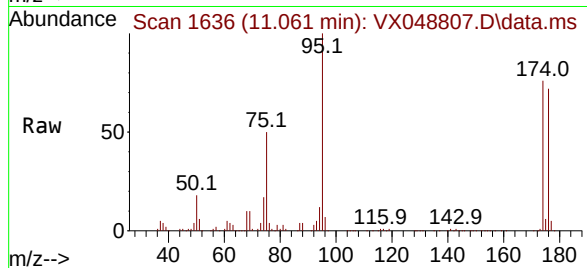
Tgt Ion: 95 Resp: 175644

Ion Ratio Lower Upper

95 100

174 80.6 0.0 157.8

176 76.1 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048807.D

Acq: 10 Dec 2025 13:49

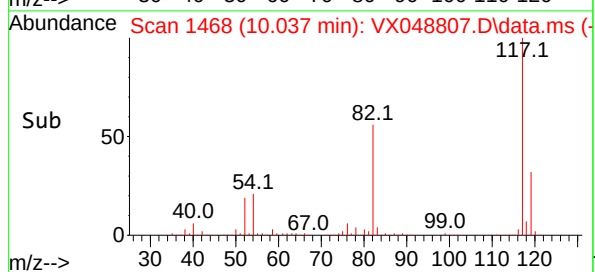
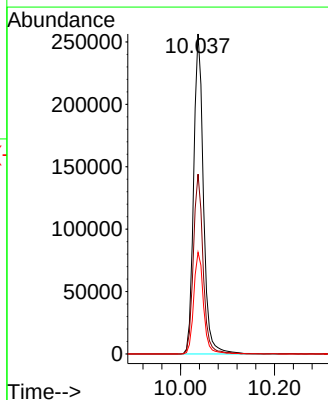
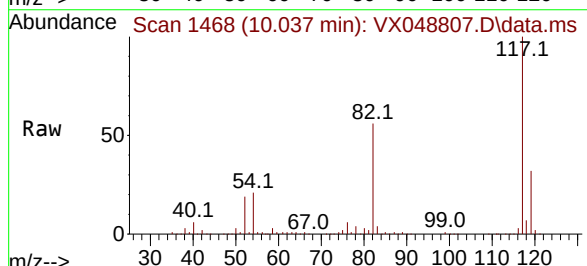
Tgt Ion: 117 Resp: 371573

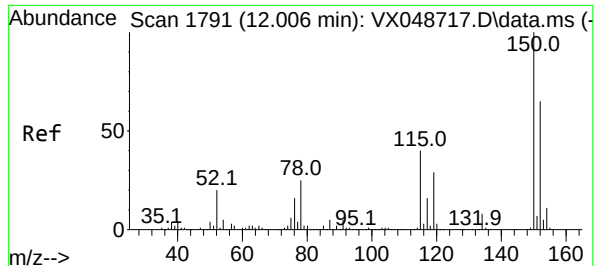
Ion Ratio Lower Upper

117 100

82 56.2 44.1 66.1

119 31.8 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048807.D

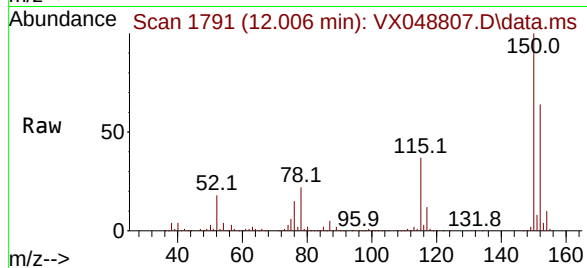
Acq: 10 Dec 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425RE



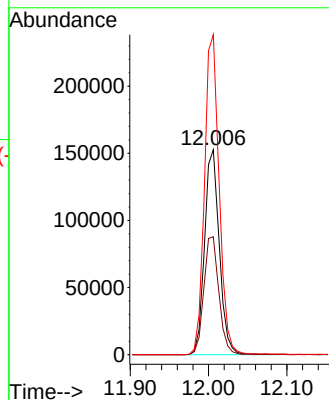
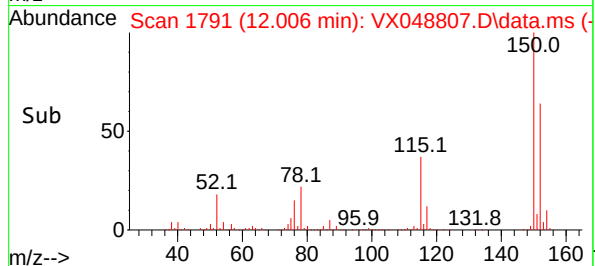
Tgt Ion:152 Resp: 199241

Ion Ratio Lower Upper

152 100

115 58.9 42.1 126.4

150 155.7 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OWBR-02-170-120425-FD
Lab Sample ID: Q3787-09
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 14:36	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:36	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:36	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 14:36	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 14:36	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 14:36	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 14:36	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 14:36	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 14:36	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:36	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	71.0	*		70 (74) - 130 (125)	142%	SPK: 50		
1868-53-7	Dibromofluoromethane	67.0	*		70 (75) - 130 (124)	134%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	85.6	*		70 (77) - 130 (121)	171%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	130000							
540-36-3	1,4-Difluorobenzene	212000							
3114-55-4	Chlorobenzene-d5	232000							
3855-82-1	1,4-Dichlorobenzene-d4	177000							

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\VX120825\
 Data File : VX048753.D
 Acq On : 08 Dec 2025 14:36
 Operator : JC/MD
 Sample : Q3787-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWBR-02-170-120425-FD

Quant Time: Dec 09 04:10:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

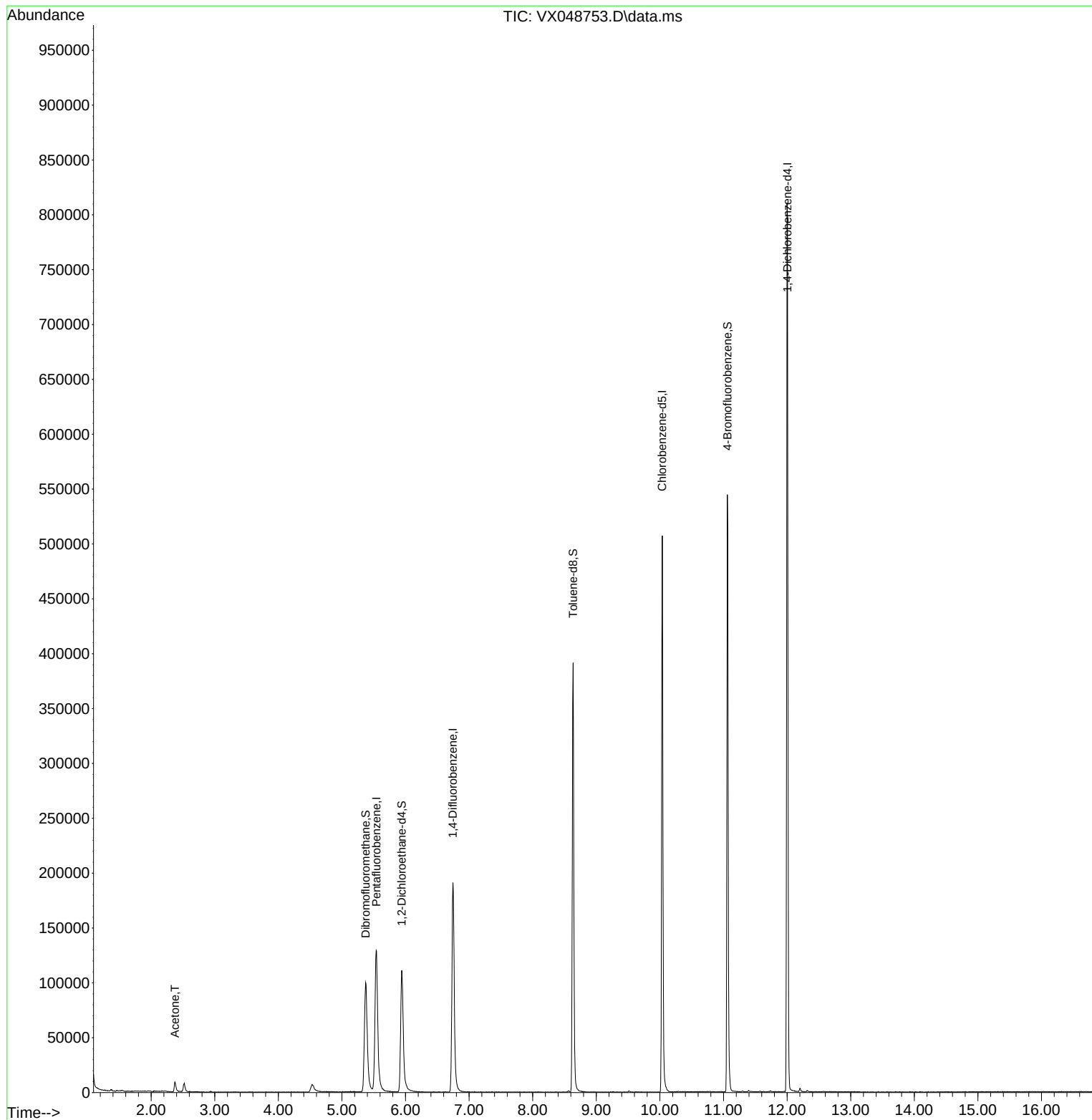
Internal Standards						
1) Pentafluorobenzene	5.543	168	129874	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.744	114	212277	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	232388	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	176527	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	123816	71.030	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	142.060%#
35) Dibromofluoromethane	5.373	113	97967	67.027	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	134.060%#
50) Toluene-d8	8.634	98	243890	47.603	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.200%
62) 4-Bromofluorobenzene	11.061	95	151305	85.642	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	171.280%#
Target Compounds						Qvalue
16) Acetone	2.373	43	12145	18.200	ug/l	# 84

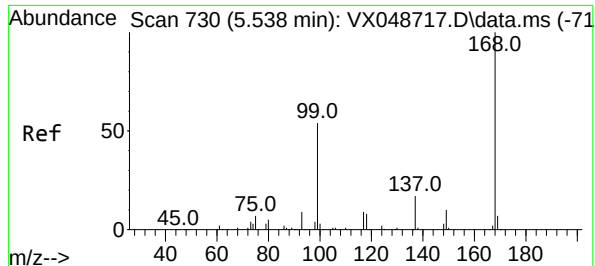
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048753.D
Acq On : 08 Dec 2025 14:36
Operator : JC/MD
Sample : Q3787-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425-FD

Quant Time: Dec 09 04:10:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

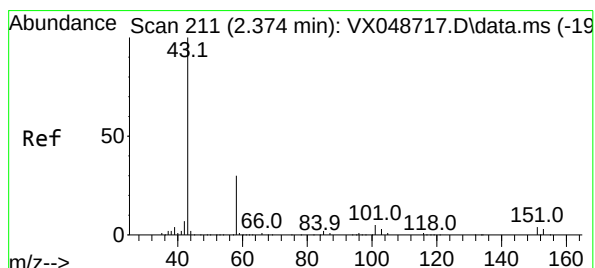
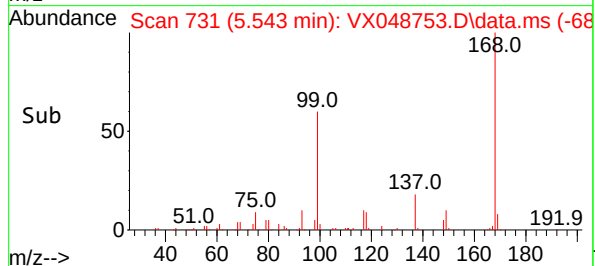
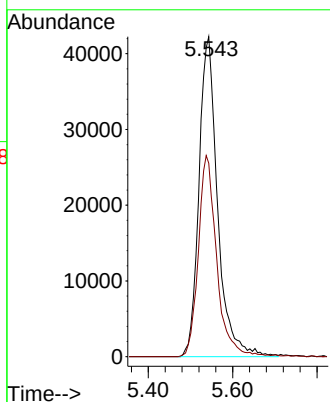
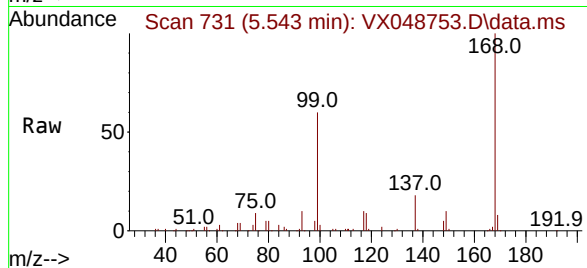




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. 0.005 min
Lab File: VX048753.D
Acq: 08 Dec 2025 14:36

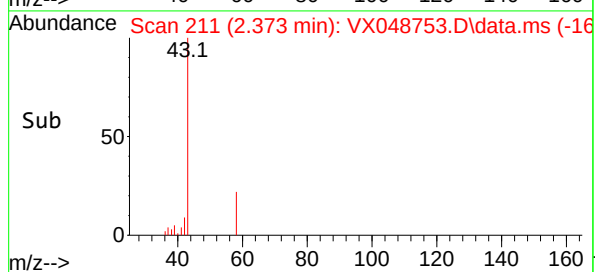
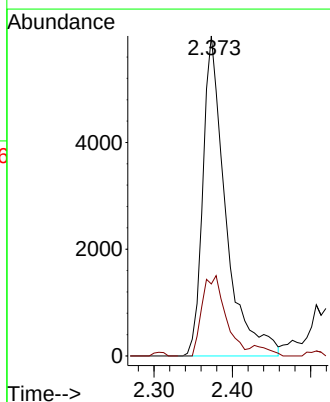
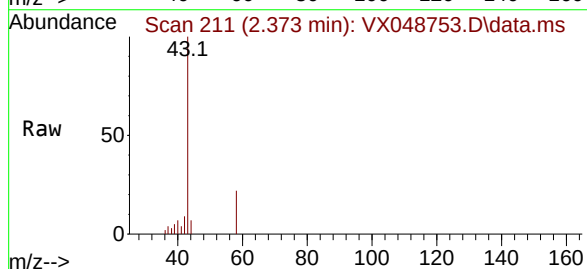
Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425-FD

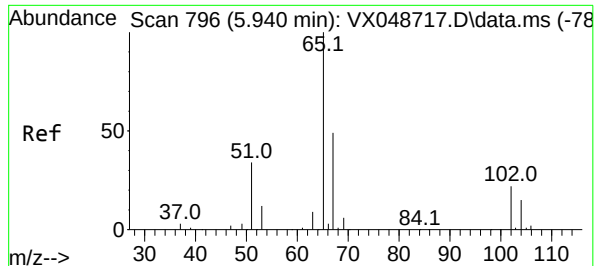
Tgt Ion:168 Resp: 129874
Ion Ratio Lower Upper
168 100
99 60.5 44.2 66.4



#16
Acetone
Concen: 18.200 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048753.D
Acq: 08 Dec 2025 14:36

Tgt Ion: 43 Resp: 12145
Ion Ratio Lower Upper
43 100
58 22.5 25.0 37.4#





#33

1,2-Dichloroethane-d4

Concen: 71.030 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048753.D

Acq: 08 Dec 2025 14:36

Instrument :

MSVOA_X

ClientSampleId :

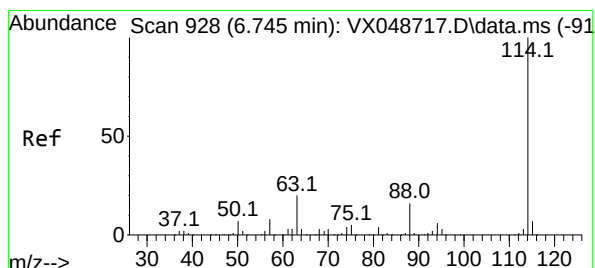
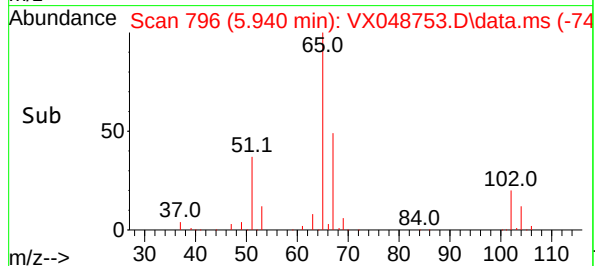
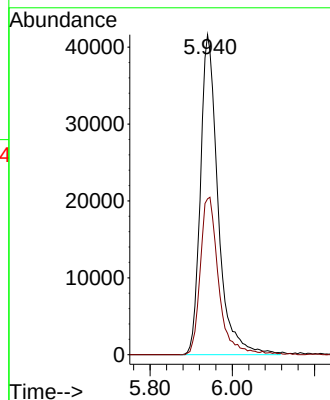
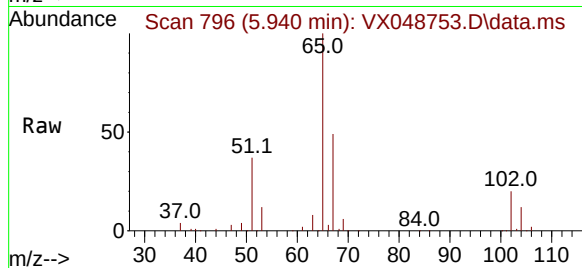
OWBR-02-170-120425-FD

Tgt Ion: 65 Resp: 123816

Ion Ratio Lower Upper

65 100

67 50.7 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.744 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048753.D

Acq: 08 Dec 2025 14:36

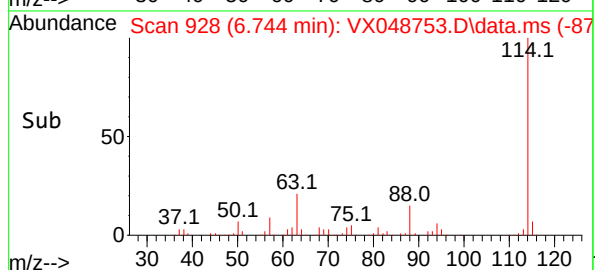
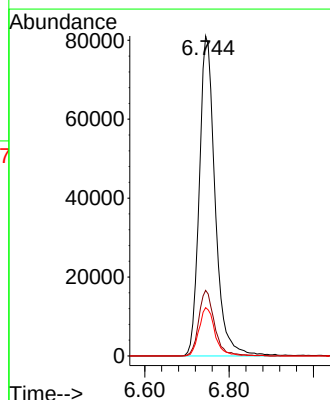
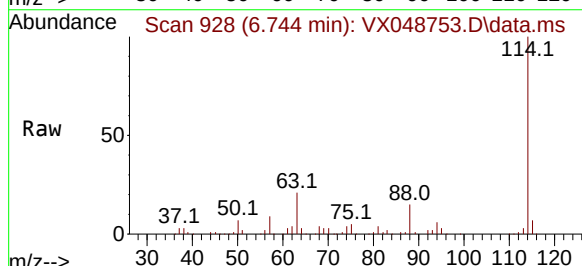
Tgt Ion: 114 Resp: 212277

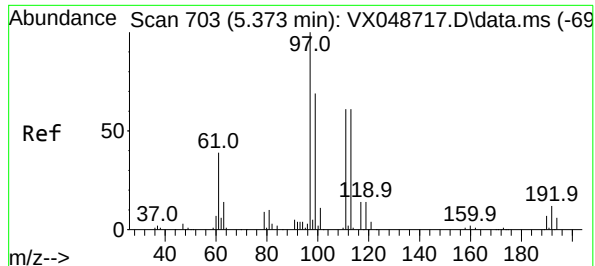
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 67.027 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048753.D

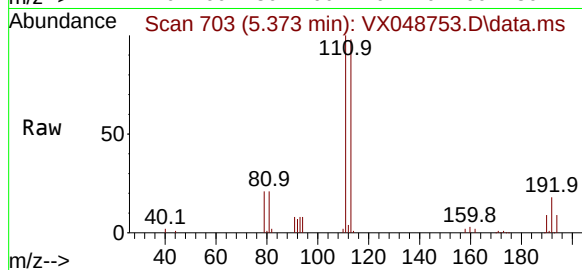
Acq: 08 Dec 2025 14:36

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FD



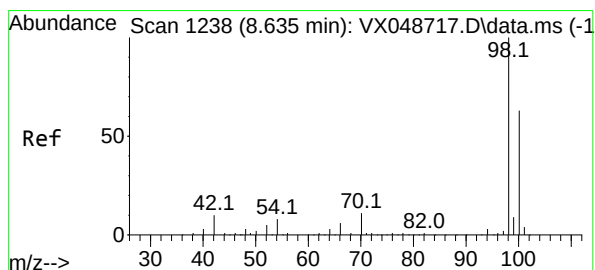
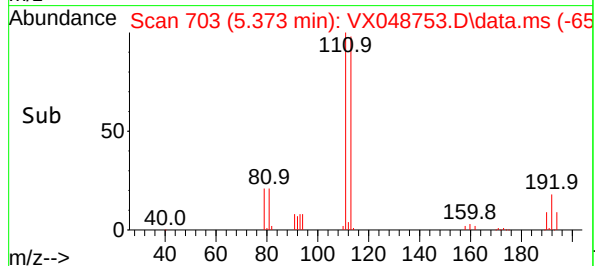
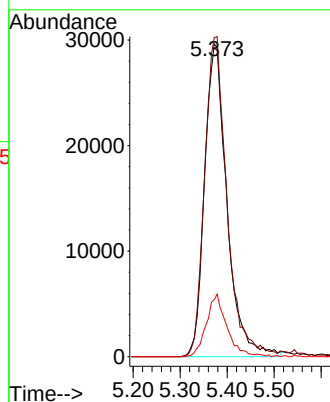
Tgt Ion:113 Resp: 97967

Ion Ratio Lower Upper

113 100

111 102.4 79.5 119.3

192 18.3 16.1 24.1



#50

Toluene-d8

Concen: 47.603 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048753.D

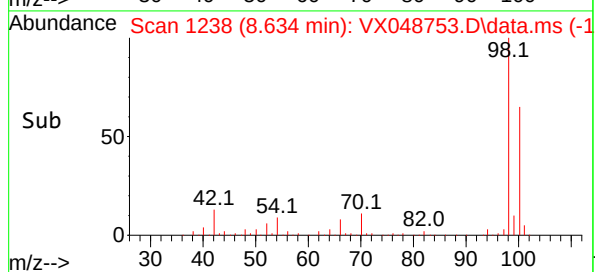
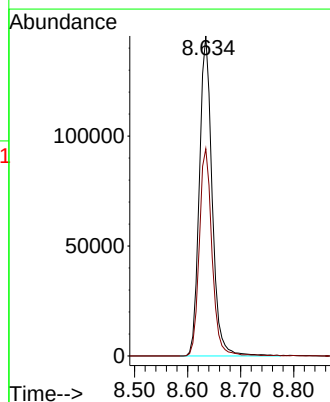
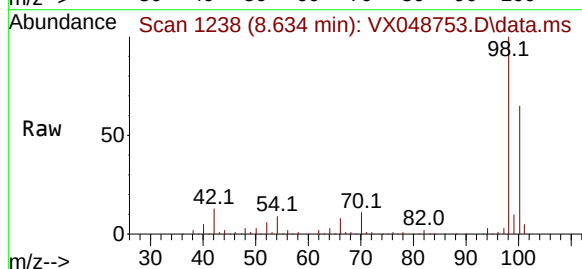
Acq: 08 Dec 2025 14:36

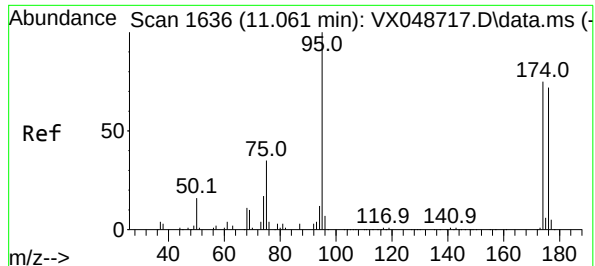
Tgt Ion: 98 Resp: 243890

Ion Ratio Lower Upper

98 100

100 64.7 53.4 80.0





#62

4-Bromofluorobenzene

Concen: 85.642 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048753.D

Acq: 08 Dec 2025 14:36

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FD

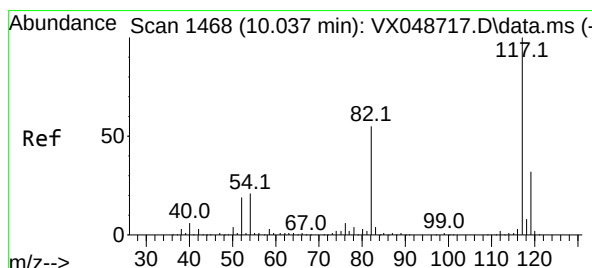
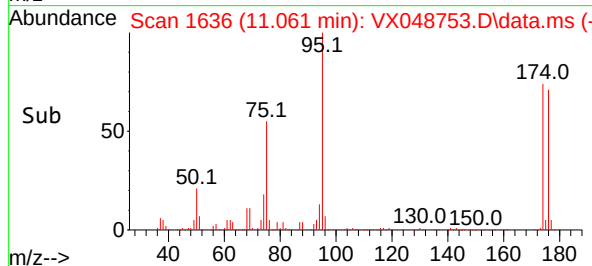
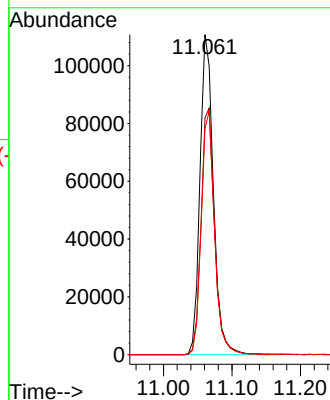
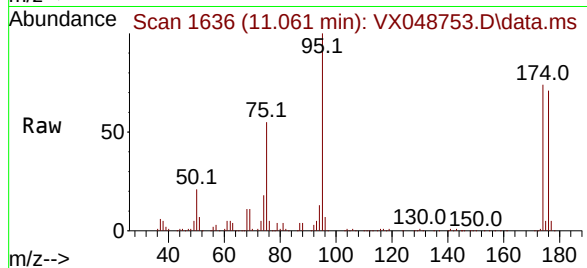
Tgt Ion: 95 Resp: 151305

Ion Ratio Lower Upper

95 100

174 77.5 0.0 157.8

176 75.2 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.036 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048753.D

Acq: 08 Dec 2025 14:36

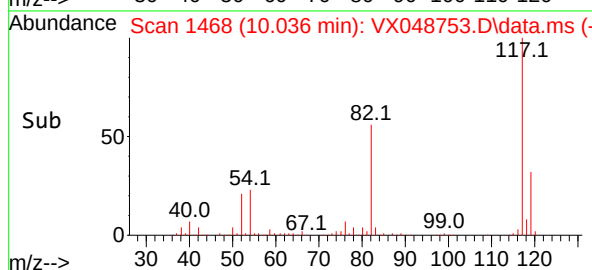
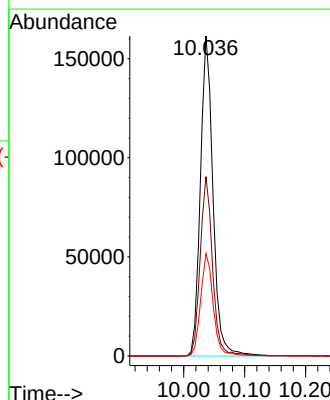
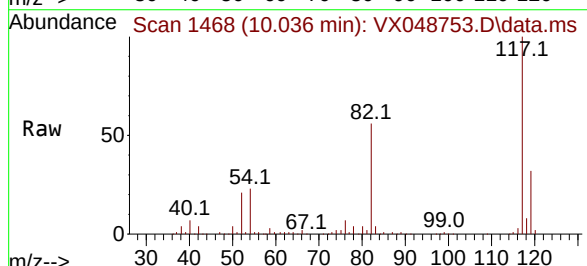
Tgt Ion: 117 Resp: 232388

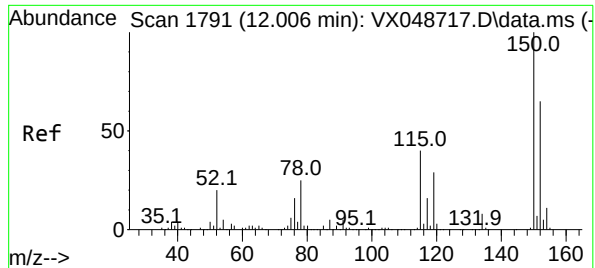
Ion Ratio Lower Upper

117 100

82 56.1 44.1 66.1

119 32.0 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048753.D

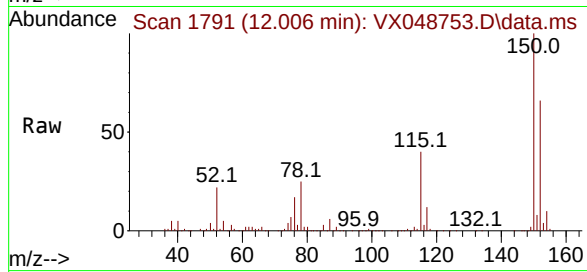
Acq: 08 Dec 2025 14:36

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FD



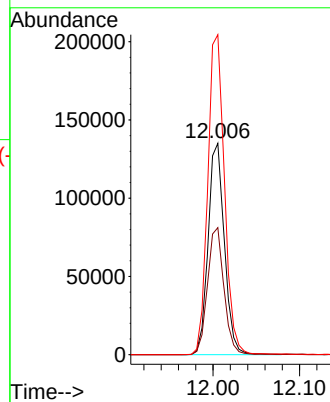
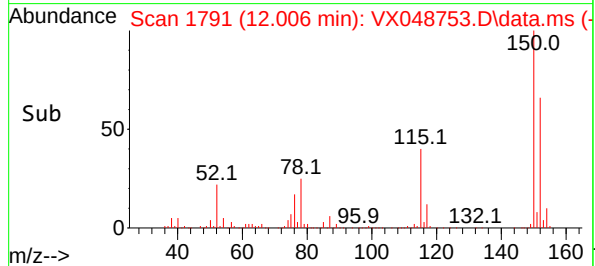
Tgt Ion:152 Resp: 176527

Ion Ratio Lower Upper

152 100

115 60.8 42.1 126.4

150 155.5 0.0 347.8





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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/04/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/04/25
Client Sample ID:	OWBR-02-170-120425-FDI	SDG No.:	Q3787
Lab Sample ID:	Q3787-09RE	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 mL	Test:	VOCMS Group3
	Level: LOW		
	Final Vol: 5000 uL		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 14:10	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:10	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:10	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 14:10	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 14:10	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 14:10	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 14:10	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 14:10	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 14:10	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:10	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.5			70 (74) - 130 (125)	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.5			70 (75) - 130 (124)	95%	SPK: 50		
2037-26-5	Toluene-d8	47.5			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	61.2			70 (77) - 130 (121)	122%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	151000							
540-36-3	1,4-Difluorobenzene	314000							
3114-55-4	Chlorobenzene-d5	341000							
3855-82-1	1,4-Dichlorobenzene-d4	185000							

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\VX121025\
 Data File : VX048808.D
 Acq On : 10 Dec 2025 14:10
 Operator : JC/MD
 Sample : Q3787-09RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWBR-02-170-120425-FDRE

Quant Time: Dec 11 00:22:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

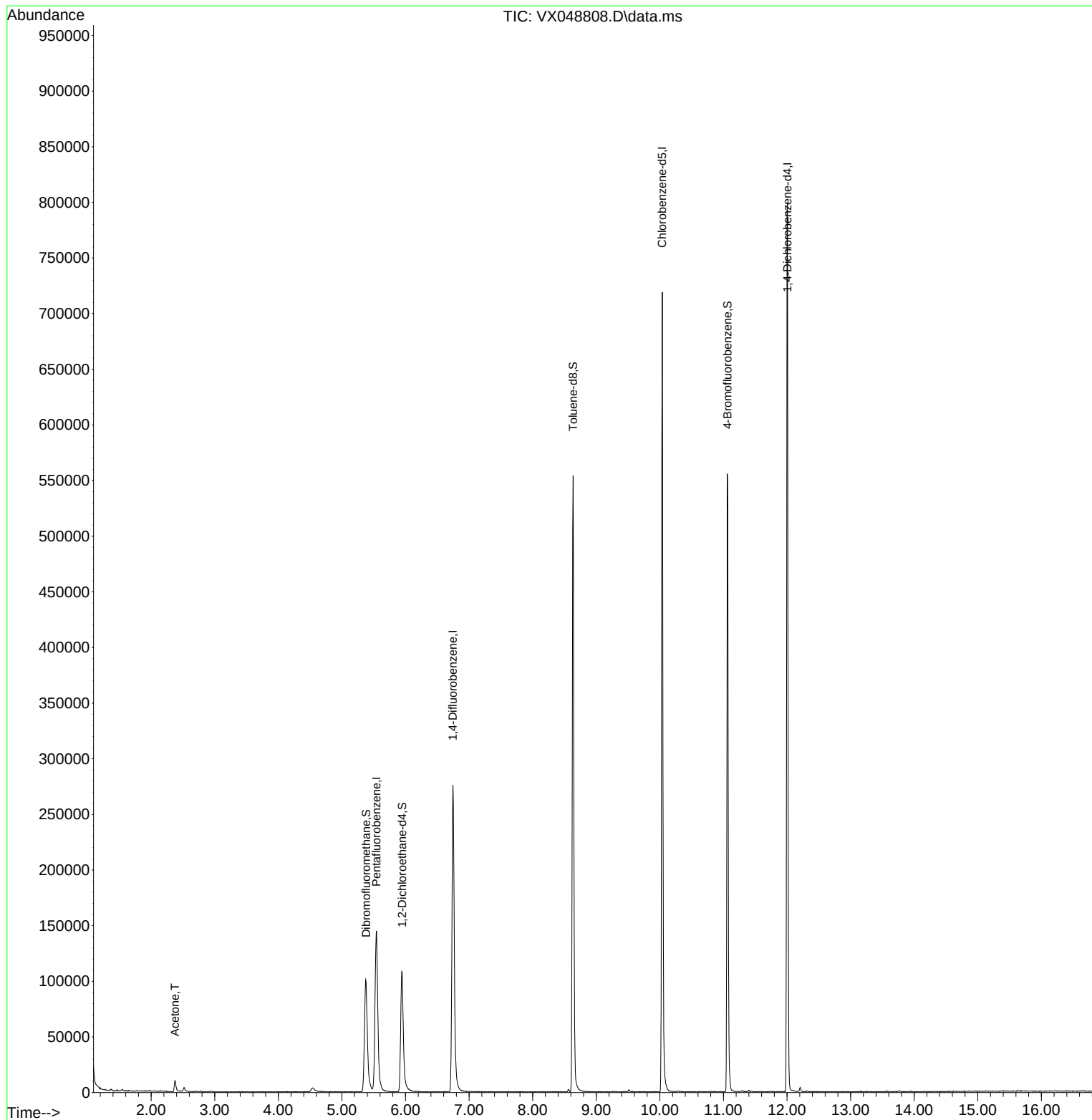
Internal Standards						
1) Pentafluorobenzene	5.544	168	150728	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	313869	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	341495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	184829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	120292	59.461	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	118.920%#
35) Dibromofluoromethane	5.379	113	102752	47.546	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.100%
50) Toluene-d8	8.635	98	359487	47.455	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.900%
62) 4-Bromofluorobenzene	11.061	95	159804	61.175	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	122.360%
Target Compounds						Qvalue
16) Acetone	2.374	43	13514	17.450	ug/l	92

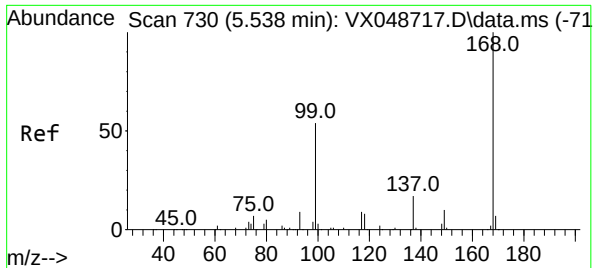
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048808.D
Acq On : 10 Dec 2025 14:10
Operator : JC/MD
Sample : Q3787-09RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425-FDRE

Quant Time: Dec 11 00:22:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

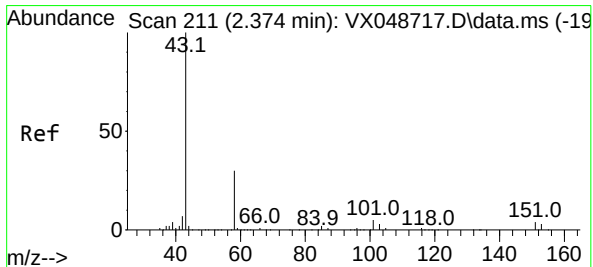
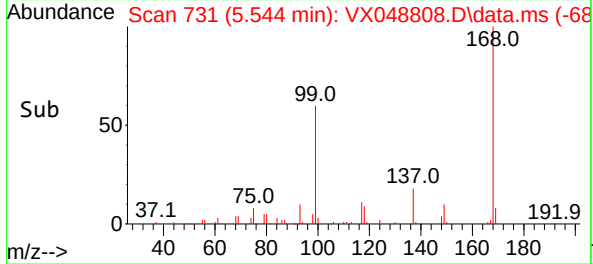
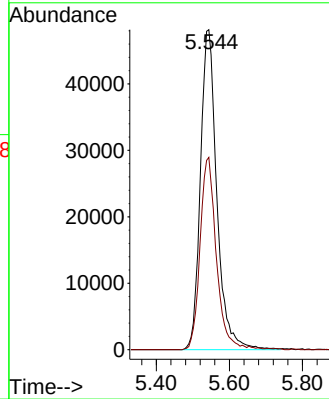
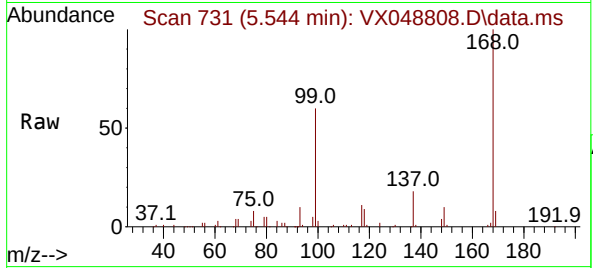




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX048808.D
Acq: 10 Dec 2025 14:10

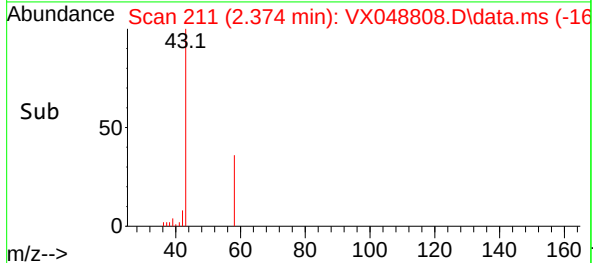
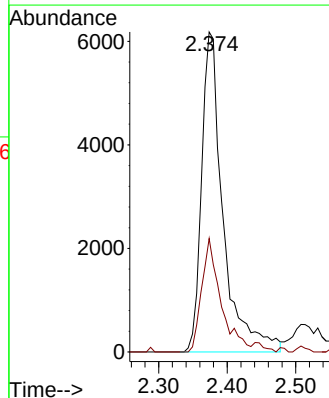
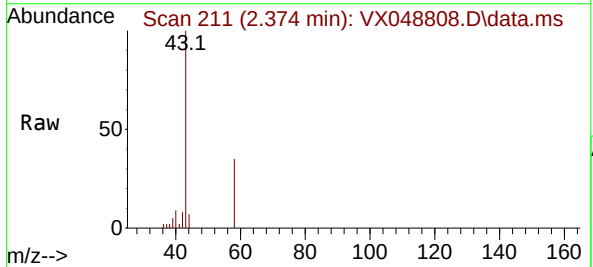
Instrument :
MSVOA_X
ClientSampleId :
OWBR-02-170-120425-FDRE

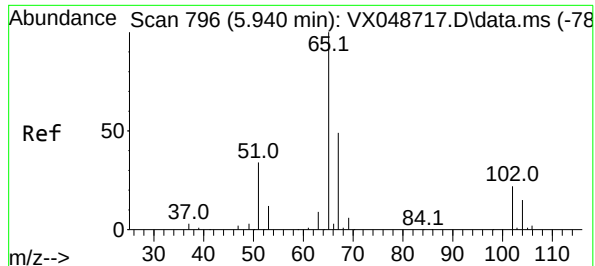
Tgt Ion:168 Resp: 150728
Ion Ratio Lower Upper
168 100
99 60.1 44.2 66.4



#16
Acetone
Concen: 17.450 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048808.D
Acq: 10 Dec 2025 14:10

Tgt Ion: 43 Resp: 13514
Ion Ratio Lower Upper
43 100
58 35.4 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 59.461 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048808.D

Acq: 10 Dec 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

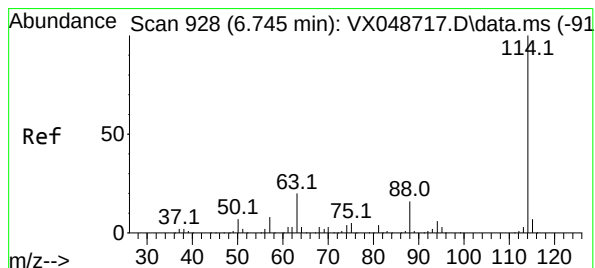
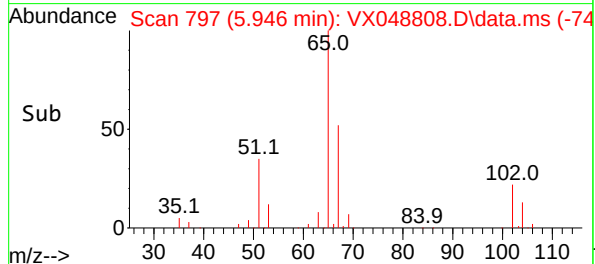
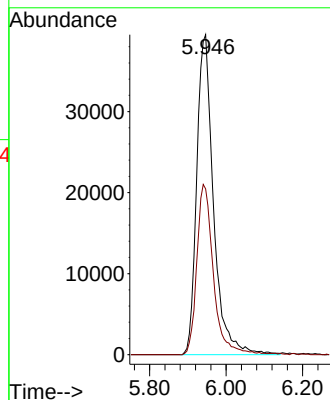
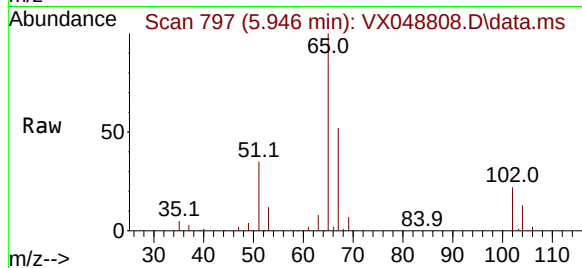
OWBR-02-170-120425-FDRE

Tgt Ion: 65 Resp: 120292

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX048808.D

Acq: 10 Dec 2025 14:10

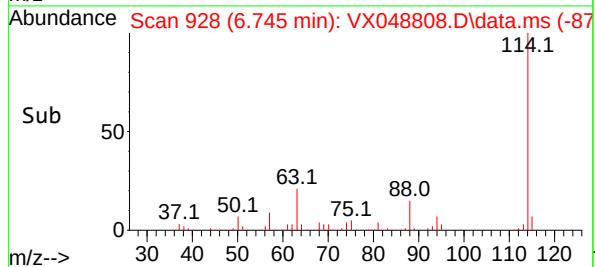
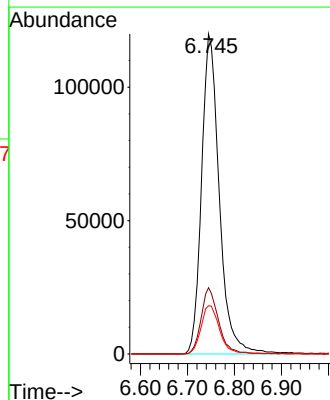
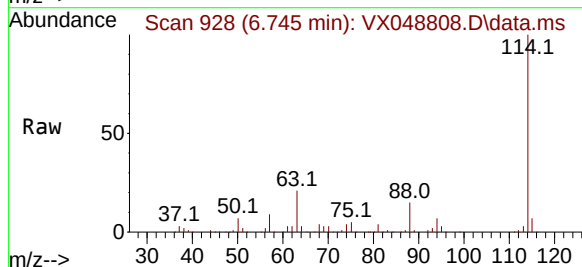
Tgt Ion: 114 Resp: 313869

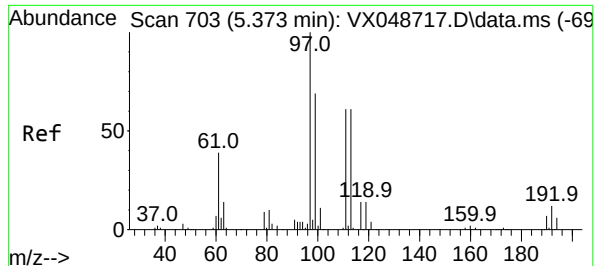
Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.546 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048808.D

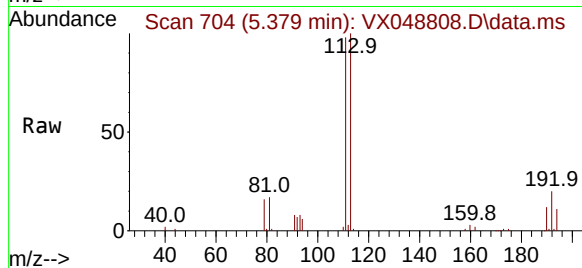
Acq: 10 Dec 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FDRE



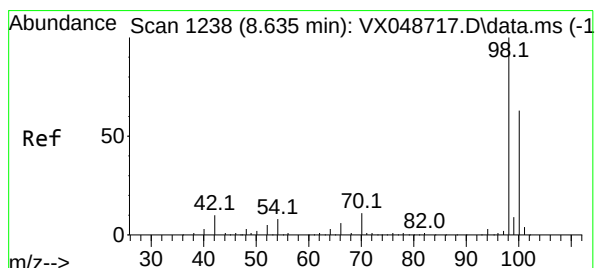
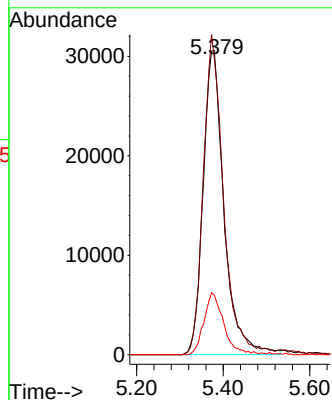
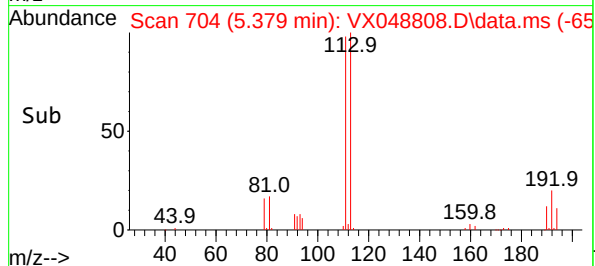
Tgt Ion:113 Resp: 102752

Ion Ratio Lower Upper

113 100

111 101.3 79.5 119.3

192 19.3 16.1 24.1



#50

Toluene-d8

Concen: 47.455 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX048808.D

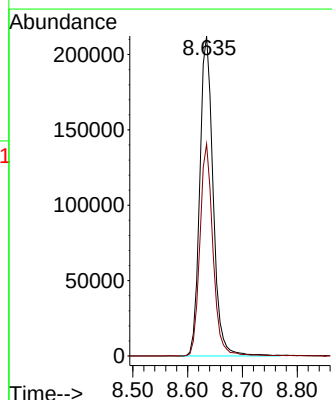
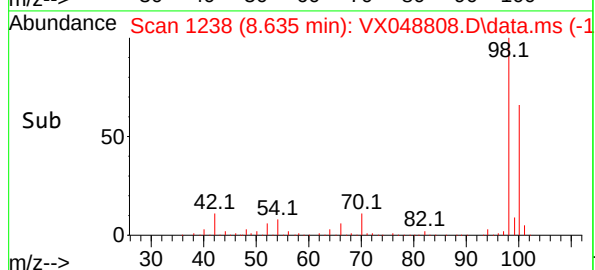
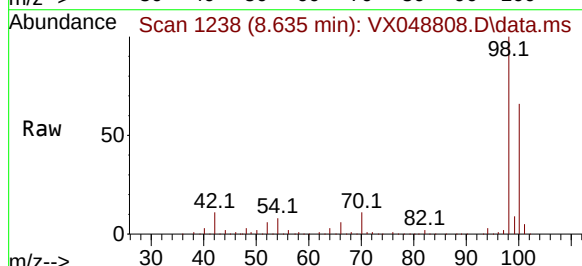
Acq: 10 Dec 2025 14:10

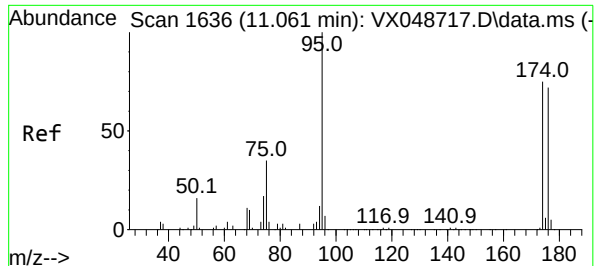
Tgt Ion: 98 Resp: 359487

Ion Ratio Lower Upper

98 100

100 64.9 53.4 80.0





#62

4-Bromofluorobenzene

Concen: 61.175 ug/l

RT: 11.061 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048808.D

Acq: 10 Dec 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FDRE

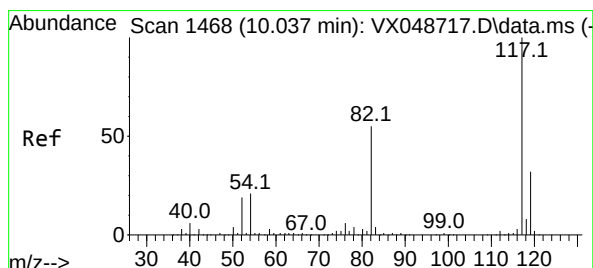
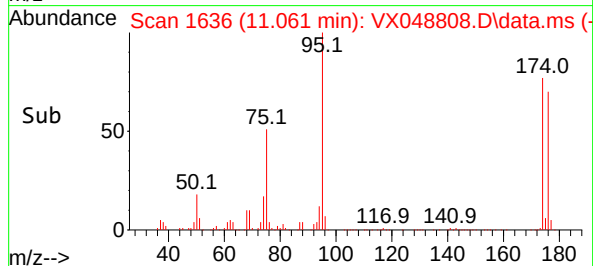
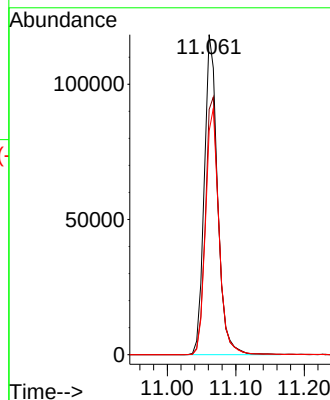
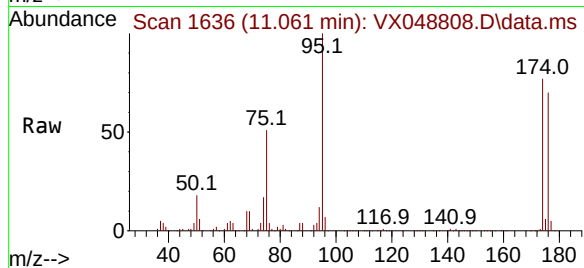
Tgt Ion: 95 Resp: 159804

Ion Ratio Lower Upper

95 100

174 81.7 0.0 157.8

176 78.1 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048808.D

Acq: 10 Dec 2025 14:10

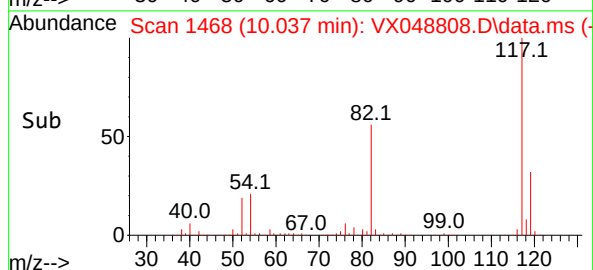
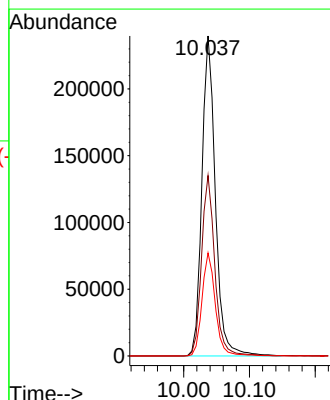
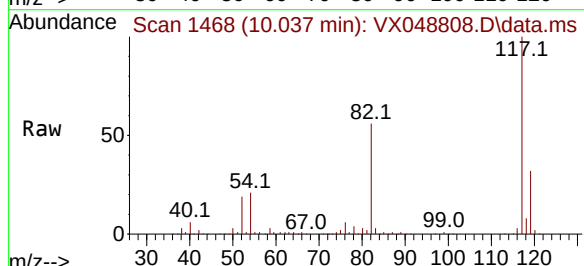
Tgt Ion: 117 Resp: 341495

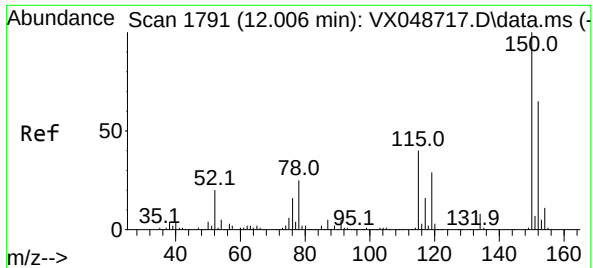
Ion Ratio Lower Upper

117 100

82 56.4 44.1 66.1

119 32.2 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048808.D

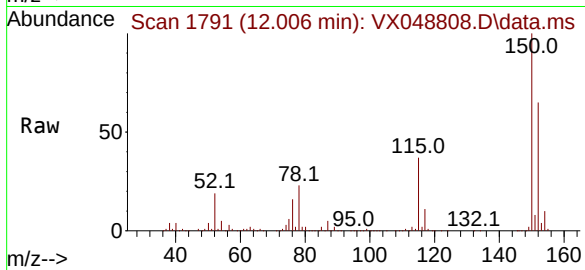
Acq: 10 Dec 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

OWBR-02-170-120425-FDRE



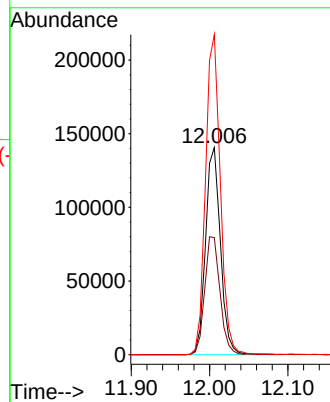
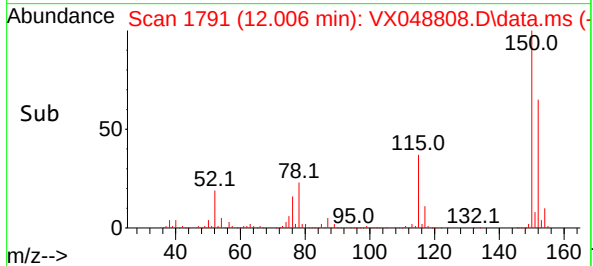
Tgt Ion:152 Resp: 184829

Ion Ratio Lower Upper

152 100

115 58.9 42.1 126.4

150 153.9 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-03B-51.5-120425
Lab Sample ID: Q3787-11
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 14:57	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:57	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:57	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 14:57	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 14:57	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 14:57	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 14:57	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 14:57	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 14:57	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 14:57	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	64.1			70 (74) - 130 (125)	128%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.6			70 (75) - 130 (124)	97%	SPK: 50		
2037-26-5	Toluene-d8	47.5			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	38.6			70 (77) - 130 (121)	77%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	160000							
540-36-3	1,4-Difluorobenzene	344000							
3114-55-4	Chlorobenzene-d5	353000							
3855-82-1	1,4-Dichlorobenzene-d4	128000							

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\VX120825\
 Data File : VX048754.D
 Acq On : 08 Dec 2025 14:57
 Operator : JC/MD
 Sample : Q3787-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-03B-51.5-120425

Quant Time: Dec 09 04:11:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

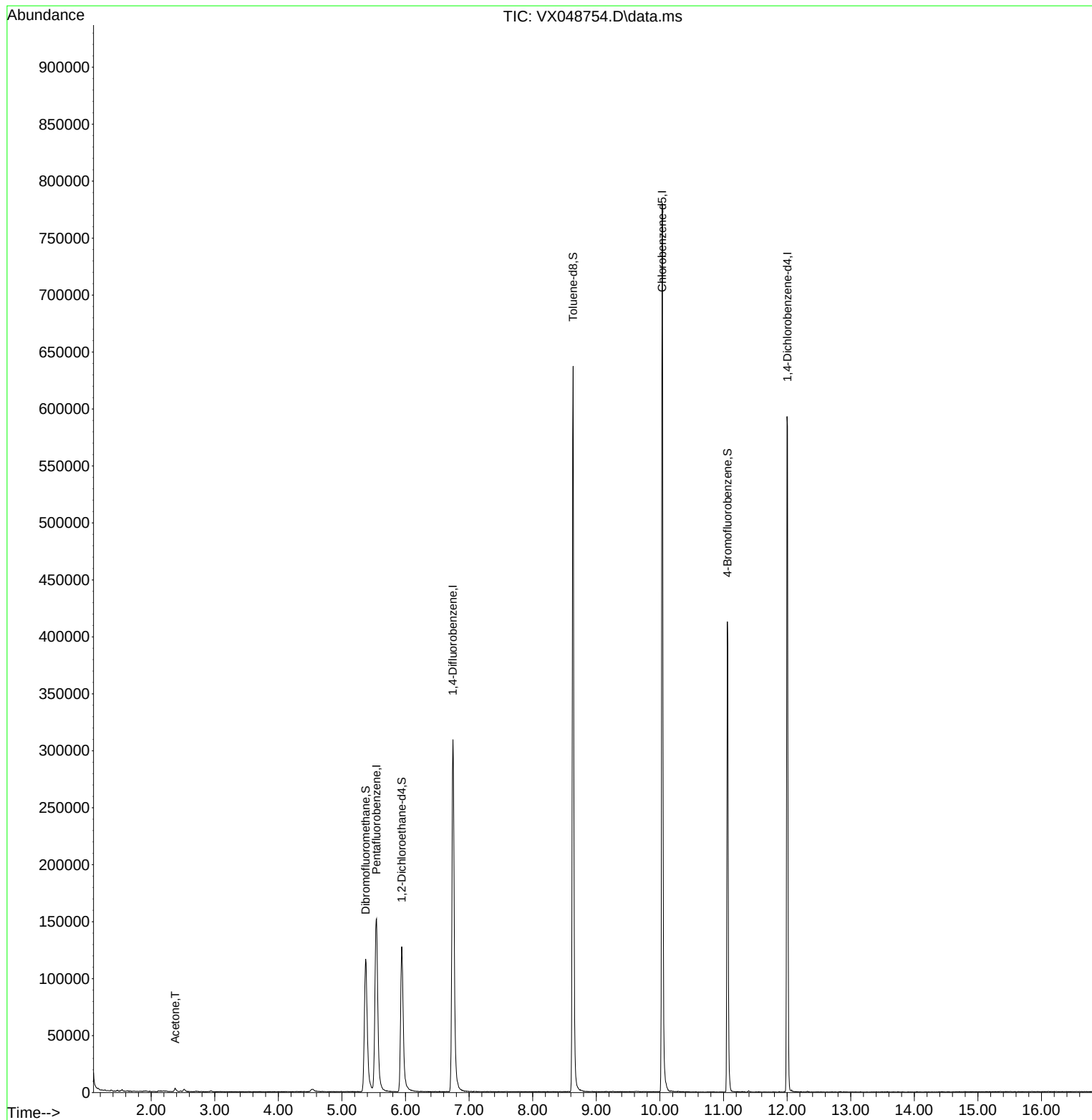
Internal Standards						
1) Pentafluorobenzene	5.544	168	160355	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	343808	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	352510	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	128068	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	137902	64.073	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	128.140%#
35) Dibromofluoromethane	5.373	113	115093	48.619	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.240%
50) Toluene-d8	8.635	98	394240	47.510	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.020%
62) 4-Bromofluorobenzene	11.061	95	110501	38.618	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	77.240%#
Target Compounds						
16) Acetone	2.380	43	4105	4.982	ug/l	95

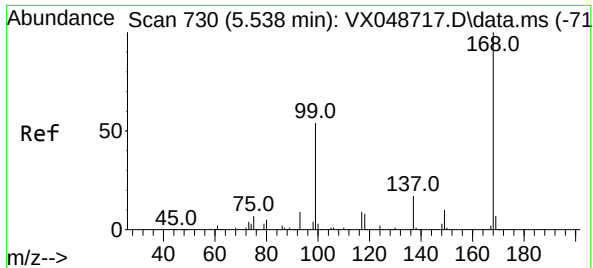
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048754.D
Acq On : 08 Dec 2025 14:57
Operator : JC/MD
Sample : Q3787-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425

Quant Time: Dec 09 04:11:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

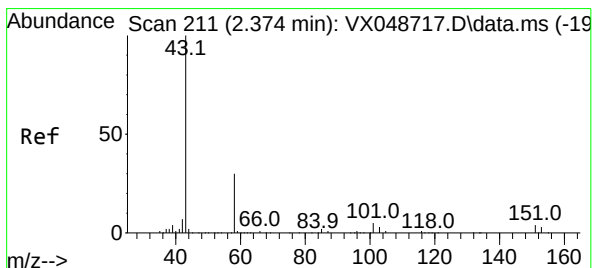
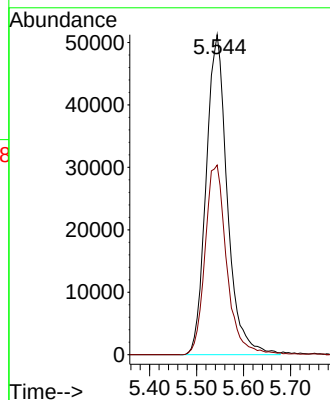
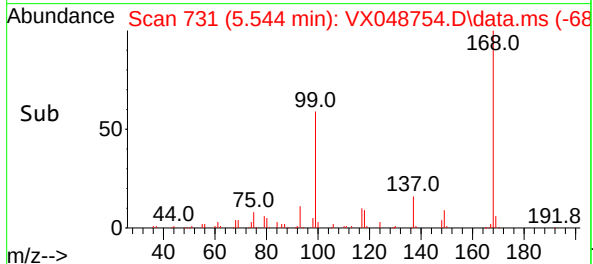
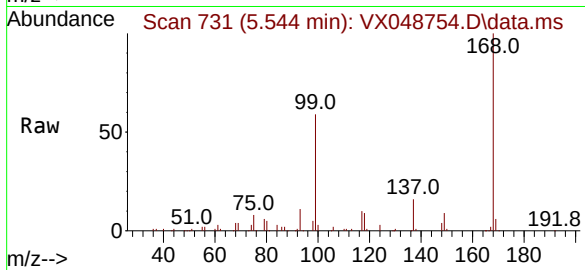




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048754.D
Acq: 08 Dec 2025 14:57

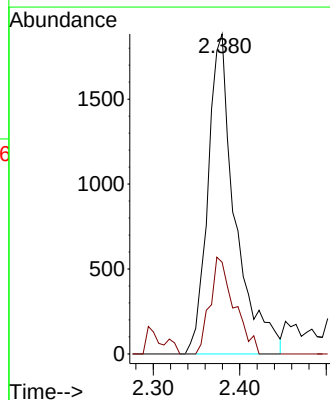
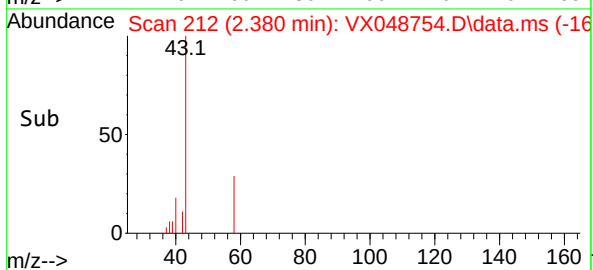
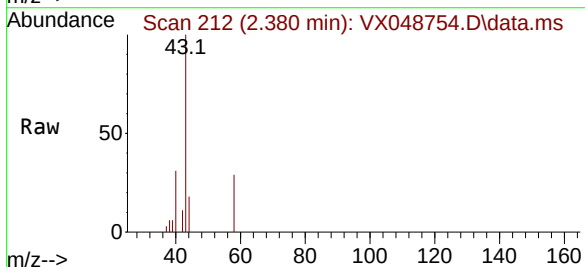
Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425

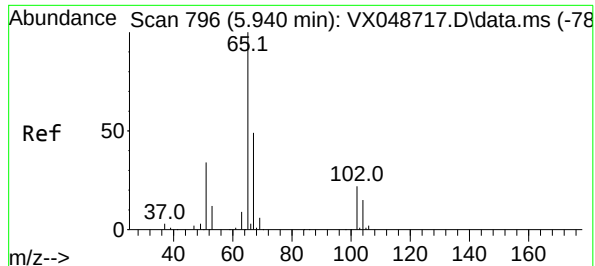
Tgt Ion:168 Resp: 160355
Ion Ratio Lower Upper
168 100
99 59.3 44.2 66.4



#16
Acetone
Concen: 4.982 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048754.D
Acq: 08 Dec 2025 14:57

Tgt Ion: 43 Resp: 4105
Ion Ratio Lower Upper
43 100
58 28.6 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 64.073 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048754.D

Acq: 08 Dec 2025 14:57

Instrument :

MSVOA_X

ClientSampleId :

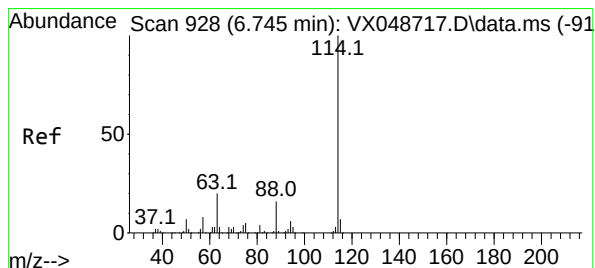
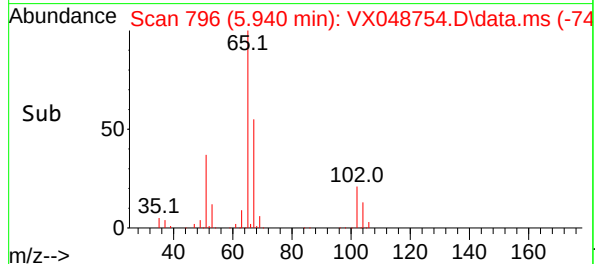
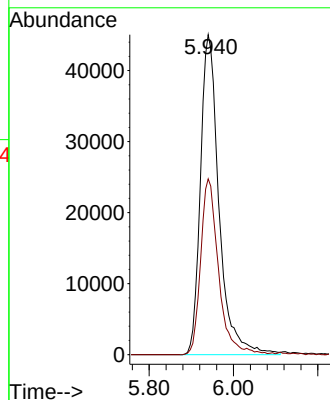
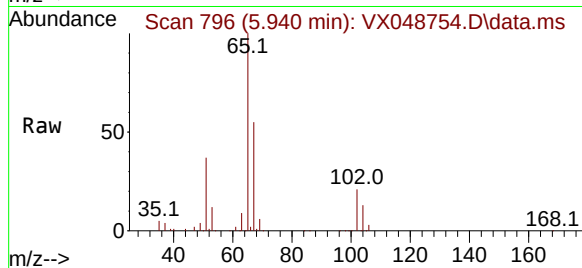
OW-03B-51.5-120425

Tgt Ion: 65 Resp: 137902

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048754.D

Acq: 08 Dec 2025 14:57

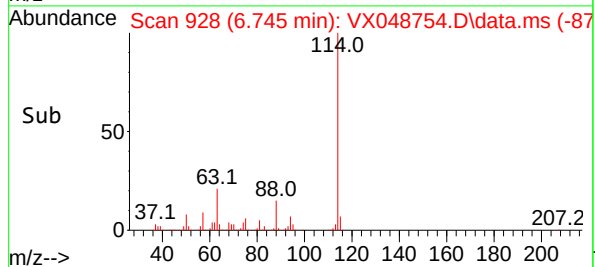
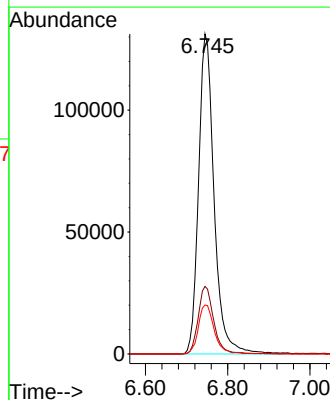
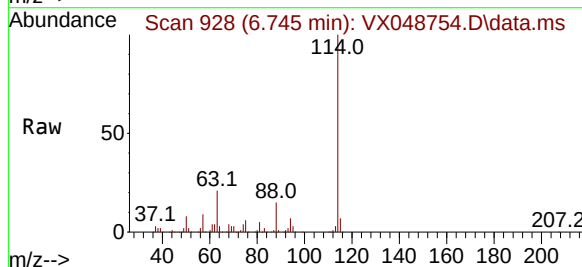
Tgt Ion: 114 Resp: 343808

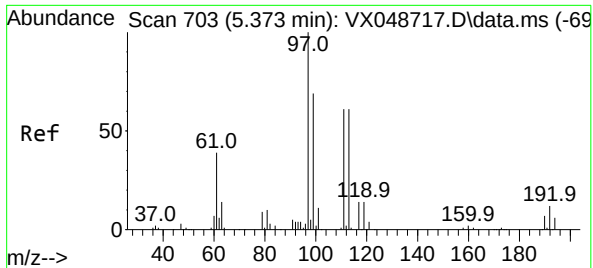
Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.0

88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.619 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048754.D

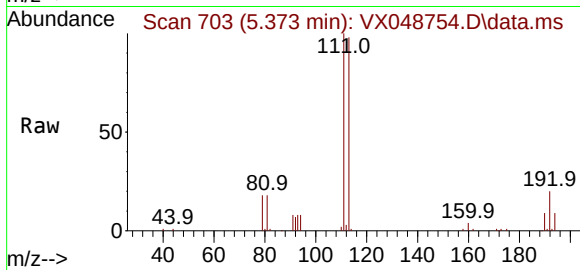
Acq: 08 Dec 2025 14:57

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425



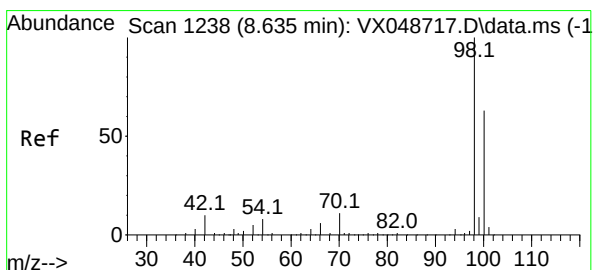
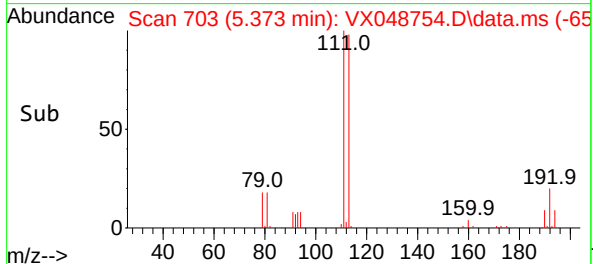
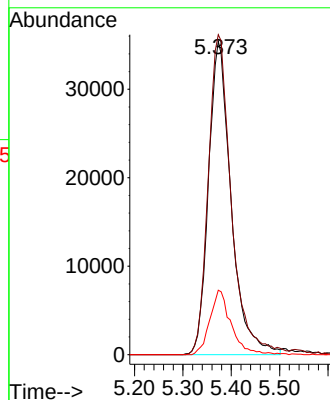
Tgt Ion:113 Resp: 115093

Ion Ratio Lower Upper

113 100

111 104.1 79.5 119.3

192 19.5 16.1 24.1



#50

Toluene-d8

Concen: 47.510 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048754.D

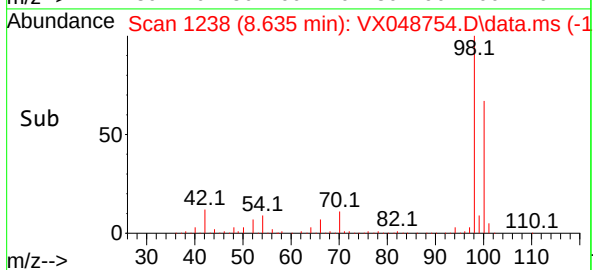
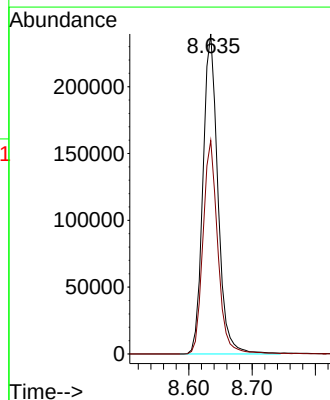
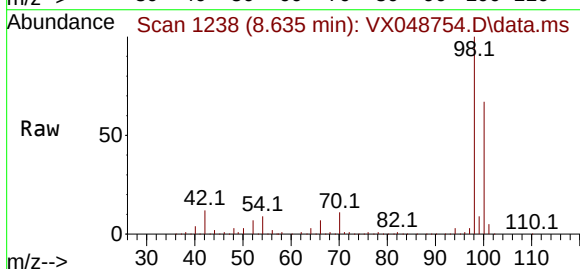
Acq: 08 Dec 2025 14:57

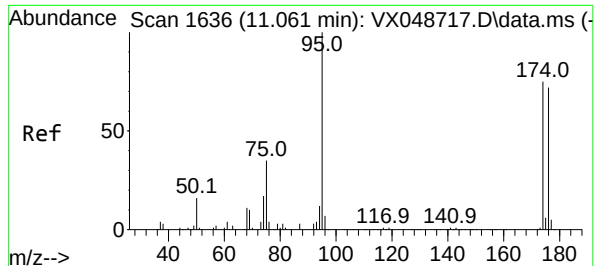
Tgt Ion: 98 Resp: 394240

Ion Ratio Lower Upper

98 100

100 66.0 53.4 80.0





#62

4-Bromofluorobenzene

Concen: 38.618 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048754.D

Acq: 08 Dec 2025 14:57

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425

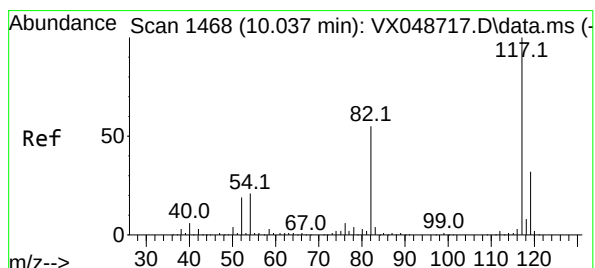
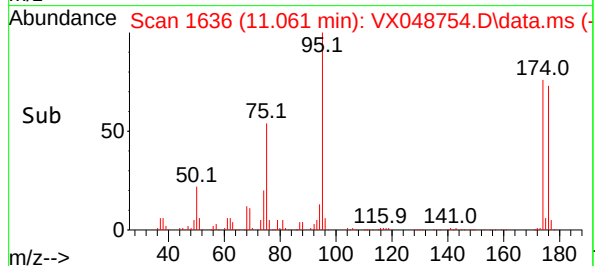
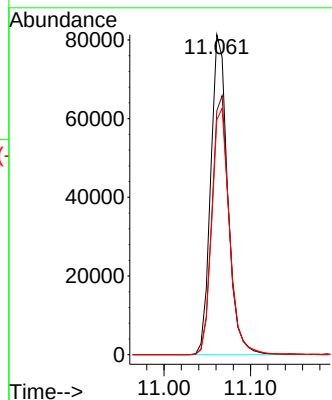
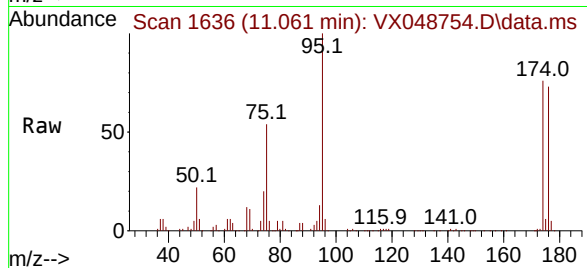
Tgt Ion: 95 Resp: 110501

Ion Ratio Lower Upper

95 100

174 82.6 0.0 157.8

176 79.8 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048754.D

Acq: 08 Dec 2025 14:57

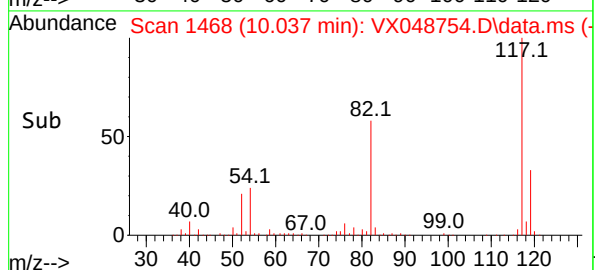
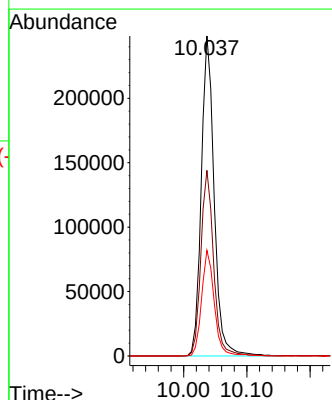
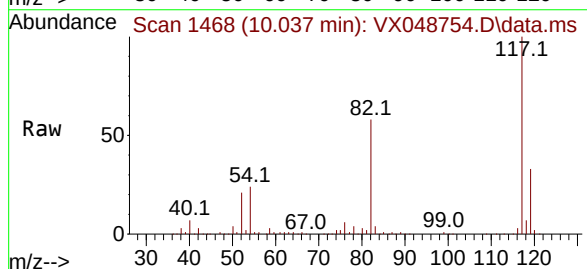
Tgt Ion: 117 Resp: 352510

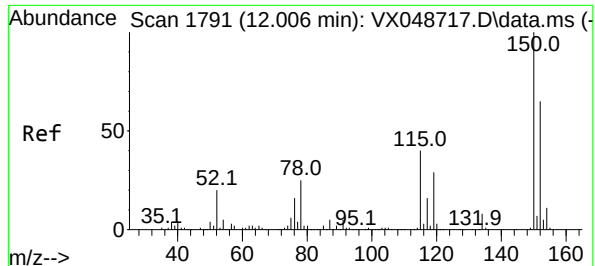
Ion Ratio Lower Upper

117 100

82 58.0 44.1 66.1

119 33.0 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048754.D

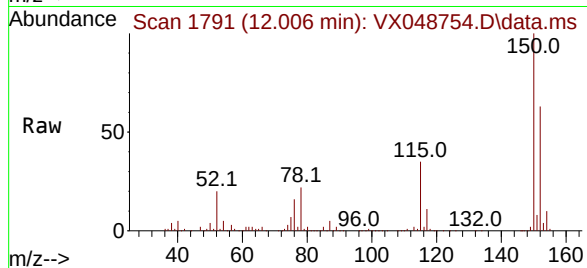
Acq: 08 Dec 2025 14:57

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425



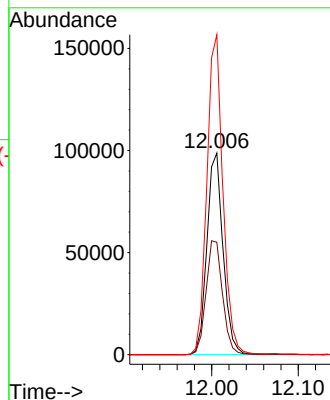
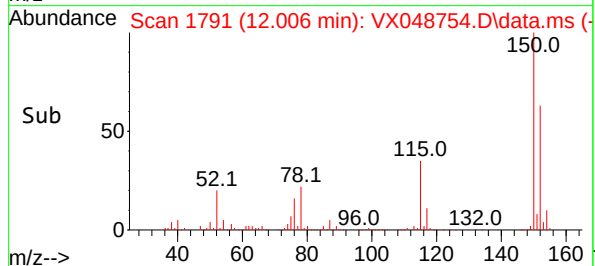
Tgt Ion:152 Resp: 128068

Ion Ratio Lower Upper

152 100

115 57.8 42.1 126.4

150 157.1 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-03B-51.5-120425RE
Lab Sample ID: Q3787-11RE
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 14:30	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:30	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:30	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 14:30	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 14:30	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 14:30	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 14:30	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 14:30	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 14:30	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:30	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.4			70 (74) - 130 (125)	115%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.9			70 (75) - 130 (124)	96%	SPK: 50		
2037-26-5	Toluene-d8	47.4			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	60.9			70 (77) - 130 (121)	122%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	143000							
540-36-3	1,4-Difluorobenzene	299000							
3114-55-4	Chlorobenzene-d5	326000							
3855-82-1	1,4-Dichlorobenzene-d4	173000							

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\VX121025\
 Data File : VX048809.D
 Acq On : 10 Dec 2025 14:30
 Operator : JC/MD
 Sample : Q3787-11RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-03B-51.5-120425RE

Quant Time: Dec 11 00:23:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

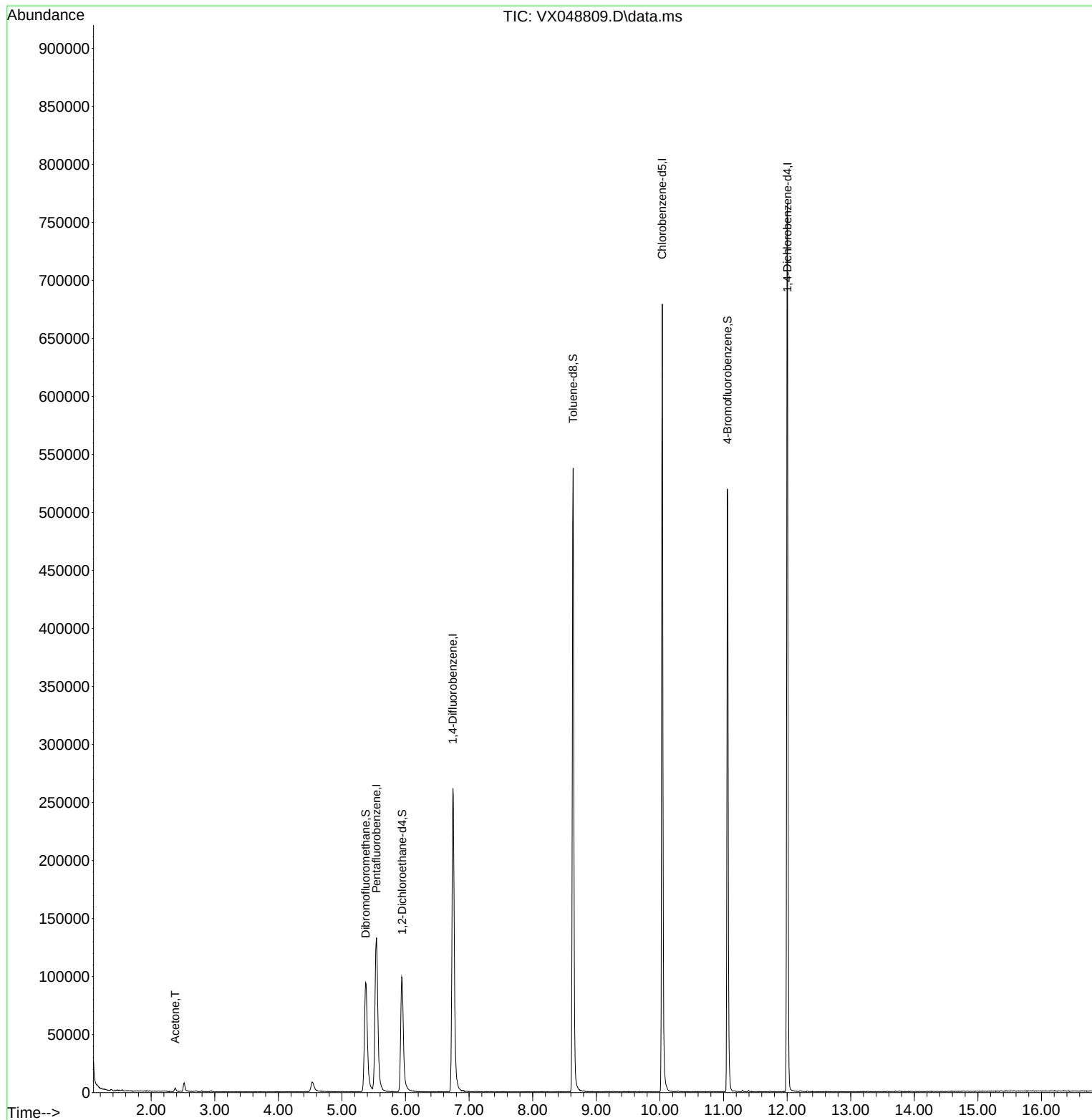
Internal Standards						
1) Pentafluorobenzene	5.544	168	142606	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	299203	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	326420	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	172615	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	109808	57.370	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	114.740%
35) Dibromofluoromethane	5.373	113	98607	47.864	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.720%
50) Toluene-d8	8.635	98	342378	47.412	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.820%
62) 4-Bromofluorobenzene	11.061	95	151770	60.948	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	121.900%
Target Compounds						
16) Acetone	2.380	43	4565	6.230	ug/l	Qvalue 100

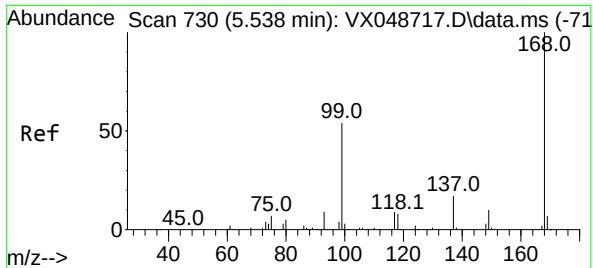
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048809.D
Acq On : 10 Dec 2025 14:30
Operator : JC/MD
Sample : Q3787-11RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425RE

Quant Time: Dec 11 00:23:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX048809.D

Acq: 10 Dec 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

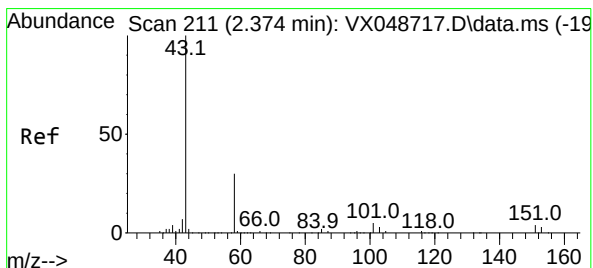
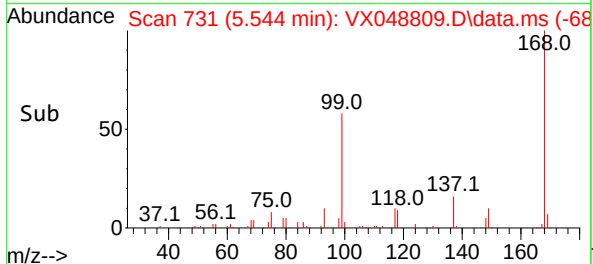
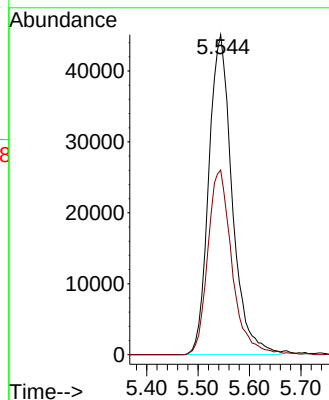
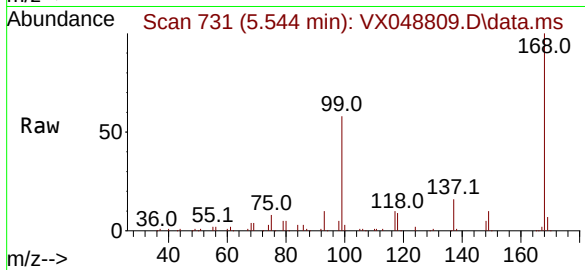
OW-03B-51.5-120425RE

Tgt Ion:168 Resp: 142606

Ion Ratio Lower Upper

168 100

99 57.7 44.2 66.4



#16

Acetone

Concen: 6.230 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048809.D

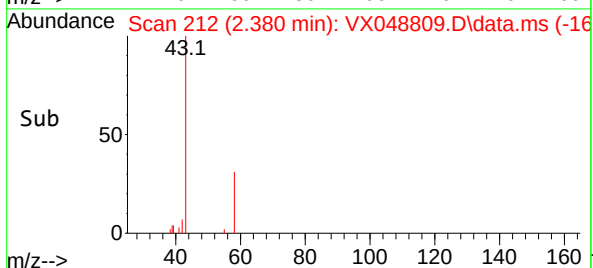
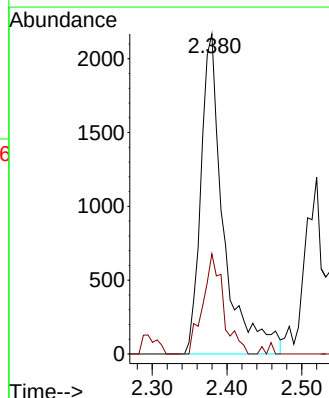
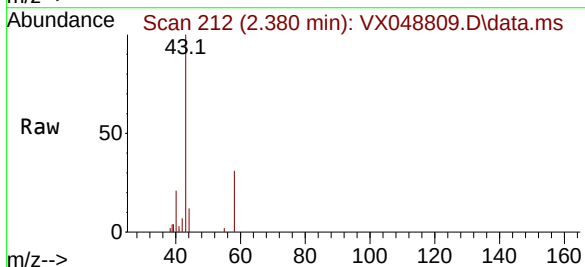
Acq: 10 Dec 2025 14:30

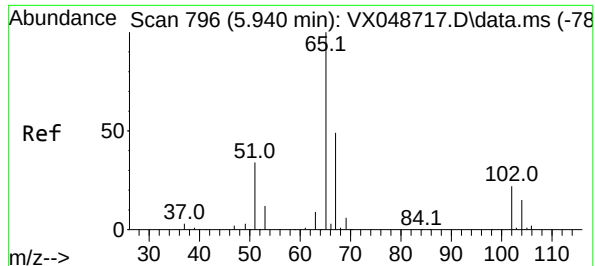
Tgt Ion: 43 Resp: 4565

Ion Ratio Lower Upper

43 100

58 31.3 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 57.370 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048809.D

Acq: 10 Dec 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

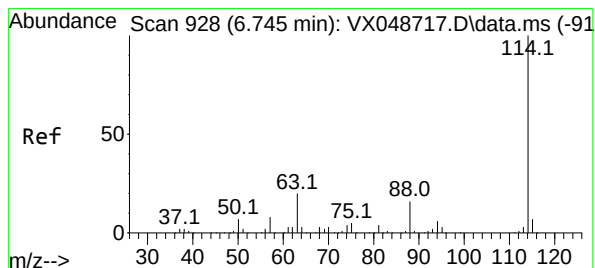
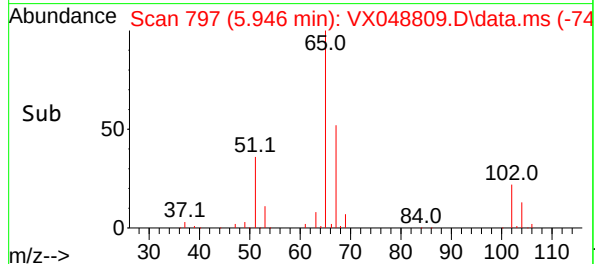
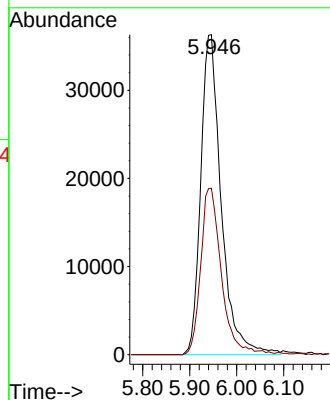
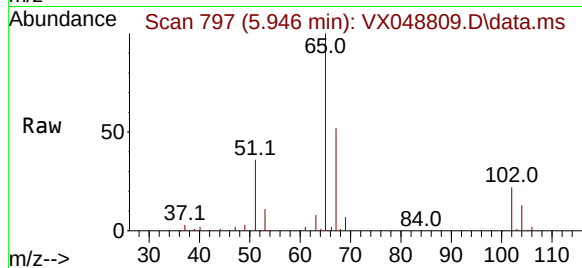
OW-03B-51.5-120425RE

Tgt Ion: 65 Resp: 109808

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX048809.D

Acq: 10 Dec 2025 14:30

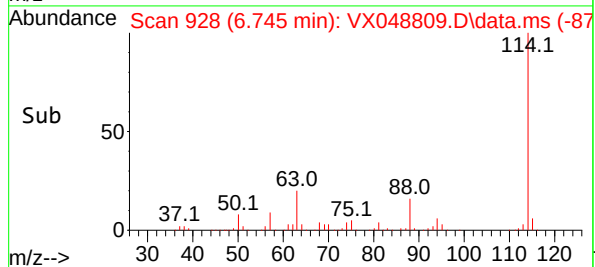
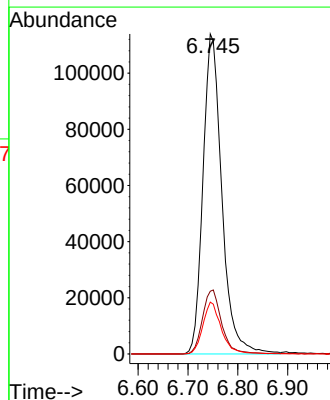
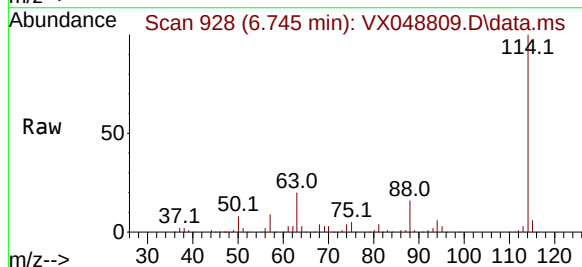
Tgt Ion: 114 Resp: 299203

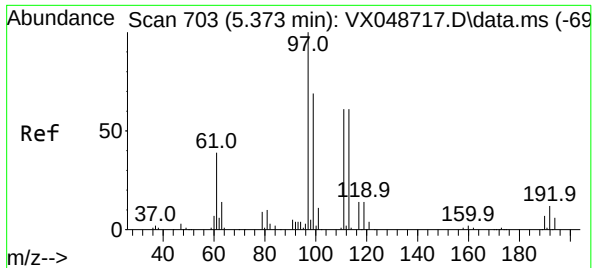
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.864 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048809.D

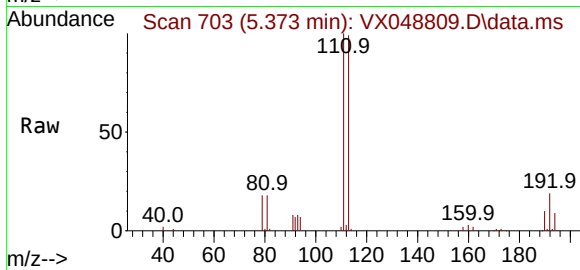
Acq: 10 Dec 2025 14:30

Instrument :

MSVOA_X

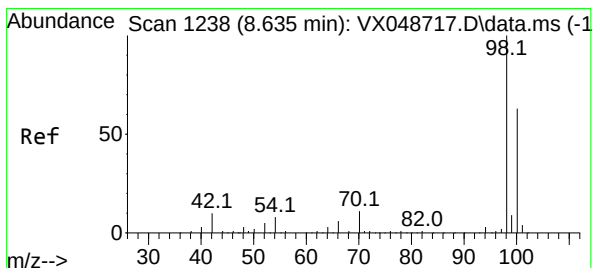
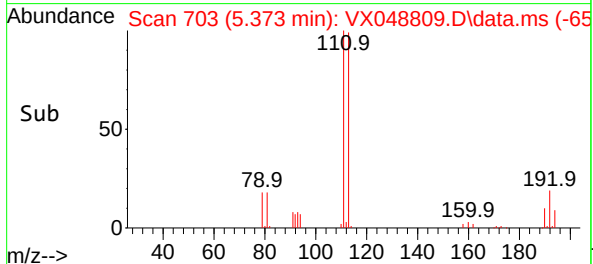
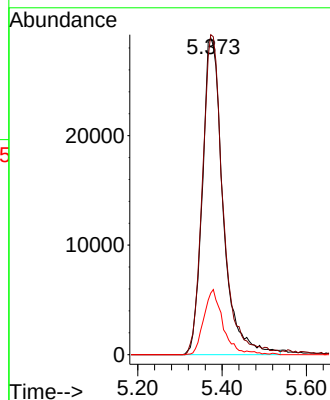
ClientSampleId :

OW-03B-51.5-120425RE



Tgt Ion:113 Resp: 98607

Ion	Ratio	Lower	Upper
113	100		
111	100.8	79.5	119.3
192	18.6	16.1	24.1



#50

Toluene-d8

Concen: 47.412 ug/l

RT: 8.635 min Scan# 1238

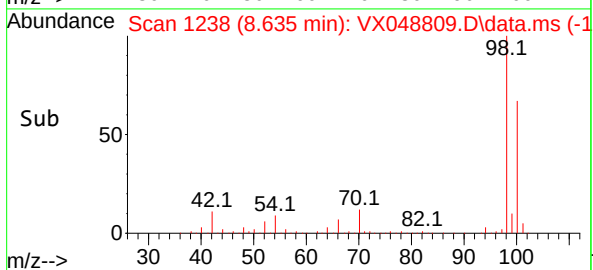
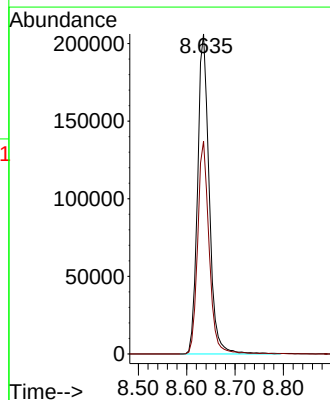
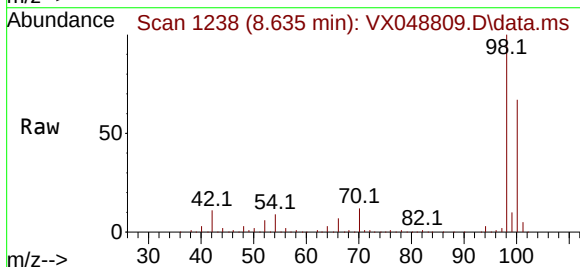
Delta R.T. 0.000 min

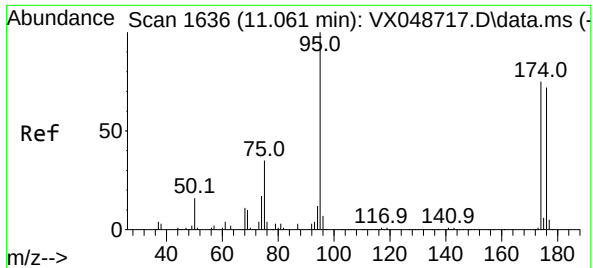
Lab File: VX048809.D

Acq: 10 Dec 2025 14:30

Tgt Ion: 98 Resp: 342378

Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.4	80.0

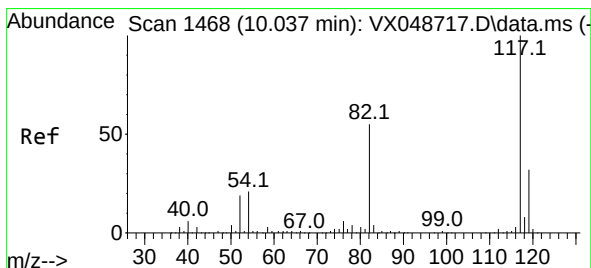
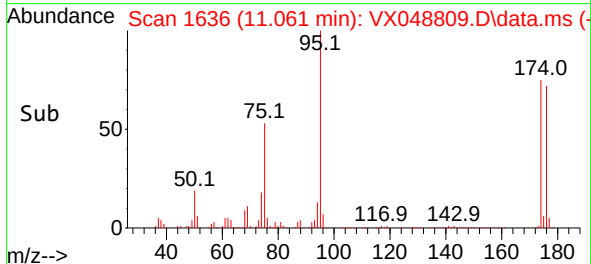
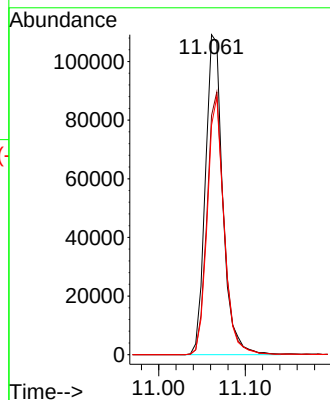
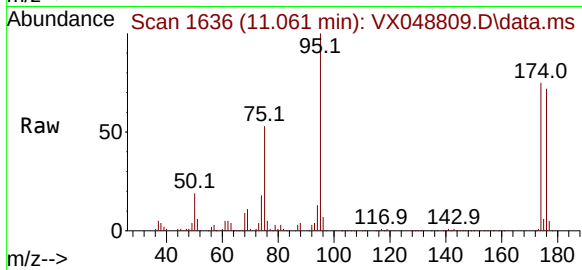




#62
4-Bromofluorobenzene
Concen: 60.948 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048809.D
Acq: 10 Dec 2025 14:30

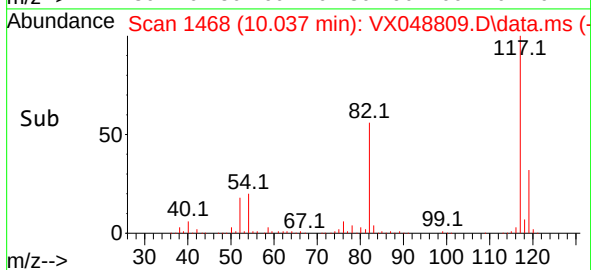
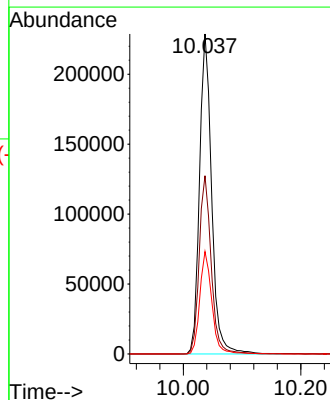
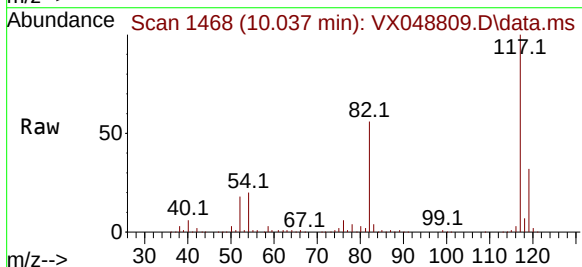
Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425RE

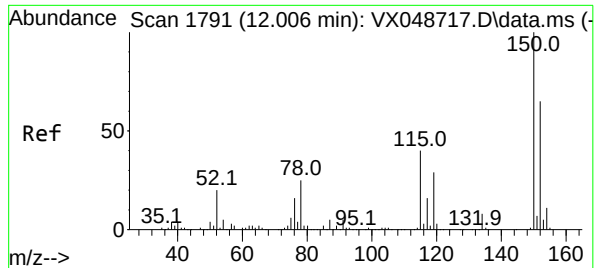
Tgt Ion: 95 Resp: 151770
Ion Ratio Lower Upper
95 100
174 81.1 0.0 157.8
176 77.9 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048809.D
Acq: 10 Dec 2025 14:30

Tgt Ion: 117 Resp: 326420
Ion Ratio Lower Upper
117 100
82 55.7 44.1 66.1
119 32.0 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048809.D

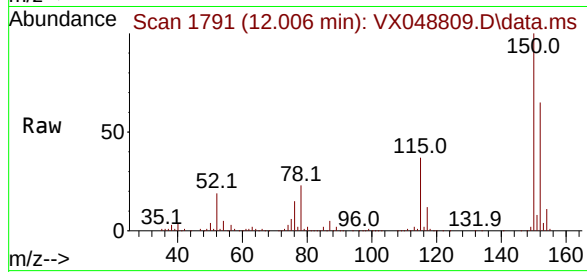
Acq: 10 Dec 2025 14:30

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425RE



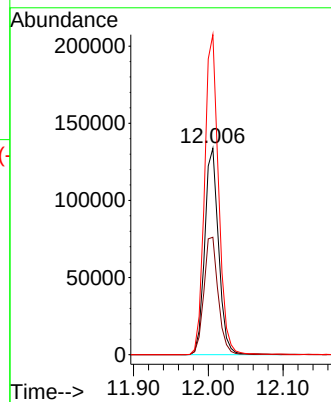
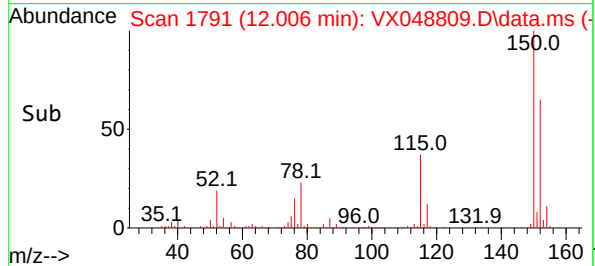
Tgt Ion:152 Resp: 172615

Ion Ratio Lower Upper

152 100

115 58.6 42.1 126.4

150 155.9 0.0 347.8





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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/04/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/04/25
Client Sample ID:	OW-03B-51.5-120425-FD	SDG No.:	Q3787
Lab Sample ID:	Q3787-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 mL	Test:	VOCMS Group3
	Level: LOW		
	Final Vol: 5000 uL		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 15:18	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:18	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:18	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 15:18	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 15:18	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 15:18	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 15:18	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 15:18	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 15:18	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:18	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	70.1	*		70 (74) - 130 (125)	140%	SPK: 50		
1868-53-7	Dibromofluoromethane	62.4			70 (75) - 130 (124)	125%	SPK: 50		
2037-26-5	Toluene-d8	48.3			70 (86) - 130 (113)	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	77.6	*		70 (77) - 130 (121)	155%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	122000							
540-36-3	1,4-Difluorobenzene	204000							
3114-55-4	Chlorobenzene-d5	259000							
3855-82-1	1,4-Dichlorobenzene-d4	118000							

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\VX120825\
 Data File : VX048755.D
 Acq On : 08 Dec 2025 15:18
 Operator : JC/MD
 Sample : Q3787-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-03B-51.5-120425-FD

Quant Time: Dec 09 04:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

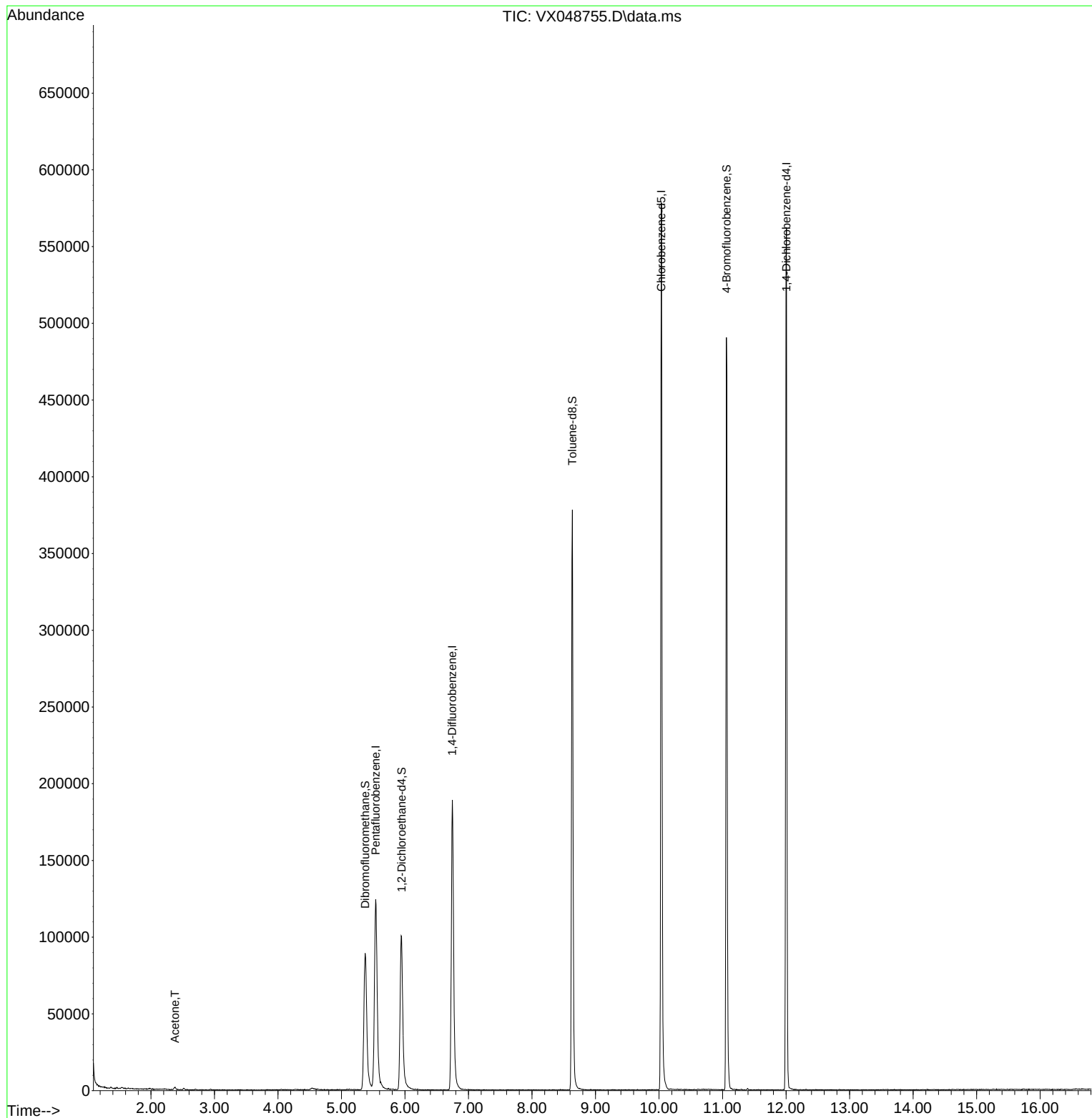
Internal Standards						
1) Pentafluorobenzene	5.538	168	121788	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.745	114	204088	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	259488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	118375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	114522	70.060	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 140.120%#		
35) Dibromofluoromethane	5.373	113	87733	62.433	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 124.860%#		
50) Toluene-d8	8.635	98	237814	48.280	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 96.560%		
62) 4-Bromofluorobenzene	11.061	95	131784	77.586	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 155.180%#		
Target Compounds						Qvalue
16) Acetone	2.380	43	2363	3.776	ug/l	97

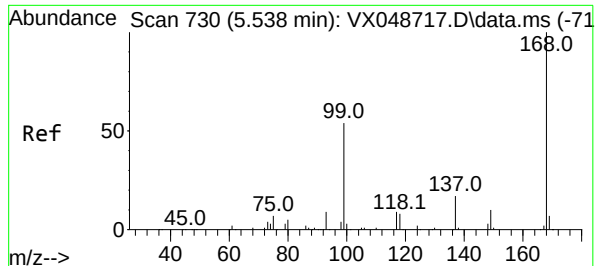
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048755.D
Acq On : 08 Dec 2025 15:18
Operator : JC/MD
Sample : Q3787-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425-FD

Quant Time: Dec 09 04:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

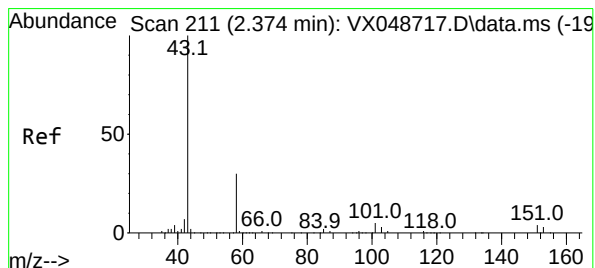
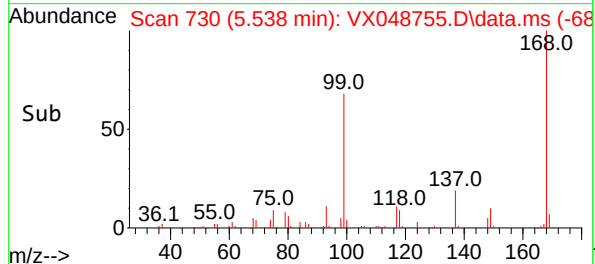
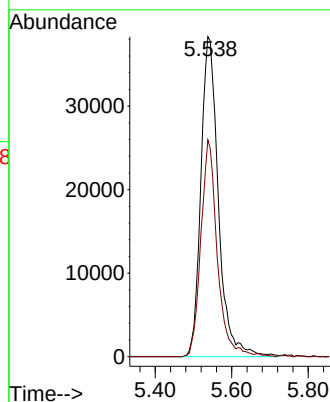
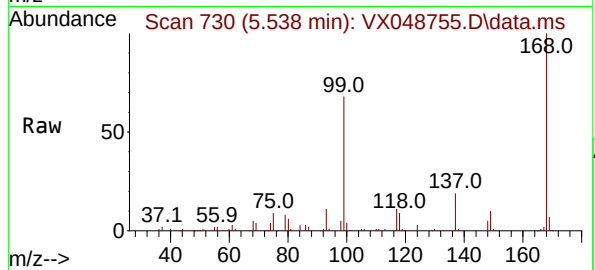




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048755.D
Acq: 08 Dec 2025 15:18

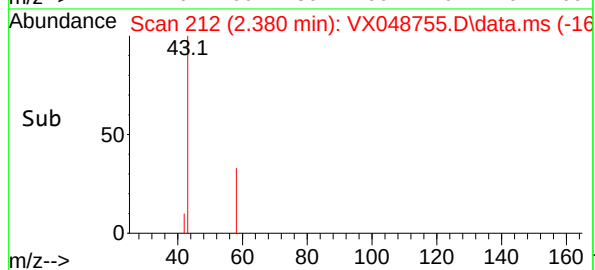
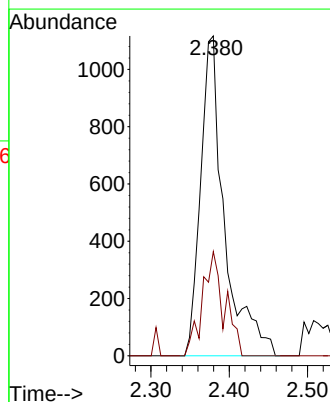
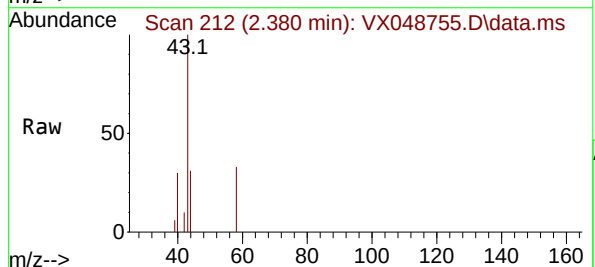
Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425-FD

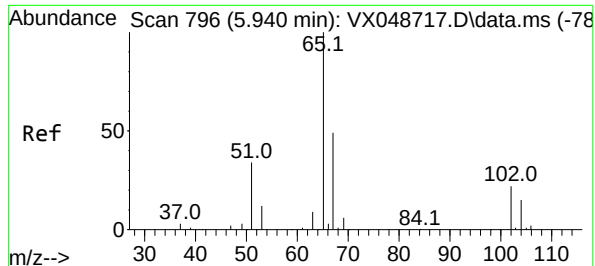
Tgt Ion:168 Resp: 121788
Ion Ratio Lower Upper
168 100
99 67.8 44.2 66.4#



#16
Acetone
Concen: 3.776 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048755.D
Acq: 08 Dec 2025 15:18

Tgt Ion: 43 Resp: 2363
Ion Ratio Lower Upper
43 100
58 32.6 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 70.060 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048755.D

Acq: 08 Dec 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

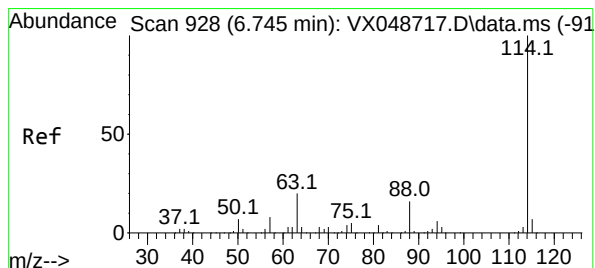
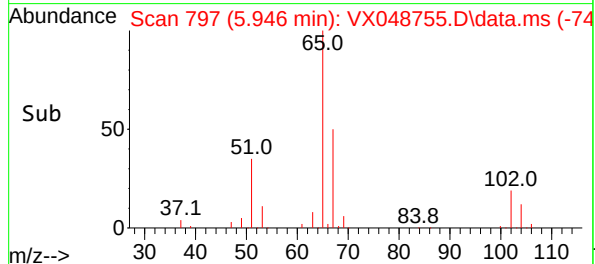
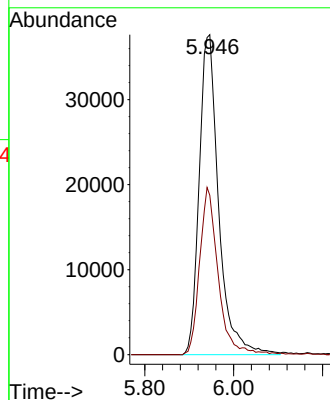
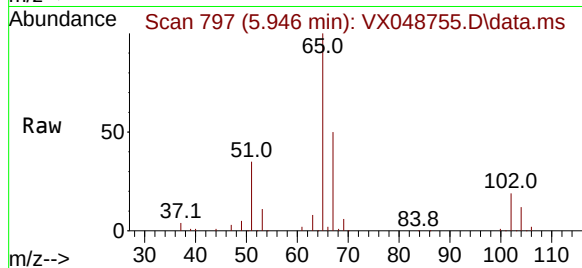
OW-03B-51.5-120425-FD

Tgt Ion: 65 Resp: 114522

Ion Ratio Lower Upper

65 100

67 50.0 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048755.D

Acq: 08 Dec 2025 15:18

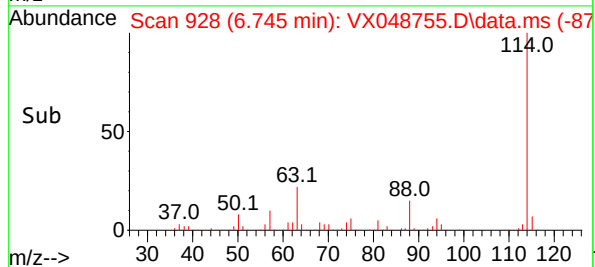
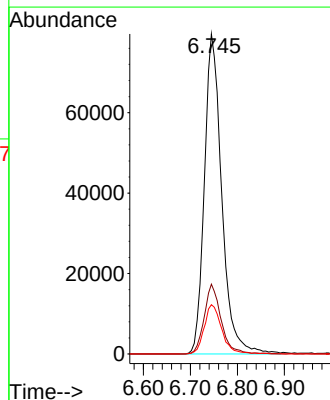
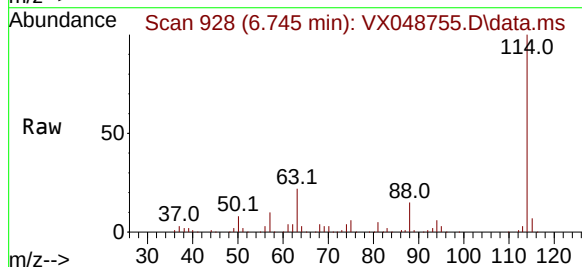
Tgt Ion: 114 Resp: 204088

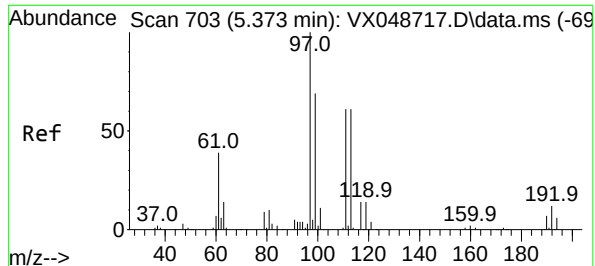
Ion Ratio Lower Upper

114 100

63 21.8 0.0 39.0

88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 62.433 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048755.D

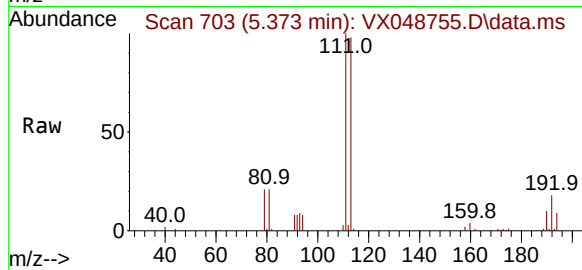
Acq: 08 Dec 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425-FD



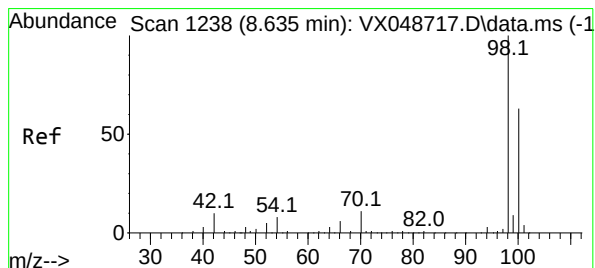
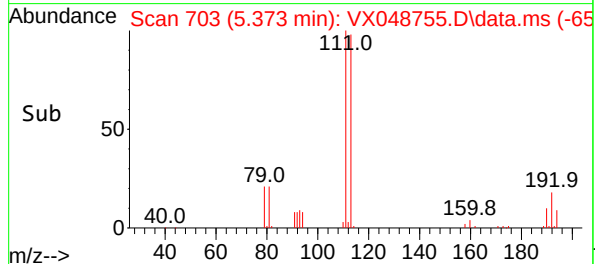
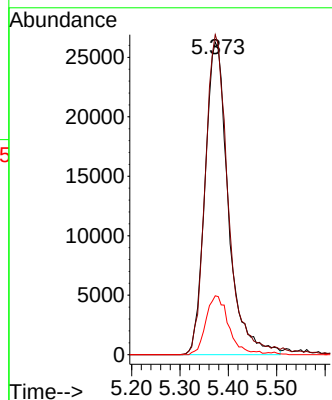
Tgt Ion:113 Resp: 87733

Ion Ratio Lower Upper

113 100

111 101.8 79.5 119.3

192 18.6 16.1 24.1



#50

Toluene-d8

Concen: 48.280 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048755.D

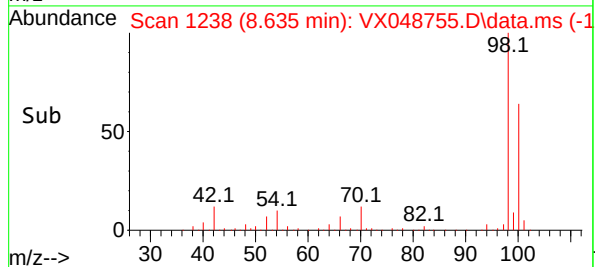
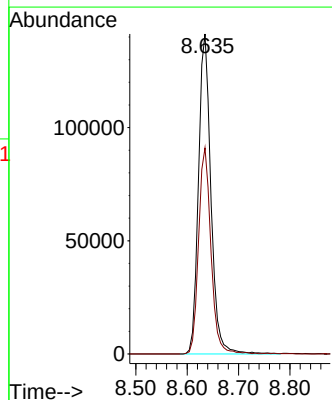
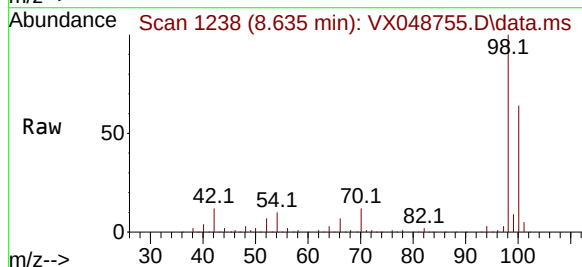
Acq: 08 Dec 2025 15:18

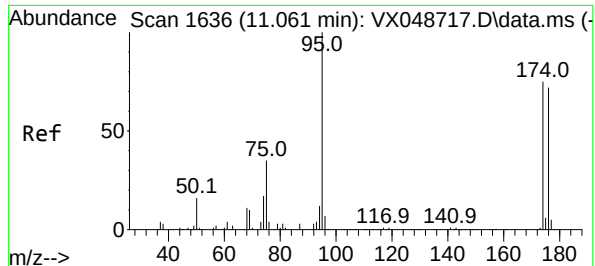
Tgt Ion: 98 Resp: 237814

Ion Ratio Lower Upper

98 100

100 64.0 53.4 80.0





#62

4-Bromofluorobenzene

Concen: 77.586 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048755.D

Acq: 08 Dec 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425-FD

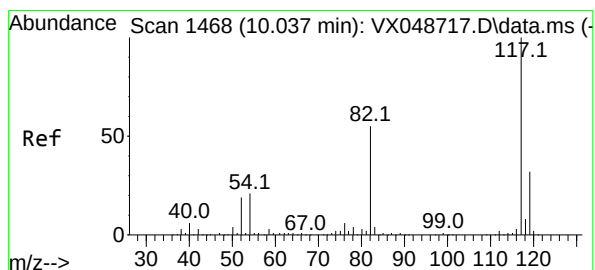
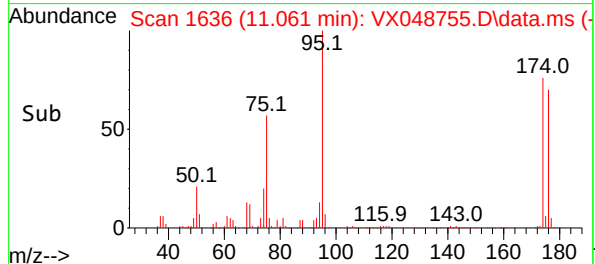
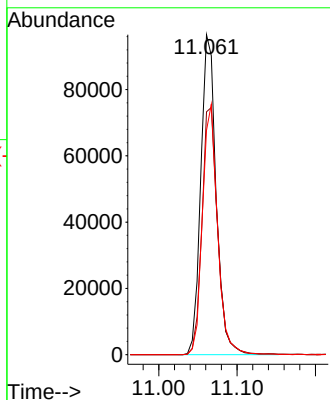
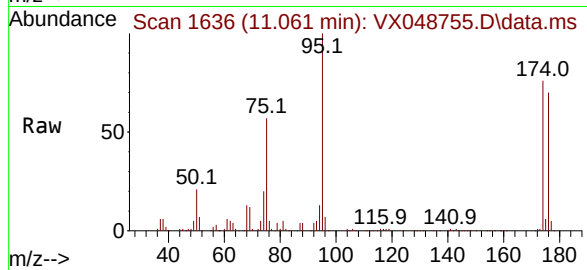
Tgt Ion: 95 Resp: 131784

Ion Ratio Lower Upper

95 100

174 78.5 0.0 157.8

176 77.0 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048755.D

Acq: 08 Dec 2025 15:18

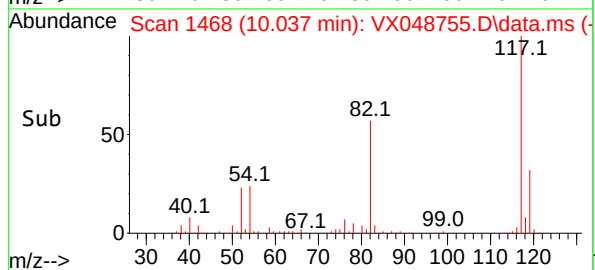
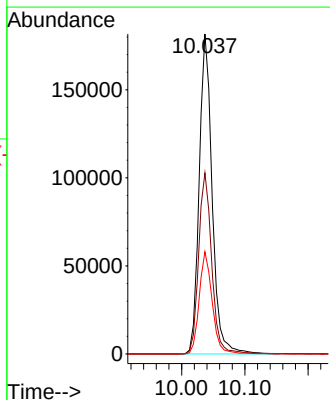
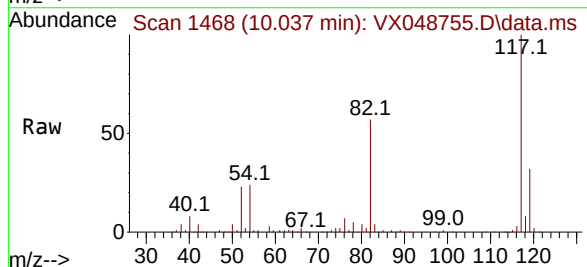
Tgt Ion: 117 Resp: 259488

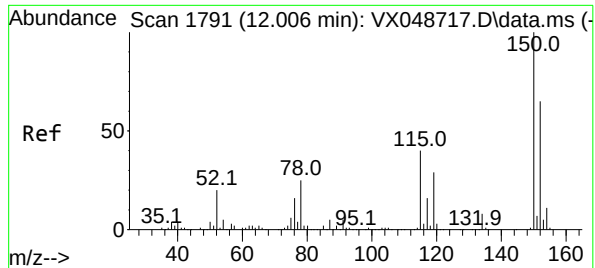
Ion Ratio Lower Upper

117 100

82 56.6 44.1 66.1

119 32.0 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048755.D

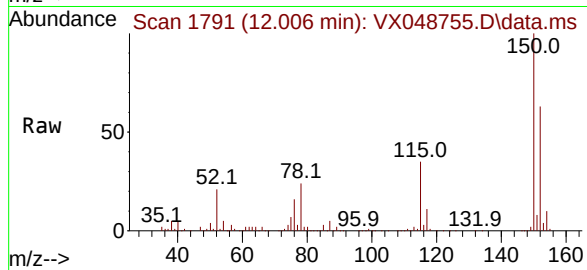
Acq: 08 Dec 2025 15:18

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425-FD



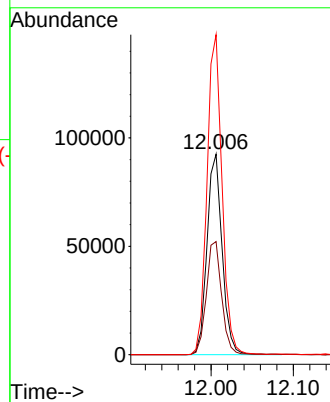
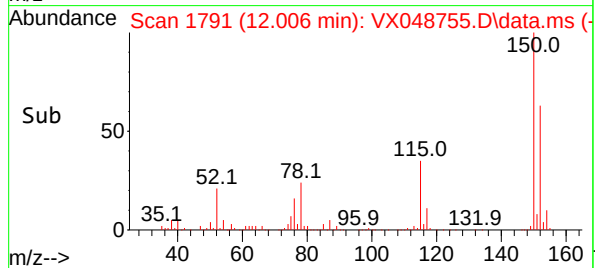
Tgt Ion:152 Resp: 118375

Ion Ratio Lower Upper

152 100

115 57.2 42.1 126.4

150 158.2 0.0 347.8





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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/04/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/04/25
Client Sample ID:	OW-03B-51.5-120425-FDR	SDG No.:	Q3787
Lab Sample ID:	Q3787-13RE	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 mL	Level:	LOW
		Final Vol:	5000 uL
		Test:	VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 14:51	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:51	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:51	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 14:51	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 14:51	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 14:51	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 14:51	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 14:51	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 14:51	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 14:51	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.7			70 (74) - 130 (125)	123%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.8			70 (75) - 130 (124)	98%	SPK: 50		
2037-26-5	Toluene-d8	48.6			70 (86) - 130 (113)	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	62.6			70 (77) - 130 (121)	125%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	152000							
540-36-3	1,4-Difluorobenzene	320000							
3114-55-4	Chlorobenzene-d5	355000							
3855-82-1	1,4-Dichlorobenzene-d4	185000							

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\VX121025\
 Data File : VX048810.D
 Acq On : 10 Dec 2025 14:51
 Operator : JC/MD
 Sample : Q3787-13RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-03B-51.5-120425-FDRE

Quant Time: Dec 11 00:23:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

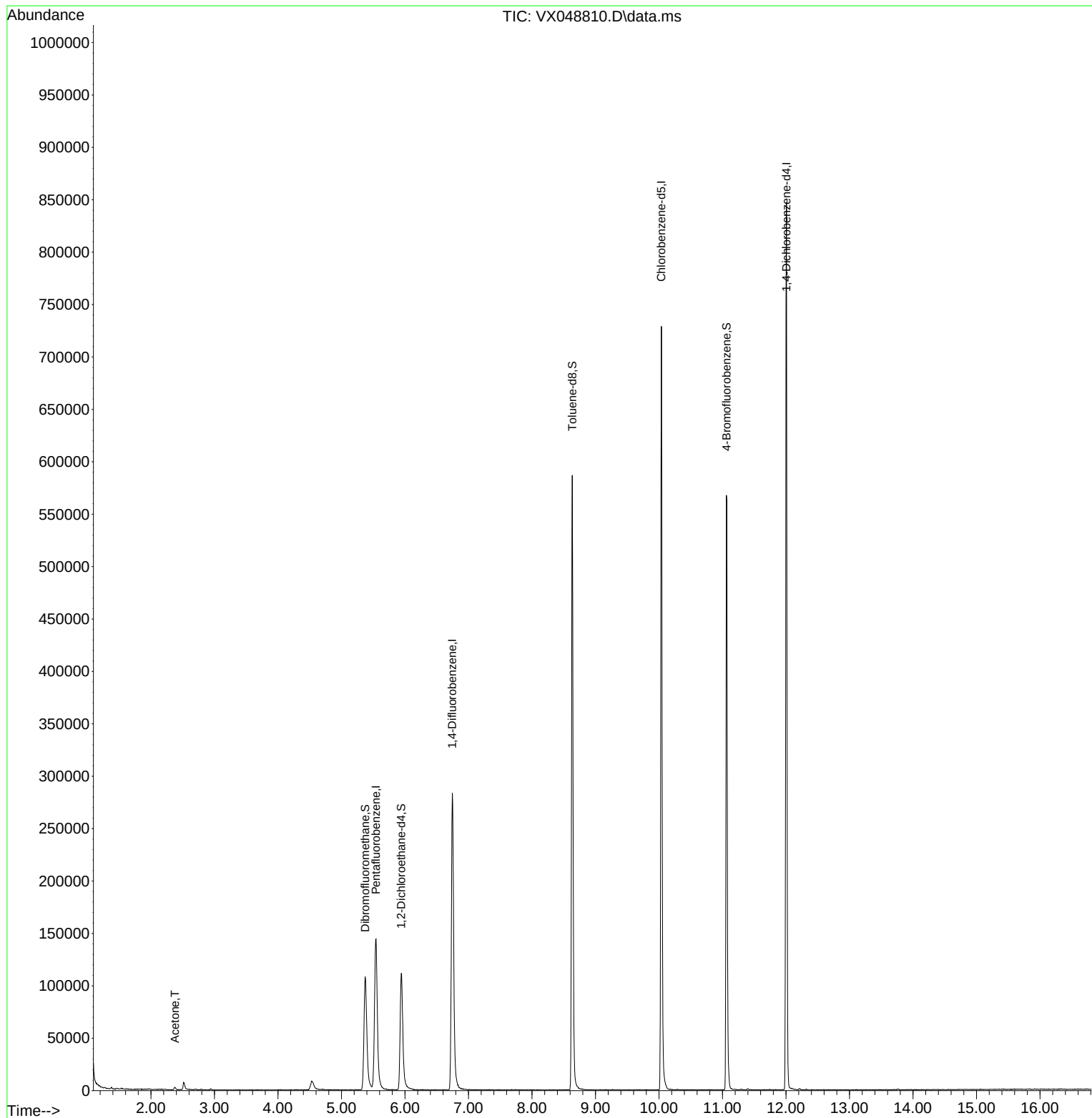
Internal Standards						
1) Pentafluorobenzene	5.544	168	152091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	320261	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	354570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	184719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	125850	61.651	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 123.300%#	
35) Dibromofluoromethane	5.373	113	107682	48.833	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.660%	
50) Toluene-d8	8.635	98	375438	48.571	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 97.140%	
62) 4-Bromofluorobenzene	11.061	95	166905	62.619	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 125.240%#	
Target Compounds						
16) Acetone	2.380	43	3269	4.183	ug/l	98

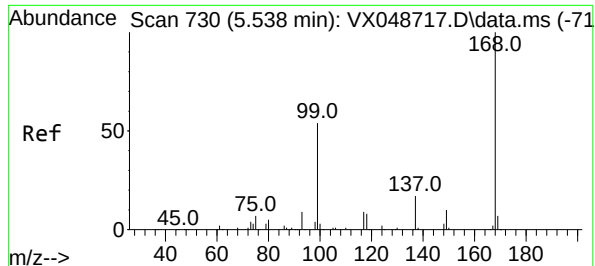
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048810.D
Acq On : 10 Dec 2025 14:51
Operator : JC/MD
Sample : Q3787-13RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425-FDRE

Quant Time: Dec 11 00:23:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

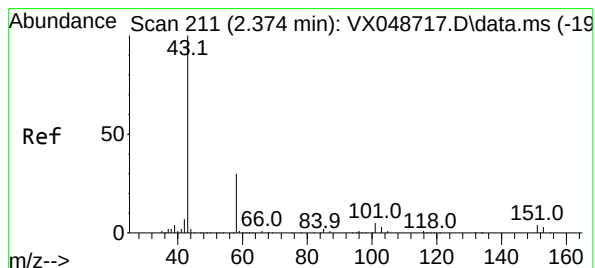
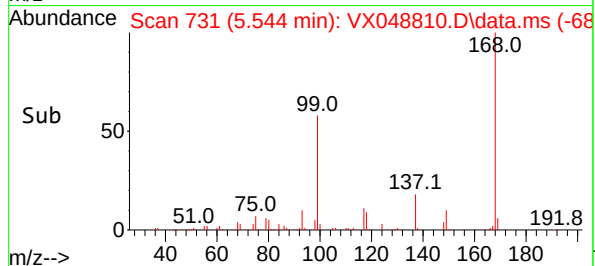
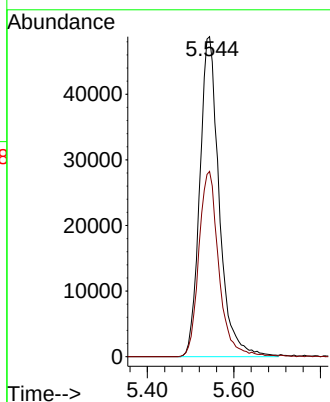
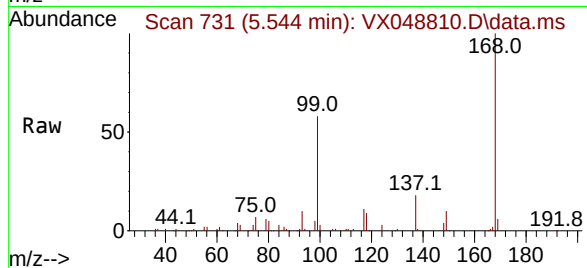




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048810.D
Acq: 10 Dec 2025 14:51

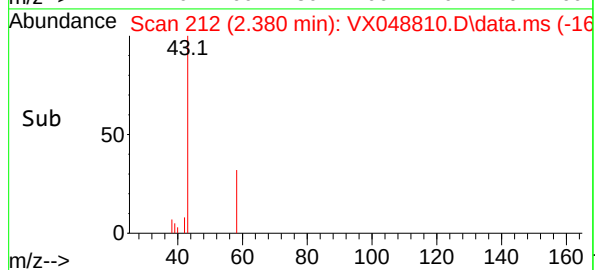
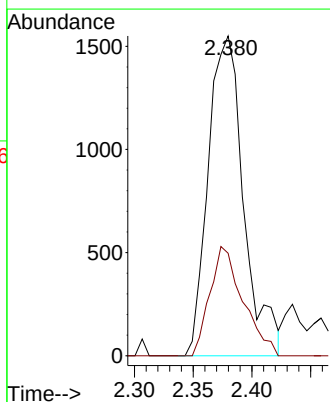
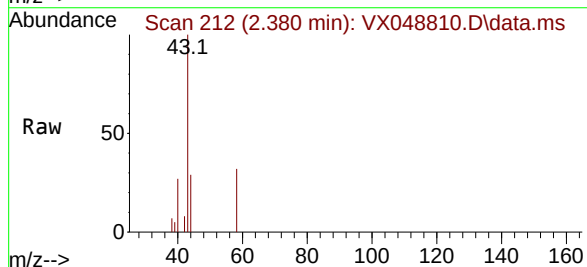
Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425-FDRE

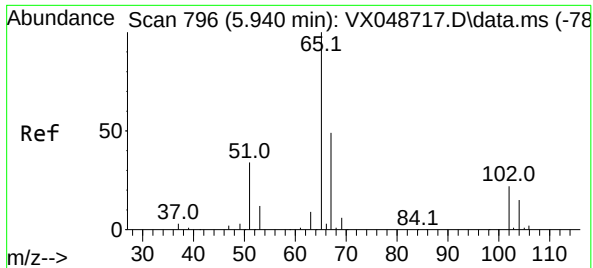
Tgt Ion:168 Resp: 152091
Ion Ratio Lower Upper
168 100
99 57.9 44.2 66.4



#16
Acetone
Concen: 4.183 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048810.D
Acq: 10 Dec 2025 14:51

Tgt Ion: 43 Resp: 3269
Ion Ratio Lower Upper
43 100
58 32.1 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 61.651 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048810.D

Acq: 10 Dec 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

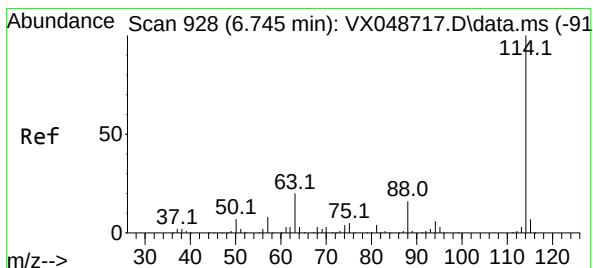
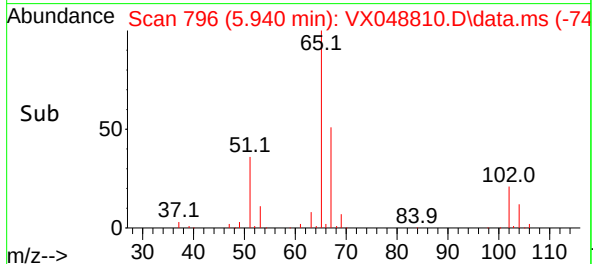
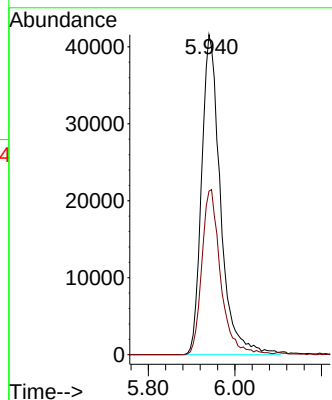
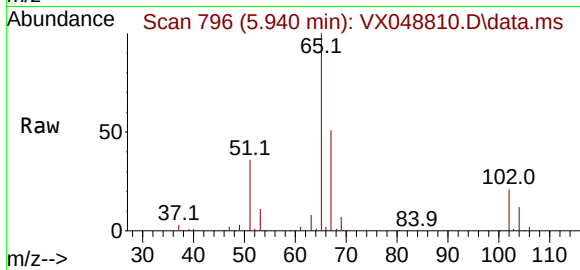
OW-03B-51.5-120425-FDRE

Tgt Ion: 65 Resp: 125850

Ion Ratio Lower Upper

65 100

67 51.4 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX048810.D

Acq: 10 Dec 2025 14:51

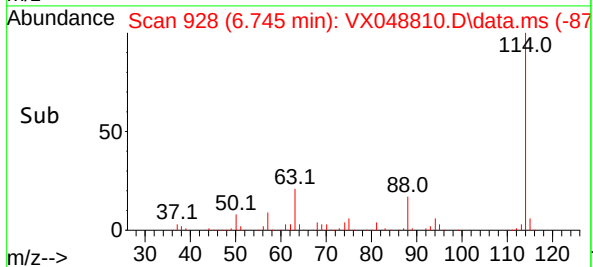
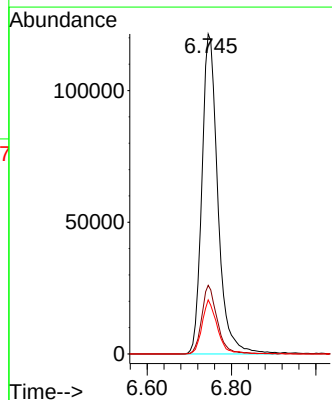
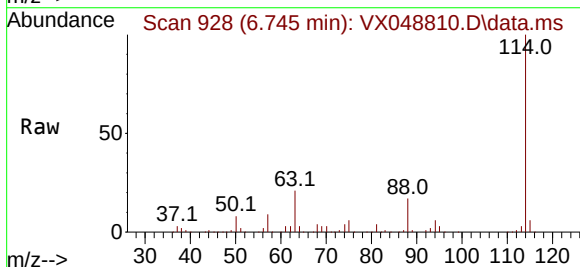
Tgt Ion: 114 Resp: 320261

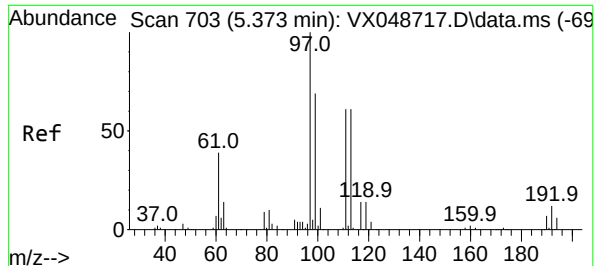
Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.0

88 16.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.833 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048810.D

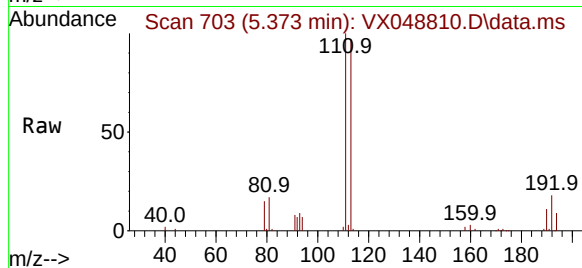
Acq: 10 Dec 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425-FDRE



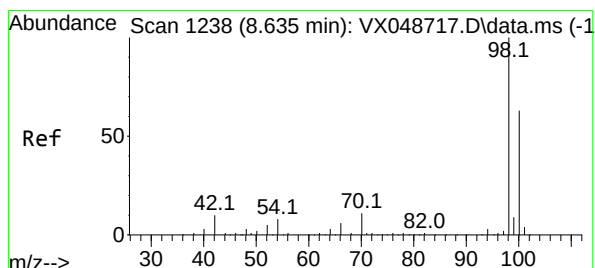
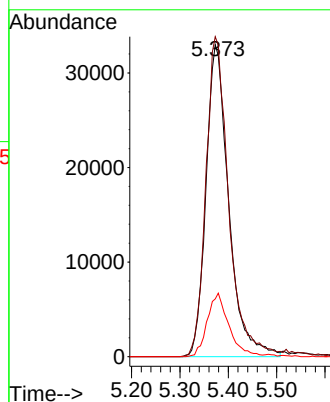
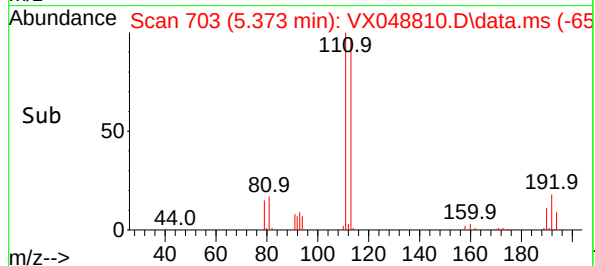
Tgt Ion:113 Resp: 107682

Ion Ratio Lower Upper

113 100

111 102.7 79.5 119.3

192 19.4 16.1 24.1



#50

Toluene-d8

Concen: 48.571 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX048810.D

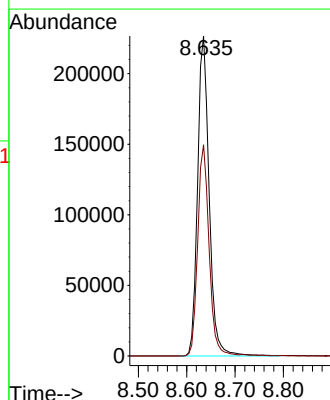
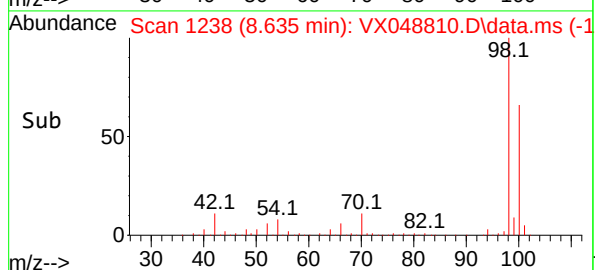
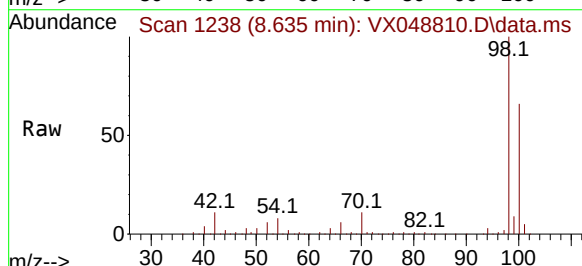
Acq: 10 Dec 2025 14:51

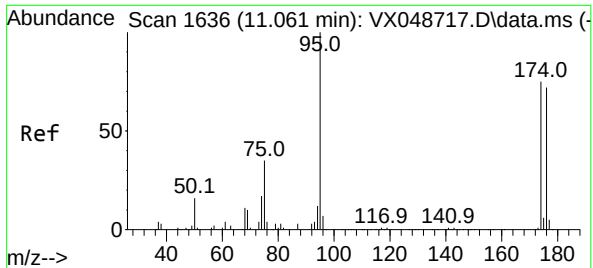
Tgt Ion: 98 Resp: 375438

Ion Ratio Lower Upper

98 100

100 65.3 53.4 80.0

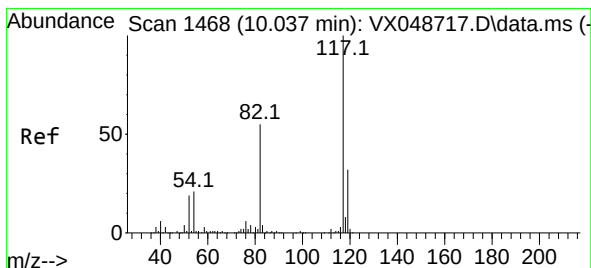
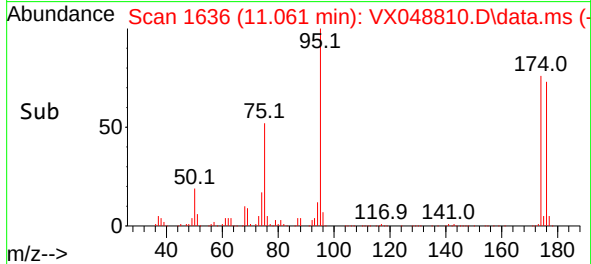
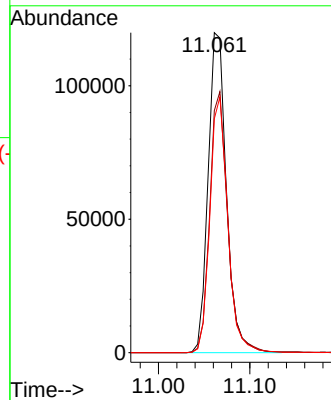
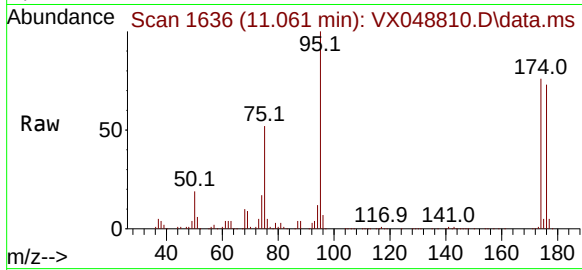




#62
4-Bromofluorobenzene
Concen: 62.619 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX048810.D
Acq: 10 Dec 2025 14:51

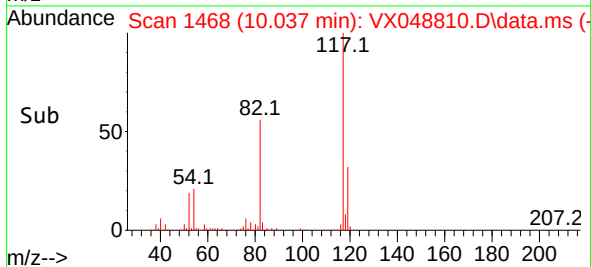
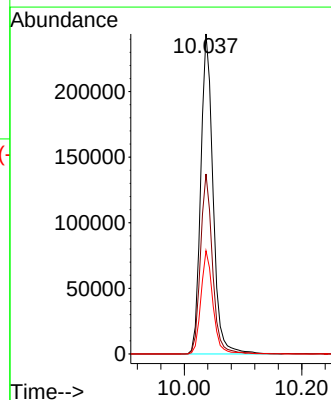
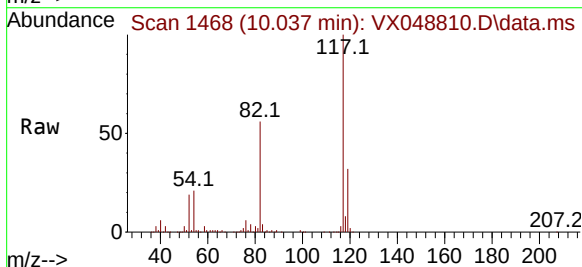
Instrument :
MSVOA_X
ClientSampleId :
OW-03B-51.5-120425-FDRE

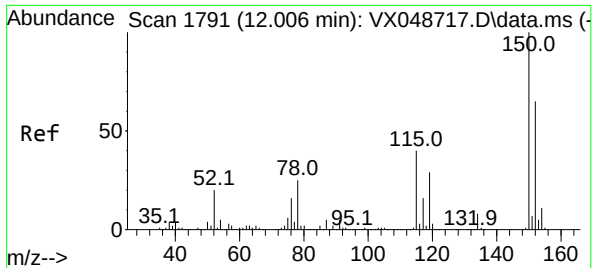
Tgt Ion: 95 Resp: 166905
Ion Ratio Lower Upper
95 100
174 80.1 0.0 157.8
176 78.2 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048810.D
Acq: 10 Dec 2025 14:51

Tgt Ion: 117 Resp: 354570
Ion Ratio Lower Upper
117 100
82 56.2 44.1 66.1
119 32.2 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048810.D

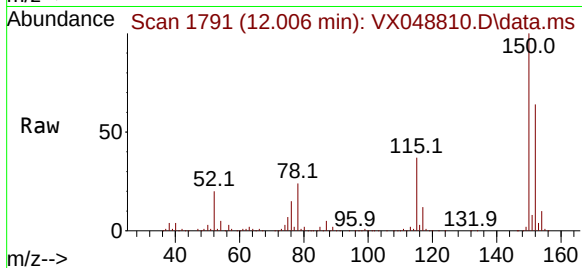
Acq: 10 Dec 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

OW-03B-51.5-120425-FDRE



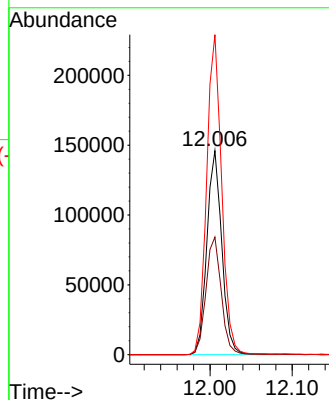
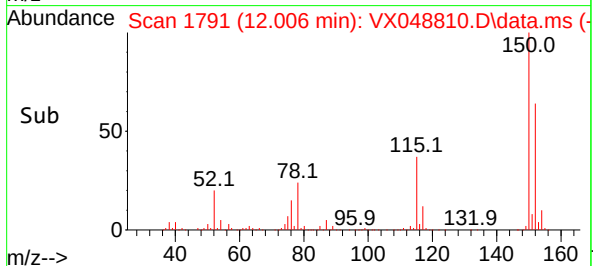
Tgt Ion:152 Resp: 184719

Ion Ratio Lower Upper

152 100

115 59.1 42.1 126.4

150 157.2 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-08B-72.5-120425
Lab Sample ID: Q3787-15
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 15:38	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:38	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:38	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 15:38	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 15:38	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 15:38	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 15:38	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 15:38	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 15:38	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:38	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	47.1			70 (74) - 130 (125)	94%	SPK: 50		
1868-53-7	Dibromofluoromethane	59.8			70 (75) - 130 (124)	120%	SPK: 50		
2037-26-5	Toluene-d8	48.0			70 (86) - 130 (113)	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	59.0			70 (77) - 130 (121)	118%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	125000							
540-36-3	1,4-Difluorobenzene	211000							
3114-55-4	Chlorobenzene-d5	312000							
3855-82-1	1,4-Dichlorobenzene-d4	120000							

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\VX120825\
 Data File : VX048756.D
 Acq On : 08 Dec 2025 15:38
 Operator : JC/MD
 Sample : Q3787-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-08B-72.5-120425

Quant Time: Dec 09 04:11:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

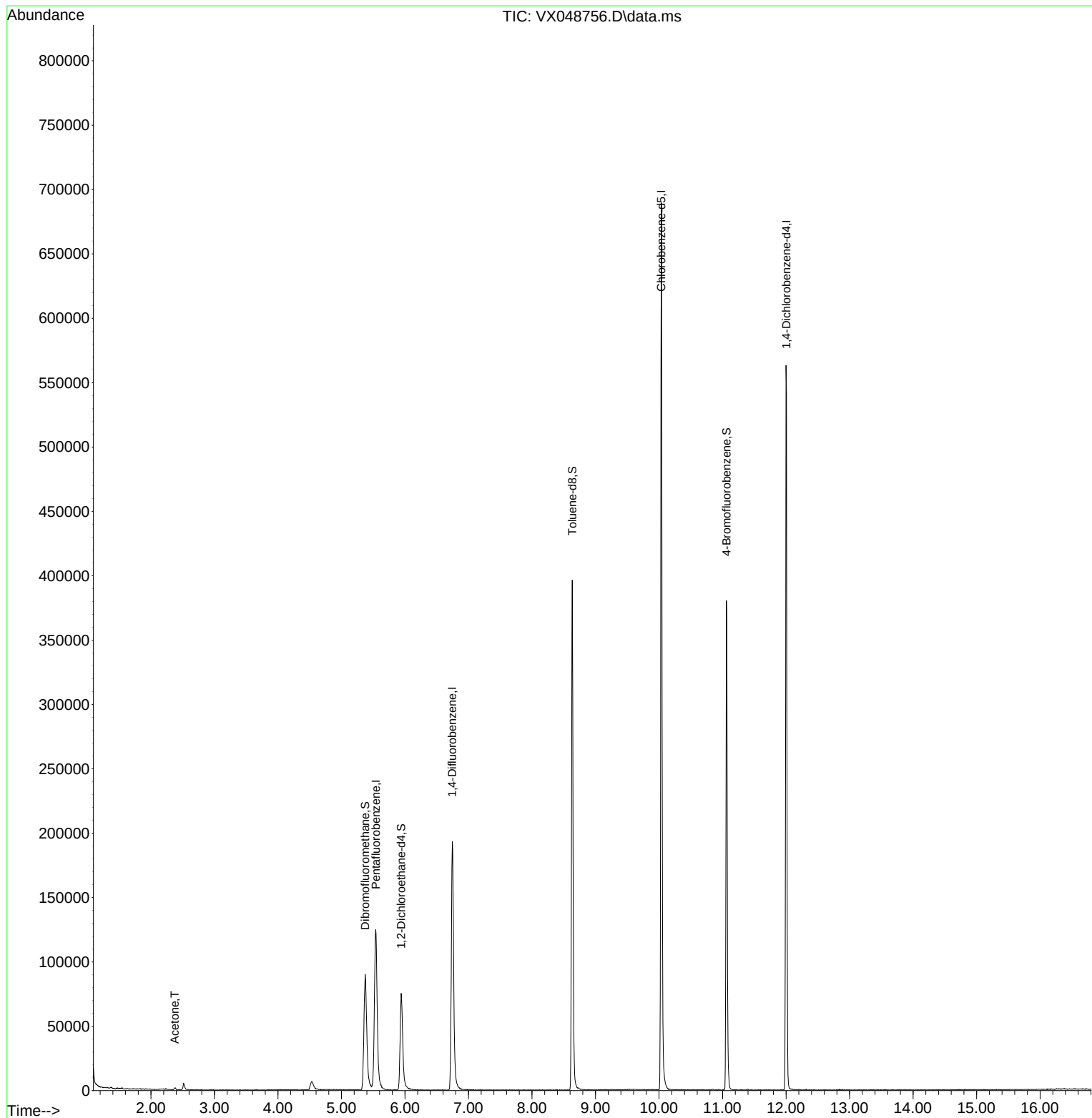
Internal Standards						
1) Pentafluorobenzene	5.544	168	124545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	210799	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	312315	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119855	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	78747	47.108	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	94.220%
35) Dibromofluoromethane	5.373	113	86750	59.769	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	119.540%
50) Toluene-d8	8.635	98	244119	47.982	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.960%
62) 4-Bromofluorobenzene	11.061	95	103491	58.989	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	117.980%
Target Compounds						
16) Acetone	2.374	43	2204	3.444	ug/l	97

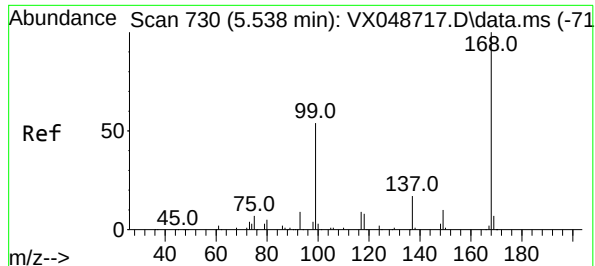
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048756.D
Acq On : 08 Dec 2025 15:38
Operator : JC/MD
Sample : Q3787-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425

Quant Time: Dec 09 04:11:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

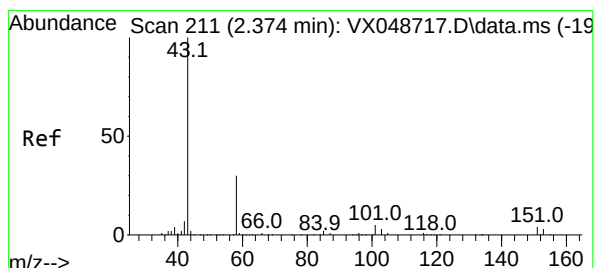
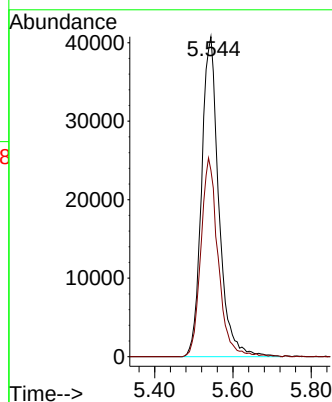
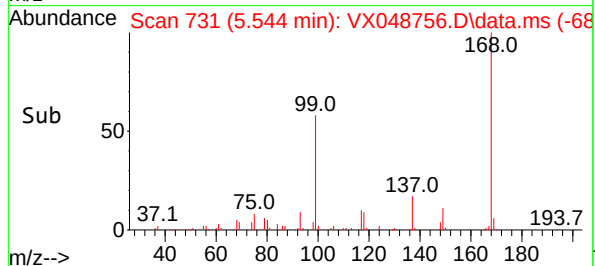
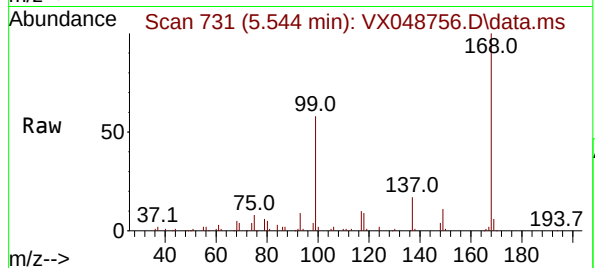




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048756.D
Acq: 08 Dec 2025 15:38

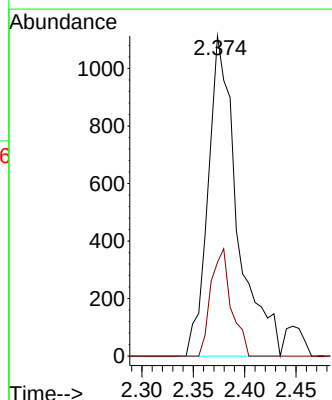
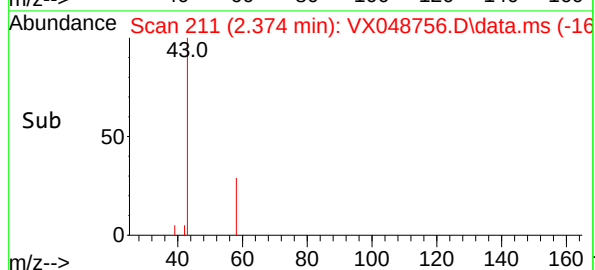
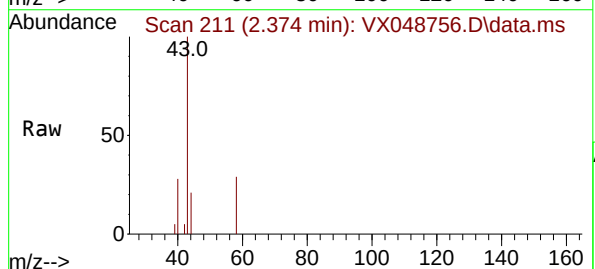
Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425

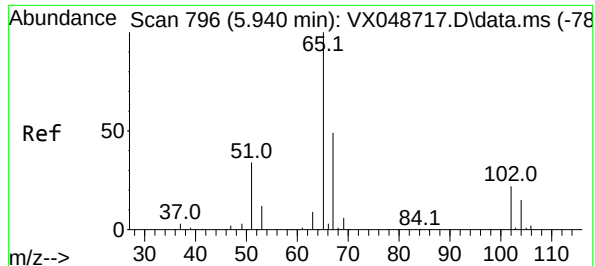
Tgt Ion:168 Resp: 124545
Ion Ratio Lower Upper
168 100
99 58.2 44.2 66.4



#16
Acetone
Concen: 3.444 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048756.D
Acq: 08 Dec 2025 15:38

Tgt Ion: 43 Resp: 2204
Ion Ratio Lower Upper
43 100
58 29.3 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 47.108 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048756.D

Acq: 08 Dec 2025 15:38

Instrument :

MSVOA_X

ClientSampleId :

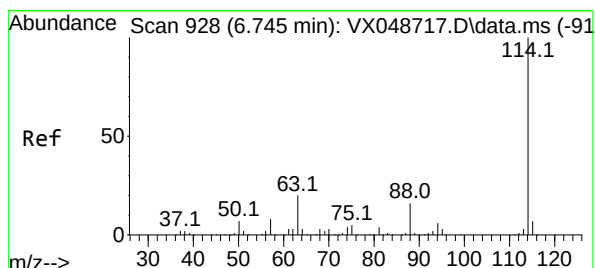
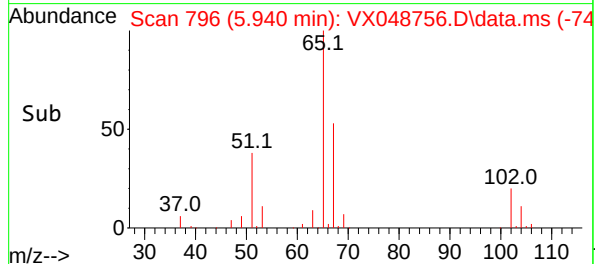
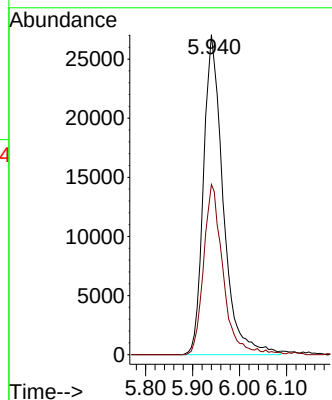
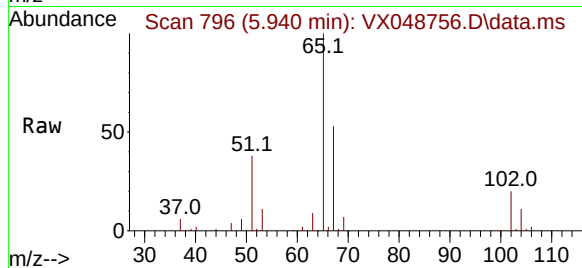
OW-08B-72.5-120425

Tgt Ion: 65 Resp: 78747

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048756.D

Acq: 08 Dec 2025 15:38

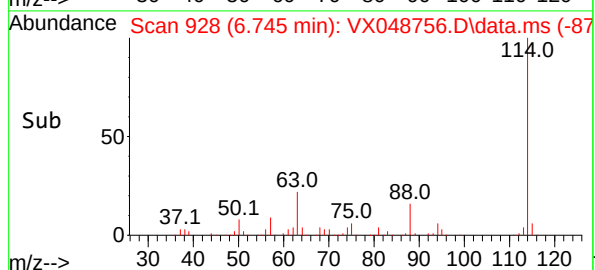
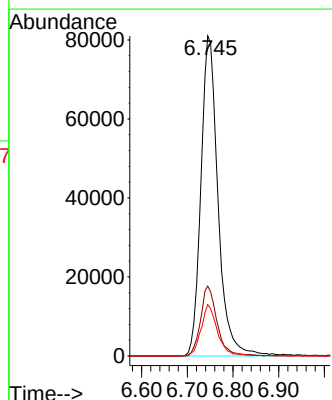
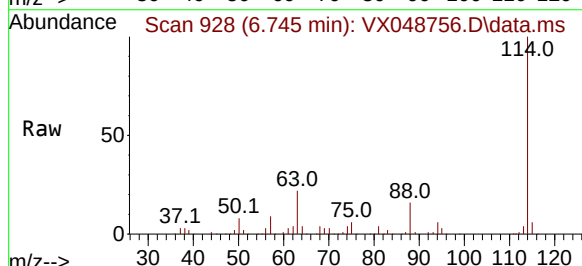
Tgt Ion: 114 Resp: 210799

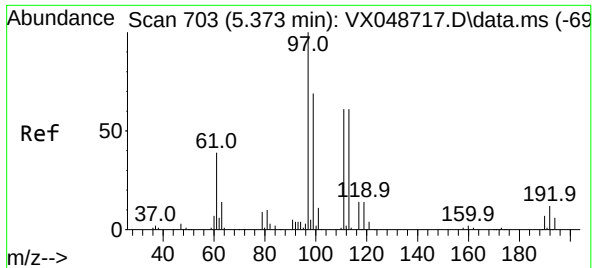
Ion Ratio Lower Upper

114 100

63 21.8 0.0 39.0

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 59.769 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048756.D

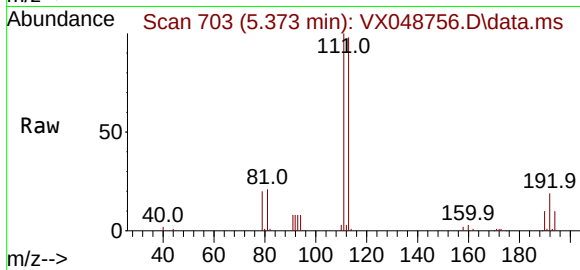
Acq: 08 Dec 2025 15:38

Instrument :

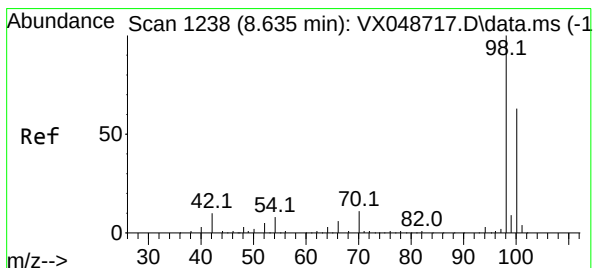
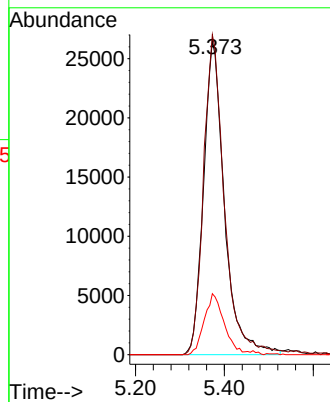
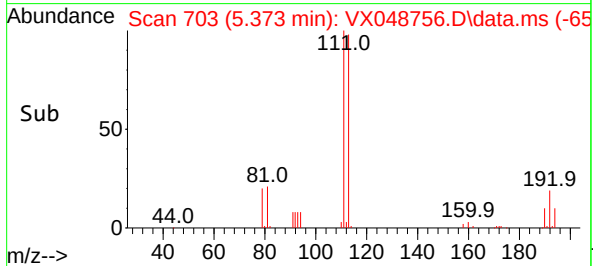
MSVOA_X

ClientSampleId :

OW-08B-72.5-120425



Tgt Ion:	113	Resp:	86750
Ion	Ratio	Lower	Upper
113	100		
111	101.6	79.5	119.3
192	18.4	16.1	24.1



#50

Toluene-d8

Concen: 47.982 ug/l

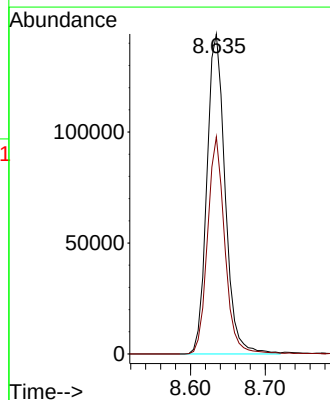
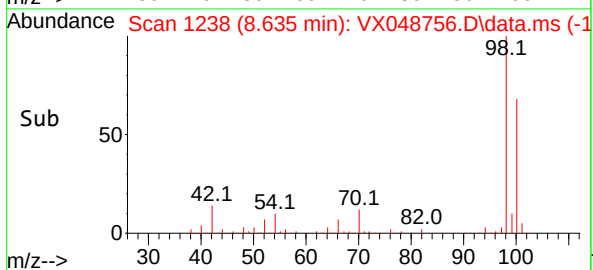
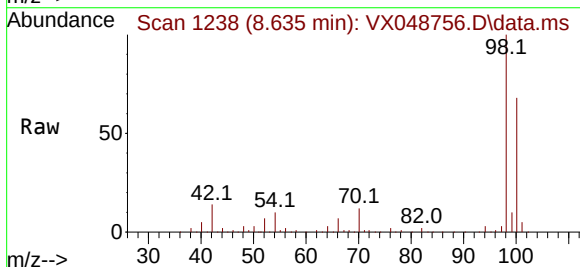
RT: 8.635 min Scan# 1238

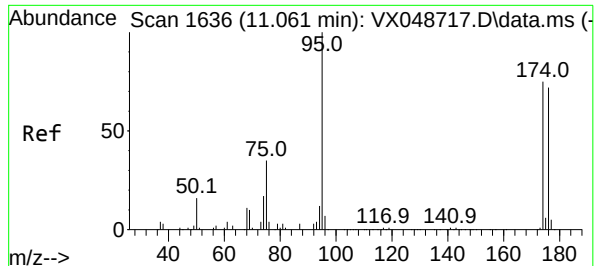
Delta R.T. -0.000 min

Lab File: VX048756.D

Acq: 08 Dec 2025 15:38

Tgt Ion:	98	Resp:	244119
Ion	Ratio	Lower	Upper
98	100		
100	64.5	53.4	80.0





#62

4-Bromofluorobenzene

Concen: 58.989 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048756.D

Acq: 08 Dec 2025 15:38

Instrument :

MSVOA_X

ClientSampleId :

OW-08B-72.5-120425

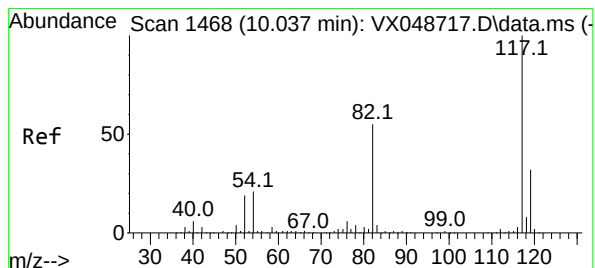
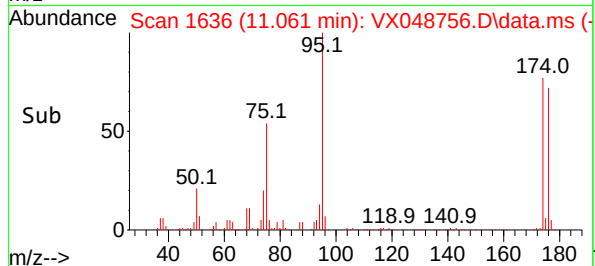
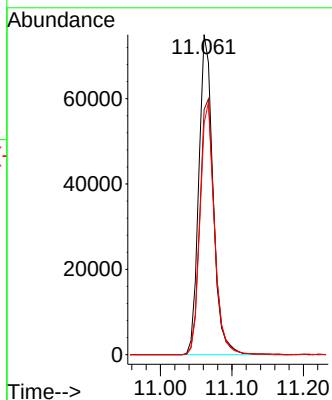
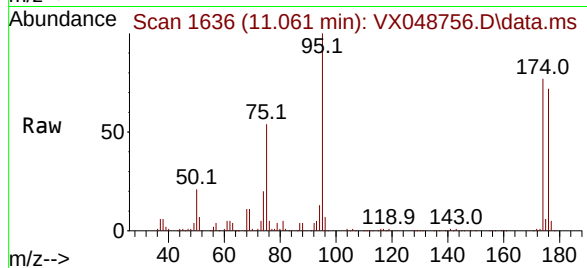
Tgt Ion: 95 Resp: 103491

Ion Ratio Lower Upper

95 100

174 82.3 0.0 157.8

176 79.5 0.0 154.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048756.D

Acq: 08 Dec 2025 15:38

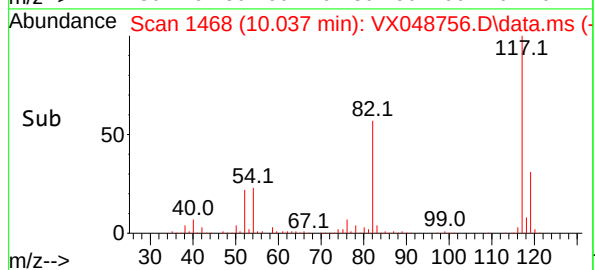
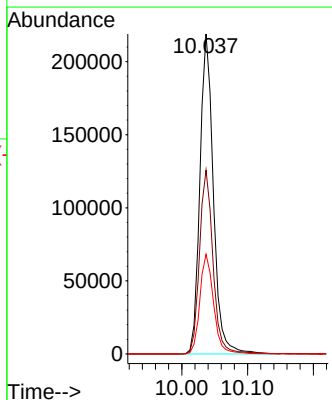
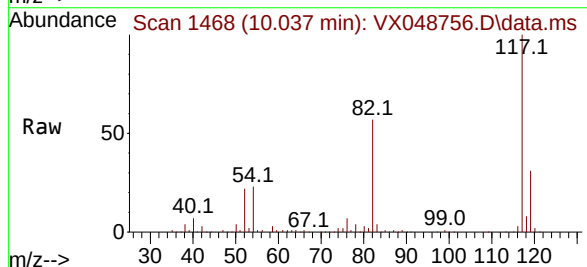
Tgt Ion: 117 Resp: 312315

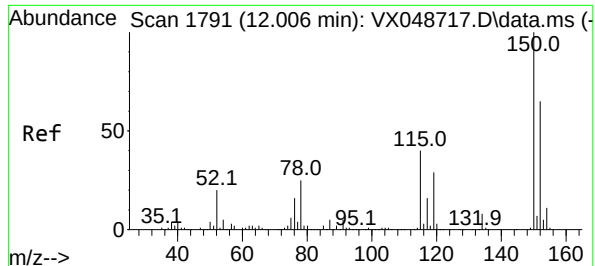
Ion Ratio Lower Upper

117 100

82 57.5 44.1 66.1

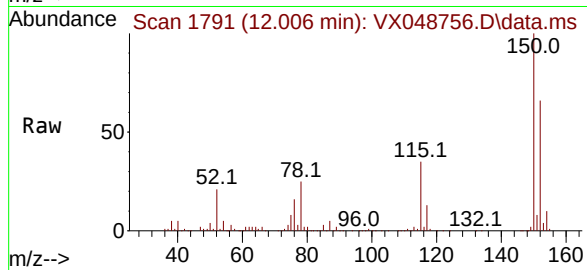
119 31.2 25.2 37.8



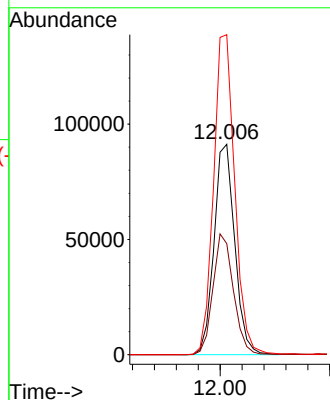
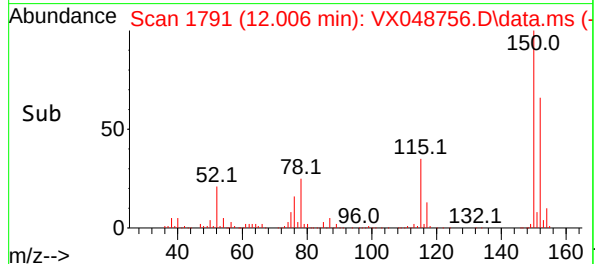


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048756.D
Acq: 08 Dec 2025 15:38

Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425



Tgt Ion:	152	Resp:	119855
Ion	Ratio	Lower	Upper
152	100		
115	56.9	42.1	126.4
150	155.6	0.0	347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-08B-72.5-120425-FD
Lab Sample ID: Q3787-17
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 15:59	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:59	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:59	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 15:59	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 15:59	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 15:59	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 15:59	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 15:59	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 15:59	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 15:59	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.6			70 (74) - 130 (125)	121%	SPK: 50		
1868-53-7	Dibromofluoromethane	68.2	*		70 (75) - 130 (124)	136%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	59.0			70 (77) - 130 (121)	118%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	128000							
540-36-3	1,4-Difluorobenzene	199000							
3114-55-4	Chlorobenzene-d5	217000							
3855-82-1	1,4-Dichlorobenzene-d4	172000							

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\VX120825\
 Data File : VX048757.D
 Acq On : 08 Dec 2025 15:59
 Operator : JC/MD
 Sample : Q3787-17
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-08B-72.5-120425-FD

Quant Time: Dec 09 04:12:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

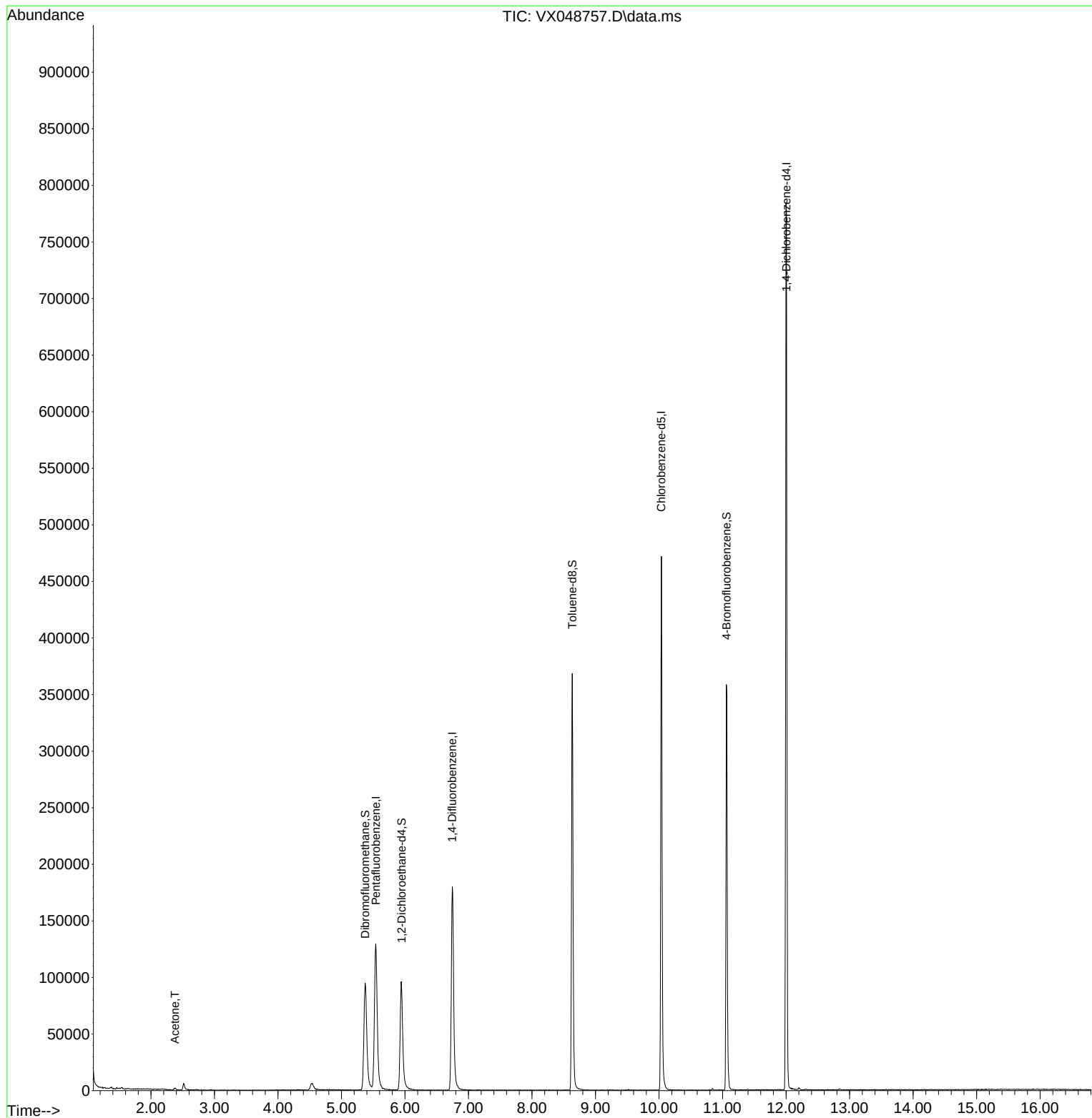
Internal Standards						
1) Pentafluorobenzene	5.544	168	127845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	199202	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	216738	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	171945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	103994	60.606	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	121.220%#
35) Dibromofluoromethane	5.373	113	93556	68.210	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	136.420%#
50) Toluene-d8	8.634	98	228610	47.550	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.100%
62) 4-Bromofluorobenzene	11.061	95	97752	58.962	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	117.920%
Target Compounds						Qvalue
16) Acetone	2.380	43	2240	3.410	ug/l	# 82

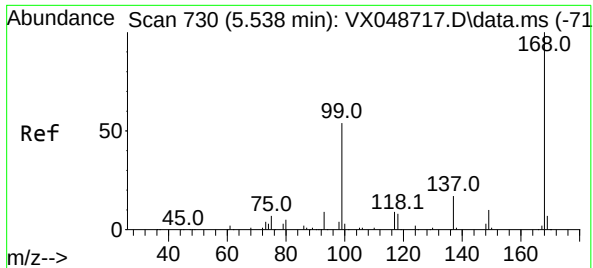
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048757.D
Acq On : 08 Dec 2025 15:59
Operator : JC/MD
Sample : Q3787-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FD

Quant Time: Dec 09 04:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

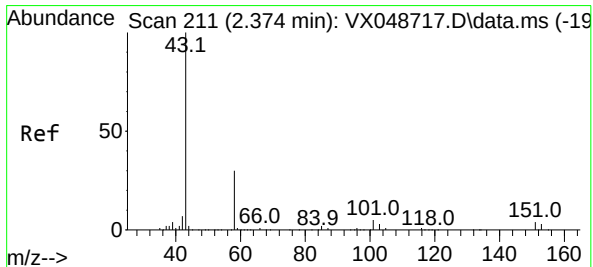
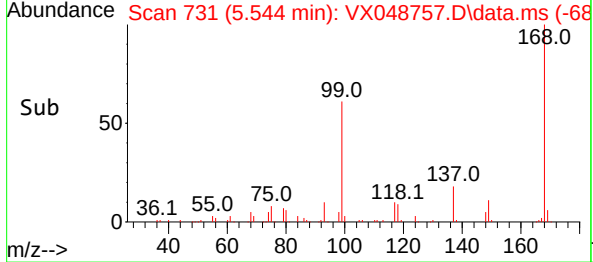
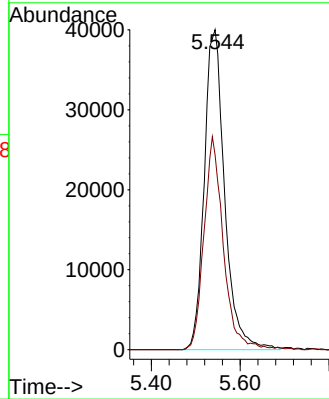
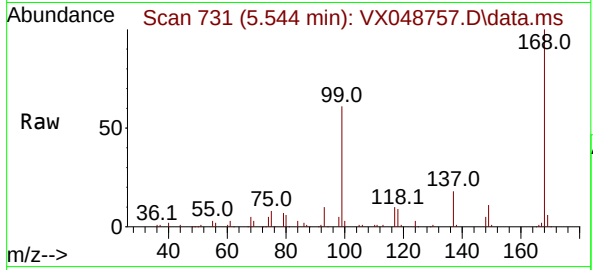




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

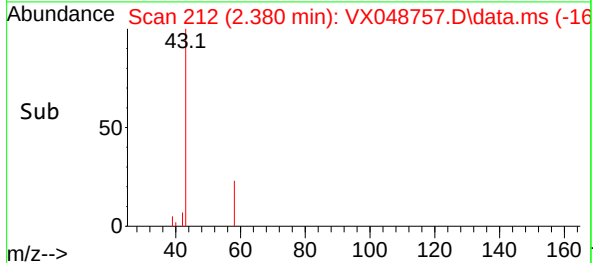
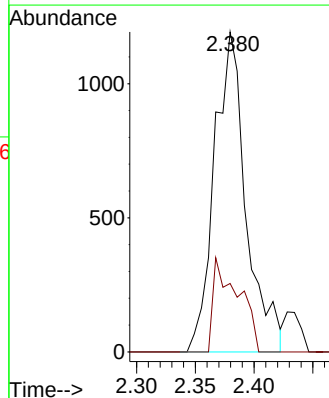
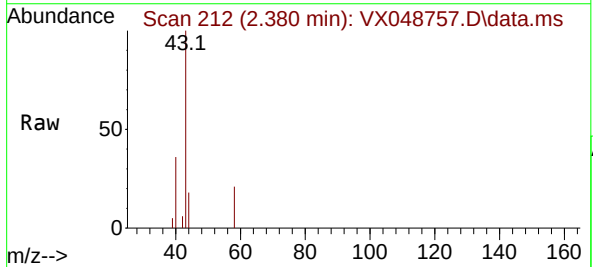
Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FD

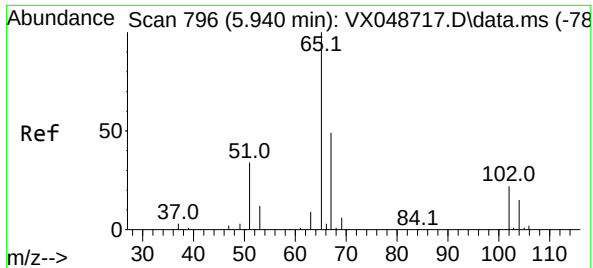
Tgt Ion:168 Resp: 127845
Ion Ratio Lower Upper
168 100
99 60.9 44.2 66.4



#16
Acetone
Concen: 3.410 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

Tgt Ion: 43 Resp: 2240
Ion Ratio Lower Upper
43 100
58 21.4 25.0 37.4#

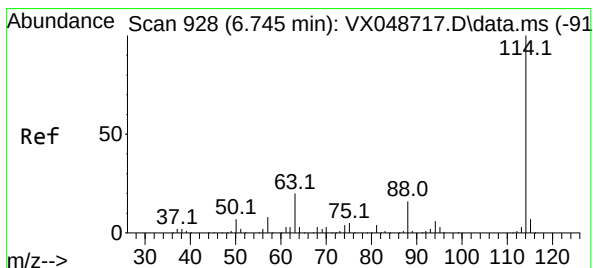
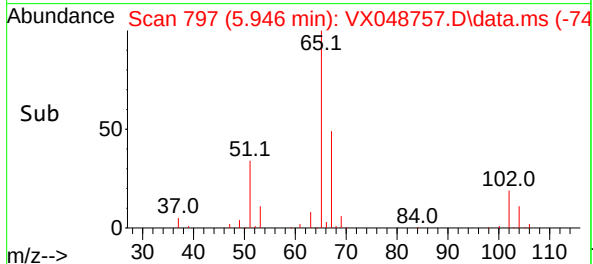
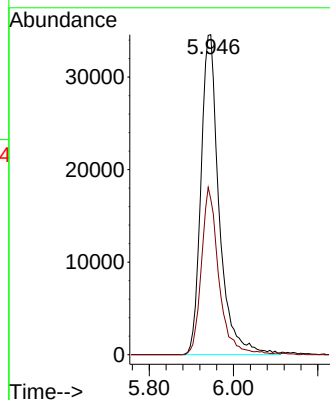
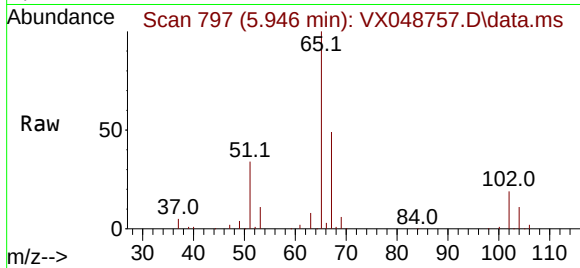




#33
1,2-Dichloroethane-d4
Concen: 60.606 ug/l
RT: 5.946 min Scan# 796
Delta R.T. 0.006 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

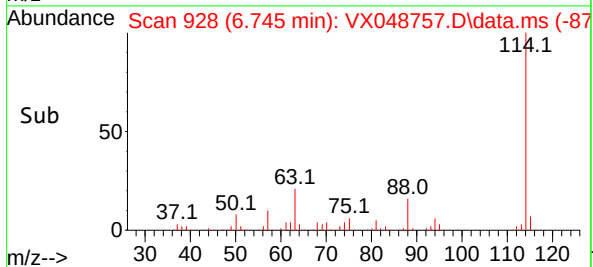
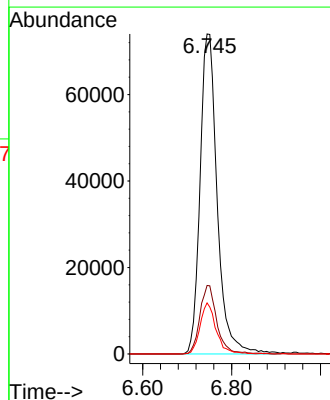
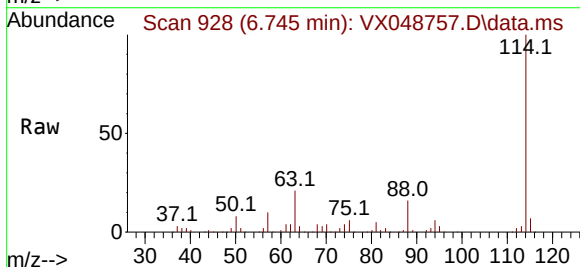
Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FD

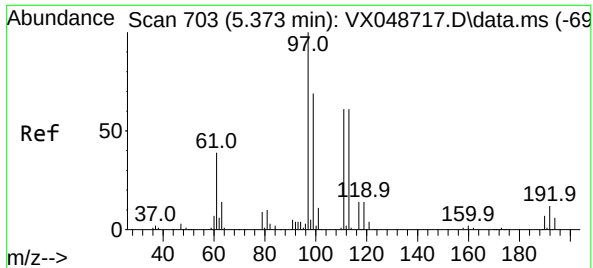
Tgt Ion: 65 Resp: 103994
Ion Ratio Lower Upper
65 100
67 50.0 0.0 107.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

Tgt Ion: 114 Resp: 199202
Ion Ratio Lower Upper
114 100
63 21.4 0.0 39.0
88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 68.210 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048757.D

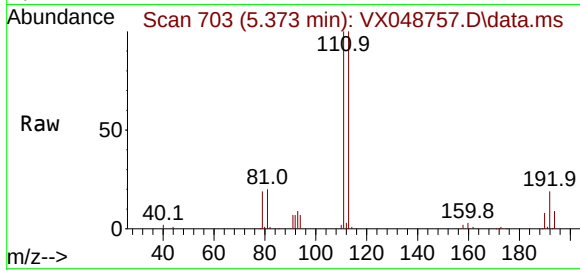
Acq: 08 Dec 2025 15:59

Instrument :

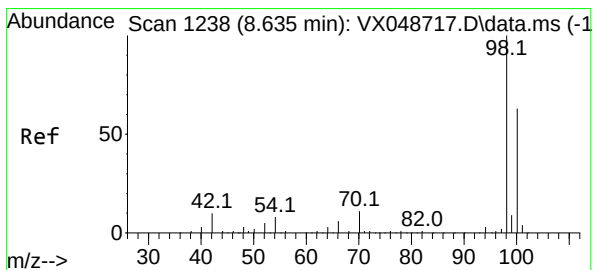
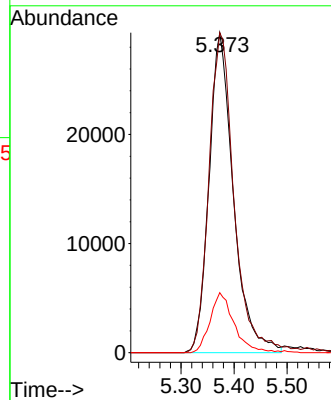
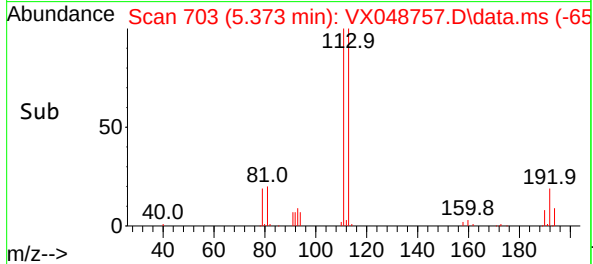
MSVOA_X

ClientSampleId :

OW-08B-72.5-120425-FD



Tgt Ion:	113	Resp:	93556
Ion	Ratio	Lower	Upper
113	100		
111	103.7	79.5	119.3
192	18.5	16.1	24.1



#50

Toluene-d8

Concen: 47.550 ug/l

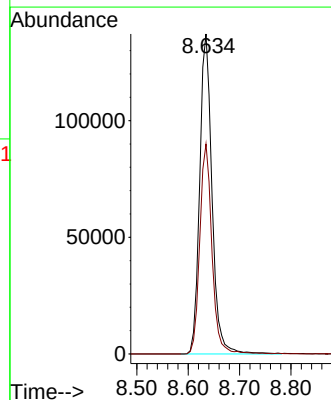
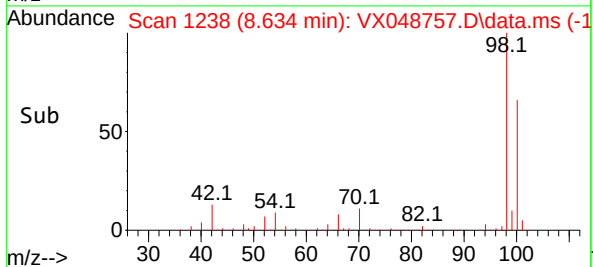
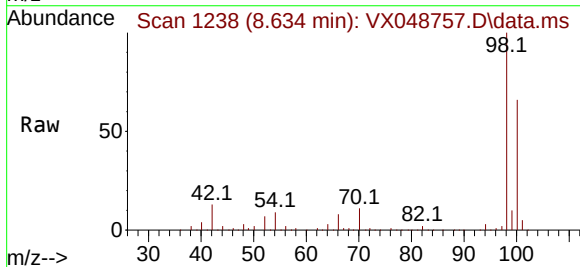
RT: 8.634 min Scan# 1238

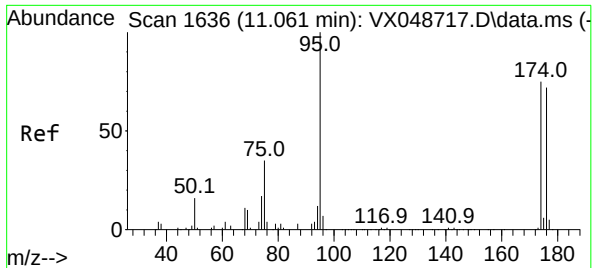
Delta R.T. -0.000 min

Lab File: VX048757.D

Acq: 08 Dec 2025 15:59

Tgt Ion:	98	Resp:	228610
Ion	Ratio	Lower	Upper
98	100		
100	64.9	53.4	80.0

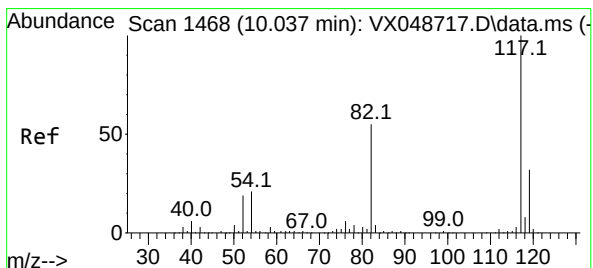
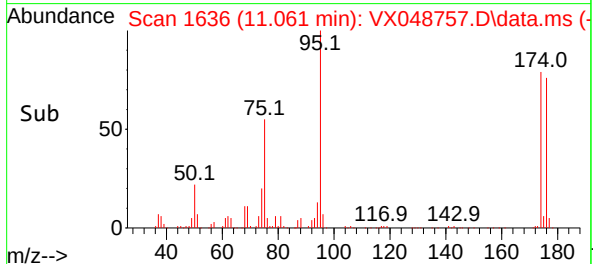
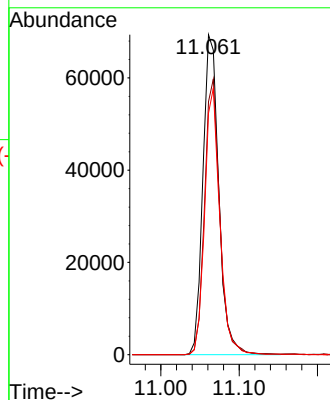
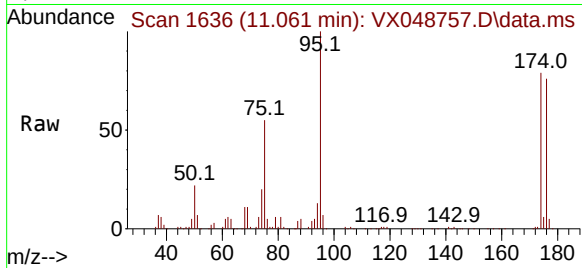




#62
4-Bromofluorobenzene
Concen: 58.962 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

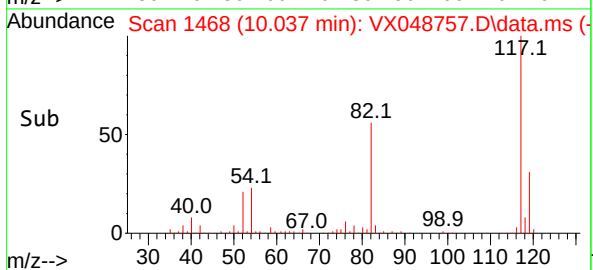
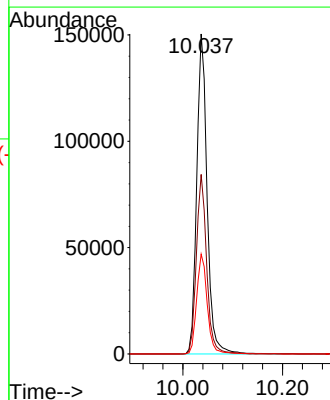
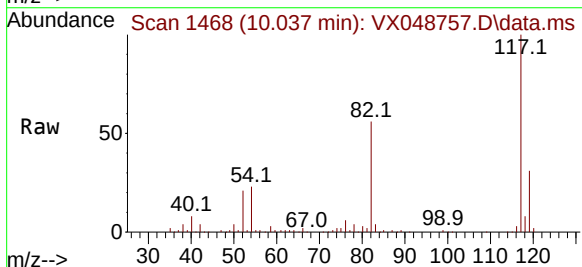
Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FD

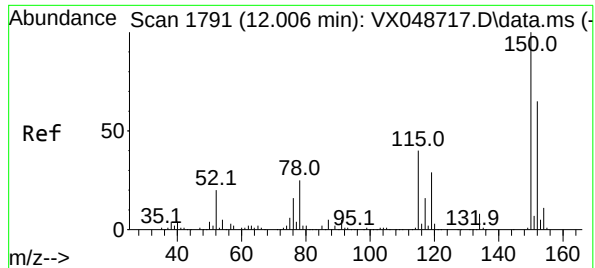
Tgt Ion:	95	Resp:	97752
Ion Ratio	Lower	Upper	
95	100		
174	82.7	0.0	157.8
176	79.5	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048757.D
Acq: 08 Dec 2025 15:59

Tgt Ion:	117	Resp:	216738
Ion Ratio	Lower	Upper	
117	100		
82	56.1	44.1	66.1
119	31.2	25.2	37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048757.D

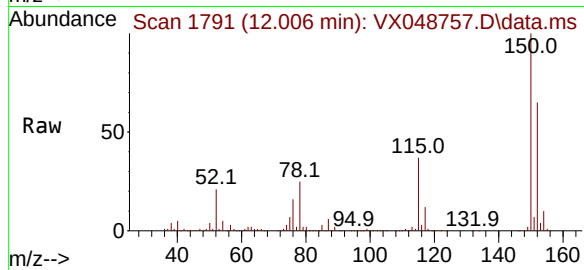
Acq: 08 Dec 2025 15:59

Instrument :

MSVOA_X

ClientSampleId :

OW-08B-72.5-120425-FD



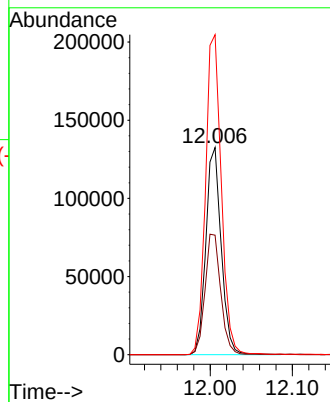
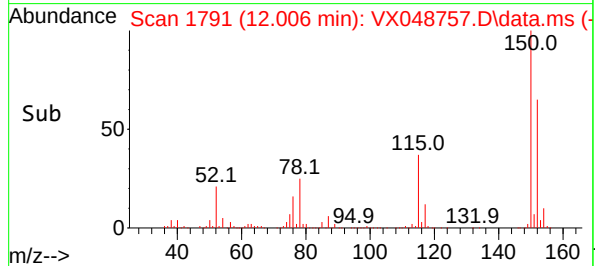
Tgt Ion:152 Resp: 171945

Ion Ratio Lower Upper

152 100

115 59.7 42.1 126.4

150 158.7 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-08B-72.5-120425-FDR
Lab Sample ID: Q3787-17RE
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 15:11	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:11	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:11	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 15:11	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 15:11	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 15:11	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 15:11	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 15:11	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 15:11	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:11	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.6			70 (74) - 130 (125)	117%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.4			70 (75) - 130 (124)	95%	SPK: 50		
2037-26-5	Toluene-d8	47.0			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	61.4			70 (77) - 130 (121)	123%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	155000							
540-36-3	1,4-Difluorobenzene	318000							
3114-55-4	Chlorobenzene-d5	343000							
3855-82-1	1,4-Dichlorobenzene-d4	186000							

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\VX121025\
 Data File : VX048811.D
 Acq On : 10 Dec 2025 15:11
 Operator : JC/MD
 Sample : Q3787-17RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-08B-72.5-120425-FDRE

Quant Time: Dec 11 00:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	154804	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	318388	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	343017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	186375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	121686	58.566	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 117.140%#	
35) Dibromofluoromethane	5.379	113	104014	47.447	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 94.900%	
50) Toluene-d8	8.635	98	361441	47.035	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 94.080%	
62) 4-Bromofluorobenzene	11.061	95	162743	61.416	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 122.840%	

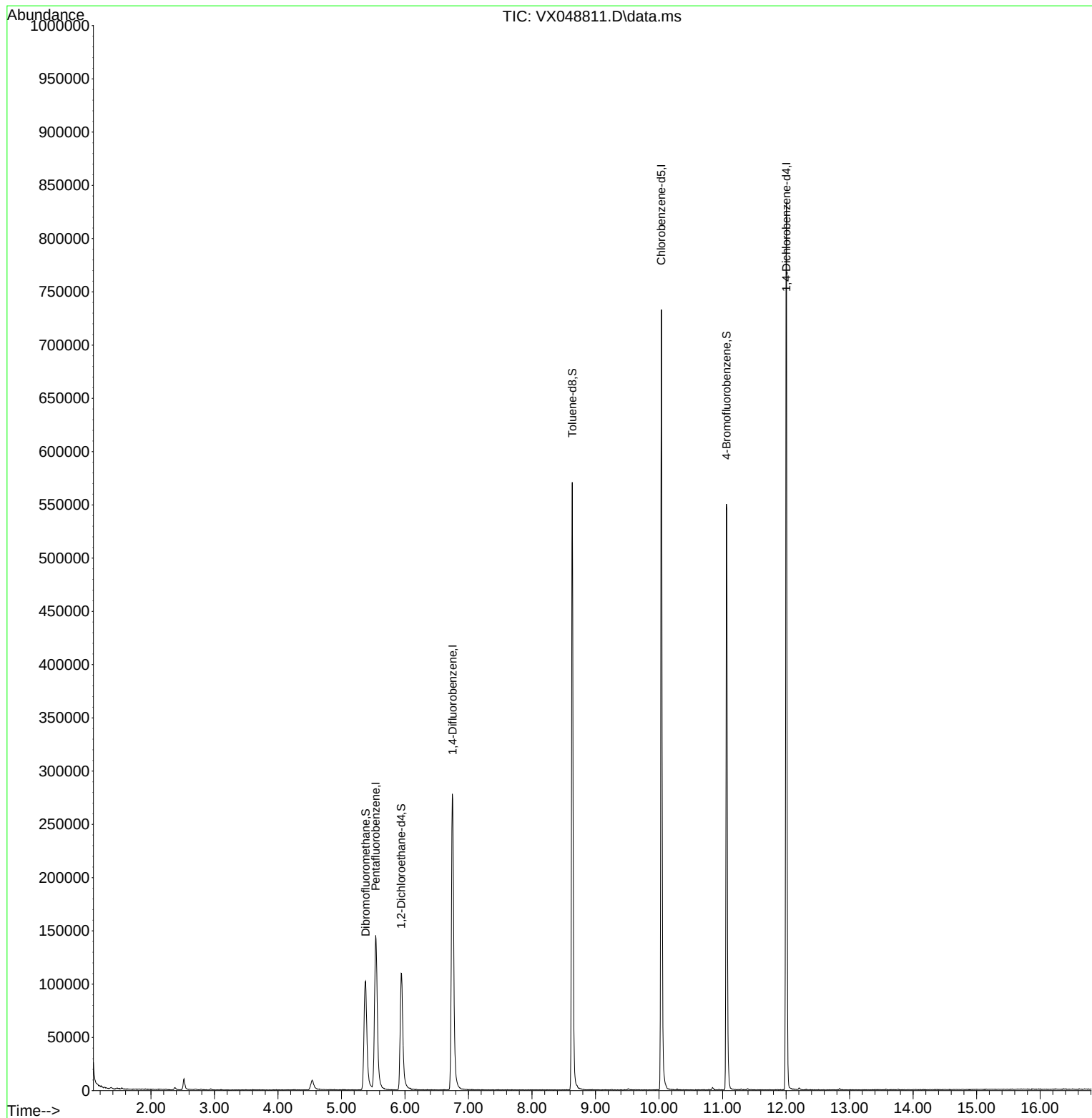
Target Compounds	Qvalue

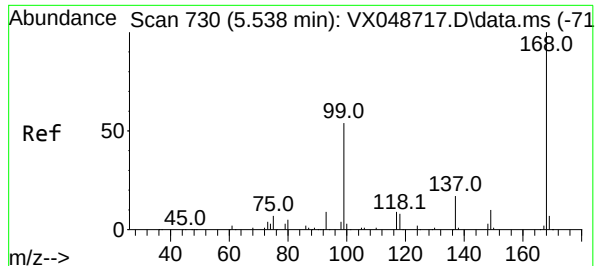
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048811.D
Acq On : 10 Dec 2025 15:11
Operator : JC/MD
Sample : Q3787-17RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FDRE

Quant Time: Dec 11 00:24:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

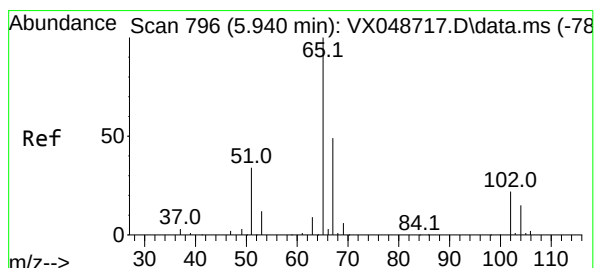
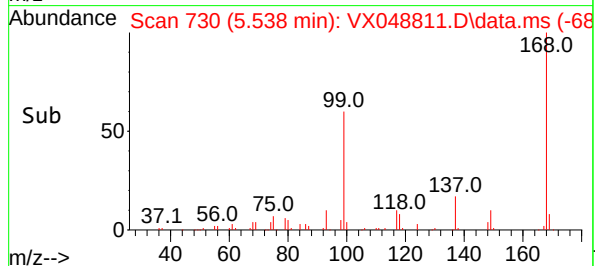
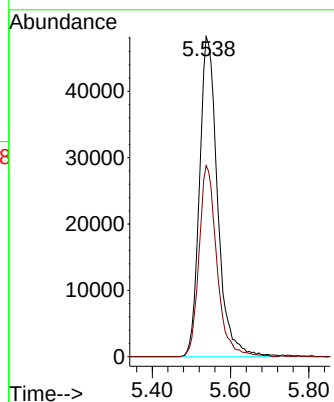
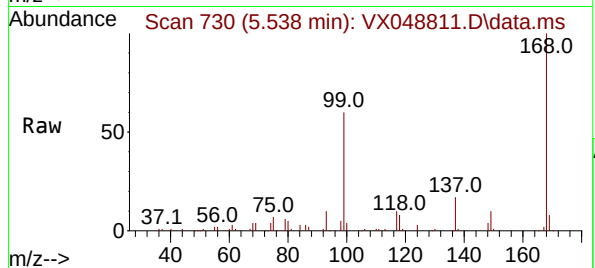




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.000 min
Lab File: VX048811.D
Acq: 10 Dec 2025 15:11

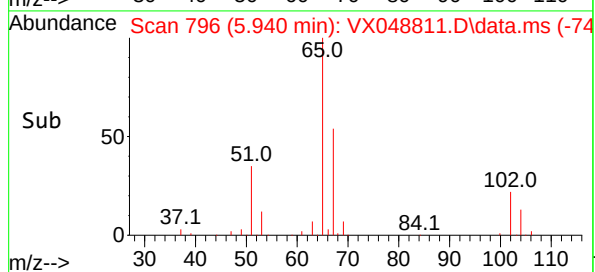
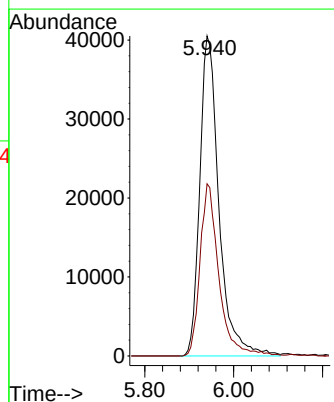
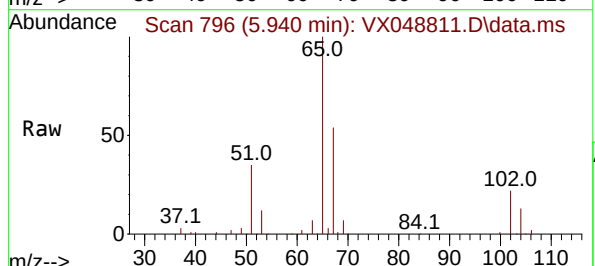
Instrument :
MSVOA_X
ClientSampleId :
OW-08B-72.5-120425-FDRE

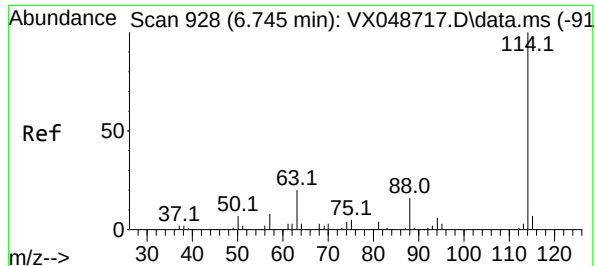
Tgt Ion:168 Resp: 154804
Ion Ratio Lower Upper
168 100
99 59.7 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 58.566 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048811.D
Acq: 10 Dec 2025 15:11

Tgt Ion: 65 Resp: 121686
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

Instrument :

MSVOA_X

ClientSampleId :

OW-08B-72.5-120425-FDRE

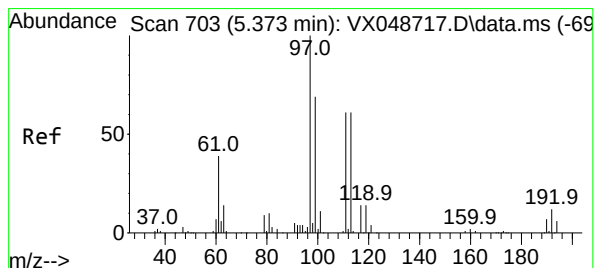
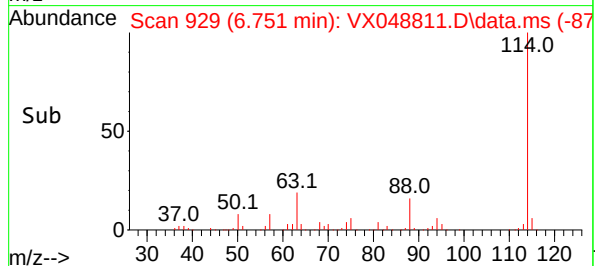
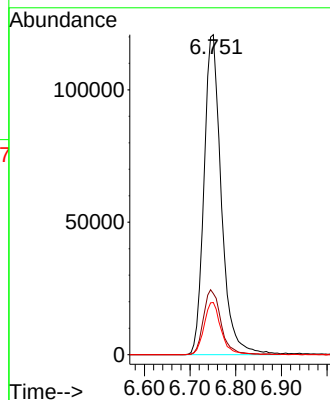
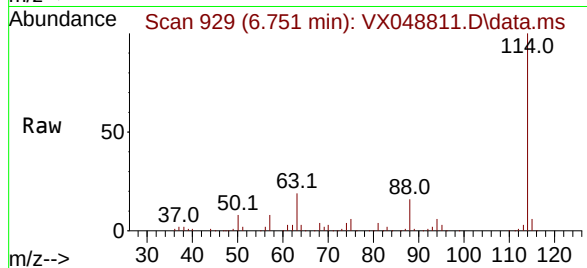
Tgt Ion:114 Resp: 318388

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.0

88 16.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 47.447 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

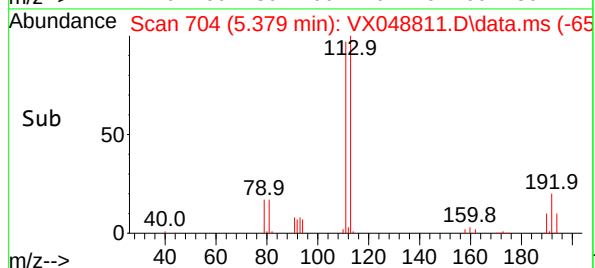
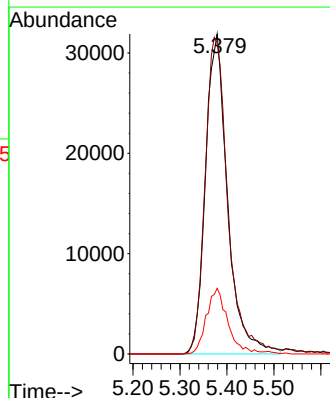
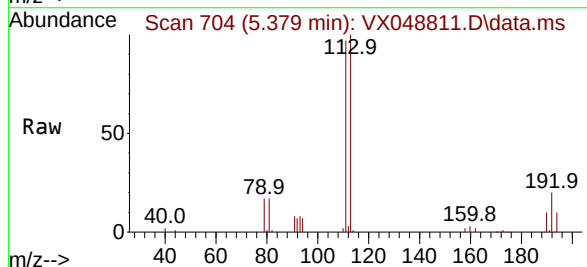
Tgt Ion:113 Resp: 104014

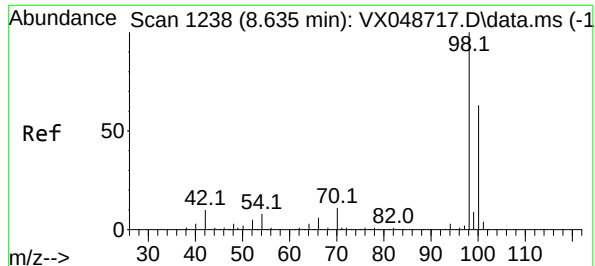
Ion Ratio Lower Upper

113 100

111 101.8 79.5 119.3

192 19.8 16.1 24.1





#50

Toluene-d8

Concen: 47.035 ug/l

RT: 8.635 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

Instrument :

MSVOA_X

ClientSampleId :

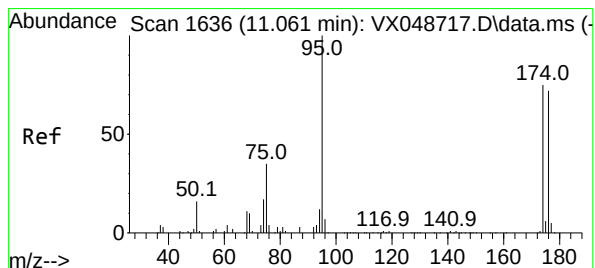
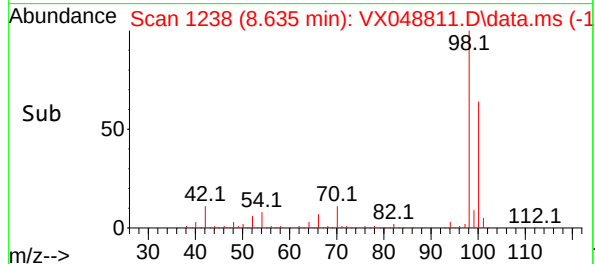
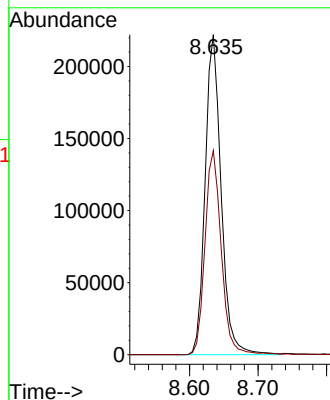
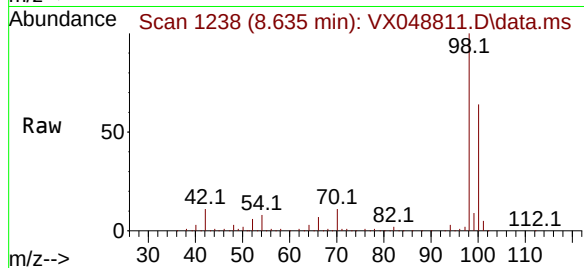
OW-08B-72.5-120425-FDRE

Tgt Ion: 98 Resp: 361441

Ion Ratio Lower Upper

98 100

100 65.0 53.4 80.0



#62

4-Bromofluorobenzene

Concen: 61.416 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

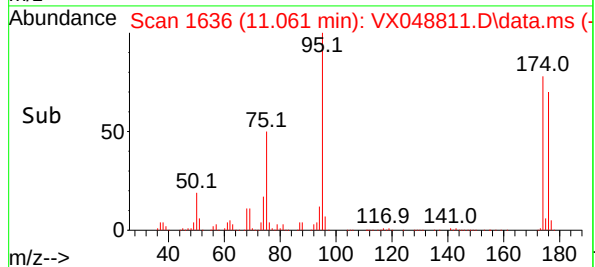
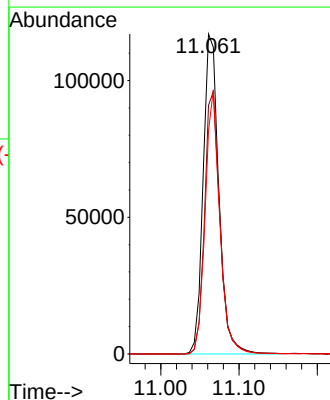
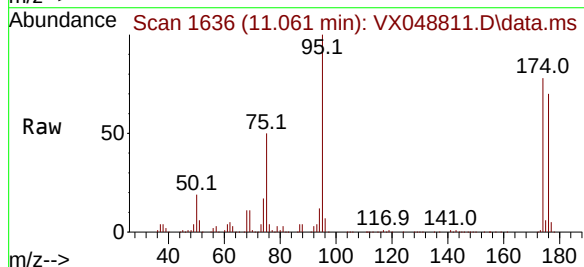
Tgt Ion: 95 Resp: 162743

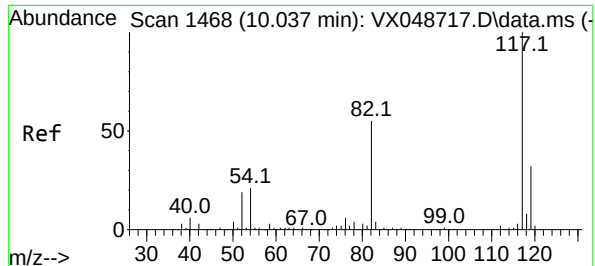
Ion Ratio Lower Upper

95 100

174 80.7 0.0 157.8

176 76.9 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

Instrument :

MSVOA_X

ClientSampleId :

OW-08B-72.5-120425-FDRE

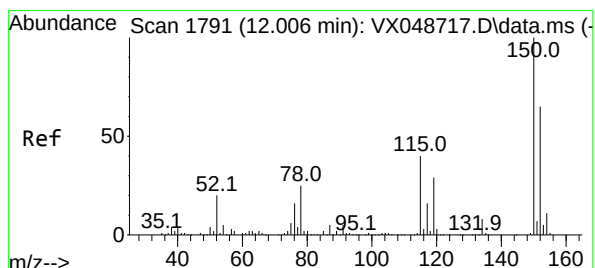
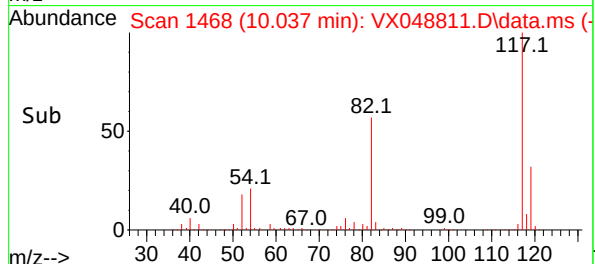
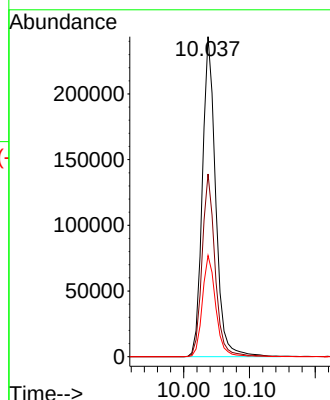
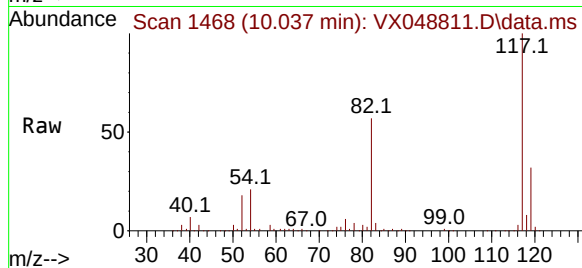
Tgt Ion:117 Resp: 343017

Ion Ratio Lower Upper

117 100

82 57.1 44.1 66.1

119 31.6 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048811.D

Acq: 10 Dec 2025 15:11

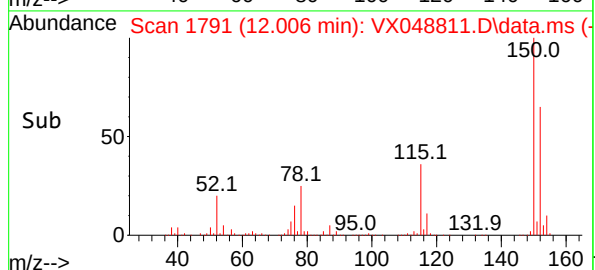
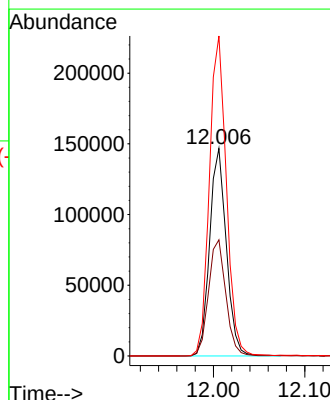
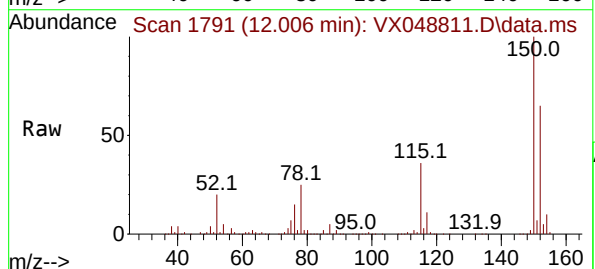
Tgt Ion:152 Resp: 186375

Ion Ratio Lower Upper

152 100

115 58.0 42.1 126.4

150 156.6 0.0 347.8





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Fax : 908 789 8922

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-02B-21.2-120425
Lab Sample ID: Q3787-19
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 15:32	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:32	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:32	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 15:32	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 15:32	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 15:32	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 15:32	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 15:32	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 15:32	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:32	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.7			70 (74) - 130 (125)	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	46.8			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	60.7			70 (77) - 130 (121)	121%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	138000							
540-36-3	1,4-Difluorobenzene	284000							
3114-55-4	Chlorobenzene-d5	306000							
3855-82-1	1,4-Dichlorobenzene-d4	166000							

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\VX121025\
 Data File : VX048812.D
 Acq On : 10 Dec 2025 15:32
 Operator : JC/MD
 Sample : Q3787-19
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-02B-21.2-120425

Quant Time: Dec 11 00:24:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

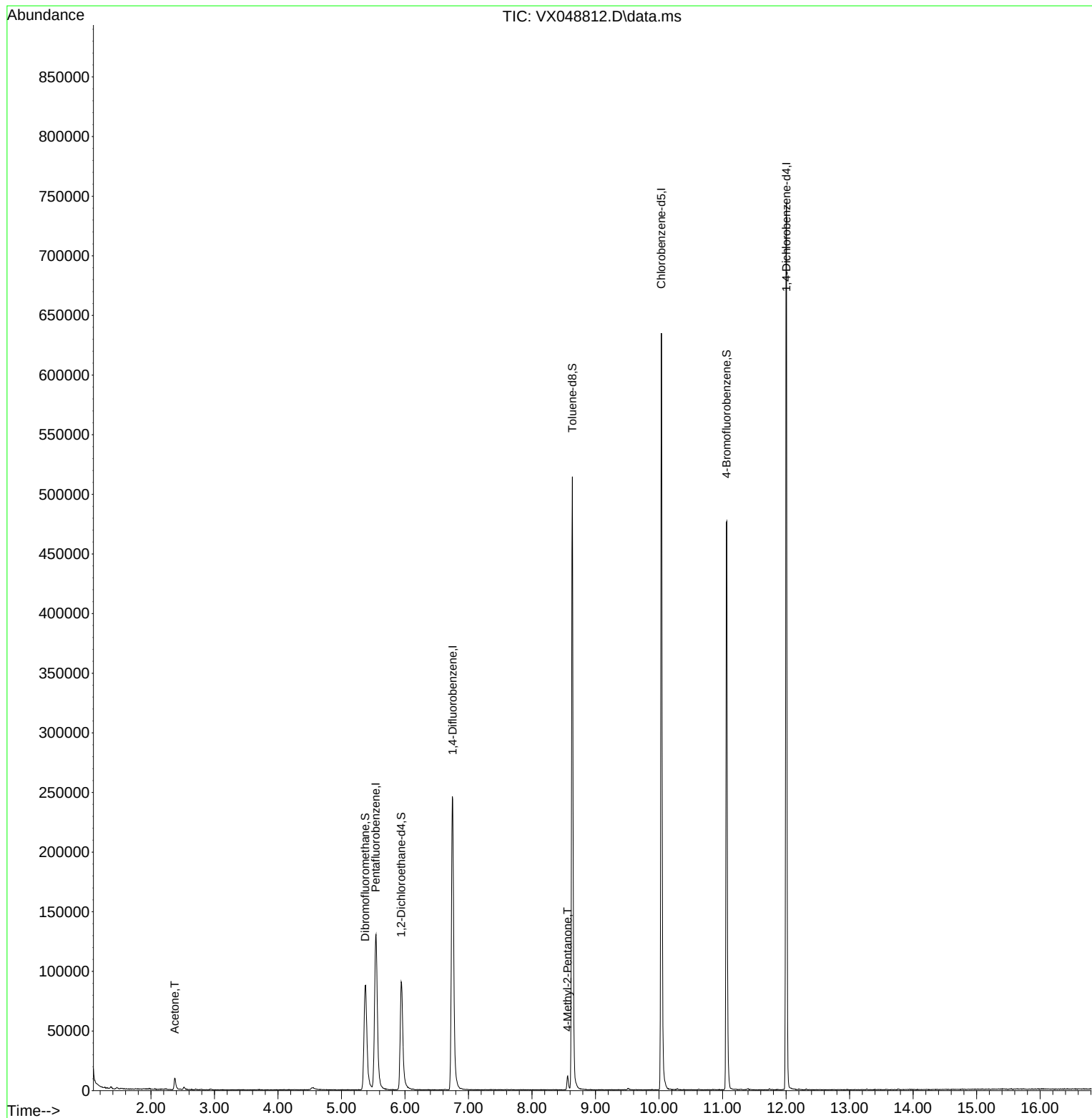
Internal Standards						
1) Pentafluorobenzene	5.538	168	138008	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284336	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	306079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	165546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	99469	53.700	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	107.400%
35) Dibromofluoromethane	5.373	113	92123	47.055	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.120%
50) Toluene-d8	8.635	98	321012	46.777	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.560%
62) 4-Bromofluorobenzene	11.061	95	143570	60.669	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	121.340%
Target Compounds						
16) Acetone	2.374	43	13881	19.575	ug/l	95
51) 4-Methyl-2-Pentanone	8.562	43	8113	2.694	ug/l	95

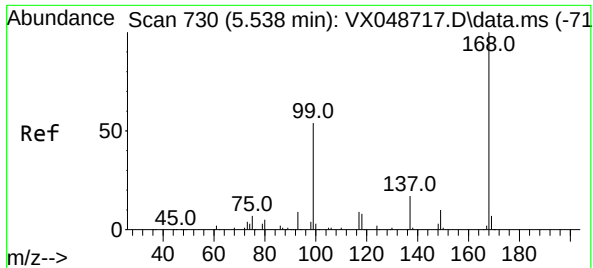
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048812.D
Acq On : 10 Dec 2025 15:32
Operator : JC/MD
Sample : Q3787-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
OW-02B-21.2-120425

Quant Time: Dec 11 00:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

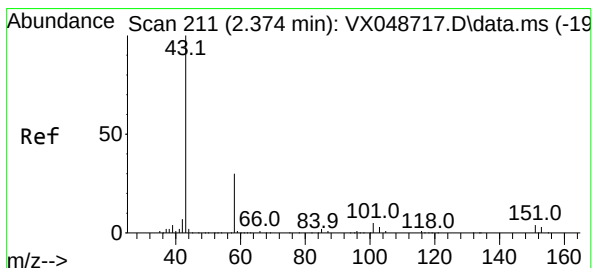
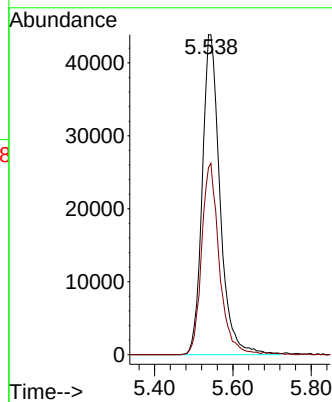
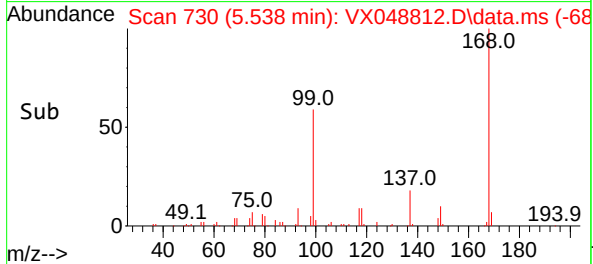
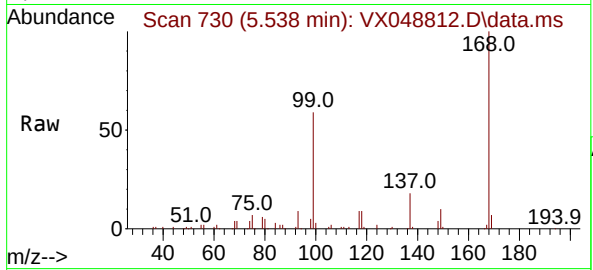




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.000 min
Lab File: VX048812.D
Acq: 10 Dec 2025 15:32

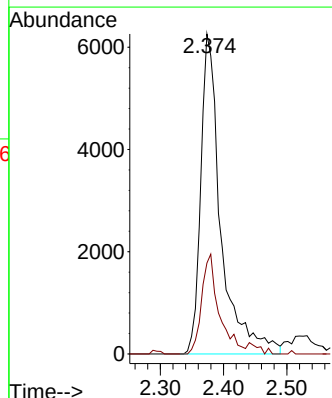
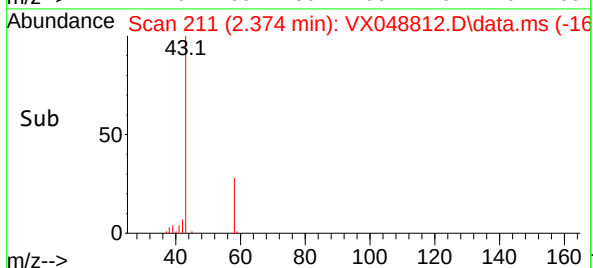
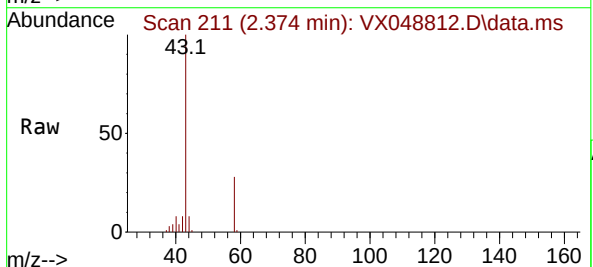
Instrument :
MSVOA_X
ClientSampleId :
OW-02B-21.2-120425

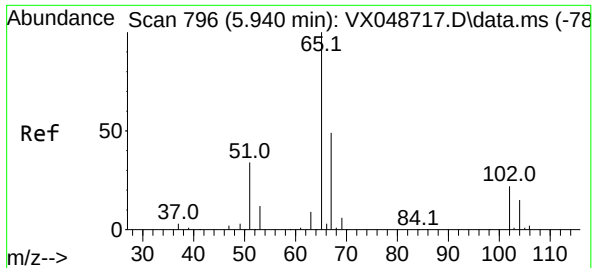
Tgt Ion:168 Resp: 138008
Ion Ratio Lower Upper
168 100
99 58.5 44.2 66.4



#16
Acetone
Concen: 19.575 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048812.D
Acq: 10 Dec 2025 15:32

Tgt Ion: 43 Resp: 13881
Ion Ratio Lower Upper
43 100
58 28.4 25.0 37.4





#33

1,2-Dichloroethane-d4

Concen: 53.700 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

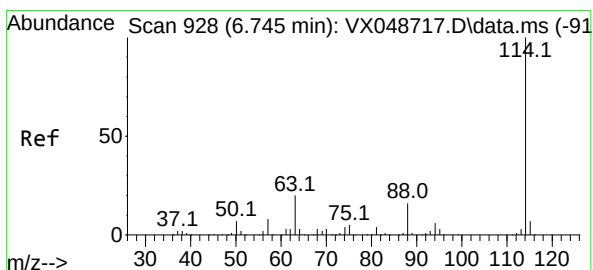
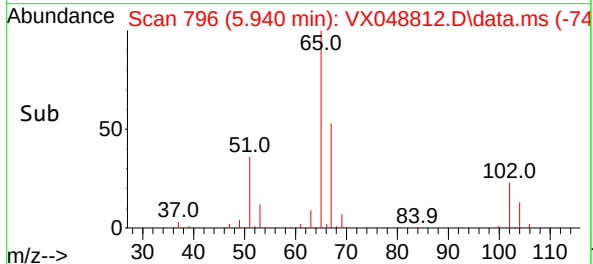
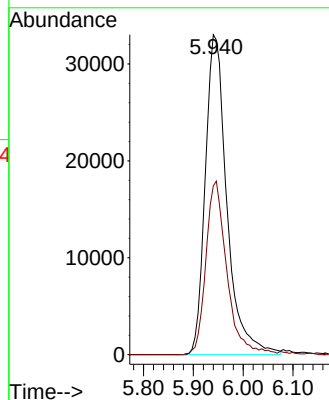
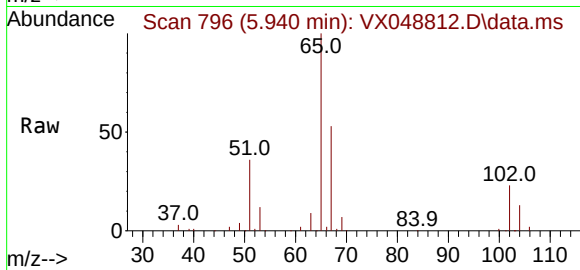
OW-02B-21.2-120425

Tgt Ion: 65 Resp: 99469

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

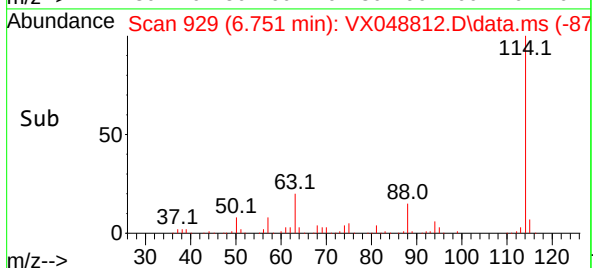
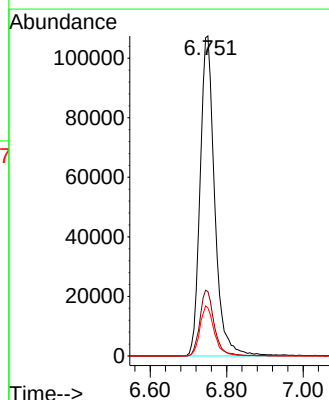
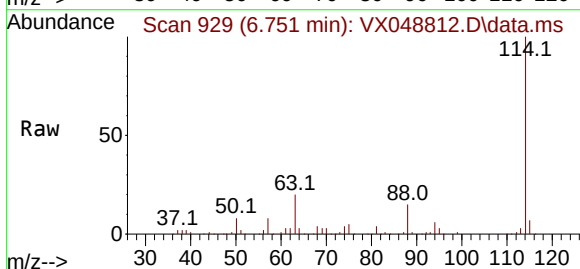
Tgt Ion: 114 Resp: 284336

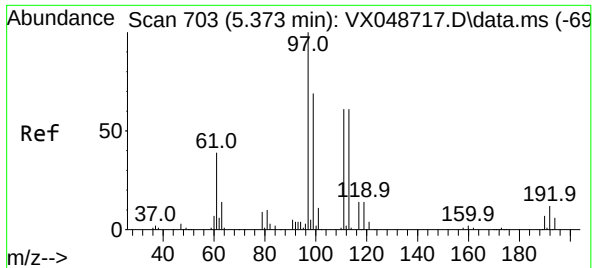
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

88 15.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.055 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048812.D

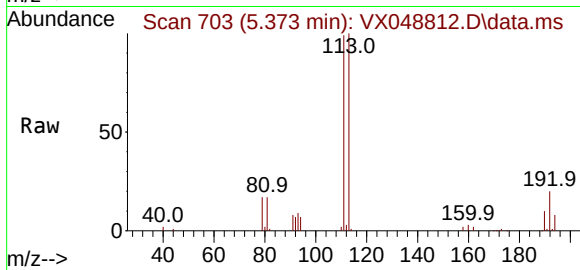
Acq: 10 Dec 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

OW-02B-21.2-120425



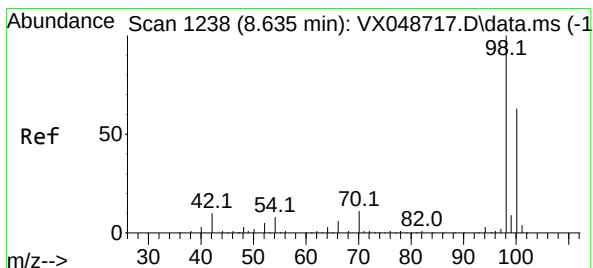
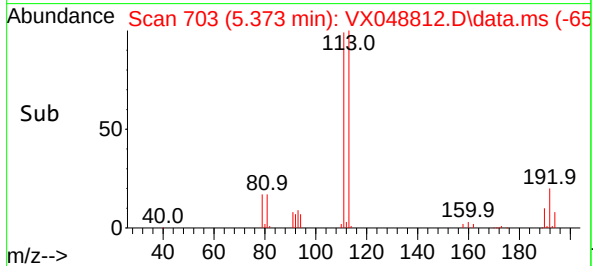
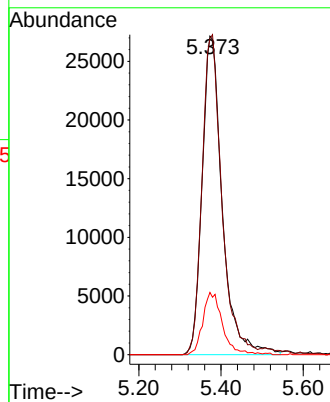
Tgt Ion:113 Resp: 92123

Ion Ratio Lower Upper

113 100

111 98.3 79.5 119.3

192 19.1 16.1 24.1



#50

Toluene-d8

Concen: 46.777 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX048812.D

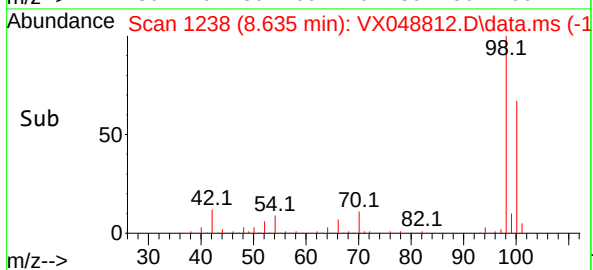
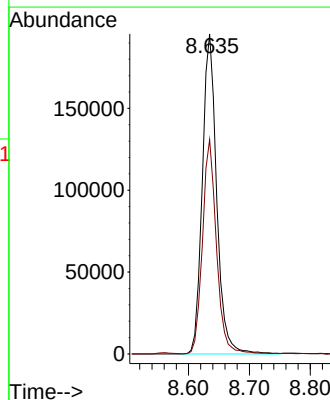
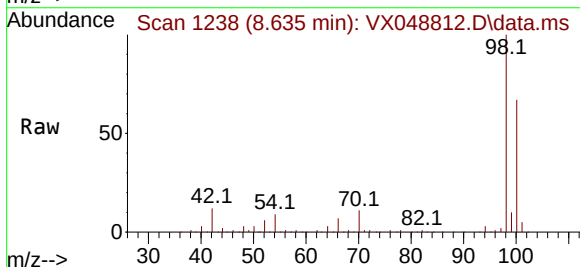
Acq: 10 Dec 2025 15:32

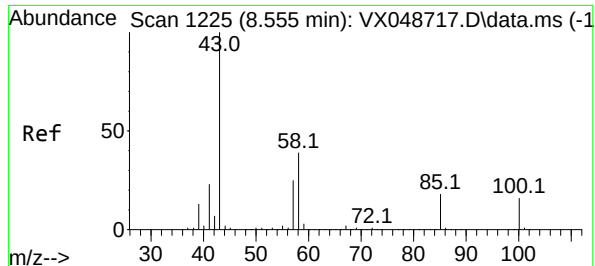
Tgt Ion: 98 Resp: 321012

Ion Ratio Lower Upper

98 100

100 65.1 53.4 80.0





#51

4-Methyl-2-Pentanone

Concen: 2.694 ug/l

RT: 8.562 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

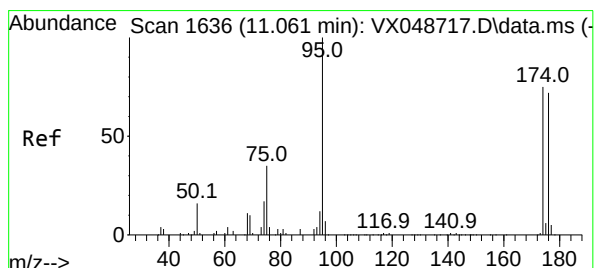
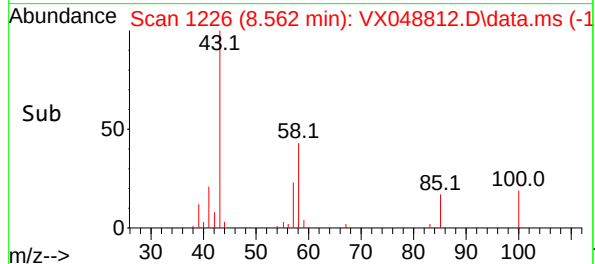
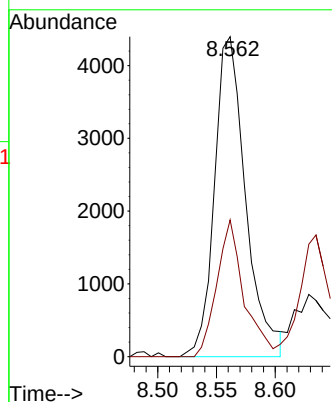
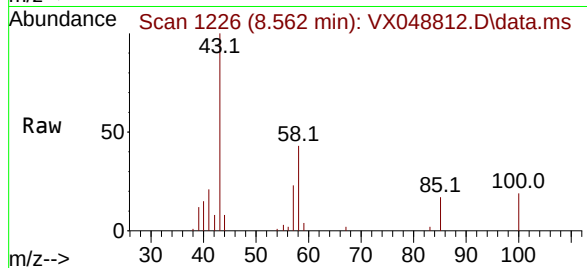
OW-02B-21.2-120425

Tgt Ion: 43 Resp: 8113

Ion Ratio Lower Upper

43 100

58 37.2 32.2 48.4



#62

4-Bromofluorobenzene

Concen: 60.669 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

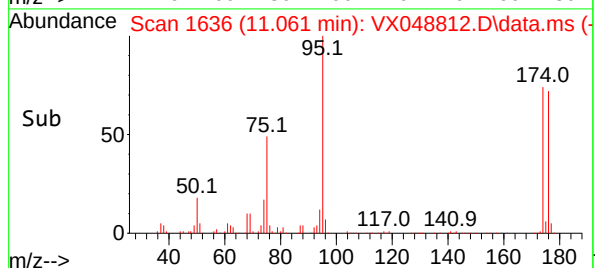
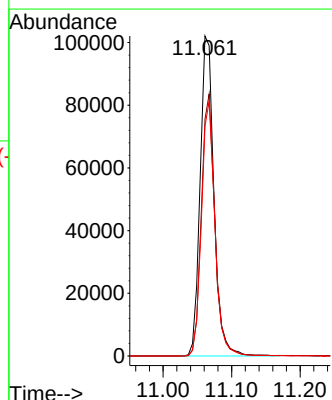
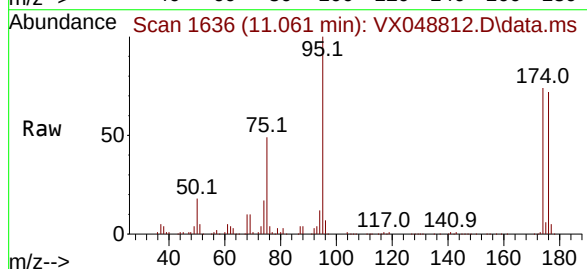
Tgt Ion: 95 Resp: 143570

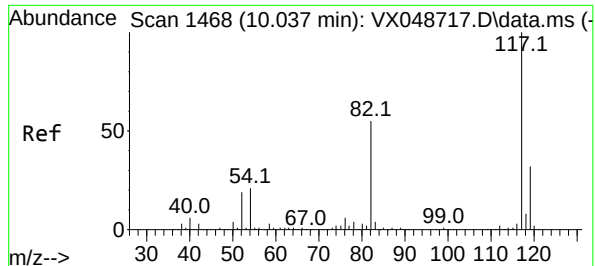
Ion Ratio Lower Upper

95 100

174 80.1 0.0 157.8

176 77.2 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

Instrument :

MSVOA_X

ClientSampleId :

OW-02B-21.2-120425

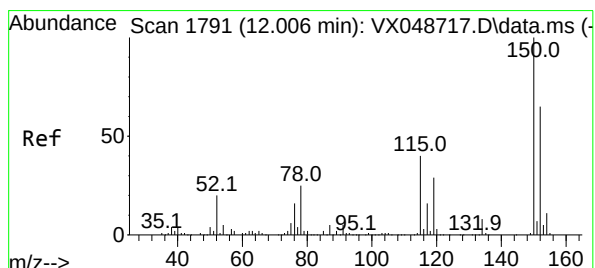
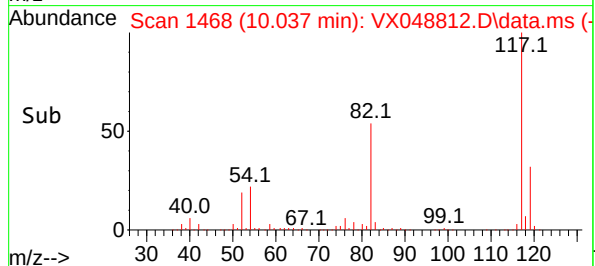
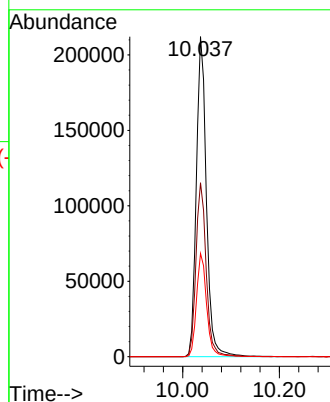
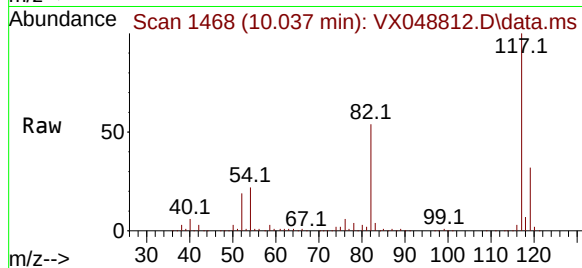
Tgt Ion:117 Resp: 306079

Ion Ratio Lower Upper

117 100

82 54.3 44.1 66.1

119 32.2 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048812.D

Acq: 10 Dec 2025 15:32

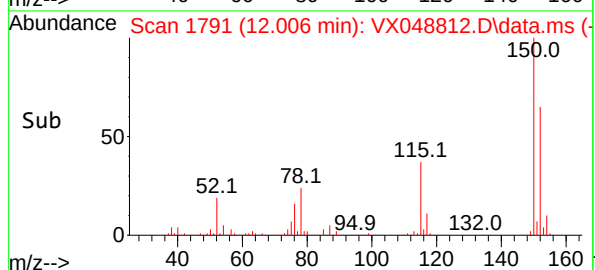
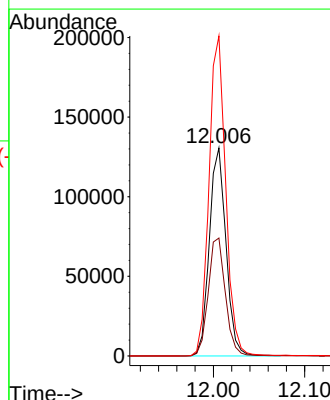
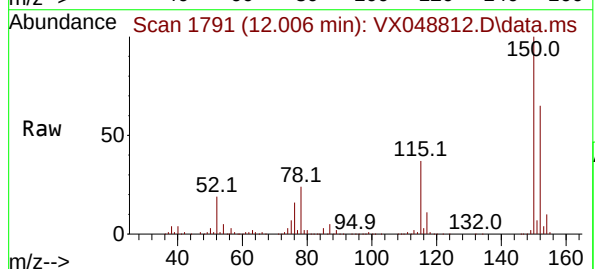
Tgt Ion:152 Resp: 165546

Ion Ratio Lower Upper

152 100

115 58.5 42.1 126.4

150 154.2 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: TB01-120425
Lab Sample ID: Q3787-21
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 15:53	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:53	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:53	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 15:53	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 15:53	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 15:53	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 15:53	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 15:53	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 15:53	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 15:53	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.8			70 (74) - 130 (125)	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.7			70 (75) - 130 (124)	93%	SPK: 50		
2037-26-5	Toluene-d8	46.2			70 (86) - 130 (113)	92%	SPK: 50		
460-00-4	4-Bromofluorobenzene	59.2			70 (77) - 130 (121)	118%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	138000							
540-36-3	1,4-Difluorobenzene	284000							
3114-55-4	Chlorobenzene-d5	308000							
3855-82-1	1,4-Dichlorobenzene-d4	168000							

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\VX121025\
 Data File : VX048813.D
 Acq On : 10 Dec 2025 15:53
 Operator : JC/MD
 Sample : Q3787-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-120425

Quant Time: Dec 11 00:25:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	137750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	283821	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	308054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	167960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	103127	55.779	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 111.560%	
35) Dibromofluoromethane	5.379	113	91196	46.666	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 93.340%	
50) Toluene-d8	8.635	98	316230	46.164	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 92.320%	
62) 4-Bromofluorobenzene	11.061	95	139733	59.155	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 118.320%	

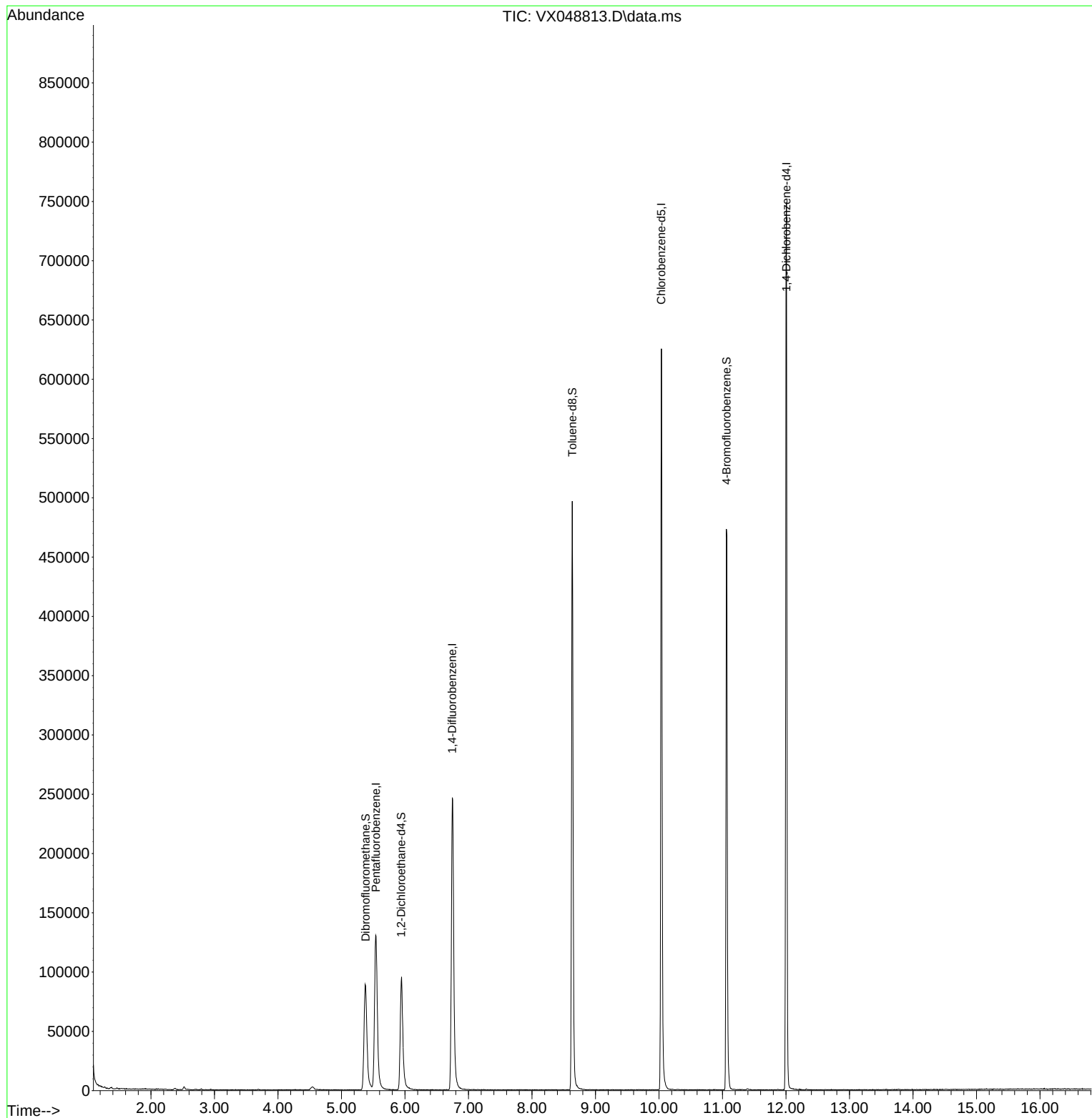
Target Compounds	Qvalue

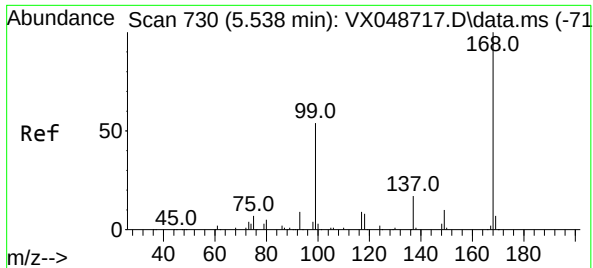
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048813.D
Acq On : 10 Dec 2025 15:53
Operator : JC/MD
Sample : Q3787-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB01-120425

Quant Time: Dec 11 00:25:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

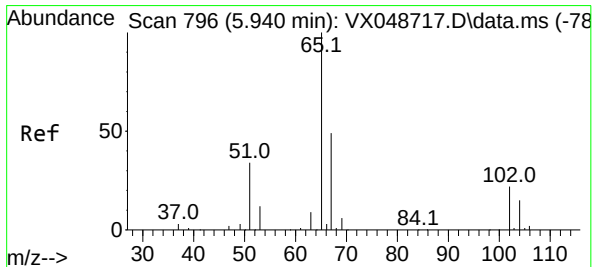
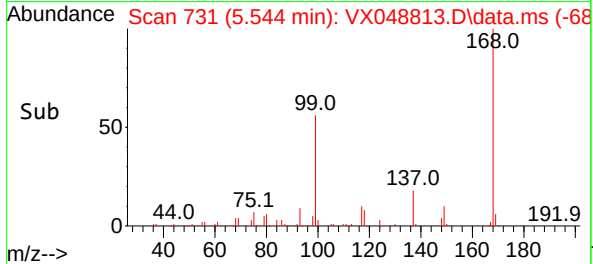
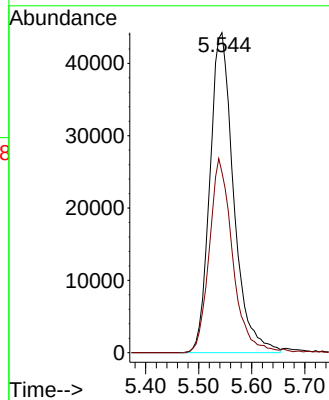
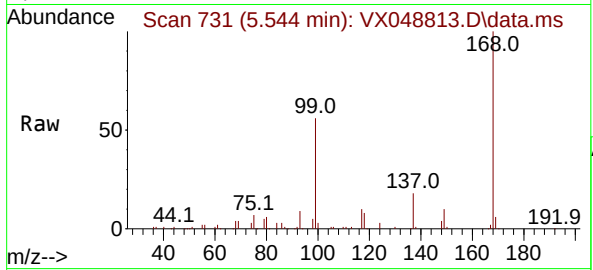




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.006 min
Lab File: VX048813.D
Acq: 10 Dec 2025 15:53

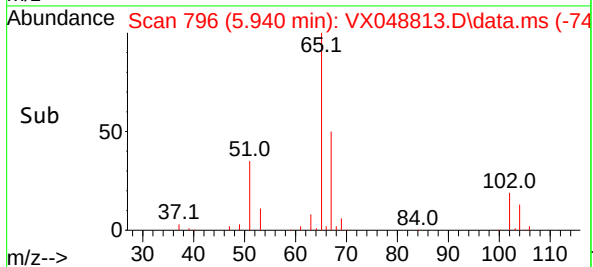
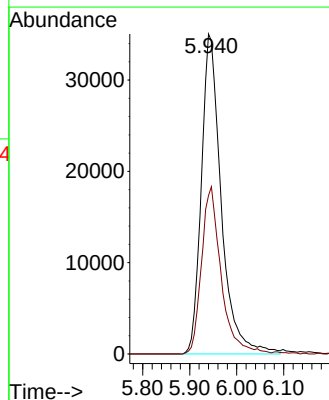
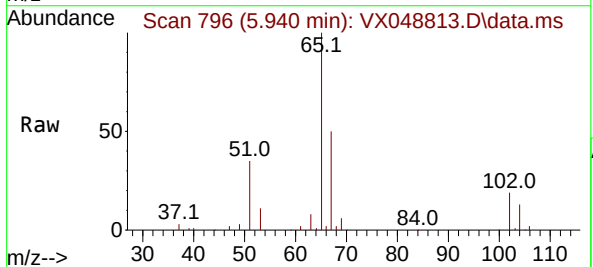
Instrument :
MSVOA_X
ClientSampleId :
TB01-120425

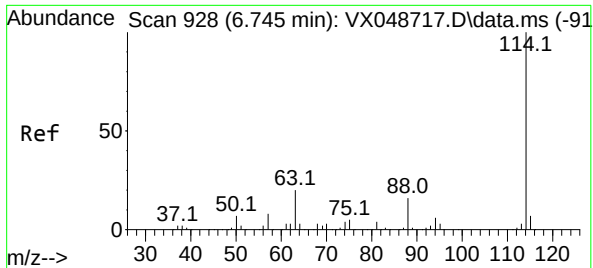
Tgt Ion:168 Resp: 137750
Ion Ratio Lower Upper
168 100
99 56.3 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 55.779 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048813.D
Acq: 10 Dec 2025 15:53

Tgt Ion: 65 Resp: 103127
Ion Ratio Lower Upper
65 100
67 51.4 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

Instrument :

MSVOA_X

ClientSampleId :

TB01-120425

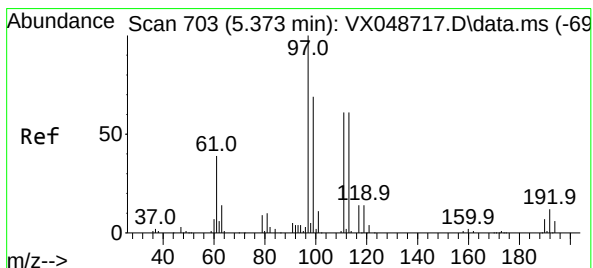
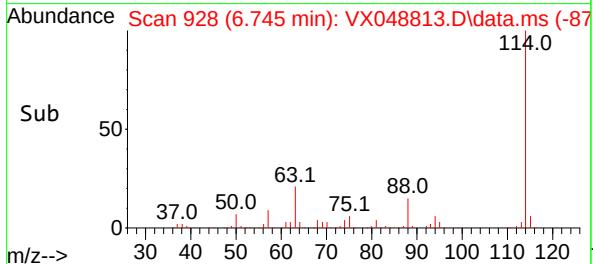
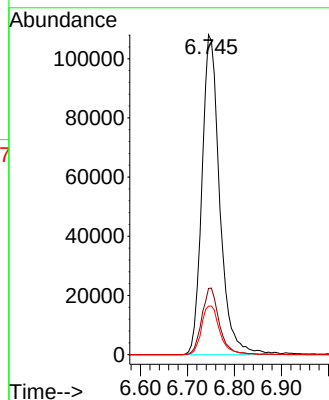
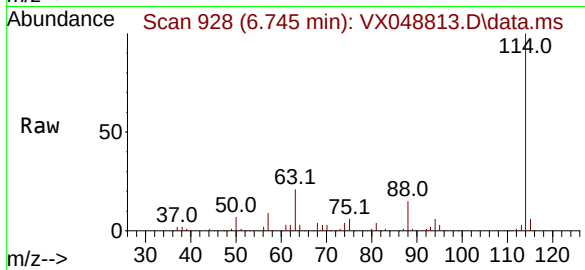
Tgt Ion:114 Resp: 283821

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 46.666 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

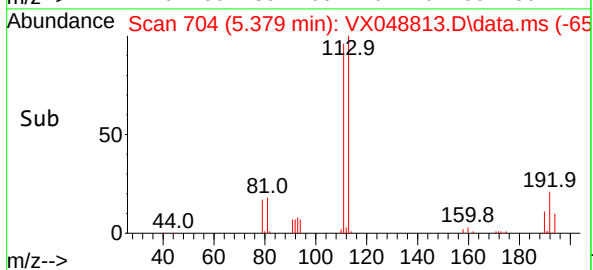
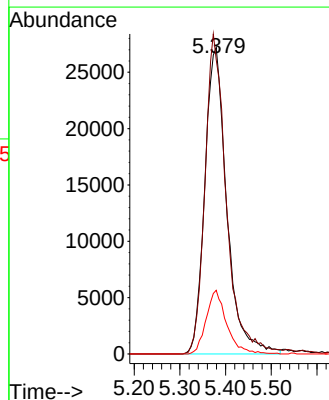
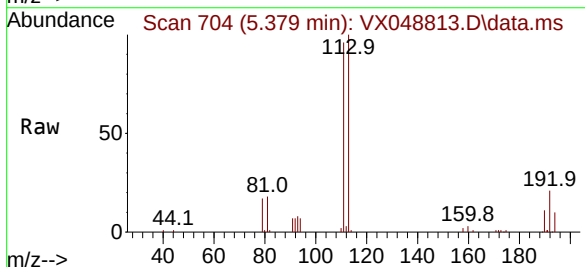
Tgt Ion:113 Resp: 91196

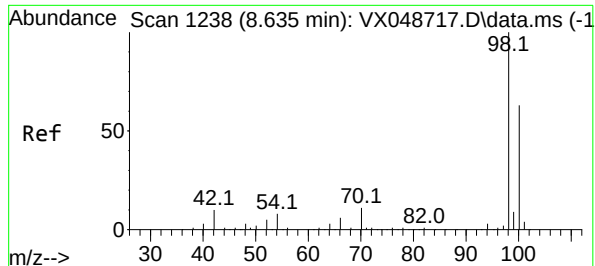
Ion Ratio Lower Upper

113 100

111 100.9 79.5 119.3

192 19.4 16.1 24.1





#50

Toluene-d8

Concen: 46.164 ug/l

RT: 8.635 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

Instrument :

MSVOA_X

ClientSampleId :

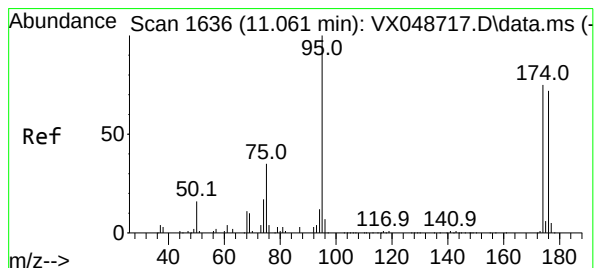
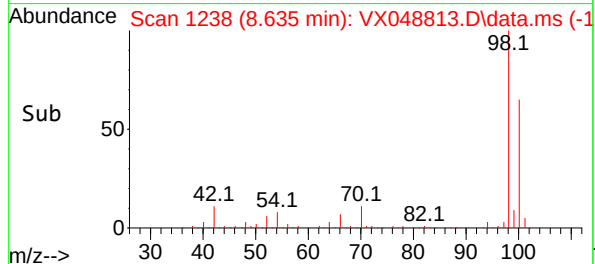
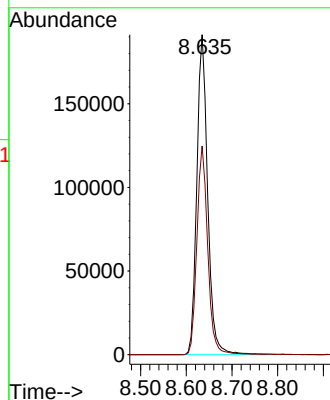
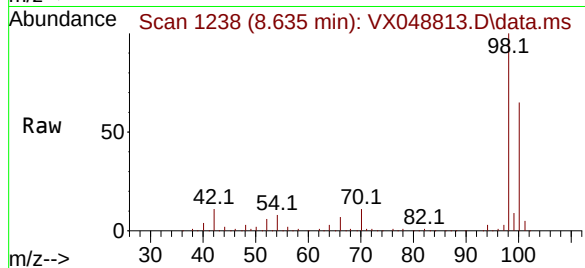
TB01-120425

Tgt Ion: 98 Resp: 316230

Ion Ratio Lower Upper

98 100

100 65.3 53.4 80.0



#62

4-Bromofluorobenzene

Concen: 59.155 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

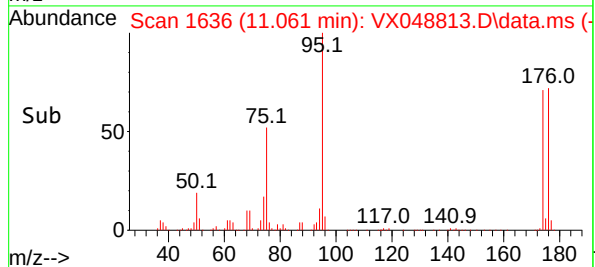
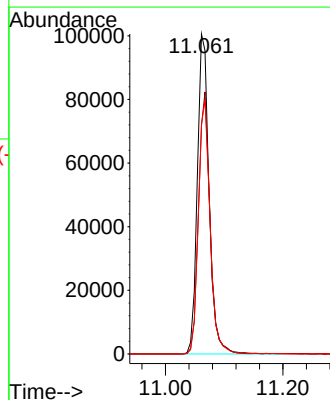
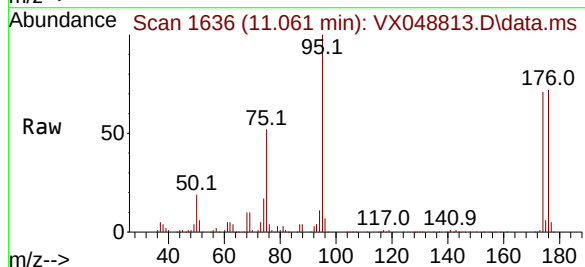
Tgt Ion: 95 Resp: 139733

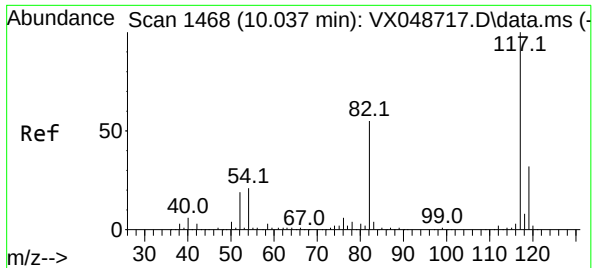
Ion Ratio Lower Upper

95 100

174 80.4 0.0 157.8

176 79.0 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

Instrument :

MSVOA_X

ClientSampleId :

TB01-120425

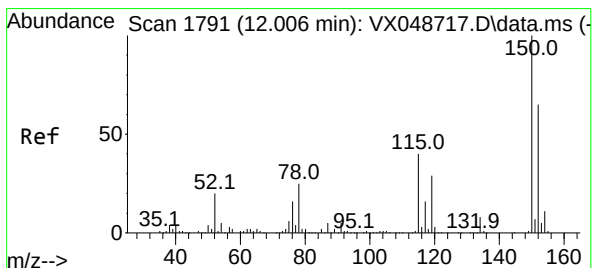
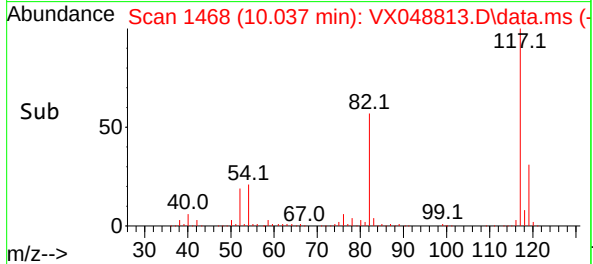
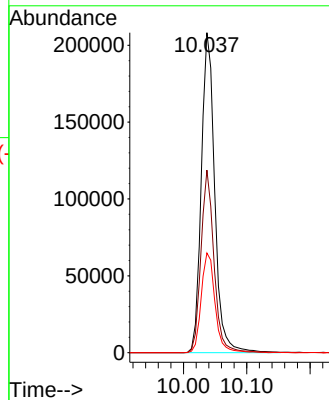
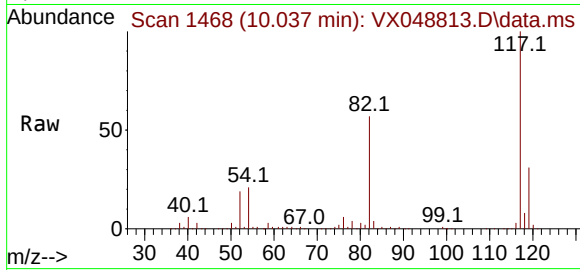
Tgt Ion:117 Resp: 308054

Ion Ratio Lower Upper

117 100

82 57.1 44.1 66.1

119 31.1 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048813.D

Acq: 10 Dec 2025 15:53

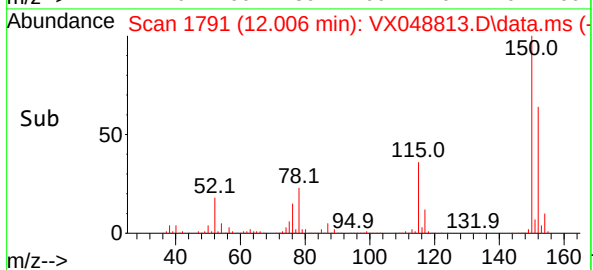
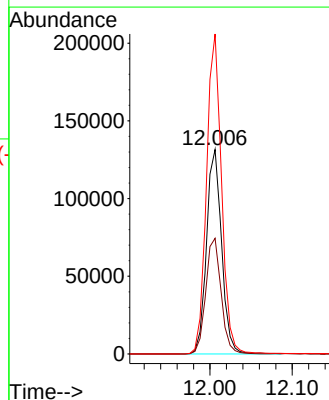
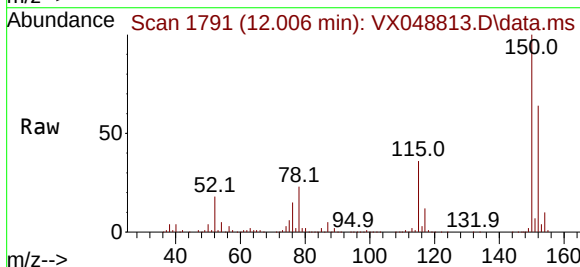
Tgt Ion:152 Resp: 167960

Ion Ratio Lower Upper

152 100

115 57.5 42.1 126.4

150 155.8 0.0 347.8





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q3787
 Instrument ID: MSVOA_X Calibration Date(s): 12/04/2025 12/04/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:47 10:38
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX048714.D		RRF005 = VX048715.D		RRF020 = VX048716.D			
		RRF050 = VX048717.D		RRF100 = VX048718.D		RRF150 = VX048719.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.704	0.624	0.667	0.709	0.700	0.704	0.685	4.9	
1,1-Dichloroethene	0.607	0.533	0.560	0.601	0.584	0.598	0.581	4.9	
1,1-Dichloroethane	1.208	0.803	1.038	0.910	1.223	0.914	1.016	16.9	
cis-1,2-Dichloroethene	0.776	0.559	0.634	0.629	0.785	0.630	0.669	13.6	
1,1,1-Trichloroethane	1.091	0.859	0.955	0.912	1.013	1.023	0.975	8.6	
Benzene	1.508	1.396	1.314	1.323	1.402	1.444	1.398	5.2	
1,2-Dichloroethane	0.554	0.497	0.439	0.452	0.525	0.502	0.495	8.7	
Trichloroethene	0.387	0.340	0.363	0.367	0.345	0.387	0.365	5.4	
1,1,2-Trichloroethane	0.359	0.316	0.325	0.378	0.310	0.347	0.339	7.9	
Tetrachloroethene	0.383	0.367	0.358	0.353	0.315	0.410	0.364	8.8	
1,2-Dichloroethane-d4		0.677	0.618	0.578	0.787	0.695	0.671	11.9	
Dibromofluoromethane		0.316	0.359	0.334	0.355	0.357	0.344	5.4	
Toluene-d8		1.281	1.161	1.312	1.051	1.228	1.207	8.6	
4-Bromofluorobenzene		0.416	0.418	0.459	0.397	0.391	0.416	6.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X120425W.M
 Title : SW846 8260
 Last Update : Fri Dec 05 03:27:34 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX048714.D 5 =VX048715.D 20 =VX048716.D 50 =VX048717.D 100 =VX048718.D 150 =VX048719.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.478	0.435	0.536	0.572	0.496	0.540	0.509	9.72
3) P	Chloromethane	0.725	0.555	0.597	0.645	0.671	0.664	0.643	9.29
4) C	Vinyl Chloride	0.704	0.624	0.667	0.709	0.700	0.704	0.685	4.87#
5) T	Bromomethane		0.439	0.431	0.467	0.441	0.338	0.423	11.68
6) T	Chloroethane	0.516	0.366	0.394	0.426	0.434	0.420	0.426	11.88
7) T	Trichlorofluor...	0.999	0.934	0.972	1.032	0.940	1.011	0.981	4.01
8) T	Diethyl Ether	0.445	0.357	0.341	0.380	0.435	0.392	0.392	10.58
9) T	1,1,2-Trichlor...	0.591	0.565	0.555	0.596	0.522	0.585	0.569	4.90
10) T	Methyl Iodide		0.589	0.745	0.865	0.957	0.893	0.810	17.96
11) T	Tert butyl alc...		0.086	0.106	0.115	0.137	0.098	0.108	17.56
12) CM	1,1-Dichloroet...	0.607	0.533	0.560	0.601	0.584	0.598	0.581	4.95#
13) T	Acrolein		0.065	0.067	0.086	0.117	0.119	0.091	28.91
14) T	Allyl chloride	1.104	0.725	0.973	1.075	1.172	0.799	0.975	18.29
15) T	Acrylonitrile	0.366	0.256	0.326	0.367	0.423	0.288	0.338	17.97
16) T	Acetone	0.319	0.213	0.221	0.247	0.286	0.255	0.257	15.61
17) T	Carbon Disulfide	1.975	1.314	1.640	1.773	1.732	1.683	1.686	12.83
18) T	Methyl Acetate	0.831	0.525	0.697	0.777	0.907	0.600	0.723	19.86
19) T	Methyl tert-bu...	2.162	1.452	1.778	1.996	2.253	1.697	1.890	16.03
20) T	Methylene Chlo...	0.841	0.524	0.586	0.650	0.718	0.534	0.642	18.95
21) T	trans-1,2-Dich...	0.705	0.487	0.571	0.626	0.642	0.524	0.593	13.63
22) T	Diisopropyl ether	2.158	1.457	1.895	1.567	2.280	1.573	1.822	18.81
23) T	Vinyl Acetate	1.537	1.176	1.611	1.382	2.071	1.407	1.531	19.86
24) P	1,1-Dichloroet...	1.208	0.803	1.038	0.910	1.223	0.914	1.016	16.91
25) T	2-Butanone	0.399	0.286	0.402	0.337	0.507	0.344	0.379	20.00
26) T	2,2-Dichloropr...	1.068	0.780	0.883	0.831	0.994	0.839	0.899	12.22
27) T	cis-1,2-Dichlo...	0.776	0.559	0.634	0.629	0.785	0.630	0.669	13.63
28) T	Bromochloromet...	0.565	0.416	0.496	0.417	0.611	0.483	0.498	15.73
29) T	Tetrahydrofuran	0.318	0.214	0.287	0.248	0.363	0.306	0.290	18.22
30) C	Chloroform	1.260	0.905	1.053	0.981	1.212	1.121	1.089	12.46#
31) T	Cyclohexane		0.969	0.963	0.797	0.861	0.946	0.907	8.33
32) T	1,1,1-Trichlor...	1.091	0.859	0.955	0.912	1.013	1.023	0.975	8.59
33) S	1,2-Dichloroet...		0.677	0.618	0.578	0.787	0.695	0.671	11.91
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.316	0.359	0.334	0.355	0.357	0.344	5.37
36) T	1,1-Dichloropr...	0.522	0.461	0.516	0.439	0.422	0.469	0.472	8.63
37) T	Ethyl Acetate	0.555	0.474	0.655	0.540	0.688	0.469	0.563	16.19
38) T	Carbon Tetrach...	0.501	0.572	0.590	0.528	0.476	0.538	0.534	8.00
39) T	Methylcyclohexane	0.539	0.540	0.550	0.642	0.478	0.596	0.558	10.06
40) TM	Benzene	1.508	1.396	1.314	1.323	1.402	1.444	1.398	5.24
41) T	Methacrylonitrile	0.217	0.205	0.302	0.242	0.307	0.264	0.256	16.65
42) TM	1,2-Dichloroet...	0.554	0.497	0.439	0.452	0.525	0.502	0.495	8.74
43) T	Isopropyl Acetate	0.878	0.867	0.738	0.756	0.969	0.910	0.853	10.49
44) TM	Trichloroethene	0.387	0.340	0.363	0.367	0.345	0.387	0.365	5.42
45) C	1,2-Dichloropr...	0.339	0.341	0.314	0.383	0.360	0.360	0.349	6.75#
46) T	Dibromomethane	0.256	0.257	0.242	0.289	0.273	0.271	0.265	6.18
47) T	Bromodichlorom...	0.595	0.538	0.488	0.587	0.555	0.551	0.552	6.98
48) T	Methyl methacr...	0.427	0.395	0.355	0.465	0.480	0.453	0.429	10.99
49) T	1,4-Dioxane	0.006	0.005	0.005	0.006	0.007	0.006	0.006	10.25
50) S	Toluene-d8		1.281	1.161	1.312	1.051	1.228	1.207	8.63
51) T	4-Methyl-2-Pen...	0.547	0.544	0.470	0.605	0.460	0.552	0.530	10.40
52) CM	Toluene	0.838	0.786	0.831	0.964	0.751	0.888	0.843	8.96#
53) T	t-1,3-Dichloro...	0.543	0.445	0.490	0.600	0.495	0.581	0.526	11.30
54) T	cis-1,3-Dichlo...	0.540	0.537	0.531	0.644	0.524	0.613	0.565	8.94
55) T	1,1,2-Trichlor...	0.359	0.316	0.325	0.378	0.310	0.347	0.339	7.85
56) T	Ethyl methacry...	0.492	0.440	0.502	0.627	0.520	0.603	0.531	13.33

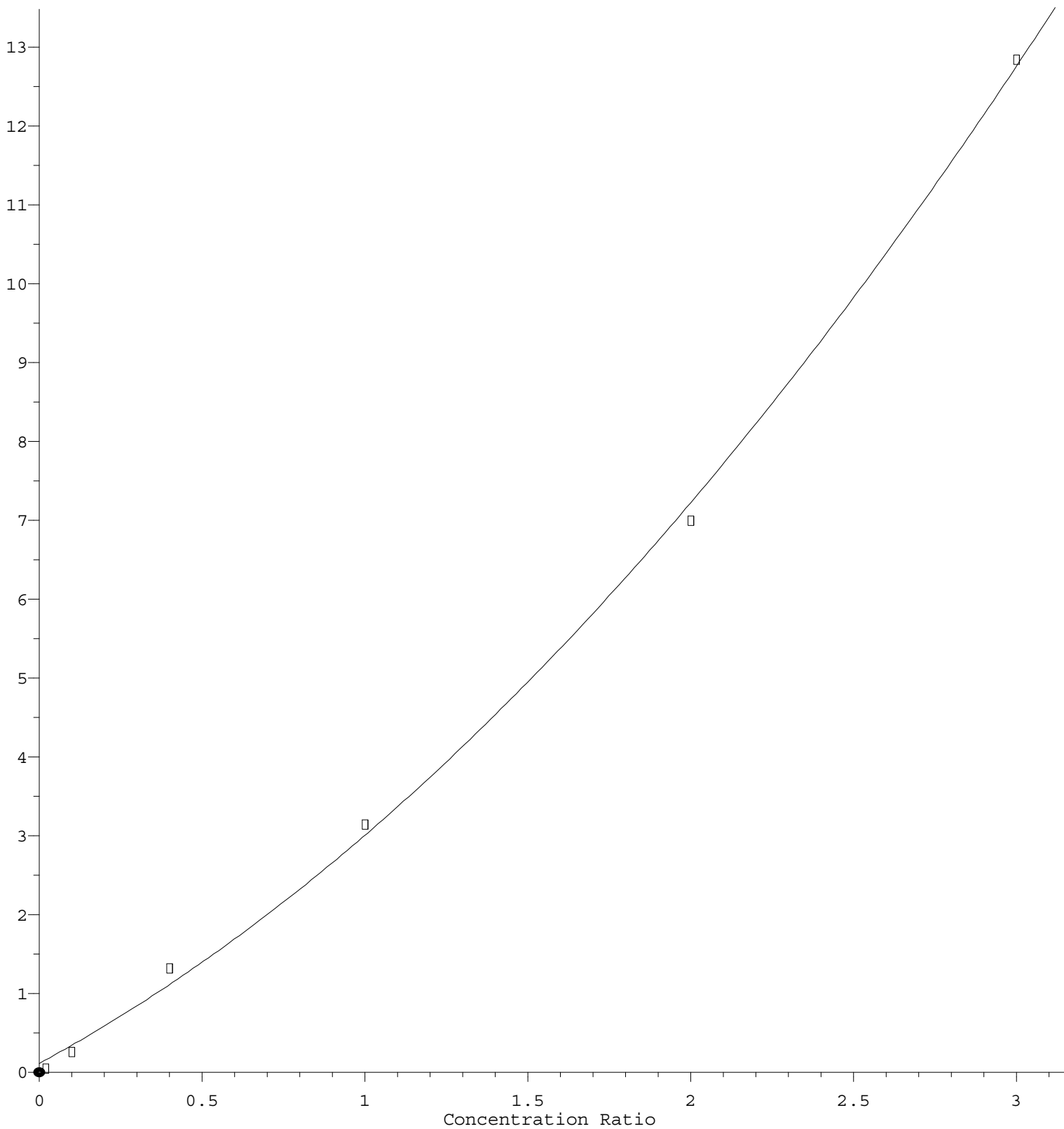
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X120425W.M

57)	T	1,3-Dichloropr...	0.620	0.509	0.535	0.628	0.513	0.579	0.564	9.39
58)	T	2-Chloroethyl ...	0.227	0.295	0.268	0.344	0.256	0.332	0.287	15.76
59)	T	2-Hexanone	0.383	0.311	0.345	0.442	0.342	0.408	0.372	13.02
60)	T	Dibromochlorom...	0.415	0.390	0.412	0.467	0.401	0.431	0.419	6.54
61)	T	1,2-Dibromoethane	0.388	0.334	0.356	0.411	0.343	0.372	0.367	7.85
62)	S	4-Bromofluorob...	0.416	0.418	0.459	0.397	0.391	0.416		6.39
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.383	0.367	0.358	0.353	0.315	0.410	0.364	8.76
65)	PM	Chlorobenzene	1.181	1.082	1.060	1.087	1.044	1.113	1.094	4.45
66)	T	1,1,1,2-Tetrac...	0.434	0.376	0.367	0.380	0.382	0.410	0.391	6.47
67)	C	Ethyl Benzene	1.741	1.720	1.759	1.893	1.702	1.900	1.786	4.93#
68)	T	m/p-Xylenes	0.699	0.675	0.684	0.717	0.664	0.736	0.696	3.89
69)	T	o-Xylene	0.577	0.634	0.658	0.678	0.653	0.712	0.652	6.98
70)	T	Styrene	0.989	1.068	1.129	1.170	1.134	1.223	1.119	7.28
71)	P	Bromoform	0.334	0.331	0.335	0.328	0.372	0.395	0.349	7.94
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.175	3.265	3.404	3.633	3.155	3.586	3.369	6.12
74)	T	N-amyl acetate	1.397	1.236	1.349	1.738	1.491	1.572	1.464	12.11
75)	P	1,1,2,2-Tetrac...	1.297	1.035	1.035	1.179	1.108	1.168	1.137	8.78
76)	T	1,2,3-Trichlor...	1.093	0.906	0.839	0.958	0.885	0.906	0.931	9.43
77)	T	Bromobenzene	0.906	0.870	0.864	0.886	0.905	0.965	0.899	4.06
78)	T	n-propylbenzene	3.763	3.672	3.959	4.306	3.582	4.133	3.902	7.19
79)	T	2-Chlorotoluene	2.399	2.263	2.342	2.521	2.260	2.493	2.380	4.70
80)	T	1,3,5-Trimethy...	2.581	2.644	2.831	2.948	2.635	2.978	2.770	6.22
81)	T	trans-1,4-Dich...	0.318	0.364	0.416	0.416	0.447	0.392		12.98
82)	T	4-Chlorotoluene	2.746	2.550	2.779	2.984	2.667	2.936	2.777	5.87
83)	T	tert-Butylbenzene	2.630	2.796	2.928	3.026	2.744	3.143	2.878	6.61
84)	T	1,2,4-Trimethy...	2.583	2.631	2.811	2.983	2.715	3.039	2.794	6.66
85)	T	sec-Butylbenzene	3.257	3.441	3.572	3.766	3.161	3.728	3.488	7.08
86)	T	p-Isopropyltol...	2.719	2.915	3.051	3.180	2.786	3.236	2.981	7.05
87)	T	1,3-Dichlorobe...	1.691	1.611	1.630	1.647	1.612	1.756	1.658	3.41
88)	T	1,4-Dichlorobe...	1.952	1.640	1.612	1.662	1.639	1.775	1.713	7.60
89)	T	n-Butylbenzene	2.735	2.610	3.077	2.959	2.457	2.909	2.791	8.34
90)	T	Hexachloroethane	0.618	0.555	0.627	0.594	0.538	0.718	0.608	10.50
91)	T	1,2-Dichlorobe...	1.632	1.491	1.702	1.582	1.557	1.680	1.607	4.95
92)	T	1,2-Dibromo-3-...	0.293	0.230	0.273	0.268	0.264	0.332	0.277	12.28
93)	T	1,2,4-Trichlor...	1.053	0.919	1.043	0.997	1.062	1.295	1.062	11.87
94)	T	Hexachlorobuta...	0.500	0.437	0.452	0.395	0.390	0.460	0.439	9.52
95)	T	Naphthalene	2.336	2.578	3.292	3.142	3.497	4.280	3.187	21.73
96)	T	1,2,3-Trichlor...	0.912	0.836	0.989	0.930	1.005	1.203	0.979	12.77

(#) = Out of Range

Naphthalene

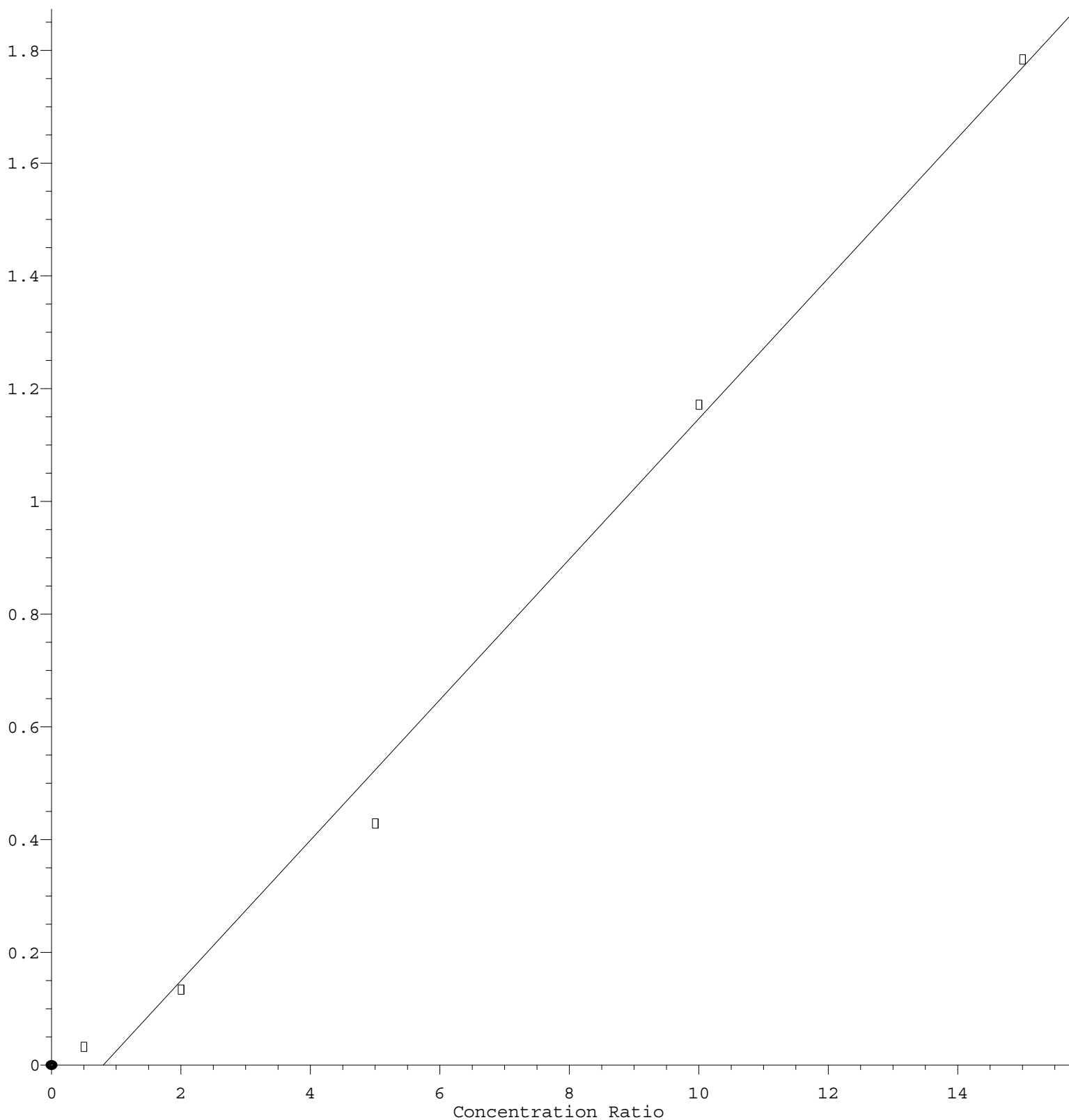
Response Ratio



$R = 6.609e-001 A^2 + 2.232e+000 A + 1.131e-001$
 Coef of Det (r^2) = 0.998889 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X120425W.M
 Calibration Table Last Updated: Fri Dec 05 03:27:34 2025

Acrolein

Response Ratio



Response = 1.246e-001 * Amt - 1.002e-001
 Coef of Det (r^2) = 0.993311 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X120425W.M
 Calibration Table Last Updated: Fri Dec 05 03:27:34 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048714.D
 Acq On : 04 Dec 2025 08:47
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:18:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:18:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	206937	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	356626	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	323968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	158289	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	78 - 117	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	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.172	85	1978	0.938	ug/l #	66
3) Chloromethane	1.300	50	3002	1.128	ug/l	92
4) Vinyl Chloride	1.380	62	2913	1.028	ug/l	99
6) Chloroethane	1.697	64	2136	1.211	ug/l	98
7) Trichlorofluoromethane	1.898	101	4135	1.018	ug/l	93
8) Diethyl Ether	2.130	74	1841	1.136	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.343	101	2444	1.038	ug/l	95
12) 1,1-Dichloroethene	2.325	96	2514	1.046	ug/l	93
14) Allyl chloride	2.660	41	4571	1.133	ug/l	94
15) Acrylonitrile	3.056	53	7576	5.422	ug/l	95
16) Acetone	2.373	43	6606	6.213	ug/l	94
17) Carbon Disulfide	2.514	76	8174	1.171	ug/l	96
18) Methyl Acetate	2.703	43	3438	1.149	ug/l	95
19) Methyl tert-butyl Ether	3.105	73	8947	1.144	ug/l #	90
20) Methylene Chloride	2.788	84	3480	1.309	ug/l	88
21) trans-1,2-Dichloroethene	3.093	96	2919	1.190	ug/l	82
22) Diisopropyl ether	3.745	45	8931	1.184	ug/l #	88
23) Vinyl Acetate	3.721	43	31813	5.021	ug/l	98
24) 1,1-Dichloroethane	3.599	63	5001	1.189	ug/l	97
25) 2-Butanone	4.544	43	8255	5.260	ug/l	97
26) 2,2-Dichloropropane	4.458	77	4420	1.188	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	3211	1.160	ug/l	88
28) Bromochloromethane	4.879	49	2337	1.134	ug/l #	83
29) Tetrahydrofuran	4.989	42	6590	5.500	ug/l #	89
30) Chloroform	5.074	83	5213	1.157	ug/l	99
32) 1,1,1-Trichloroethane	5.361	97	4515	1.118	ug/l #	48
36) 1,1-Dichloropropene	5.678	75	3726	1.108	ug/l	91
37) Ethyl Acetate	4.714	43	3958m	0.985	ug/l	
38) Carbon Tetrachloride	5.659	117	3570	0.937	ug/l #	83
39) Methylcyclohexane	7.354	83	3845	0.967	ug/l #	87
40) Benzene	6.019	78	10753	1.079	ug/l	96
41) Methacrylonitrile	4.903	41	1547	0.846	ug/l #	62
42) 1,2-Dichloroethane	6.074	62	3949	1.119	ug/l	87
43) Isopropyl Acetate	6.318	43	6262	1.029	ug/l #	94
44) Trichloroethene	7.104	130	2758	1.060	ug/l	99
45) 1,2-Dichloropropane	7.409	63	2415	0.969	ug/l #	77

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048714.D
 Acq On : 04 Dec 2025 08:47
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:18:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:18:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.568	93	1828	0.967	ug/l	95
47) Bromodichloromethane	7.799	83	4244	1.077	ug/l #	85
48) Methyl methacrylate	7.677	41	3046	0.995	ug/l	93
49) 1,4-Dioxane	7.671	88	794	18.860	ug/l #	86
51) 4-Methyl-2-Pentanone	8.555	43	19490	5.160	ug/l	97
52) Toluene	8.702	92	5975	0.994	ug/l	95
53) t-1,3-Dichloropropene	8.970	75	3870	1.032	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	3853	0.956	ug/l #	93
55) 1,1,2-Trichloroethane	9.134	97	2561	1.059	ug/l #	90
56) Ethyl methacrylate	9.098	69	3510	0.927	ug/l	91
57) 1,3-Dichloropropane	9.293	76	4423	1.100	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.232	63	8078	3.947	ug/l	97
59) 2-Hexanone	9.415	43	13642	5.145	ug/l	92
60) Dibromochloromethane	9.506	129	2961	0.990	ug/l	93
61) 1,2-Dibromoethane	9.592	107	2765	1.056	ug/l	97
64) Tetrachloroethene	9.256	164	2484	1.052	ug/l #	80
65) Chlorobenzene	10.061	112	7654	1.079	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2813	1.109	ug/l #	61
67) Ethyl Benzene	10.177	91	11281	0.975	ug/l	95
68) m/p-Xylenes	10.281	106	9059	2.010	ug/l	99
69) o-Xylene	10.622	106	3736	0.885	ug/l	84
70) Styrene	10.640	104	6411	0.884	ug/l	96
71) Bromoform	10.787	173	2166	0.957	ug/l #	97
73) Isopropylbenzene	10.945	105	10050	0.942	ug/l	100
74) N-amyl acetate	10.829	43	4424	0.955	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.195	83	4105	1.141	ug/l	98
76) 1,2,3-Trichloropropane	11.219	75	3459m	1.139	ug/l	
77) Bromobenzene	11.183	156	2868	1.007	ug/l	95
78) n-propylbenzene	11.286	91	11914	0.964	ug/l	99
79) 2-Chlorotoluene	11.347	91	7596	1.008	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	8172	0.932	ug/l	96
82) 4-Chlorotoluene	11.439	91	8694	0.989	ug/l	99
83) tert-Butylbenzene	11.695	119	8327	0.914	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	8178	0.925	ug/l	99
85) sec-Butylbenzene	11.872	105	10311	0.934	ug/l	98
86) p-Isopropyltoluene	11.988	119	8607	0.912	ug/l	87
87) 1,3-Dichlorobenzene	11.951	146	5352	1.020	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	6180m	1.139	ug/l	
89) n-Butylbenzene	12.317	91	8657	0.980	ug/l	97
90) Hexachloroethane	12.524	117	1957	1.016	ug/l	90
91) 1,2-Dichlorobenzene	12.317	146	5165	1.015	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	929	1.061	ug/l	74
93) 1,2,4-Trichlorobenzene	13.573	180	3332	0.991	ug/l	92
94) Hexachlorobutadiene	13.707	225	1584	1.139	ug/l	93
95) Naphthalene	13.762	128	7395	0.733	ug/l	99
96) 1,2,3-Trichlorobenzene	13.945	180	2886	0.931	ug/l	90

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

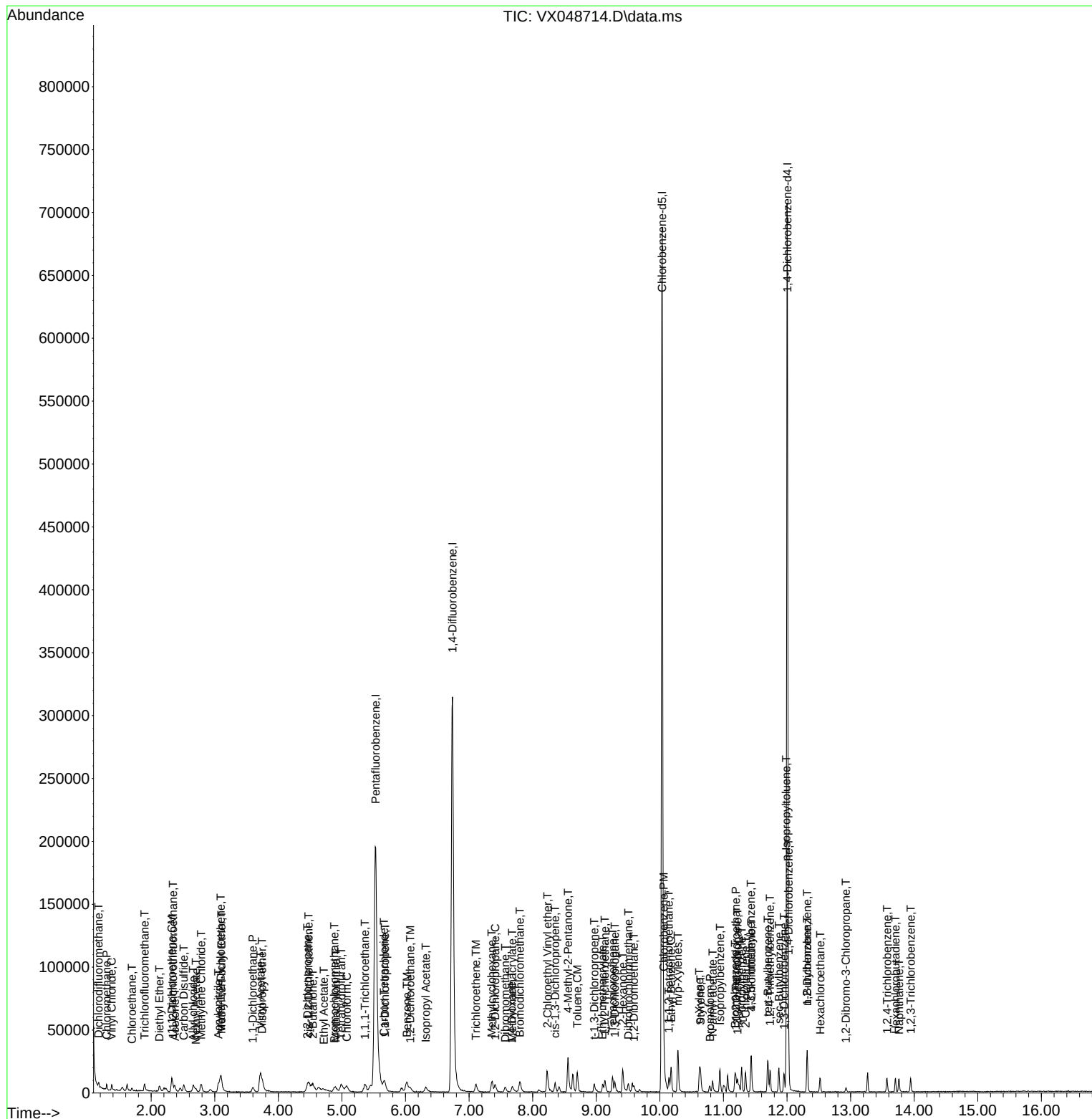
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048714.D
Acq On : 04 Dec 2025 08:47
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:18:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:18:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048715.D
 Acq On : 04 Dec 2025 09:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	228640	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	358720	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	300438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	155633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	15478	5.044	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.080%#		
35) Dibromofluoromethane	5.379	113	11348	4.594	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	9.180%#		
50) Toluene-d8	8.629	98	45948	5.307	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.620%#		
62) 4-Bromofluorobenzene	11.061	95	14926	4.999	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.000%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	9943	4.268	ug/l	99
3) Chloromethane	1.301	50	12695	4.318	ug/l	98
4) Vinyl Chloride	1.380	62	14273	4.559	ug/l	93
5) Bromomethane	1.611	94	10033	5.186	ug/l	99
6) Chloroethane	1.691	64	8374	4.298	ug/l	98
7) Trichlorofluoromethane	1.892	101	21348	4.758	ug/l	99
8) Diethyl Ether	2.130	74	8173	4.563	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	12909	4.963	ug/l	97
10) Methyl Iodide	2.453	142	13462	3.635	ug/l	99
11) Tert butyl alcohol	2.941	59	9869	19.919	ug/l	99
12) 1,1-Dichloroethene	2.319	96	12191	4.592	ug/l	96
13) Acrolein	2.233	56	7426	53.206	ug/l	98
14) Allyl chloride	2.660	41	16575	3.718	ug/l	97
15) Acrylonitrile	3.056	53	29219	18.927	ug/l	91
16) Acetone	2.374	43	24360	20.736	ug/l	98
17) Carbon Disulfide	2.514	76	30036	3.896	ug/l	100
18) Methyl Acetate	2.697	43	12011m	3.634	ug/l	
19) Methyl tert-butyl Ether	3.099	73	33202	3.843	ug/l	95
20) Methylene Chloride	2.782	84	11979	4.079	ug/l	84
21) trans-1,2-Dichloroethene	3.087	96	11131	4.108	ug/l	96
22) Diisopropyl ether	3.745	45	33324	4.000	ug/l	97
23) Vinyl Acetate	3.709	43	134450	19.207	ug/l	99
24) 1,1-Dichloroethane	3.605	63	18354	3.951	ug/l	100
25) 2-Butanone	4.532	43	32730	18.877	ug/l	98
26) 2,2-Dichloropropane	4.459	77	17823	4.336	ug/l	98
27) cis-1,2-Dichloroethene	4.471	96	12772	4.177	ug/l	97
28) Bromochloromethane	4.867	49	9519	4.181	ug/l	91
29) Tetrahydrofuran	4.977	42	24477	18.488	ug/l	94
30) Chloroform	5.080	83	20698	4.158	ug/l	93
31) Cyclohexane	5.446	56	22164	5.344	ug/l	93
32) 1,1,1-Trichloroethane	5.361	97	19635	4.402	ug/l	93
36) 1,1-Dichloropropene	5.672	75	16539	4.889	ug/l	99
37) Ethyl Acetate	4.696	43	16990m	4.203	ug/l	
38) Carbon Tetrachloride	5.653	117	20529	5.357	ug/l	92
39) Methylcyclohexane	7.360	83	19359	4.840	ug/l	94
40) Benzene	6.019	78	50087	4.994	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048715.D
 Acq On : 04 Dec 2025 09:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	7366	4.005	ug/l	97
42) 1,2-Dichloroethane	6.068	62	17832	5.024	ug/l	97
43) Isopropyl Acetate	6.312	43	31107	5.082	ug/l	95
44) Trichloroethene	7.104	130	12207	4.665	ug/l	96
45) 1,2-Dichloropropane	7.409	63	12229	4.879	ug/l	97
46) Dibromomethane	7.568	93	9236	4.859	ug/l	95
47) Bromodichloromethane	7.799	83	19311	4.873	ug/l	98
48) Methyl methacrylate	7.671	41	14173	4.603	ug/l	95
49) 1,4-Dioxane	7.641	88	3770	89.028	ug/l #	91
51) 4-Methyl-2-Pentanone	8.555	43	97596	25.688	ug/l	97
52) Toluene	8.702	92	28194	4.662	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	15951	4.231	ug/l	95
54) cis-1,3-Dichloropropene	8.348	75	19250	4.751	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	11325	4.654	ug/l	96
56) Ethyl methacrylate	9.098	69	15799	4.148	ug/l	96
57) 1,3-Dichloropropane	9.293	76	18244	4.509	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	52878	25.688	ug/l	95
59) 2-Hexanone	9.415	43	55721	20.893	ug/l	97
60) Dibromochloromethane	9.506	129	13990	4.650	ug/l	99
61) 1,2-Dibromoethane	9.592	107	11968	4.545	ug/l	100
64) Tetrachloroethene	9.256	164	11027	5.035	ug/l	93
65) Chlorobenzene	10.061	112	32494	4.941	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.140	131	11291	4.800	ug/l	95
67) Ethyl Benzene	10.177	91	51672	4.815	ug/l	99
68) m/p-Xylenes	10.281	106	40552	9.701	ug/l	99
69) o-Xylene	10.622	106	19035	4.860	ug/l	98
70) Styrene	10.640	104	32097	4.773	ug/l	98
71) Bromoform	10.781	173	9949	4.738	ug/l #	99
73) Isopropylbenzene	10.945	105	50807	4.844	ug/l	99
74) N-amyl acetate	10.829	43	19243	4.223	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.195	83	16109	4.552	ug/l	96
76) 1,2,3-Trichloropropane	11.226	75	14100m	4.722	ug/l	
77) Bromobenzene	11.183	156	13538	4.836	ug/l	91
78) n-propylbenzene	11.287	91	57143	4.704	ug/l	97
79) 2-Chlorotoluene	11.348	91	35216	4.754	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	41155	4.774	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.000	75	4948	4.055	ug/l #	87
82) 4-Chlorotoluene	11.439	91	39681	4.591	ug/l	94
83) tert-Butylbenzene	11.695	119	43520	4.858	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	40951	4.709	ug/l	97
85) sec-Butylbenzene	11.872	105	53557	4.933	ug/l	98
86) p-Isopropyltoluene	11.988	119	45373	4.890	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	25073	4.859	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	25523	4.786	ug/l	92
89) n-Butylbenzene	12.317	91	40625	4.676	ug/l	100
90) Hexachloroethane	12.518	117	8642	4.563	ug/l	95
91) 1,2-Dichlorobenzene	12.317	146	23201	4.637	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.927	75	3579	4.156	ug/l	97
93) 1,2,4-Trichlorobenzene	13.573	180	14300	4.328	ug/l	97
94) Hexachlorobutadiene	13.707	225	6803	4.977	ug/l	96
95) Naphthalene	13.756	128	40122	3.182	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	13011	4.270	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048715.D
Acq On : 04 Dec 2025 09:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:07:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

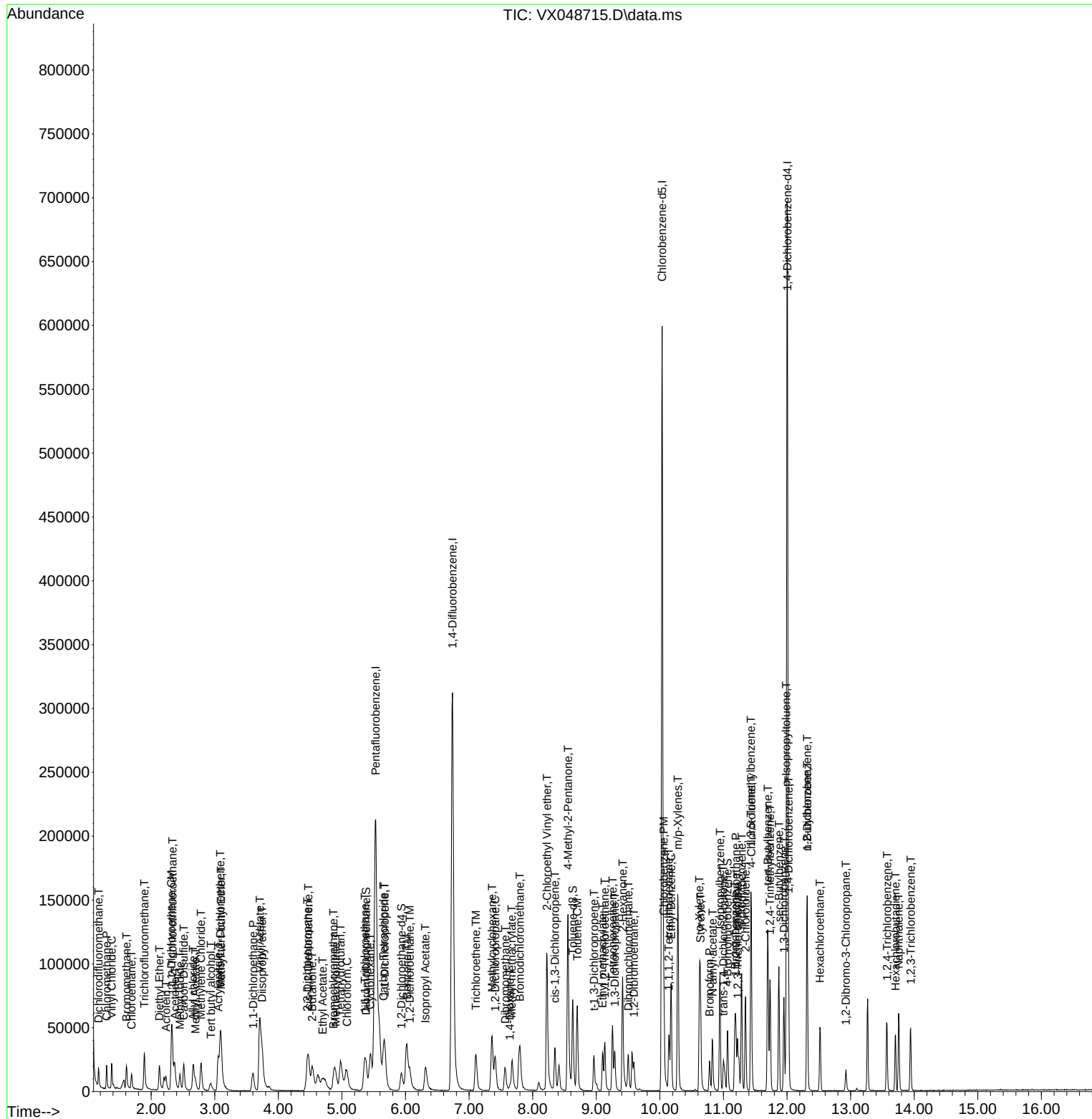
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048716.D
 Acq On : 04 Dec 2025 09:36
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	219464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	318746	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	280368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141102	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	54232	18.411	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	36.820%#
35) Dibromofluoromethane	5.373	113	45770	20.855	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	41.700%#
50) Toluene-d8	8.635	98	148035	19.243	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	38.480%#
62) 4-Bromofluorobenzene	11.061	95	53305	20.094	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	40.180%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.172	85	47089	21.059	ug/l	97
3) Chloromethane	1.301	50	52390	18.567	ug/l	96
4) Vinyl Chloride	1.380	62	58519	19.473	ug/l	98
5) Bromomethane	1.618	94	37813	20.361	ug/l	99
6) Chloroethane	1.697	64	34583	18.490	ug/l	96
7) Trichlorofluoromethane	1.898	101	85315	19.808	ug/l	99
8) Diethyl Ether	2.136	74	29915	17.401	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	48761	19.529	ug/l	99
10) Methyl Iodide	2.459	142	65436	18.408	ug/l	99
11) Tert butyl alcohol	2.934	59	46577	97.940	ug/l	99
12) 1,1-Dichloroethene	2.325	96	49149	19.286	ug/l	97
13) Acrolein	2.233	56	29353	93.831	ug/l	99
14) Allyl chloride	2.666	41	85429	19.967	ug/l	97
15) Acrylonitrile	3.056	53	142975	96.485	ug/l	99
16) Acetone	2.373	43	97117	86.124	ug/l	98
17) Carbon Disulfide	2.514	76	143976	19.454	ug/l	97
18) Methyl Acetate	2.697	43	61156	19.276	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	156080	18.819	ug/l	100
20) Methylene Chloride	2.788	84	51424	18.245	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50138	19.276	ug/l	98
22) Diisopropyl ether	3.751	45	166346	20.803	ug/l	97
23) Vinyl Acetate	3.715	43	707279	105.266	ug/l	97
24) 1,1-Dichloroethane	3.605	63	91130	20.437	ug/l	99
25) 2-Butanone	4.532	43	176425	106.006	ug/l	91
26) 2,2-Dichloropropane	4.465	77	77488	19.639	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	55622	18.951	ug/l	92
28) Bromochloromethane	4.885	49	43554	19.928	ug/l	85
29) Tetrahydrofuran	4.989	42	126095	99.224	ug/l	94
30) Chloroform	5.080	83	92401	19.339	ug/l	97
31) Cyclohexane	5.458	56	84544	21.236	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	83804	19.575	ug/l	97
36) 1,1-Dichloropropene	5.678	75	65812	21.894	ug/l	97
37) Ethyl Acetate	4.696	43	83566	23.266	ug/l	97
38) Carbon Tetrachloride	5.666	117	75238	22.097	ug/l	92
39) Methylcyclohexane	7.366	83	70160	19.739	ug/l	99
40) Benzene	6.025	78	167542	18.802	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048716.D
 Acq On : 04 Dec 2025 09:36
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2025

Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M

Quant Title : SW846 8260

QLast Update : Fri Dec 05 02:05:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	38557	23.593	ug/l	95
42) 1,2-Dichloroethane	6.068	62	55989	17.752	ug/l	99
43) Isopropyl Acetate	6.324	43	94137	17.308	ug/l	99
44) Trichloroethene	7.110	130	46220	19.879	ug/l	99
45) 1,2-Dichloropropane	7.415	63	40049	17.982	ug/l	93
46) Dibromomethane	7.568	93	30901	18.296	ug/l	96
47) Bromodichloromethane	7.805	83	62163	17.653	ug/l	96
48) Methyl methacrylate	7.677	41	45239	16.535	ug/l	96
49) 1,4-Dioxane	7.647	88	13475	358.118	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	299548	88.733	ug/l	100
52) Toluene	8.702	92	105894	19.707	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	62519	18.662	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	67666	18.794	ug/l	93
55) 1,1,2-Trichloroethane	9.134	97	41452	19.173	ug/l	98
56) Ethyl methacrylate	9.098	69	64049	18.926	ug/l	94
57) 1,3-Dichloropropane	9.293	76	68153	18.957	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	170980	93.480	ug/l	97
59) 2-Hexanone	9.415	43	220146	92.897	ug/l	98
60) Dibromochloromethane	9.506	129	52484	19.632	ug/l	100
61) 1,2-Dibromoethane	9.592	107	45333	19.373	ug/l	99
64) Tetrachloroethene	9.256	164	40200	19.671	ug/l	98
65) Chlorobenzene	10.061	112	118824	19.362	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	41197	18.768	ug/l	98
67) Ethyl Benzene	10.177	91	197228	19.695	ug/l	99
68) m/p-Xylenes	10.281	106	153388	39.322	ug/l	99
69) o-Xylene	10.622	106	73749	20.176	ug/l	98
70) Styrene	10.640	104	126646	20.182	ug/l	98
71) Bromoform	10.781	173	37588	19.181	ug/l #	97
73) Isopropylbenzene	10.945	105	192126	20.205	ug/l	99
74) N-amyl acetate	10.823	43	76117	18.423	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.195	83	58417	18.208	ug/l	97
76) 1,2,3-Trichloropropane	11.219	75	47375m	17.500	ug/l	
77) Bromobenzene	11.177	156	48752	19.209	ug/l	96
78) n-propylbenzene	11.287	91	223424	20.288	ug/l	97
79) 2-Chlorotoluene	11.347	91	132195	19.685	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	159778	20.443	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	20567	18.590	ug/l #	78
82) 4-Chlorotoluene	11.433	91	156834	20.013	ug/l	98
83) tert-Butylbenzene	11.695	119	165236	20.346	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	158676	20.126	ug/l	100
85) sec-Butylbenzene	11.872	105	201582	20.481	ug/l	98
86) p-Isopropyltoluene	11.988	119	172223	20.471	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	92004	19.665	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	90959	18.813	ug/l	98
89) n-Butylbenzene	12.317	91	173673	22.048	ug/l	100
90) Hexachloroethane	12.518	117	35390	20.611	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	96083	21.183	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	15398	19.720	ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	58891	19.658	ug/l	98
94) Hexachlorobutadiene	13.707	225	25503	20.581	ug/l	97
95) Naphthalene	13.756	128	185802	23.652	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	55848	20.215	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048716.D
Acq On : 04 Dec 2025 09:36
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048716.D
 Acq On : 04 Dec 2025 09:36
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2025

Supervised By :Semsettin Yesilyurt 12/05/2025

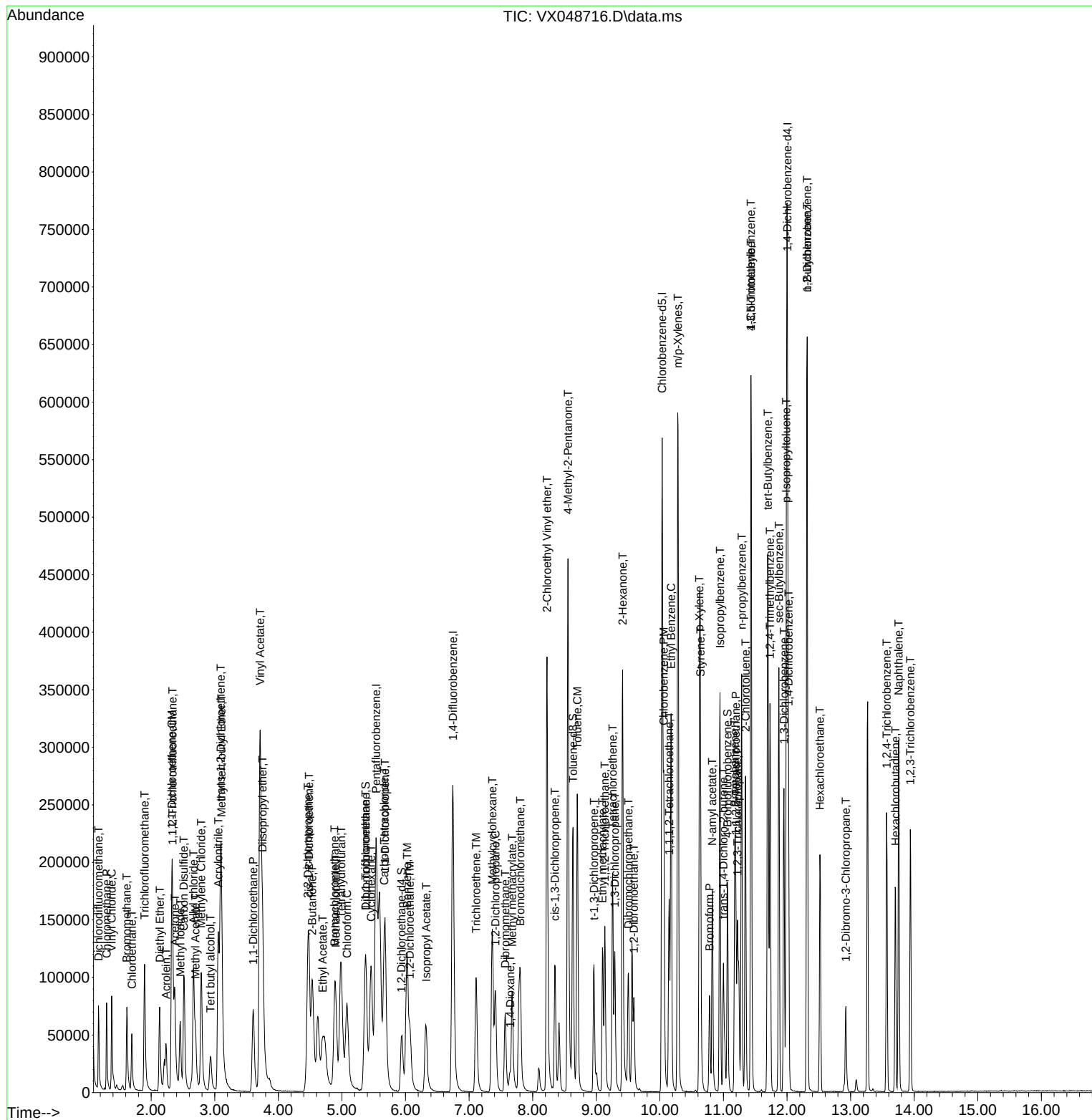
Quant Time: Dec 05 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M

Quant Title : SW846 8260

QLast Update : Fri Dec 05 02:05:18 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048717.D
 Acq On : 04 Dec 2025 09:57
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	186557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	289095	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	136461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	107907	43.095	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	86.180%		
35) Dibromofluoromethane	5.373	113	96652	48.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.120%		
50) Toluene-d8	8.635	98	379431	54.380	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	108.760%		
62) 4-Bromofluorobenzene	11.061	95	132614	55.117	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	110.240%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.173	85	106688	56.128	ug/l	100
3) Chloromethane	1.301	50	120299	50.154	ug/l	100
4) Vinyl Chloride	1.380	62	132300	51.790	ug/l	100
5) Bromomethane	1.618	94	87152	55.207	ug/l	100
6) Chloroethane	1.697	64	79501	50.005	ug/l	100
7) Trichlorofluoromethane	1.898	101	192516	52.582	ug/l	100
8) Diethyl Ether	2.136	74	70921	48.532	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	111195	52.388	ug/l	100
10) Methyl Iodide	2.459	142	161441	53.427	ug/l	100
11) Tert butyl alcohol	2.934	59	107184	265.136	ug/l	100
12) 1,1-Dichloroethene	2.325	96	112110	51.751	ug/l	100
13) Acrolein	2.233	56	79940	212.073	ug/l	100
14) Allyl chloride	2.666	41	200567	55.145	ug/l	100
15) Acrylonitrile	3.056	53	342616	271.992	ug/l	100
16) Acetone	2.374	43	229958	239.900	ug/l	100
17) Carbon Disulfide	2.520	76	330819	52.586	ug/l	100
18) Methyl Acetate	2.697	43	145030	53.775	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	372341	52.813	ug/l	100
20) Methylene Chloride	2.788	84	121277	50.618	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	116779	52.817	ug/l	100
22) Diisopropyl ether	3.751	45	292407	43.018	ug/l	100
23) Vinyl Acetate	3.715	43	1289003	225.685	ug/l	100
24) 1,1-Dichloroethane	3.605	63	169753	44.783	ug/l	100
25) 2-Butanone	4.538	43	314742	222.473	ug/l	100
26) 2,2-Dichloropropane	4.471	77	155016	46.219	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	117259	46.998	ug/l	100
28) Bromochloromethane	4.885	49	77742	41.844	ug/l	100
29) Tetrahydrofuran	4.983	42	231381	214.189	ug/l	100
30) Chloroform	5.080	83	182965	45.048	ug/l	100
31) Cyclohexane	5.464	56	148617	43.914	ug/l	100
32) 1,1,1-Trichloroethane	5.367	97	170109	46.744	ug/l	100
36) 1,1-Dichloropropene	5.684	75	126774	46.500	ug/l	100
37) Ethyl Acetate	4.696	43	156032	47.897	ug/l	100
38) Carbon Tetrachloride	5.666	117	152584	49.410	ug/l	100
39) Methylcyclohexane	7.367	83	185682	57.597	ug/l	100
40) Benzene	6.025	78	382480	47.325	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048717.D
 Acq On : 04 Dec 2025 09:57
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	70025	47.244	ug/l	100
42) 1,2-Dichloroethane	6.074	62	130710	45.694	ug/l	100
43) Isopropyl Acetate	6.324	43	218619	44.319	ug/l	100
44) Trichloroethene	7.111	130	106003	50.267	ug/l	100
45) 1,2-Dichloropropane	7.415	63	110713	54.808	ug/l	100
46) Dibromomethane	7.568	93	83655	54.610	ug/l	100
47) Bromodichloromethane	7.806	83	169698	53.133	ug/l	100
48) Methyl methacrylate	7.677	41	134523	54.212	ug/l	100
49) 1,4-Dioxane	7.641	88	36323	1064.346	ug/l	100
51) 4-Methyl-2-Pentanone	8.555	43	874869	285.735	ug/l	100
52) Toluene	8.702	92	278645	57.175	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	173511	57.105	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	186114	56.995	ug/l	100
55) 1,1,2-Trichloroethane	9.135	97	109166	55.671	ug/l	100
56) Ethyl methacrylate	9.098	69	181275	59.060	ug/l	100
57) 1,3-Dichloropropane	9.293	76	181544	55.677	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	496729	299.430	ug/l	100
59) 2-Hexanone	9.415	43	639088	297.342	ug/l	100
60) Dibromochloromethane	9.506	129	135150	55.738	ug/l	100
61) 1,2-Dibromoethane	9.592	107	118684	55.922	ug/l	100
64) Tetrachloroethene	9.256	164	98419	48.390	ug/l	100
65) Chlorobenzene	10.061	112	303422	49.679	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	105994	48.520	ug/l	100
67) Ethyl Benzene	10.177	91	528248	53.003	ug/l	100
68) m/p-Xylenes	10.281	106	399998	103.033	ug/l	100
69) o-Xylene	10.622	106	189164	51.999	ug/l	100
70) Styrene	10.640	104	326481	52.277	ug/l	100
71) Bromoform	10.781	173	91650	46.993	ug/l #	100
73) Isopropylbenzene	10.945	105	495714	53.906	ug/l	100
74) N-amyl acetate	10.823	43	237184	59.361	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	160851	51.840	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	130756m	49.942	ug/l	
77) Bromobenzene	11.177	156	120915	49.264	ug/l	100
78) n-propylbenzene	11.287	91	587537	55.165	ug/l	100
79) 2-Chlorotoluene	11.348	91	343958	52.961	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	402294	53.222	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	56706	52.997	ug/l	100
82) 4-Chlorotoluene	11.433	91	407164	53.724	ug/l	100
83) tert-Butylbenzene	11.695	119	412891	52.570	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	407120	53.394	ug/l	100
85) sec-Butylbenzene	11.872	105	513956	53.995	ug/l	100
86) p-Isopropyltoluene	11.988	119	433944	53.334	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	224775	49.677	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	226733	48.491	ug/l	100
89) n-Butylbenzene	12.311	91	403752	53.000	ug/l	100
90) Hexachloroethane	12.518	117	81034	48.798	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	215818	49.198	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	36555	48.408	ug/l	100
93) 1,2,4-Trichlorobenzene	13.567	180	136083	46.970	ug/l	100
94) Hexachlorobutadiene	13.707	225	53860	44.943	ug/l	100
95) Naphthalene	13.756	128	428755	51.898	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	126875	47.485	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048717.D
Acq On : 04 Dec 2025 09:57
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

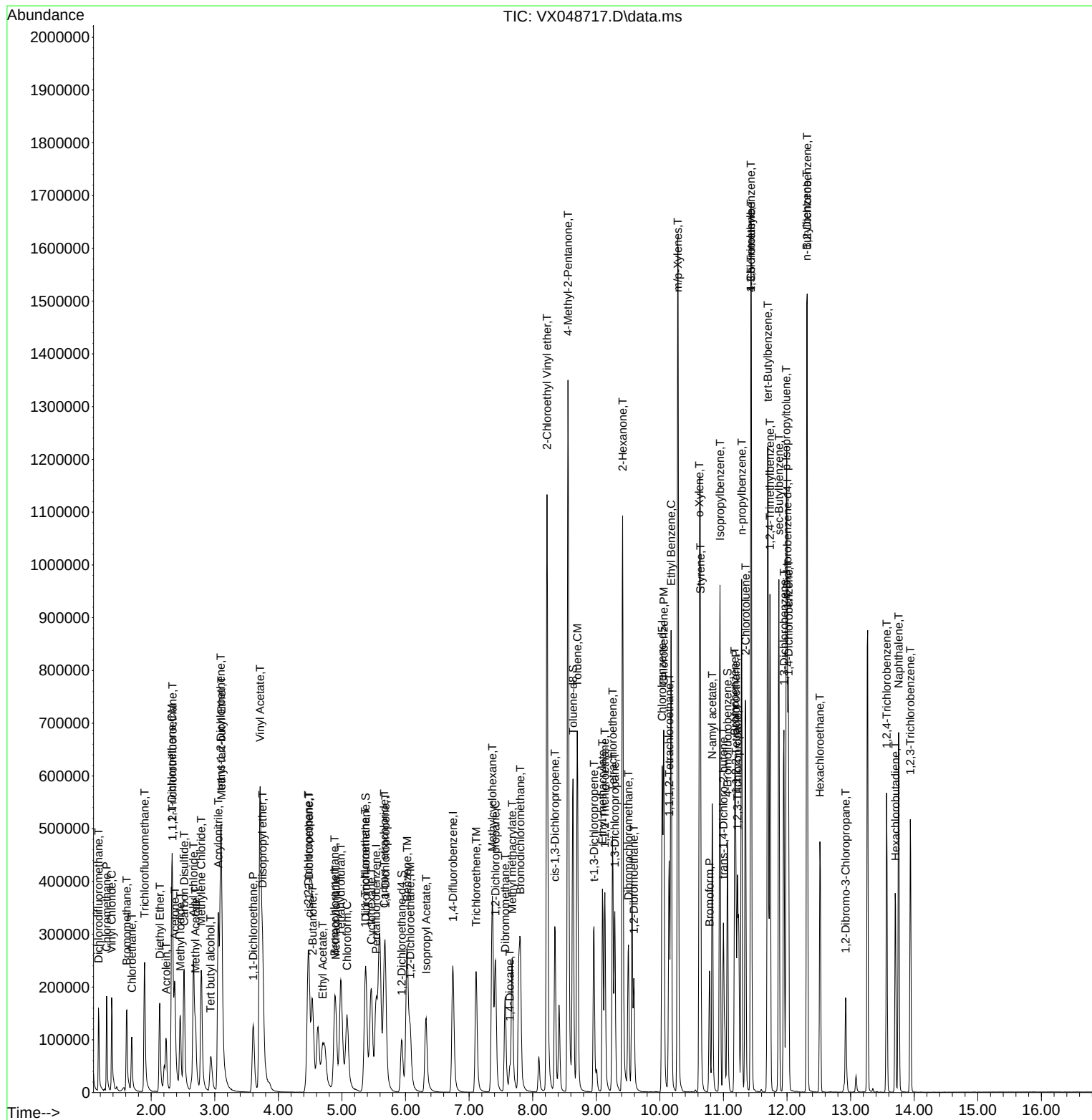
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048718.D
 Acq On : 04 Dec 2025 10:17
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	149943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	269490	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	222177	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	112983	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	236091	117.312	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 234.620%#	
35) Dibromofluoromethane	5.373	113	191311	103.102	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 206.200%#	
50) Toluene-d8	8.634	98	566679	87.124	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 174.240%#	
62) 4-Bromofluorobenzene	11.061	95	213976	95.403	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 190.800%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.172	85	148747	97.363	ug/l	98
3) Chloromethane	1.300	50	201139	104.333	ug/l	99
4) Vinyl Chloride	1.380	62	209791	102.178	ug/l	100
5) Bromomethane	1.611	94	132130	104.136	ug/l	100
6) Chloroethane	1.691	64	130144	101.847	ug/l	98
7) Trichlorofluoromethane	1.892	101	282037	95.844	ug/l	97
8) Diethyl Ether	2.136	74	130414	111.035	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	156439	91.702	ug/l	98
10) Methyl Iodide	2.459	142	286982	118.165	ug/l	100
11) Tert butyl alcohol	2.959	59	204928	630.705	ug/l	100
12) 1,1-Dichloroethene	2.325	96	175195	100.620	ug/l	96
13) Acrolein	2.233	56	175644	510.093	ug/l	99
14) Allyl chloride	2.666	41	351406	120.211	ug/l	99
15) Acrylonitrile	3.056	53	634692	626.899	ug/l	99
16) Acetone	2.373	43	428956	556.775	ug/l	98
17) Carbon Disulfide	2.514	76	519336	102.710	ug/l	99
18) Methyl Acetate	2.696	43	271853	125.412	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	675620	119.231	ug/l	99
20) Methylene Chloride	2.788	84	215266	111.785	ug/l	99
21) trans-1,2-Dichloroethene	3.093	96	192558	108.358	ug/l	98
22) Diisopropyl ether	3.751	45	683700	125.144	ug/l	98
23) Vinyl Acetate	3.715	43	3105693	676.537	ug/l	98
24) 1,1-Dichloroethane	3.605	63	366722	120.371	ug/l	98
25) 2-Butanone	4.538	43	759593	668.021	ug/l	94
26) 2,2-Dichloropropane	4.471	77	298026	110.556	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	235515	117.446	ug/l	95
28) Bromochloromethane	4.885	49	183158	122.656	ug/l	86
29) Tetrahydrofuran	4.983	42	544146	626.716	ug/l	94
30) Chloroform	5.080	83	363457	111.339	ug/l	99
31) Cyclohexane	5.464	56	258069	94.876	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	303648	103.814	ug/l	96
36) 1,1-Dichloropropene	5.684	75	227212	89.403	ug/l	99
37) Ethyl Acetate	4.696	43	370775	122.096	ug/l	99
38) Carbon Tetrachloride	5.665	117	256702	89.173	ug/l	97
39) Methylcyclohexane	7.366	83	257594	85.717	ug/l	97
40) Benzene	6.025	78	755535	100.284	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048718.D
 Acq On : 04 Dec 2025 10:17
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	165473	119.761	ug/l	95
42) 1,2-Dichloroethane	6.074	62	282907	106.094	ug/l	97
43) Isopropyl Acetate	6.324	43	522170	113.557	ug/l	96
44) Trichloroethene	7.110	130	186139	94.688	ug/l	94
45) 1,2-Dichloropropane	7.415	63	193808	102.923	ug/l	99
46) Dibromomethane	7.568	93	147078	102.996	ug/l	98
47) Bromodichloromethane	7.805	83	299209	100.499	ug/l	98
48) Methyl methacrylate	7.677	41	258497	111.752	ug/l	97
49) 1,4-Dioxane	7.647	88	71374	2243.567	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	1239027	434.110	ug/l	97
52) Toluene	8.701	92	404813	89.105	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	266630	94.136	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	282606	92.840	ug/l	96
55) 1,1,2-Trichloroethane	9.134	97	167036	91.380	ug/l	99
56) Ethyl methacrylate	9.098	69	280412	98.006	ug/l	95
57) 1,3-Dichloropropane	9.293	76	276473	90.960	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	691132	446.925	ug/l	97
59) 2-Hexanone	9.415	43	920873	459.615	ug/l	96
60) Dibromochloromethane	9.506	129	215867	95.503	ug/l	100
61) 1,2-Dibromoethane	9.592	107	185040	93.531	ug/l	99
64) Tetrachloroethene	9.256	164	139923	86.401	ug/l	97
65) Chlorobenzene	10.061	112	463830	95.375	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	169651	97.532	ug/l	100
67) Ethyl Benzene	10.177	91	756382	95.314	ug/l	100
68) m/p-Xylenes	10.287	106	589829	190.807	ug/l	96
69) o-Xylene	10.622	106	290379	100.247	ug/l	97
70) Styrene	10.640	104	503937	101.341	ug/l	99
71) Bromoform	10.780	173	165495	106.570	ug/l	100
73) Isopropylbenzene	10.945	105	712828	93.624	ug/l	100
74) N-amyl acetate	10.829	43	336967	101.859	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.195	83	250299	97.430	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	200074m	92.297	ug/l	
77) Bromobenzene	11.183	156	204596	100.679	ug/l	92
78) n-propylbenzene	11.286	91	809506	91.800	ug/l	98
79) 2-Chlorotoluene	11.347	91	510695	94.975	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	595416	95.139	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	93932	106.031	ug/l	90
82) 4-Chlorotoluene	11.433	91	602673	96.045	ug/l	98
83) tert-Butylbenzene	11.695	119	619946	95.335	ug/l	96
84) 1,2,4-Trimethylbenzene	11.731	105	613436	97.170	ug/l	99
85) sec-Butylbenzene	11.872	105	714356	90.644	ug/l	98
86) p-Isopropyltoluene	11.987	119	629447	93.439	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	364260	97.233	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	370371	95.671	ug/l	99
89) n-Butylbenzene	12.311	91	555297	88.041	ug/l	99
90) Hexachloroethane	12.518	117	121649	88.478	ug/l	94
91) 1,2-Dichlorobenzene	12.317	146	351927	96.897	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	59671	95.439	ug/l	90
93) 1,2,4-Trichlorobenzene	13.566	180	240057	100.075	ug/l	99
94) Hexachlorobutadiene	13.707	225	88160	88.851	ug/l	96
95) Naphthalene	13.755	128	790203	97.658	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	226988	102.608	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048718.D
Acq On : 04 Dec 2025 10:17
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:09:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048718.D
 Acq On : 04 Dec 2025 10:17
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDIC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/05/2025

Supervised By :Semsettin Yesilyurt 12/05/2025

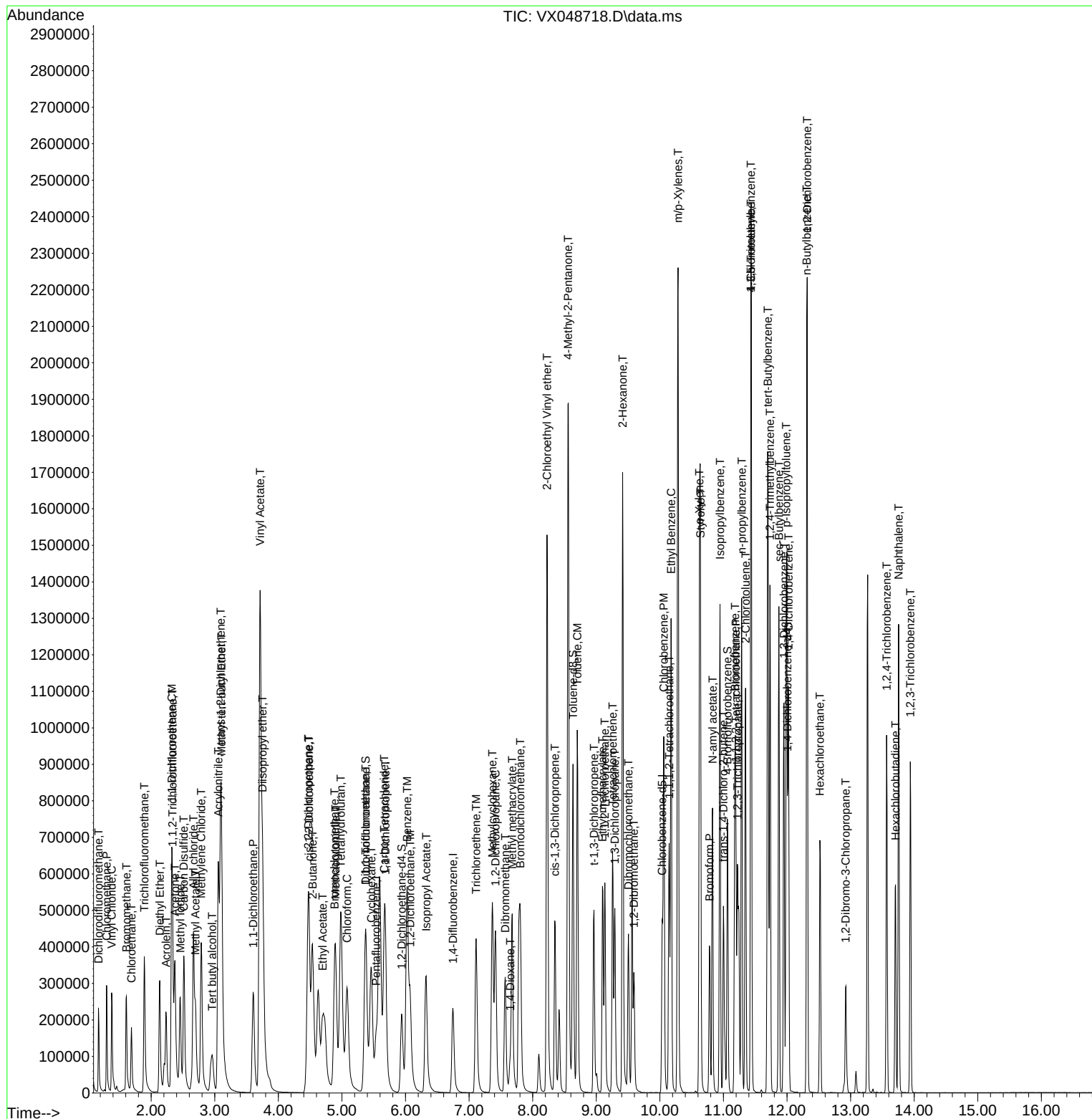
Quant Time: Dec 05 02:09:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M

Quant Title : SW846 8260

QLast Update : Fri Dec 05 02:05:18 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048719.D
 Acq On : 04 Dec 2025 10:38
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:10:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	161225	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	266084	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	202872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	103615	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	336173	155.353	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 310.700%#	
35) Dibromofluoromethane	5.373	113	284768	155.433	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 310.860%#	
50) Toluene-d8	8.635	98	980276	152.642	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 305.280%#	
62) 4-Bromofluorobenzene	11.061	95	311931	140.857	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 281.720%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	260977	158.870	ug/l	99
3) Chloromethane	1.301	50	321280	154.990	ug/l	99
4) Vinyl Chloride	1.380	62	340742	154.345	ug/l	99
5) Bromomethane	1.605	94	163576	119.898	ug/l	100
6) Chloroethane	1.685	64	203254	147.930	ug/l	98
7) Trichlorofluoromethane	1.892	101	488765	154.472	ug/l	97
8) Diethyl Ether	2.136	74	189537	150.080	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	282907	154.231	ug/l	99
10) Methyl Iodide	2.453	142	431805	165.355	ug/l	100
11) Tert butyl alcohol	2.977	59	236315	676.410	ug/l	100
12) 1,1-Dichloroethene	2.325	96	289225	154.488	ug/l	97
13) Acrolein	2.233	56	287608	755.796	ug/l	99
14) Allyl chloride	2.666	41	386590	122.993	ug/l	96
15) Acrylonitrile	3.056	53	695550	638.935	ug/l	99
16) Acetone	2.373	43	617325	745.203	ug/l	99
17) Carbon Disulfide	2.514	76	813894	149.701	ug/l	99
18) Methyl Acetate	2.697	43	290410	124.598	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	820601	134.683	ug/l	97
20) Methylene Chloride	2.788	84	258488	124.837	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	253511	132.675	ug/l	93
22) Diisopropyl ether	3.751	45	760942	129.535	ug/l	98
23) Vinyl Acetate	3.715	43	3401948	689.215	ug/l	100
24) 1,1-Dichloroethane	3.605	63	441859	134.884	ug/l	99
25) 2-Butanone	4.544	43	831570	680.145	ug/l	100
26) 2,2-Dichloropropane	4.471	77	405592	139.930	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	304797	141.360	ug/l	100
28) Bromochloromethane	4.891	49	233635	145.511	ug/l	95
29) Tetrahydrofuran	4.983	42	740891	793.604	ug/l	96
30) Chloroform	5.080	83	542284	154.495	ug/l	99
31) Cyclohexane	5.464	56	457324	156.365	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	494982	157.387	ug/l	98
36) 1,1-Dichloropropene	5.684	75	374749	149.343	ug/l	99
37) Ethyl Acetate	4.696	43	374331	124.844	ug/l	97
38) Carbon Tetrachloride	5.666	117	429152	150.987	ug/l	97
39) Methylcyclohexane	7.367	83	475877	160.380	ug/l	99
40) Benzene	6.025	78	1152810	154.974	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048719.D
 Acq On : 04 Dec 2025 10:38
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 05 02:10:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 02:05:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/05/2025
 Supervised By : Semsettin Yesilyurt 12/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	210934	154.617	ug/l	99
42) 1,2-Dichloroethane	6.074	62	400347	152.058	ug/l	98
43) Isopropyl Acetate	6.324	43	726750	160.070	ug/l	99
44) Trichloroethene	7.110	130	308803	159.098	ug/l	99
45) 1,2-Dichloropropane	7.415	63	287426	154.593	ug/l	99
46) Dibromomethane	7.568	93	216552	153.589	ug/l	98
47) Bromodichloromethane	7.805	83	440047	149.695	ug/l	97
48) Methyl methacrylate	7.677	41	361697	158.368	ug/l	99
49) 1,4-Dioxane	7.653	88	102268	3255.837	ug/l	96
51) 4-Methyl-2-Pentanone	8.561	43	2202246	781.463	ug/l	99
52) Toluene	8.702	92	709062	158.073	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	463456	165.721	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	489309	162.802	ug/l	96
55) 1,1,2-Trichloroethane	9.134	97	277366	153.680	ug/l	98
56) Ethyl methacrylate	9.104	69	481264	170.358	ug/l	97
57) 1,3-Dichloropropane	9.293	76	462553	154.128	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.232	63	1324521	867.473	ug/l	99
59) 2-Hexanone	9.415	43	1628603	823.253	ug/l	99
60) Dibromochloromethane	9.506	129	344385	154.312	ug/l	99
61) 1,2-Dibromoethane	9.592	107	296681	151.881	ug/l	99
64) Tetrachloroethene	9.256	164	249690	168.852	ug/l	99
65) Chlorobenzene	10.061	112	677420	152.550	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	249387	157.014	ug/l	99
67) Ethyl Benzene	10.177	91	1156627	159.619	ug/l	99
68) m/p-Xylenes	10.287	106	895563	317.279	ug/l	97
69) o-Xylene	10.622	106	433369	163.848	ug/l	97
70) Styrene	10.640	104	744510	163.967	ug/l	99
71) Bromoform	10.781	173	240629	169.697	ug/l	100
73) Isopropylbenzene	10.945	105	1114762	159.651	ug/l	100
74) N-amyl acetate	10.829	43	488735	161.092	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.195	83	363135	154.132	ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	281629m	141.666	ug/l	
77) Bromobenzene	11.183	156	299915	160.928	ug/l	95
78) n-propylbenzene	11.287	91	1284705	158.861	ug/l	98
79) 2-Chlorotoluene	11.348	91	774892	157.137	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	925692	161.286	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	138844	170.898	ug/l	86
82) 4-Chlorotoluene	11.439	91	912659	158.596	ug/l	98
83) tert-Butylbenzene	11.695	119	977059	163.836	ug/l	97
84) 1,2,4-Trimethylbenzene	11.732	105	944577	163.151	ug/l	99
85) sec-Butylbenzene	11.872	105	1158976	160.357	ug/l	98
86) p-Isopropyltoluene	11.994	119	1005907	162.823	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	545971	158.914	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	551782	155.418	ug/l	98
89) n-Butylbenzene	12.317	91	904369	156.349	ug/l	99
90) Hexachloroethane	12.518	117	223207	177.022	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	522301	156.808	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	103188	179.963	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	402548	182.988	ug/l	98
94) Hexachlorobutadiene	13.707	225	143127	157.291	ug/l	98
95) Naphthalene	13.756	128	1330400	150.662	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	373809	184.254	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On : 04 Dec 2025 10:38
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration

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

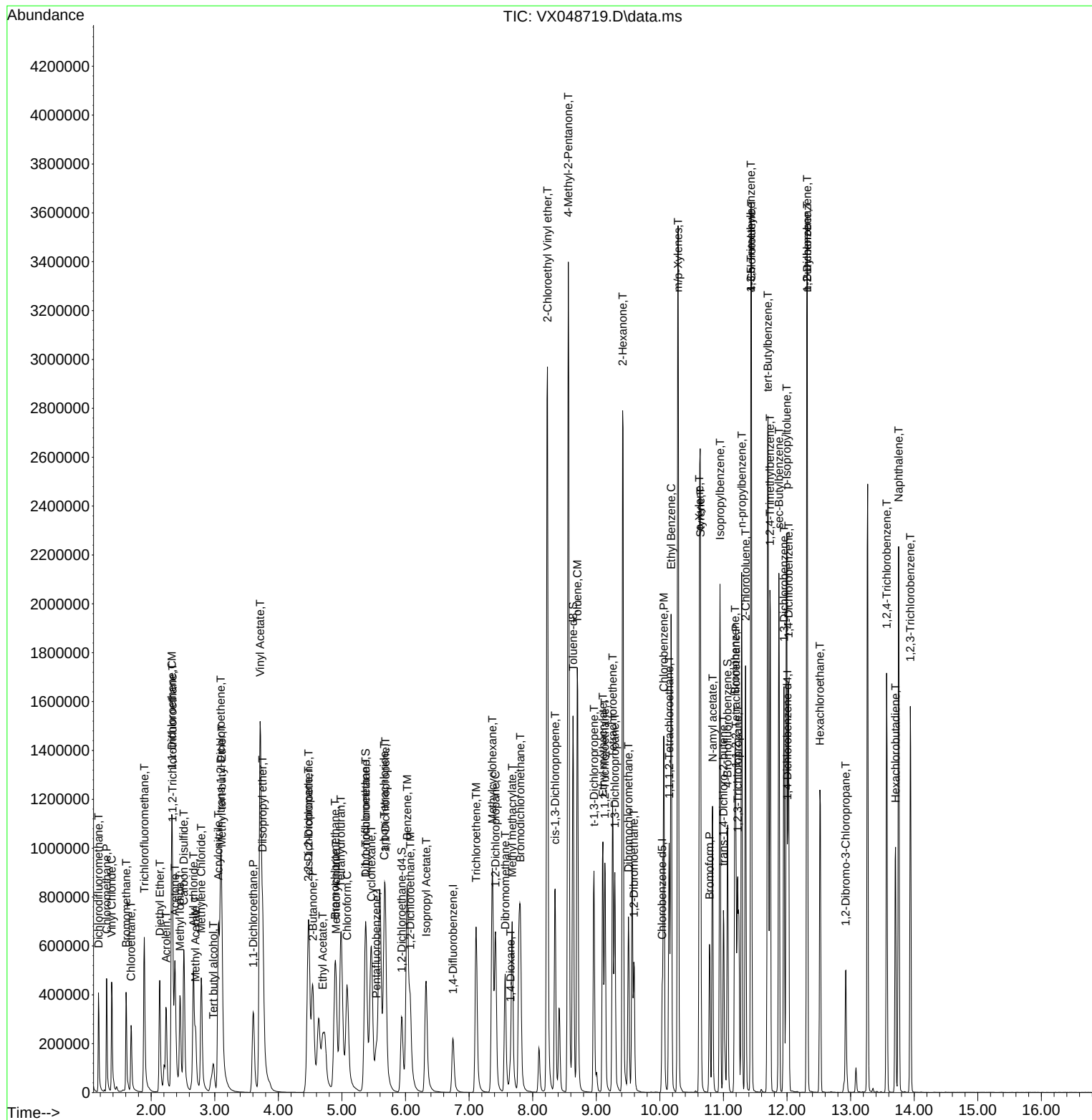
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048719.D
Acq On    : 04 Dec 2025  10:38
Operator  : JC/MD
Sample    : VSTDICC150
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 7   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 02:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 02:05:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX120425

Quant Time: Dec 05 03:31:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	184967	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	310263	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253965	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	132465	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	134442	54.154	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.300%	
35) Dibromofluoromethane	5.373	113	106728	49.960	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.920%	
50) Toluene-d8	8.634	98	333564	44.544	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 89.080%#	
62) 4-Bromofluorobenzene	11.061	95	128866	49.905	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 99.820%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.172	85	110698	58.738	ug/l	98
3) Chloromethane	1.300	50	116116	48.826	ug/l	99
4) Vinyl Chloride	1.380	62	122990	48.559	ug/l	99
5) Bromomethane	1.611	94	85918	54.893	ug/l	100
6) Chloroethane	1.697	64	76727	48.675	ug/l	98
7) Trichlorofluoromethane	1.898	101	177151	48.801	ug/l	96
8) Diethyl Ether	2.136	74	69765	48.151	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	96207	45.717	ug/l	96
10) Methyl Iodide	2.459	142	150980	50.395	ug/l	99
11) Tert butyl alcohol	2.940	59	100301	250.243	ug/l	99
12) 1,1-Dichloroethene	2.325	96	100196	46.649	ug/l	93
13) Acrolein	2.233	56	88451	232.010	ug/l	99
14) Allyl chloride	2.666	41	153518	42.572	ug/l	98
15) Acrylonitrile	3.056	53	283115	226.688	ug/l	98
16) Acetone	2.373	43	194390	204.537	ug/l	98
17) Carbon Disulfide	2.520	76	256217	41.077	ug/l	100
18) Methyl Acetate	2.696	43	118728	44.401	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	318949	45.629	ug/l	98
20) Methylene Chloride	2.788	84	113128	47.622	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	97130	44.308	ug/l	95
22) Diisopropyl ether	3.751	45	340522	50.527	ug/l	99
23) Vinyl Acetate	3.715	43	1563197	276.044	ug/l	98
24) 1,1-Dichloroethane	3.605	63	198478	52.811	ug/l	99
25) 2-Butanone	4.538	43	342340	244.061	ug/l	99
26) 2,2-Dichloropropane	4.471	77	152491	45.857	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	118820	48.033	ug/l	99
28) Bromochloromethane	4.885	49	82967	45.040	ug/l	97
29) Tetrahydrofuran	4.983	42	297621	277.876	ug/l	95
30) Chloroform	5.086	83	209644	52.061	ug/l	99
31) Cyclohexane	5.464	56	164989	49.171	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	180664	50.071	ug/l	97
36) 1,1-Dichloropropene	5.684	75	138860	47.458	ug/l	99
37) Ethyl Acetate	4.696	43	161815	46.283	ug/l	98
38) Carbon Tetrachloride	5.665	117	156330	47.169	ug/l	98
39) Methylcyclohexane	7.366	83	146837	42.440	ug/l	99
40) Benzene	6.025	78	436935	50.374	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX120425

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:31:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.903	41	77315	48.603	ug/l	98
42) 1,2-Dichloroethane	6.074	62	156709	51.045	ug/l	97
43) Isopropyl Acetate	6.324	43	284443	53.729	ug/l	97
44) Trichloroethene	7.110	130	102412	45.250	ug/l	94
45) 1,2-Dichloropropane	7.415	63	93080	42.935	ug/l	99
46) Dibromomethane	7.568	93	71939	43.757	ug/l	95
47) Bromodichloromethane	7.805	83	147055	42.902	ug/l	99
48) Methyl methacrylate	7.677	41	112824	42.366	ug/l	96
49) 1,4-Dioxane	7.647	88	36105	985.778	ug/l	93
51) 4-Methyl-2-Pentanone	8.555	43	724550	220.496	ug/l	97
52) Toluene	8.702	92	241004	46.077	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	151680	46.514	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	160155	45.699	ug/l	93
55) 1,1,2-Trichloroethane	9.134	97	96409	45.811	ug/l	99
56) Ethyl methacrylate	9.098	69	158928	48.247	ug/l	94
57) 1,3-Dichloropropane	9.293	76	158926	45.415	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	431918	242.598	ug/l	98
59) 2-Hexanone	9.415	43	548159	237.637	ug/l	97
60) Dibromochloromethane	9.506	129	123372	47.409	ug/l	100
61) 1,2-Dibromoethane	9.592	107	104948	46.076	ug/l	99
64) Tetrachloroethene	9.256	164	84359	45.571	ug/l	98
65) Chlorobenzene	10.061	112	268428	48.287	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.146	131	98651	49.615	ug/l	97
67) Ethyl Benzene	10.177	91	454183	50.069	ug/l	99
68) m/p-Xylenes	10.287	106	364130	103.051	ug/l	98
69) o-Xylene	10.622	106	170785	51.580	ug/l	97
70) Styrene	10.640	104	292377	51.437	ug/l	99
71) Bromoform	10.780	173	91220	51.388	ug/l #	99
73) Isopropylbenzene	10.945	105	477424	53.483	ug/l	99
74) N-amyl acetate	10.823	43	228431	58.895	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	160485	53.282	ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	131988m	53.497	ug/l	
77) Bromobenzene	11.177	156	119980	50.357	ug/l	98
78) n-propylbenzene	11.286	91	542000	52.425	ug/l	100
79) 2-Chlorotoluene	11.347	91	324683	51.501	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	380771	51.894	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	55921	53.840	ug/l	96
82) 4-Chlorotoluene	11.433	91	386271	52.505	ug/l	100
83) tert-Butylbenzene	11.695	119	382261	50.138	ug/l	99
84) 1,2,4-Trimethylbenzene	11.731	105	381863	51.592	ug/l	99
85) sec-Butylbenzene	11.872	105	467593	50.606	ug/l	99
86) p-Isopropyltoluene	11.988	119	397475	50.326	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	215432	49.048	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	216879	47.783	ug/l	99
89) n-Butylbenzene	12.311	91	375250	50.745	ug/l	99
90) Hexachloroethane	12.518	117	75643	46.926	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	204807	48.097	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	37176	50.715	ug/l	95
93) 1,2,4-Trichlorobenzene	13.567	180	132170	46.996	ug/l	99
94) Hexachlorobutadiene	13.707	225	52466	45.101	ug/l	95
95) Naphthalene	13.755	128	452299	55.628	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	128090	49.386	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX120425

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

ICVVX120425

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/05/2025

Supervised By : Semsettin Yesilyurt 12/05/2025

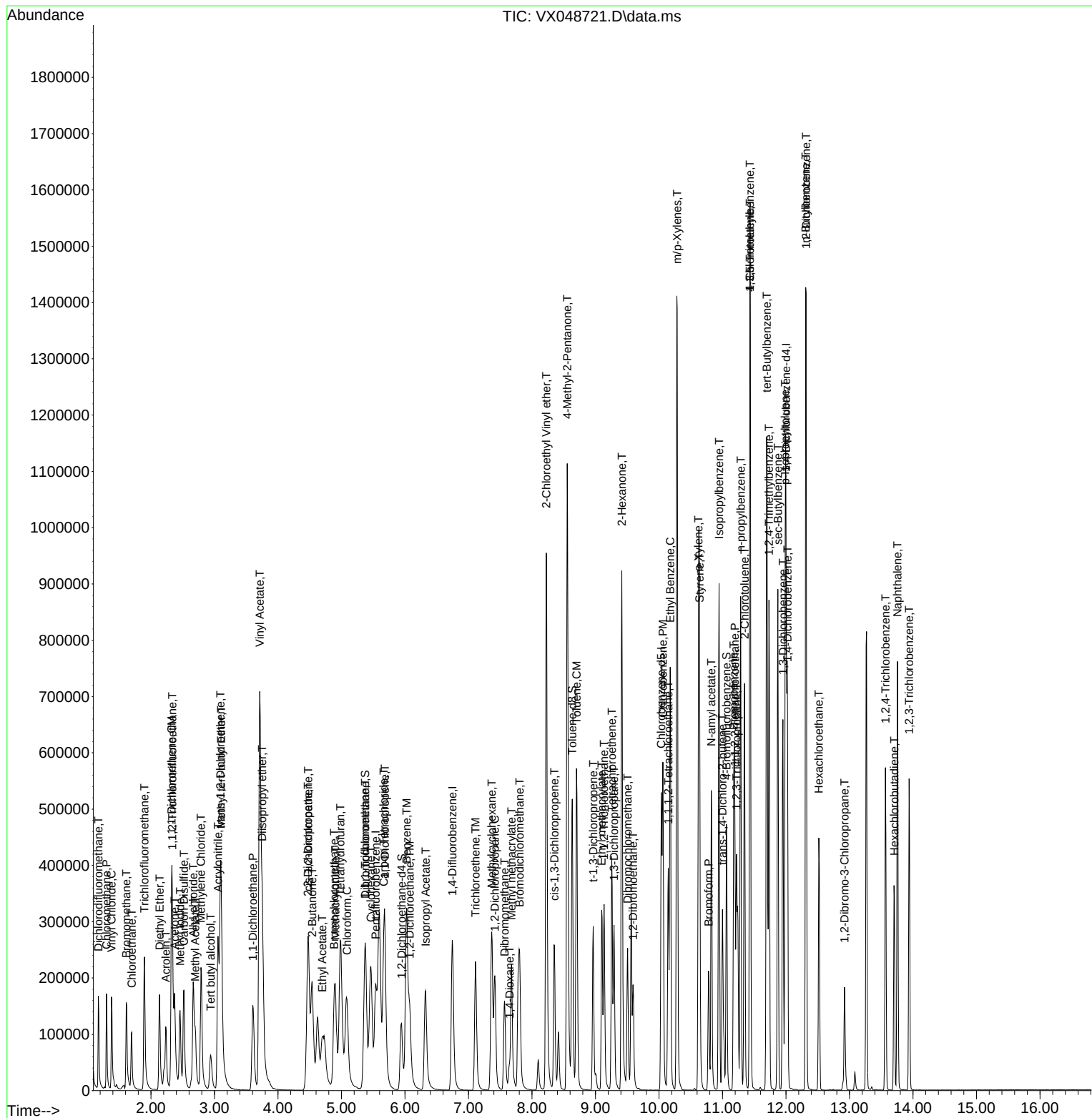
Quant Time: Dec 05 03:31:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M

Quant Title : SW846 8260

QLast Update : Fri Dec 05 03:27:34 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
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 Operator : JC/MD
 Sample : VSTDICV050
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	0.509	0.598	-17.5	104	0.00
3 P	Chloromethane	0.643	0.628	2.3	97	0.00
4 C	Vinyl Chloride	0.685	0.665	2.9#	93	0.00
5 T	Bromomethane	0.423	0.465	-9.9	99	0.00
6 T	Chloroethane	0.426	0.415	2.6	97	0.00
7 T	Trichlorofluoromethane	0.981	0.958	2.3	92	0.00
8 T	Diethyl Ether	0.392	0.377	3.8	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.520	8.6	87	0.00
10 T	Methyl Iodide	0.810	0.816	-0.7	94	0.00
11 T	Tert butyl alcohol	0.108	0.108	0.0	94	0.00
12 CM	1,1-Dichloroethene	0.581	0.542	6.7#	89	0.00
13 T	Acrolein	0.091	0.096	-5.5	111	0.00
14 T	Allyl chloride	0.975	0.830	14.9	77	0.00
15 T	Acrylonitrile	0.338	0.306	9.5	83	0.00
16 T	Acetone	0.257	0.210	18.3	85	0.00
17 T	Carbon Disulfide	1.686	1.385	17.9	77	0.00
18 T	Methyl Acetate	0.723	0.642	11.2	82	0.00
19 T	Methyl tert-butyl Ether	1.890	1.724	8.8	86	0.00
20 T	Methylene Chloride	0.642	0.612	4.7	93	0.00
21 T	trans-1,2-Dichloroethene	0.593	0.525	11.5	83	0.00
22 T	Diisopropyl ether	1.822	1.841	-1.0	116	0.00
23 T	Vinyl Acetate	1.531	1.690	-10.4	121	0.00
24 P	1,1-Dichloroethane	1.016	1.073	-5.6	117	0.00
25 T	2-Butanone	0.379	0.370	2.4	109	0.00
26 T	2,2-Dichloropropane	0.899	0.824	8.3	98	0.00
27 T	cis-1,2-Dichloroethene	0.669	0.642	4.0	101	0.00
28 T	Bromochloromethane	0.498	0.449	9.8	107	0.00
29 T	Tetrahydrofuran	0.290	0.322	-11.0	129	0.00
30 C	Chloroform	1.089	1.133	-4.0#	115	0.00
31 T	Cyclohexane	0.907	0.892	1.7	111	0.00
32 T	1,1,1-Trichloroethane	0.975	0.977	-0.2	106	0.00
33 S	1,2-Dichloroethane-d4	0.671	0.727	-8.3	125	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
35 S	Dibromofluoromethane	0.344	0.344	0.0	110	0.00
36 T	1,1-Dichloropropene	0.472	0.448	5.1	110	0.00
37 T	Ethyl Acetate	0.563	0.522	7.3	104	0.00
38 T	Carbon Tetrachloride	0.534	0.504	5.6	102	0.00
39 T	Methylcyclohexane	0.558	0.473	15.2	79	0.00
40 TM	Benzene	1.398	1.408	-0.7	114	0.00
41 T	Methacrylonitrile	0.256	0.249	2.7	110	0.00
42 TM	1,2-Dichloroethane	0.495	0.505	-2.0	120	0.00
43 T	Isopropyl Acetate	0.853	0.917	-7.5	130	0.00
44 TM	Trichloroethene	0.365	0.330	9.6	97	0.00
45 C	1,2-Dichloropropane	0.349	0.300	14.0#	84	0.00
46 T	Dibromomethane	0.265	0.232	12.5	86	0.00
47 T	Bromodichloromethane	0.552	0.474	14.1	87	0.00
48 T	Methyl methacrylate	0.429	0.364	15.2	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX120425

Quant Time: Dec 05 03:31:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.006	0.0	99	0.00
50 S	Toluene-d8	1.207	1.075	10.9	88	0.00
51 T	4-Methyl-2-Pentanone	0.530	0.467	11.9	83	0.00
52 CM	Toluene	0.843	0.777	7.8#	86	0.00
53 T	t-1,3-Dichloropropene	0.526	0.489	7.0	87	0.00
54 T	cis-1,3-Dichloropropene	0.565	0.516	8.7	86	0.00
55 T	1,1,2-Trichloroethane	0.339	0.311	8.3	88	0.00
56 T	Ethyl methacrylate	0.531	0.512	3.6	88	0.00
57 T	1,3-Dichloropropane	0.564	0.512	9.2	88	0.00
58 T	2-Chloroethyl Vinyl ether	0.287	0.278	3.1	87	0.00
59 T	2-Hexanone	0.372	0.353	5.1	86	0.00
60 T	Dibromochloromethane	0.419	0.398	5.0	91	0.00
61 T	1,2-Dibromoethane	0.367	0.338	7.9	88	0.00
62 S	4-Bromofluorobenzene	0.416	0.415	0.2	97	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64 T	Tetrachloroethene	0.364	0.332	8.8	86	0.00
65 PM	Chlorobenzene	1.094	1.057	3.4	88	0.00
66 T	1,1,1,2-Tetrachloroethane	0.391	0.388	0.8	93	0.00
67 C	Ethyl Benzene	1.786	1.788	-0.1#	86	0.00
68 T	m/p-Xylenes	0.696	0.717	-3.0	91	0.00
69 T	o-Xylene	0.652	0.672	-3.1	90	0.00
70 T	Styrene	1.119	1.151	-2.9	90	0.00
71 P	Bromoform	0.349	0.359	-2.9	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.369	3.604	-7.0	96	0.00
74 T	N-amyl acetate	1.464	1.724	-17.8	96	0.00
75 P	1,1,2,2-Tetrachloroethane	1.137	1.212	-6.6	100	0.00
76 T	1,2,3-Trichloropropane	0.931	0.996	-7.0	101	0.00
77 T	Bromobenzene	0.899	0.906	-0.8	99	0.00
78 T	n-propylbenzene	3.902	4.092	-4.9	92	0.00
79 T	2-Chlorotoluene	2.380	2.451	-3.0	94	0.00
80 T	1,3,5-Trimethylbenzene	2.770	2.875	-3.8	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.392	0.422	-7.7	99	0.00
82 T	4-Chlorotoluene	2.777	2.916	-5.0	95	0.00
83 T	tert-Butylbenzene	2.878	2.886	-0.3	93	0.00
84 T	1,2,4-Trimethylbenzene	2.794	2.883	-3.2	94	0.00
85 T	sec-Butylbenzene	3.488	3.530	-1.2	91	0.00
86 T	p-Isopropyltoluene	2.981	3.001	-0.7	92	0.00
87 T	1,3-Dichlorobenzene	1.658	1.626	1.9	96	0.00
88 T	1,4-Dichlorobenzene	1.713	1.637	4.4	96	0.00
89 T	n-Butylbenzene	2.791	2.833	-1.5	93	0.00
90 T	Hexachloroethane	0.608	0.571	6.1	93	0.00
91 T	1,2-Dichlorobenzene	1.607	1.546	3.8	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.277	0.281	-1.4	102	0.00
93 T	1,2,4-Trichlorobenzene	1.062	0.998	6.0	97	0.00
94 T	Hexachlorobutadiene	0.439	0.396	9.8	97	0.00
95 T	Naphthalene	3.187	3.414	-7.1	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	0.967	1.2	101	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\ VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX120425

Quant Time: Dec 05 03:31:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	50.000	58.738	-17.5	104	0.00
3 P	Chloromethane	50.000	48.826	2.3	97	0.00
4 C	Vinyl Chloride	50.000	48.559	2.9#	93	0.00
5 T	Bromomethane	50.000	54.893	-9.8	99	0.00
6 T	Chloroethane	50.000	48.675	2.7	97	0.00
7 T	Trichlorofluoromethane	50.000	48.801	2.4	92	0.00
8 T	Diethyl Ether	50.000	48.151	3.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.717	8.6	87	0.00
10 T	Methyl Iodide	50.000	50.395	-0.8	94	0.00
11 T	Tert butyl alcohol	250.000	250.243	-0.1	94	0.00
12 CM	1,1-Dichloroethene	50.000	46.649	6.7#	89	0.00
13 T	Acrolein	250.000	232.010	7.2	111	0.00
14 T	Allyl chloride	50.000	42.572	14.9	77	0.00
15 T	Acrylonitrile	250.000	226.688	9.3	83	0.00
16 T	Acetone	250.000	204.537	18.2	85	0.00
17 T	Carbon Disulfide	50.000	41.077	17.8	77	0.00
18 T	Methyl Acetate	50.000	44.401	11.2	82	0.00
19 T	Methyl tert-butyl Ether	50.000	45.629	8.7	86	0.00
20 T	Methylene Chloride	50.000	47.622	4.8	93	0.00
21 T	trans-1,2-Dichloroethene	50.000	44.308	11.4	83	0.00
22 T	Diisopropyl ether	50.000	50.527	-1.1	116	0.00
23 T	Vinyl Acetate	250.000	276.044	-10.4	121	0.00
24 P	1,1-Dichloroethane	50.000	52.811	-5.6	117	0.00
25 T	2-Butanone	250.000	244.061	2.4	109	0.00
26 T	2,2-Dichloropropane	50.000	45.857	8.3	98	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.033	3.9	101	0.00
28 T	Bromochloromethane	50.000	45.040	9.9	107	0.00
29 T	Tetrahydrofuran	250.000	277.876	-11.2	129	0.00
30 C	Chloroform	50.000	52.061	-4.1#	115	0.00
31 T	Cyclohexane	50.000	49.171	1.7	111	0.00
32 T	1,1,1-Trichloroethane	50.000	50.071	-0.1	106	0.00
33 S	1,2-Dichloroethane-d4	50.000	54.154	-8.3	125	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	107	0.00
35 S	Dibromofluoromethane	50.000	49.960	0.1	110	0.00
36 T	1,1-Dichloropropene	50.000	47.458	5.1	110	0.00
37 T	Ethyl Acetate	50.000	46.283	7.4	104	0.00
38 T	Carbon Tetrachloride	50.000	47.169	5.7	102	0.00
39 T	Methylcyclohexane	50.000	42.440	15.1	79	0.00
40 TM	Benzene	50.000	50.374	-0.7	114	0.00
41 T	Methacrylonitrile	50.000	48.603	2.8	110	0.00
42 TM	1,2-Dichloroethane	50.000	51.045	-2.1	120	0.00
43 T	Isopropyl Acetate	50.000	53.729	-7.5	130	0.00
44 TM	Trichloroethene	50.000	45.250	9.5	97	0.00
45 C	1,2-Dichloropropane	50.000	42.935	14.1#	84	0.00
46 T	Dibromomethane	50.000	43.757	12.5	86	0.00
47 T	Bromodichloromethane	50.000	42.902	14.2	87	0.00
48 T	Methyl methacrylate	50.000	42.366	15.3	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
 Data File : VX048721.D
 Acq On : 04 Dec 2025 14:04
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX120425

Quant Time: Dec 05 03:31:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	985.778	1.4	99	0.00
50 S	Toluene-d8	50.000	44.544	10.9	88	0.00
51 T	4-Methyl-2-Pentanone	250.000	220.496	11.8	83	0.00
52 CM	Toluene	50.000	46.077	7.8#	86	0.00
53 T	t-1,3-Dichloropropene	50.000	46.514	7.0	87	0.00
54 T	cis-1,3-Dichloropropene	50.000	45.699	8.6	86	0.00
55 T	1,1,2-Trichloroethane	50.000	45.811	8.4	88	0.00
56 T	Ethyl methacrylate	50.000	48.247	3.5	88	0.00
57 T	1,3-Dichloropropane	50.000	45.415	9.2	88	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	242.598	3.0	87	0.00
59 T	2-Hexanone	250.000	237.637	4.9	86	0.00
60 T	Dibromochloromethane	50.000	47.409	5.2	91	0.00
61 T	1,2-Dibromoethane	50.000	46.076	7.8	88	0.00
62 S	4-Bromofluorobenzene	50.000	49.905	0.2	97	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64 T	Tetrachloroethene	50.000	45.571	8.9	86	0.00
65 PM	Chlorobenzene	50.000	48.287	3.4	88	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.615	0.8	93	0.00
67 C	Ethyl Benzene	50.000	50.069	-0.1#	86	0.00
68 T	m/p-Xylenes	100.000	103.051	-3.1	91	0.00
69 T	o-Xylene	50.000	51.580	-3.2	90	0.00
70 T	Styrene	50.000	51.437	-2.9	90	0.00
71 P	Bromoform	50.000	51.388	-2.8	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	53.483	-7.0	96	0.00
74 T	N-amyl acetate	50.000	58.895	-17.8	96	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.282	-6.6	100	0.00
76 T	1,2,3-Trichloropropane	50.000	53.497	-7.0	101	0.00
77 T	Bromobenzene	50.000	50.357	-0.7	99	0.00
78 T	n-propylbenzene	50.000	52.425	-4.8	92	0.00
79 T	2-Chlorotoluene	50.000	51.501	-3.0	94	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.894	-3.8	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.840	-7.7	99	0.00
82 T	4-Chlorotoluene	50.000	52.505	-5.0	95	0.00
83 T	tert-Butylbenzene	50.000	50.138	-0.3	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.592	-3.2	94	0.00
85 T	sec-Butylbenzene	50.000	50.606	-1.2	91	0.00
86 T	p-Isopropyltoluene	50.000	50.326	-0.7	92	0.00
87 T	1,3-Dichlorobenzene	50.000	49.048	1.9	96	0.00
88 T	1,4-Dichlorobenzene	50.000	47.783	4.4	96	0.00
89 T	n-Butylbenzene	50.000	50.745	-1.5	93	0.00
90 T	Hexachloroethane	50.000	46.926	6.1	93	0.00
91 T	1,2-Dichlorobenzene	50.000	48.097	3.8	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.715	-1.4	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.996	6.0	97	0.00
94 T	Hexachlorobutadiene	50.000	45.101	9.8	97	0.00
95 T	Naphthalene	50.000	55.628	-11.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048721.D
Acq On : 04 Dec 2025 14:04
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX120425

Quant Time: Dec 05 03:31:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.386	1.2	101	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q3787
 Instrument ID: MSVOA_X Calibration Date/Time: 12/08/2025 09:20
 Lab File ID: VX048742.D Init. Calib. Date(s): 12/04/2025 12/04/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 08:47 10:38
 GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.685	0.671		-2.04	20
1,1-Dichloroethene	0.581	0.547		-5.85	20
1,1-Dichloroethane	1.016	1.086	0.1	6.89	20
cis-1,2-Dichloroethene	0.669	0.701		4.78	20
1,1,1-Trichloroethane	0.975	0.976		0.1	20
Benzene	1.398	1.441		3.08	20
1,2-Dichloroethane	0.495	0.558		12.73	20
Trichloroethene	0.365	0.370		1.37	20
1,1,2-Trichloroethane	0.339	0.389		14.75	20
Tetrachloroethene	0.364	0.345		-5.22	20
1,2-Dichloroethane-d4	0.671	0.665		-0.89	20
Dibromofluoromethane	0.344	0.346		0.58	20
Toluene-d8	1.207	1.218		0.91	20
4-Bromofluorobenzene	0.416	0.450		8.17	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/09/2025
 Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	174813	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	271670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	259893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	132353	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	116232	49.538	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.080%		
35) Dibromofluoromethane	5.361	113	93905	50.202	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.400%		
50) Toluene-d8	8.628	98	330988	50.480	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.960%		
62) 4-Bromofluorobenzene	11.061	95	122254	54.070	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	108.140%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	109463	61.456	ug/l	98
3) Chloromethane	1.300	50	112158	49.901	ug/l	99
4) Vinyl Chloride	1.380	62	117239	48.978	ug/l	97
5) Bromomethane	1.611	94	79697	53.876	ug/l	97
6) Chloroethane	1.691	64	70486	47.313	ug/l	96
7) Trichlorofluoromethane	1.892	101	168328	49.064	ug/l	95
8) Diethyl Ether	2.130	74	68655	50.137	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	96741	48.641	ug/l	99
10) Methyl Iodide	2.453	142	142606	50.365	ug/l	98
11) Tert butyl alcohol	2.934	59	104607	276.145	ug/l	99
12) 1,1-Dichloroethene	2.319	96	95593	47.091	ug/l	98
13) Acrolein	2.233	56	122007	320.155	ug/l	100
14) Allyl chloride	2.660	41	182879	53.660	ug/l	96
15) Acrylonitrile	3.050	53	323941	274.443	ug/l	99
16) Acetone	2.367	43	266788	297.020	ug/l	97
17) Carbon Disulfide	2.514	76	276616	46.924	ug/l	99
18) Methyl Acetate	2.690	43	147186	58.240	ug/l	98
19) Methyl tert-butyl Ether	3.099	73	346867	52.505	ug/l	98
20) Methylene Chloride	2.782	84	106567	47.466	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	96842	46.743	ug/l	97
22) Diisopropyl ether	3.745	45	361202	56.708	ug/l	97
23) Vinyl Acetate	3.702	43	1644500	307.270	ug/l	97
24) 1,1-Dichloroethane	3.599	63	189815	53.440	ug/l	99
25) 2-Butanone	4.525	43	409699	309.048	ug/l	95
26) 2,2-Dichloropropane	4.452	77	163755	52.104	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	122467	52.383	ug/l	94
28) Bromochloromethane	4.879	49	84093	48.303	ug/l	89
29) Tetrahydrofuran	4.971	42	292738	289.193	ug/l	96
30) Chloroform	5.068	83	201485	52.941	ug/l	100
31) Cyclohexane	5.452	56	152479	48.082	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	170606	50.030	ug/l	97
36) 1,1-Dichloropropene	5.672	75	129381	50.500	ug/l	99
37) Ethyl Acetate	4.684	43	200103	65.365	ug/l	97
38) Carbon Tetrachloride	5.659	117	151224	52.111	ug/l	93
39) Methylcyclohexane	7.360	83	159338	52.596	ug/l	99
40) Benzene	6.013	78	391521	51.550	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2025
 Supervised By : Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	87479	62.805	ug/l	97
42) 1,2-Dichloroethane	6.062	62	151479	56.351	ug/l	96
43) Isopropyl Acetate	6.312	43	269086	58.049	ug/l	96
44) Trichloroethene	7.104	130	100636	50.782	ug/l	93
45) 1,2-Dichloropropane	7.409	63	103675	54.615	ug/l	97
46) Dibromomethane	7.562	93	81979	56.948	ug/l	100
47) Bromodichloromethane	7.799	83	161338	53.756	ug/l	100
48) Methyl methacrylate	7.671	41	129988	55.745	ug/l	98
49) 1,4-Dioxane	7.641	88	41910	1306.826	ug/l	93
51) 4-Methyl-2-Pentanone	8.549	43	839339	291.714	ug/l	99
52) Toluene	8.702	92	259442	56.649	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	166878	58.445	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	176260	57.439	ug/l	96
55) 1,1,2-Trichloroethane	9.134	97	105645	57.331	ug/l	100
56) Ethyl methacrylate	9.098	69	176042	61.034	ug/l	97
57) 1,3-Dichloropropane	9.287	76	173763	56.709	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.220	63	502570	322.382	ug/l	99
59) 2-Hexanone	9.409	43	605996	300.030	ug/l	99
60) Dibromochloromethane	9.500	129	132496	58.148	ug/l	99
61) 1,2-Dibromoethane	9.592	107	115535	57.930	ug/l	100
64) Tetrachloroethene	9.256	164	89617	47.307	ug/l	97
65) Chlorobenzene	10.061	112	287596	50.555	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	103746	50.988	ug/l	99
67) Ethyl Benzene	10.177	91	476354	51.315	ug/l	99
68) m/p-Xylenes	10.281	106	368936	102.029	ug/l	98
69) o-Xylene	10.622	106	180357	53.228	ug/l	98
70) Styrene	10.634	104	312915	53.795	ug/l	99
71) Bromoform	10.780	173	97762	53.817	ug/l	99
73) Isopropylbenzene	10.945	105	456673	51.202	ug/l	99
74) N-amyl acetate	10.823	43	218050	56.266	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	161398	53.631	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	132368m	53.696	ug/l	
77) Bromobenzene	11.177	156	122590	51.496	ug/l	96
78) n-propylbenzene	11.286	91	530512	51.357	ug/l	98
79) 2-Chlorotoluene	11.347	91	320717	50.915	ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	379802	51.805	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	58364	56.240	ug/l #	54
82) 4-Chlorotoluene	11.433	91	380068	51.705	ug/l	98
83) tert-Butylbenzene	11.695	119	387442	50.861	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	386338	52.241	ug/l	98
85) sec-Butylbenzene	11.872	105	471593	51.082	ug/l	99
86) p-Isopropyltoluene	11.988	119	409455	51.886	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	224294	51.109	ug/l	100
88) 1,4-Dichlorobenzene	12.018	146	227243	50.109	ug/l	99
89) n-Butylbenzene	12.311	91	368851	49.922	ug/l	99
90) Hexachloroethane	12.518	117	77355	48.028	ug/l	96
91) 1,2-Dichlorobenzene	12.317	146	216556	50.899	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	37796	51.605	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	144749	51.512	ug/l	99
94) Hexachlorobutadiene	13.707	225	55748	47.962	ug/l	96
95) Naphthalene	13.756	128	458027	56.250	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	140730	54.305	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

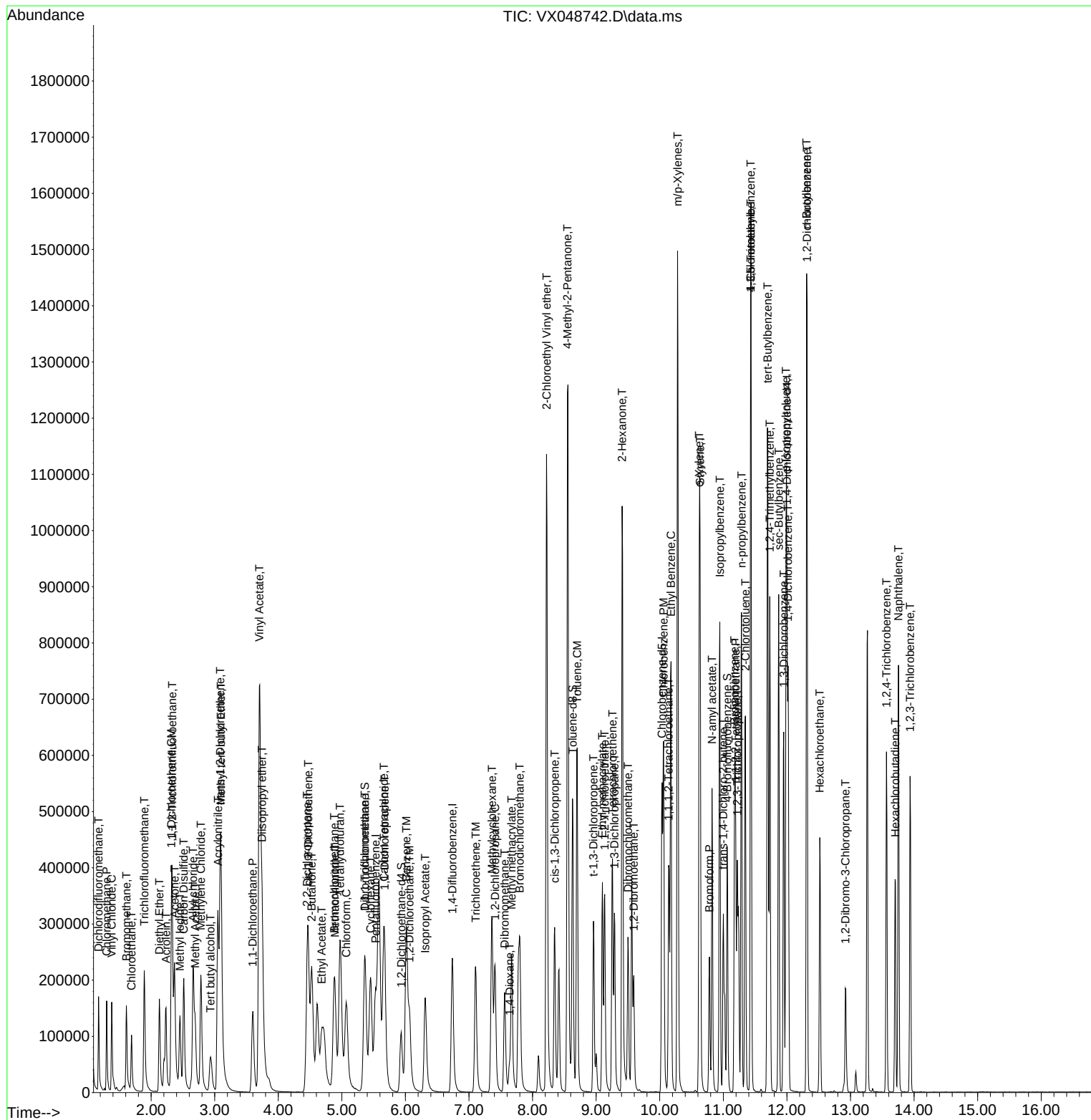
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On    : 08 Dec 2025  09:20
Operator  : JC/MD
Sample    : VSTDCCC050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 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 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	0.509	0.626	-23.0	103	0.00
3 P	Chloromethane	0.643	0.642	0.2	93	0.00
4 C	Vinyl Chloride	0.685	0.671	2.0#	89	0.00
5 T	Bromomethane	0.423	0.456	-7.8	91	0.00
6 T	Chloroethane	0.426	0.403	5.4	89	0.00
7 T	Trichlorofluoromethane	0.981	0.963	1.8	87	0.00
8 T	Diethyl Ether	0.392	0.393	-0.3	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.553	2.8	87	0.00
10 T	Methyl Iodide	0.810	0.816	-0.7	88	0.00
11 T	Tert butyl alcohol	0.108	0.120	-11.1	98	0.00
12 CM	1,1-Dichloroethene	0.581	0.547	5.9#	85	0.00
13 T	Acrolein	0.091	0.140	-53.8#	153#	0.00
14 T	Allyl chloride	0.975	1.046	-7.3	91	0.00
15 T	Acrylonitrile	0.338	0.371	-9.8	95	0.00
16 T	Acetone	0.257	0.305	-18.7	116	0.00
17 T	Carbon Disulfide	1.686	1.582	6.2	84	0.00
18 T	Methyl Acetate	0.723	0.842	-16.5	101	0.00
19 T	Methyl tert-butyl Ether	1.890	1.984	-5.0	93	0.00
20 T	Methylene Chloride	0.642	0.610	5.0	88	0.00
21 T	trans-1,2-Dichloroethene	0.593	0.554	6.6	83	0.00
22 T	Diisopropyl ether	1.822	2.066	-13.4	124	0.00
23 T	Vinyl Acetate	1.531	1.881	-22.9	128	-0.01
24 P	1,1-Dichloroethane	1.016	1.086	-6.9	112	0.00
25 T	2-Butanone	0.379	0.469	-23.7	130	-0.01
26 T	2,2-Dichloropropane	0.899	0.937	-4.2	106	-0.02
27 T	cis-1,2-Dichloroethene	0.669	0.701	-4.8	104	-0.01
28 T	Bromochloromethane	0.498	0.481	3.4	108	0.00
29 T	Tetrahydrofuran	0.290	0.335	-15.5	127	-0.01
30 C	Chloroform	1.089	1.153	-5.9#	110	-0.01
31 T	Cyclohexane	0.907	0.872	3.9	103	-0.01
32 T	1,1,1-Trichloroethane	0.975	0.976	-0.1	100	0.00
33 S	1,2-Dichloroethane-d4	0.671	0.665	0.9	108	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.344	0.346	-0.6	97	-0.01
36 T	1,1-Dichloropropene	0.472	0.476	-0.8	102	-0.01
37 T	Ethyl Acetate	0.563	0.737	-30.9#	128	-0.01
38 T	Carbon Tetrachloride	0.534	0.557	-4.3	99	0.00
39 T	Methylcyclohexane	0.558	0.587	-5.2	86	0.00
40 TM	Benzene	1.398	1.441	-3.1	102	-0.01
41 T	Methacrylonitrile	0.256	0.322	-25.8#	125	-0.01
42 TM	1,2-Dichloroethane	0.495	0.558	-12.7	116	-0.01
43 T	Isopropyl Acetate	0.853	0.990	-16.1	123	-0.01
44 TM	Trichloroethene	0.365	0.370	-1.4	95	0.00
45 C	1,2-Dichloropropane	0.349	0.382	-9.5#	94	0.00
46 T	Dibromomethane	0.265	0.302	-14.0	98	0.00
47 T	Bromodichloromethane	0.552	0.594	-7.6	95	0.00
48 T	Methyl methacrylate	0.429	0.478	-11.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 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 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.008	-33.3#	115	0.00
50 S	Toluene-d8	1.207	1.218	-0.9	87	0.00
51 T	4-Methyl-2-Pentanone	0.530	0.618	-16.6	96	0.00
52 CM	Toluene	0.843	0.955	-13.3#	93	0.00
53 T	t-1,3-Dichloropropene	0.526	0.614	-16.7	96	0.00
54 T	cis-1,3-Dichloropropene	0.565	0.649	-14.9	95	0.00
55 T	1,1,2-Trichloroethane	0.339	0.389	-14.7	97	0.00
56 T	Ethyl methacrylate	0.531	0.648	-22.0	97	0.00
57 T	1,3-Dichloropropane	0.564	0.640	-13.5	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.287	0.370	-28.9#	101	0.00
59 T	2-Hexanone	0.372	0.446	-19.9	95	0.00
60 T	Dibromochloromethane	0.419	0.488	-16.5	98	0.00
61 T	1,2-Dibromoethane	0.367	0.425	-15.8	97	0.00
62 S	4-Bromofluorobenzene	0.416	0.450	-8.2	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.364	0.345	5.2	91	0.00
65 PM	Chlorobenzene	1.094	1.107	-1.2	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.391	0.399	-2.0	98	0.00
67 C	Ethyl Benzene	1.786	1.833	-2.6#	90	0.00
68 T	m/p-Xylenes	0.696	0.710	-2.0	92	0.00
69 T	o-Xylene	0.652	0.694	-6.4	95	0.00
70 T	Styrene	1.119	1.204	-7.6	96	0.00
71 P	Bromoform	0.349	0.376	-7.7	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.369	3.450	-2.4	92	0.00
74 T	N-ethyl acetate	1.464	1.647	-12.5	92	0.00
75 P	1,1,2,2-Tetrachloroethane	1.137	1.219	-7.2	100	0.00
76 T	1,2,3-Trichloropropane	0.931	1.000	-7.4	101	0.00
77 T	Bromobenzene	0.899	0.926	-3.0	101	0.00
78 T	n-propylbenzene	3.902	4.008	-2.7	90	0.00
79 T	2-Chlorotoluene	2.380	2.423	-1.8	93	0.00
80 T	1,3,5-Trimethylbenzene	2.770	2.870	-3.6	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.392	0.441	-12.5	103	0.00
82 T	4-Chlorotoluene	2.777	2.872	-3.4	93	0.00
83 T	tert-Butylbenzene	2.878	2.927	-1.7	94	0.00
84 T	1,2,4-Trimethylbenzene	2.794	2.919	-4.5	95	0.00
85 T	sec-Butylbenzene	3.488	3.563	-2.2	92	0.00
86 T	p-Isopropyltoluene	2.981	3.094	-3.8	94	0.00
87 T	1,3-Dichlorobenzene	1.658	1.695	-2.2	100	0.00
88 T	1,4-Dichlorobenzene	1.713	1.717	-0.2	100	0.00
89 T	n-Butylbenzene	2.791	2.787	0.1	91	0.00
90 T	Hexachloroethane	0.608	0.584	3.9	95	0.00
91 T	1,2-Dichlorobenzene	1.607	1.636	-1.8	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.277	0.286	-3.2	103	0.00
93 T	1,2,4-Trichlorobenzene	1.062	1.094	-3.0	106	0.00
94 T	Hexachlorobutadiene	0.439	0.421	4.1	104	0.00
95 T	Naphthalene	3.187	3.461	-8.6	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
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 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.063	-8.6	111	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 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 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	50.000	61.456	-22.9	103	0.00
3 P	Chloromethane	50.000	49.901	0.2	93	0.00
4 C	Vinyl Chloride	50.000	48.978	2.0#	89	0.00
5 T	Bromomethane	50.000	53.876	-7.8	91	0.00
6 T	Chloroethane	50.000	47.313	5.4	89	0.00
7 T	Trichlorofluoromethane	50.000	49.064	1.9	87	0.00
8 T	Diethyl Ether	50.000	50.137	-0.3	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.641	2.7	87	0.00
10 T	Methyl Iodide	50.000	50.365	-0.7	88	0.00
11 T	Tert butyl alcohol	250.000	276.145	-10.5	98	0.00
12 CM	1,1-Dichloroethene	50.000	47.091	5.8#	85	0.00
13 T	Acrolein	250.000	320.155	-28.1#	153	0.00
14 T	Allyl chloride	50.000	53.660	-7.3	91	0.00
15 T	Acrylonitrile	250.000	274.443	-9.8	95	0.00
16 T	Acetone	250.000	297.020	-18.8	116	0.00
17 T	Carbon Disulfide	50.000	46.924	6.2	84	0.00
18 T	Methyl Acetate	50.000	58.240	-16.5	101	0.00
19 T	Methyl tert-butyl Ether	50.000	52.505	-5.0	93	0.00
20 T	Methylene Chloride	50.000	47.466	5.1	88	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.743	6.5	83	0.00
22 T	Diisopropyl ether	50.000	56.708	-13.4	124	0.00
23 T	Vinyl Acetate	250.000	307.270	-22.9	128	-0.01
24 P	1,1-Dichloroethane	50.000	53.440	-6.9	112	0.00
25 T	2-Butanone	250.000	309.048	-23.6	130	-0.01
26 T	2,2-Dichloropropane	50.000	52.104	-4.2	106	-0.02
27 T	cis-1,2-Dichloroethene	50.000	52.383	-4.8	104	-0.01
28 T	Bromochloromethane	50.000	48.303	3.4	108	0.00
29 T	Tetrahydrofuran	250.000	289.193	-15.7	127	-0.01
30 C	Chloroform	50.000	52.941	-5.9#	110	-0.01
31 T	Cyclohexane	50.000	48.082	3.8	103	-0.01
32 T	1,1,1-Trichloroethane	50.000	50.030	-0.1	100	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.538	0.9	108	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	50.202	-0.4	97	-0.01
36 T	1,1-Dichloropropene	50.000	50.500	-1.0	102	-0.01
37 T	Ethyl Acetate	50.000	65.365	-30.7#	128	-0.01
38 T	Carbon Tetrachloride	50.000	52.111	-4.2	99	0.00
39 T	Methylcyclohexane	50.000	52.596	-5.2	86	0.00
40 TM	Benzene	50.000	51.550	-3.1	102	-0.01
41 T	Methacrylonitrile	50.000	62.805	-25.6#	125	-0.01
42 TM	1,2-Dichloroethane	50.000	56.351	-12.7	116	-0.01
43 T	Isopropyl Acetate	50.000	58.049	-16.1	123	-0.01
44 TM	Trichloroethene	50.000	50.782	-1.6	95	0.00
45 C	1,2-Dichloropropane	50.000	54.615	-9.2#	94	0.00
46 T	Dibromomethane	50.000	56.948	-13.9	98	0.00
47 T	Bromodichloromethane	50.000	53.756	-7.5	95	0.00
48 T	Methyl methacrylate	50.000	55.745	-11.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 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 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1306.826	-30.7#	115	0.00
50 S	Toluene-d8	50.000	50.480	-1.0	87	0.00
51 T	4-Methyl-2-Pentanone	250.000	291.714	-16.7	96	0.00
52 CM	Toluene	50.000	56.649	-13.3#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	58.445	-16.9	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.439	-14.9	95	0.00
55 T	1,1,2-Trichloroethane	50.000	57.331	-14.7	97	0.00
56 T	Ethyl methacrylate	50.000	61.034	-22.1	97	0.00
57 T	1,3-Dichloropropane	50.000	56.709	-13.4	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	322.382	-29.0#	101	0.00
59 T	2-Hexanone	250.000	300.030	-20.0	95	0.00
60 T	Dibromochloromethane	50.000	58.148	-16.3	98	0.00
61 T	1,2-Dibromoethane	50.000	57.930	-15.9	97	0.00
62 S	4-Bromofluorobenzene	50.000	54.070	-8.1	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	47.307	5.4	91	0.00
65 PM	Chlorobenzene	50.000	50.555	-1.1	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.988	-2.0	98	0.00
67 C	Ethyl Benzene	50.000	51.315	-2.6#	90	0.00
68 T	m/p-Xylenes	100.000	102.029	-2.0	92	0.00
69 T	o-Xylene	50.000	53.228	-6.5	95	0.00
70 T	Styrene	50.000	53.795	-7.6	96	0.00
71 P	Bromoform	50.000	53.817	-7.6	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	51.202	-2.4	92	0.00
74 T	N-amyl acetate	50.000	56.266	-12.5	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.631	-7.3	100	0.00
76 T	1,2,3-Trichloropropane	50.000	53.696	-7.4	101	0.00
77 T	Bromobenzene	50.000	51.496	-3.0	101	0.00
78 T	n-propylbenzene	50.000	51.357	-2.7	90	0.00
79 T	2-Chlorotoluene	50.000	50.915	-1.8	93	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.805	-3.6	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.240	-12.5	103	0.00
82 T	4-Chlorotoluene	50.000	51.705	-3.4	93	0.00
83 T	tert-Butylbenzene	50.000	50.861	-1.7	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.241	-4.5	95	0.00
85 T	sec-Butylbenzene	50.000	51.082	-2.2	92	0.00
86 T	p-Isopropyltoluene	50.000	51.886	-3.8	94	0.00
87 T	1,3-Dichlorobenzene	50.000	51.109	-2.2	100	0.00
88 T	1,4-Dichlorobenzene	50.000	50.109	-0.2	100	0.00
89 T	n-Butylbenzene	50.000	49.922	0.2	91	0.00
90 T	Hexachloroethane	50.000	48.028	3.9	95	0.00
91 T	1,2-Dichlorobenzene	50.000	50.899	-1.8	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.605	-3.2	103	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.512	-3.0	106	0.00
94 T	Hexachlorobutadiene	50.000	47.962	4.1	104	0.00
95 T	Naphthalene	50.000	56.250	-12.5	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048742.D
Acq On : 08 Dec 2025 09:20
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 09 04:05:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.305	-8.6	111	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3787</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>12/10/2025</u> <u>09:40</u>
Lab File ID:	<u>VX048796.D</u>	Init. Calib. Date(s):	<u>12/04/2025</u> <u>12/04/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:47</u> <u>10:38</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.685	0.681		-0.58	20
1,1-Dichloroethene	0.581	0.572		-1.55	20
1,1-Dichloroethane	1.016	1.144	0.1	12.6	20
cis-1,2-Dichloroethene	0.669	0.730		9.12	20
1,1,1-Trichloroethane	0.975	0.987		1.23	20
Benzene	1.398	1.437		2.79	20
1,2-Dichloroethane	0.495	0.519		4.85	20
Trichloroethene	0.365	0.361		-1.1	20
1,1,2-Trichloroethane	0.339	0.360		6.2	20
Tetrachloroethene	0.364	0.330		-9.34	20
1,2-Dichloroethane-d4	0.671	0.723		7.75	20
Dibromofluoromethane	0.344	0.350		1.74	20
Toluene-d8	1.207	1.174		-2.73	20
4-Bromofluorobenzene	0.416	0.429		3.13	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	164636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.738	114	275167	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	117430	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	119067	53.883	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.760%			
35) Dibromofluoromethane	5.367	113	96249	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	8.628	98	322968	48.630	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.260%			
62) 4-Bromofluorobenzene	11.061	95	117923	51.492	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.980%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	104303	62.179	ug/l	99
3) Chloromethane	1.300	50	111505	52.677	ug/l	99
4) Vinyl Chloride	1.380	62	112166	49.755	ug/l	100
5) Bromomethane	1.611	94	74718	53.632	ug/l	99
6) Chloroethane	1.697	64	67271	47.946	ug/l	99
7) Trichlorofluoromethane	1.892	101	157690	48.805	ug/l	95
8) Diethyl Ether	2.129	74	65626	50.888	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	90609	48.374	ug/l	98
10) Methyl Iodide	2.453	142	138068	51.776	ug/l	100
11) Tert butyl alcohol	2.934	59	102693	287.850	ug/l	100
12) 1,1-Dichloroethene	2.325	96	94115	49.229	ug/l	98
13) Acrolein	2.233	56	88687	256.274	ug/l	100
14) Allyl chloride	2.666	41	179805	56.019	ug/l	99
15) Acrylonitrile	3.050	53	333575	300.075	ug/l	98
16) Acetone	2.367	43	209603	247.780	ug/l	98
17) Carbon Disulfide	2.514	76	263433	47.450	ug/l	99
18) Methyl Acetate	2.690	43	144725	60.806	ug/l	99
19) Methyl tert-butyl Ether	3.099	73	349851	56.230	ug/l	99
20) Methylene Chloride	2.788	84	110575	52.296	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	100976	51.751	ug/l	97
22) Diisopropyl ether	3.745	45	354358	59.073	ug/l	98
23) Vinyl Acetate	3.708	43	1561747	309.846	ug/l	97
24) 1,1-Dichloroethane	3.599	63	188402	56.321	ug/l	99
25) 2-Butanone	4.531	43	366303	293.394	ug/l	94
26) 2,2-Dichloropropane	4.458	77	153178	51.752	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	120195	54.589	ug/l	95
28) Bromochloromethane	4.879	49	78851	48.092	ug/l	88
29) Tetrahydrofuran	4.977	42	283266	297.133	ug/l	92
30) Chloroform	5.068	83	191171	53.336	ug/l	98
31) Cyclohexane	5.452	56	139883	46.837	ug/l	95
32) 1,1,1-Trichloroethane	5.367	97	162442	50.581	ug/l	97
36) 1,1-Dichloropropene	5.678	75	116833	45.023	ug/l	100
37) Ethyl Acetate	4.690	43	189539	61.127	ug/l	98
38) Carbon Tetrachloride	5.653	117	139526	47.468	ug/l	92
39) Methylcyclohexane	7.360	83	137752	44.893	ug/l	99
40) Benzene	6.019	78	395438	51.404	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	85071	60.300	ug/l	94
42) 1,2-Dichloroethane	6.068	62	142810	52.451	ug/l	98
43) Isopropyl Acetate	6.312	43	260107	55.399	ug/l	97
44) Trichloroethene	7.104	130	99442	49.542	ug/l	99
45) 1,2-Dichloropropane	7.409	63	100151	52.089	ug/l	99
46) Dibromomethane	7.561	93	75489	51.773	ug/l	99
47) Bromodichloromethane	7.799	83	153021	50.336	ug/l	99
48) Methyl methacrylate	7.671	41	125580	53.170	ug/l	99
49) 1,4-Dioxane	7.635	88	34531	1063.052	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	822130	282.102	ug/l	99
52) Toluene	8.701	92	238768	51.472	ug/l	100
53) t-1,3-Dichloropropene	8.957	75	154780	53.519	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	165618	53.285	ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	99051	53.070	ug/l	97
56) Ethyl methacrylate	9.098	69	164618	56.348	ug/l	98
57) 1,3-Dichloropropane	9.287	76	165579	53.352	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	440513	278.983	ug/l	99
59) 2-Hexanone	9.409	43	568297	277.790	ug/l	99
60) Dibromochloromethane	9.500	129	120782	52.334	ug/l	99
61) 1,2-Dibromoethane	9.592	107	105455	52.204	ug/l	100
64) Tetrachloroethene	9.256	164	80272	45.218	ug/l	97
65) Chlorobenzene	10.061	112	263964	49.516	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.140	131	95289	49.975	ug/l	99
67) Ethyl Benzene	10.177	91	442138	50.827	ug/l	100
68) m/p-Xylenes	10.280	106	338638	99.937	ug/l	98
69) o-Xylene	10.622	106	164397	51.775	ug/l	99
70) Styrene	10.634	104	285694	52.412	ug/l	99
71) Bromoform	10.780	173	85176	50.037	ug/l #	99
73) Isopropylbenzene	10.945	105	408359	51.603	ug/l	99
74) N-amyl acetate	10.823	43	209730	60.997	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	145973	54.669	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	121242m	55.433	ug/l	
77) Bromobenzene	11.177	156	110799	52.458	ug/l	97
78) n-propylbenzene	11.286	91	483157	52.716	ug/l	100
79) 2-Chlorotoluene	11.347	91	294336	52.665	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	341415	52.487	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	52883	57.434	ug/l #	72
82) 4-Chlorotoluene	11.433	91	348301	53.405	ug/l	99
83) tert-Butylbenzene	11.695	119	339730	50.265	ug/l	99
84) 1,2,4-Trimethylbenzene	11.731	105	346969	52.880	ug/l	99
85) sec-Butylbenzene	11.872	105	412391	50.346	ug/l	99
86) p-Isopropyltoluene	11.987	119	354299	50.602	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	198528	50.987	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	200162	49.746	ug/l	99
89) n-Butylbenzene	12.311	91	321129	48.986	ug/l	100
90) Hexachloroethane	12.518	117	67328	47.115	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	189764	50.270	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33981	52.292	ug/l	98
93) 1,2,4-Trichlorobenzene	13.566	180	125318	50.264	ug/l	99
94) Hexachlorobutadiene	13.707	225	46430	45.022	ug/l	96
95) Naphthalene	13.755	128	417103	57.472	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	115667	50.306	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048796.D
Acq On : 10 Dec 2025 09:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

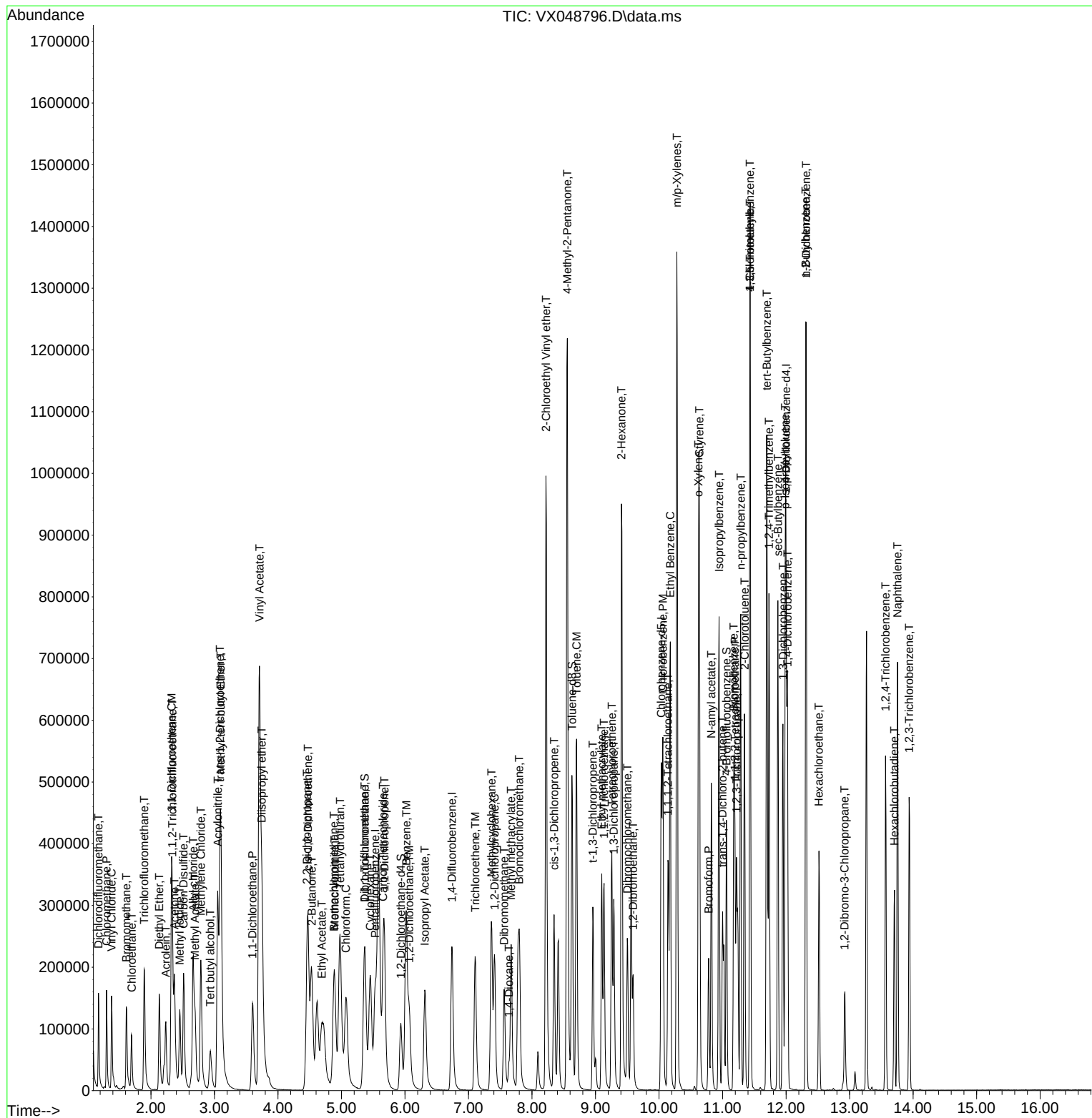
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Dec 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 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 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	88	0.00
2 T	Dichlorodifluoromethane	0.509	0.634	-24.6	98	0.00
3 P	Chloromethane	0.643	0.677	-5.3	93	0.00
4 C	Vinyl Chloride	0.685	0.681	0.6#	85	0.00
5 T	Bromomethane	0.423	0.454	-7.3	86	0.00
6 T	Chloroethane	0.426	0.409	4.0	85	0.00
7 T	Trichlorofluoromethane	0.981	0.958	2.3	82	0.00
8 T	Diethyl Ether	0.392	0.399	-1.8	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.569	0.550	3.3	81	0.00
10 T	Methyl Iodide	0.810	0.839	-3.6	86	0.00
11 T	Tert butyl alcohol	0.108	0.125	-15.7	96	0.00
12 CM	1,1-Dichloroethene	0.581	0.572	1.5#	84	0.00
13 T	Acrolein	0.091	0.108	-18.7	111	0.00
14 T	Allyl chloride	0.975	1.092	-12.0	90	0.00
15 T	Acrylonitrile	0.338	0.405	-19.8	97	0.00
16 T	Acetone	0.257	0.255	0.8	91	0.00
17 T	Carbon Disulfide	1.686	1.600	5.1	80	0.00
18 T	Methyl Acetate	0.723	0.879	-21.6	100	0.00
19 T	Methyl tert-butyl Ether	1.890	2.125	-12.4	94	0.00
20 T	Methylene Chloride	0.642	0.672	-4.7	91	0.00
21 T	trans-1,2-Dichloroethene	0.593	0.613	-3.4	86	0.00
22 T	Diisopropyl ether	1.822	2.152	-18.1	121	0.00
23 T	Vinyl Acetate	1.531	1.897	-23.9	121	0.00
24 P	1,1-Dichloroethane	1.016	1.144	-12.6	111	0.00
25 T	2-Butanone	0.379	0.445	-17.4	116	0.00
26 T	2,2-Dichloropropane	0.899	0.930	-3.4	99	-0.01
27 T	cis-1,2-Dichloroethene	0.669	0.730	-9.1	103	-0.01
28 T	Bromochloromethane	0.498	0.479	3.8	101	0.00
29 T	Tetrahydrofuran	0.290	0.344	-18.6	122	0.00
30 C	Chloroform	1.089	1.161	-6.6#	104	-0.01
31 T	Cyclohexane	0.907	0.850	6.3	94	-0.01
32 T	1,1,1-Trichloroethane	0.975	0.987	-1.2	95	0.00
33 S	1,2-Dichloroethane-d4	0.671	0.723	-7.7	110	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35 S	Dibromofluoromethane	0.344	0.350	-1.7	100	0.00
36 T	1,1-Dichloropropene	0.472	0.425	10.0	92	0.00
37 T	Ethyl Acetate	0.563	0.689	-22.4	121	0.00
38 T	Carbon Tetrachloride	0.534	0.507	5.1	91	-0.01
39 T	Methylcyclohexane	0.558	0.501	10.2	74	0.00
40 TM	Benzene	1.398	1.437	-2.8	103	0.00
41 T	Methacrylonitrile	0.256	0.309	-20.7	121	-0.01
42 TM	1,2-Dichloroethane	0.495	0.519	-4.8	109	0.00
43 T	Isopropyl Acetate	0.853	0.945	-10.8	119	-0.01
44 TM	Trichloroethene	0.365	0.361	1.1	94	0.00
45 C	1,2-Dichloropropane	0.349	0.364	-4.3#	90	0.00
46 T	Dibromomethane	0.265	0.274	-3.4	90	0.00
47 T	Bromodichloromethane	0.552	0.556	-0.7	90	0.00
48 T	Methyl methacrylate	0.429	0.456	-6.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 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 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.006	0.0	95	0.00
50 S	Toluene-d8	1.207	1.174	2.7	85	0.00
51 T	4-Methyl-2-Pentanone	0.530	0.598	-12.8	94	0.00
52 CM	Toluene	0.843	0.868	-3.0#	86	0.00
53 T	t-1,3-Dichloropropene	0.526	0.562	-6.8	89	0.00
54 T	cis-1,3-Dichloropropene	0.565	0.602	-6.5	89	0.00
55 T	1,1,2-Trichloroethane	0.339	0.360	-6.2	91	0.00
56 T	Ethyl methacrylate	0.531	0.598	-12.6	91	0.00
57 T	1,3-Dichloropropane	0.564	0.602	-6.7	91	0.00
58 T	2-Chloroethyl Vinyl ether	0.287	0.320	-11.5	89	0.00
59 T	2-Hexanone	0.372	0.413	-11.0	89	0.00
60 T	Dibromochloromethane	0.419	0.439	-4.8	89	0.00
61 T	1,2-Dibromoethane	0.367	0.383	-4.4	89	0.00
62 S	4-Bromofluorobenzene	0.416	0.429	-3.1	89	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.364	0.330	9.3	82	0.00
65 PM	Chlorobenzene	1.094	1.084	0.9	87	0.00
66 T	1,1,1,2-Tetrachloroethane	0.391	0.391	0.0	90	0.00
67 C	Ethyl Benzene	1.786	1.815	-1.6#	84	0.00
68 T	m/p-Xylenes	0.696	0.695	0.1	85	0.00
69 T	o-Xylene	0.652	0.675	-3.5	87	0.00
70 T	Styrene	1.119	1.173	-4.8	88	0.00
71 P	Bromoform	0.349	0.350	-0.3	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73 T	Isopropylbenzene	3.369	3.477	-3.2	82	0.00
74 T	N-amyl acetate	1.464	1.786	-22.0	88	0.00
75 P	1,1,2,2-Tetrachloroethane	1.137	1.243	-9.3	91	0.00
76 T	1,2,3-Trichloropropane	0.931	1.032	-10.8	93	0.00
77 T	Bromobenzene	0.899	0.944	-5.0	92	0.00
78 T	n-propylbenzene	3.902	4.114	-5.4	82	0.00
79 T	2-Chlorotoluene	2.380	2.506	-5.3	86	0.00
80 T	1,3,5-Trimethylbenzene	2.770	2.907	-4.9	85	0.00
81 T	trans-1,4-Dichloro-2-butene	0.392	0.450	-14.8	93	0.00
82 T	4-Chlorotoluene	2.777	2.966	-6.8	86	0.00
83 T	tert-Butylbenzene	2.878	2.893	-0.5	82	0.00
84 T	1,2,4-Trimethylbenzene	2.794	2.955	-5.8	85	0.00
85 T	sec-Butylbenzene	3.488	3.512	-0.7	80	0.00
86 T	p-Isopropyltoluene	2.981	3.017	-1.2	82	0.00
87 T	1,3-Dichlorobenzene	1.658	1.691	-2.0	88	0.00
88 T	1,4-Dichlorobenzene	1.713	1.705	0.5	88	0.00
89 T	n-Butylbenzene	2.791	2.735	2.0	80	0.00
90 T	Hexachloroethane	0.608	0.573	5.8	83	0.00
91 T	1,2-Dichlorobenzene	1.607	1.616	-0.6	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.277	0.289	-4.3	93	0.00
93 T	1,2,4-Trichlorobenzene	1.062	1.067	-0.5	92	0.00
94 T	Hexachlorobutadiene	0.439	0.395	10.0	86	0.00
95 T	Naphthalene	3.187	3.552	-11.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048796.D
Acq On : 10 Dec 2025 09:40
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 11 00:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	0.985	-0.6	91	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 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 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	88	0.00
2 T	Dichlorodifluoromethane	50.000	62.179	-24.4	98	0.00
3 P	Chloromethane	50.000	52.677	-5.4	93	0.00
4 C	Vinyl Chloride	50.000	49.755	0.5#	85	0.00
5 T	Bromomethane	50.000	53.632	-7.3	86	0.00
6 T	Chloroethane	50.000	47.946	4.1	85	0.00
7 T	Trichlorofluoromethane	50.000	48.805	2.4	82	0.00
8 T	Diethyl Ether	50.000	50.888	-1.8	93	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.374	3.3	81	0.00
10 T	Methyl Iodide	50.000	51.776	-3.6	86	0.00
11 T	Tert butyl alcohol	250.000	287.850	-15.1	96	0.00
12 CM	1,1-Dichloroethene	50.000	49.229	1.5#	84	0.00
13 T	Acrolein	250.000	256.274	-2.5	111	0.00
14 T	Allyl chloride	50.000	56.019	-12.0	90	0.00
15 T	Acrylonitrile	250.000	300.075	-20.0	97	0.00
16 T	Acetone	250.000	247.780	0.9	91	0.00
17 T	Carbon Disulfide	50.000	47.450	5.1	80	0.00
18 T	Methyl Acetate	50.000	60.806	-21.6	100	0.00
19 T	Methyl tert-butyl Ether	50.000	56.230	-12.5	94	0.00
20 T	Methylene Chloride	50.000	52.296	-4.6	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.751	-3.5	86	0.00
22 T	Diisopropyl ether	50.000	59.073	-18.1	121	0.00
23 T	Vinyl Acetate	250.000	309.846	-23.9	121	0.00
24 P	1,1-Dichloroethane	50.000	56.321	-12.6	111	0.00
25 T	2-Butanone	250.000	293.394	-17.4	116	0.00
26 T	2,2-Dichloropropane	50.000	51.752	-3.5	99	-0.01
27 T	cis-1,2-Dichloroethene	50.000	54.589	-9.2	103	-0.01
28 T	Bromochloromethane	50.000	48.092	3.8	101	0.00
29 T	Tetrahydrofuran	250.000	297.133	-18.9	122	0.00
30 C	Chloroform	50.000	53.336	-6.7#	104	-0.01
31 T	Cyclohexane	50.000	46.837	6.3	94	-0.01
32 T	1,1,1-Trichloroethane	50.000	50.581	-1.2	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.883	-7.8	110	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35 S	Dibromofluoromethane	50.000	50.801	-1.6	100	0.00
36 T	1,1-Dichloropropene	50.000	45.023	10.0	92	0.00
37 T	Ethyl Acetate	50.000	61.127	-22.3	121	0.00
38 T	Carbon Tetrachloride	50.000	47.468	5.1	91	-0.01
39 T	Methylcyclohexane	50.000	44.893	10.2	74	0.00
40 TM	Benzene	50.000	51.404	-2.8	103	0.00
41 T	Methacrylonitrile	50.000	60.300	-20.6	121	-0.01
42 TM	1,2-Dichloroethane	50.000	52.451	-4.9	109	0.00
43 T	Isopropyl Acetate	50.000	55.399	-10.8	119	-0.01
44 TM	Trichloroethene	50.000	49.542	0.9	94	0.00
45 C	1,2-Dichloropropane	50.000	52.089	-4.2#	90	0.00
46 T	Dibromomethane	50.000	51.773	-3.5	90	0.00
47 T	Bromodichloromethane	50.000	50.336	-0.7	90	0.00
48 T	Methyl methacrylate	50.000	53.170	-6.3	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048796.D
 Acq On : 10 Dec 2025 09:40
 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 11 00:17:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1063.052	-6.3	95	0.00
50 S	Toluene-d8	50.000	48.630	2.7	85	0.00
51 T	4-Methyl-2-Pentanone	250.000	282.102	-12.8	94	0.00
52 CM	Toluene	50.000	51.472	-2.9#	86	0.00
53 T	t-1,3-Dichloropropene	50.000	53.519	-7.0	89	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.285	-6.6	89	0.00
55 T	1,1,2-Trichloroethane	50.000	53.070	-6.1	91	0.00
56 T	Ethyl methacrylate	50.000	56.348	-12.7	91	0.00
57 T	1,3-Dichloropropane	50.000	53.352	-6.7	91	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	278.983	-11.6	89	0.00
59 T	2-Hexanone	250.000	277.790	-11.1	89	0.00
60 T	Dibromochloromethane	50.000	52.334	-4.7	89	0.00
61 T	1,2-Dibromoethane	50.000	52.204	-4.4	89	0.00
62 S	4-Bromofluorobenzene	50.000	51.492	-3.0	89	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	45.218	9.6	82	0.00
65 PM	Chlorobenzene	50.000	49.516	1.0	87	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.975	0.0	90	0.00
67 C	Ethyl Benzene	50.000	50.827	-1.7#	84	0.00
68 T	m/p-Xylenes	100.000	99.937	0.1	85	0.00
69 T	o-Xylene	50.000	51.775	-3.5	87	0.00
70 T	Styrene	50.000	52.412	-4.8	88	0.00
71 P	Bromoform	50.000	50.037	-0.1	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73 T	Isopropylbenzene	50.000	51.603	-3.2	82	0.00
74 T	N-ethyl acetate	50.000	60.997	-22.0	88	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	54.669	-9.3	91	0.00
76 T	1,2,3-Trichloropropane	50.000	55.433	-10.9	93	0.00
77 T	Bromobenzene	50.000	52.458	-4.9	92	0.00
78 T	n-propylbenzene	50.000	52.716	-5.4	82	0.00
79 T	2-Chlorotoluene	50.000	52.665	-5.3	86	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.487	-5.0	85	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	57.434	-14.9	93	0.00
82 T	4-Chlorotoluene	50.000	53.405	-6.8	86	0.00
83 T	tert-Butylbenzene	50.000	50.265	-0.5	82	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.880	-5.8	85	0.00
85 T	sec-Butylbenzene	50.000	50.346	-0.7	80	0.00
86 T	p-Isopropyltoluene	50.000	50.602	-1.2	82	0.00
87 T	1,3-Dichlorobenzene	50.000	50.987	-2.0	88	0.00
88 T	1,4-Dichlorobenzene	50.000	49.746	0.5	88	0.00
89 T	n-Butylbenzene	50.000	48.986	2.0	80	0.00
90 T	Hexachloroethane	50.000	47.115	5.8	83	0.00
91 T	1,2-Dichlorobenzene	50.000	50.270	-0.5	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.292	-4.6	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.264	-0.5	92	0.00
94 T	Hexachlorobutadiene	50.000	45.022	10.0	86	0.00
95 T	Naphthalene	50.000	57.472	-14.9	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048796.D
Acq On : 10 Dec 2025 09:40
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 11 00:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.306	-0.6	91	0.00

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



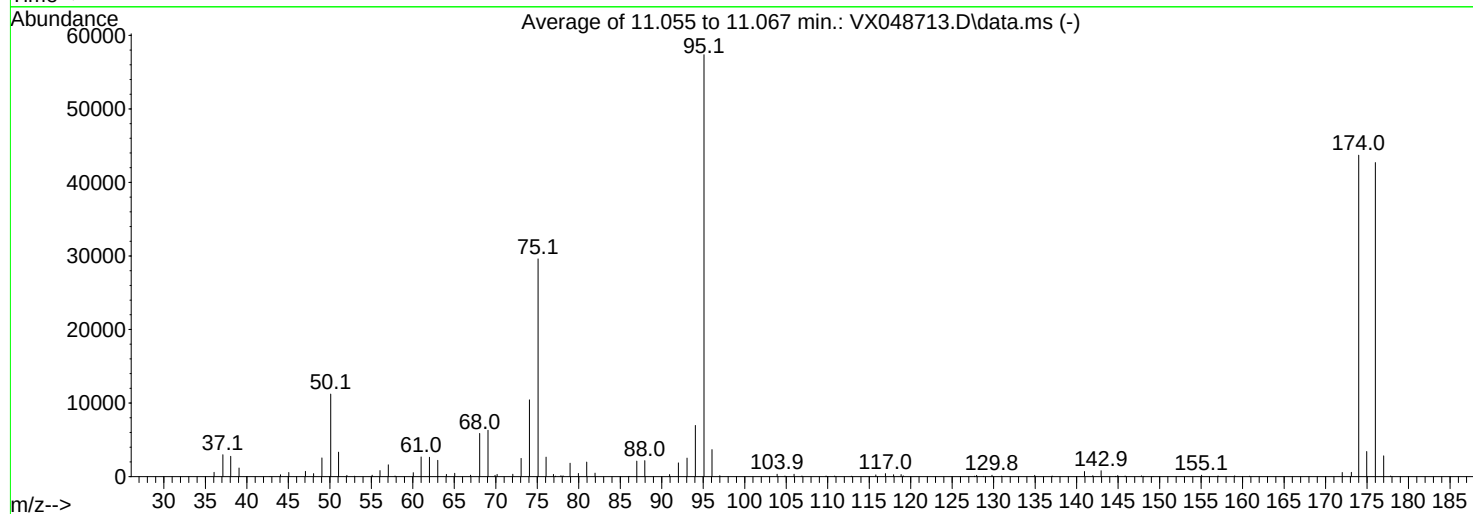
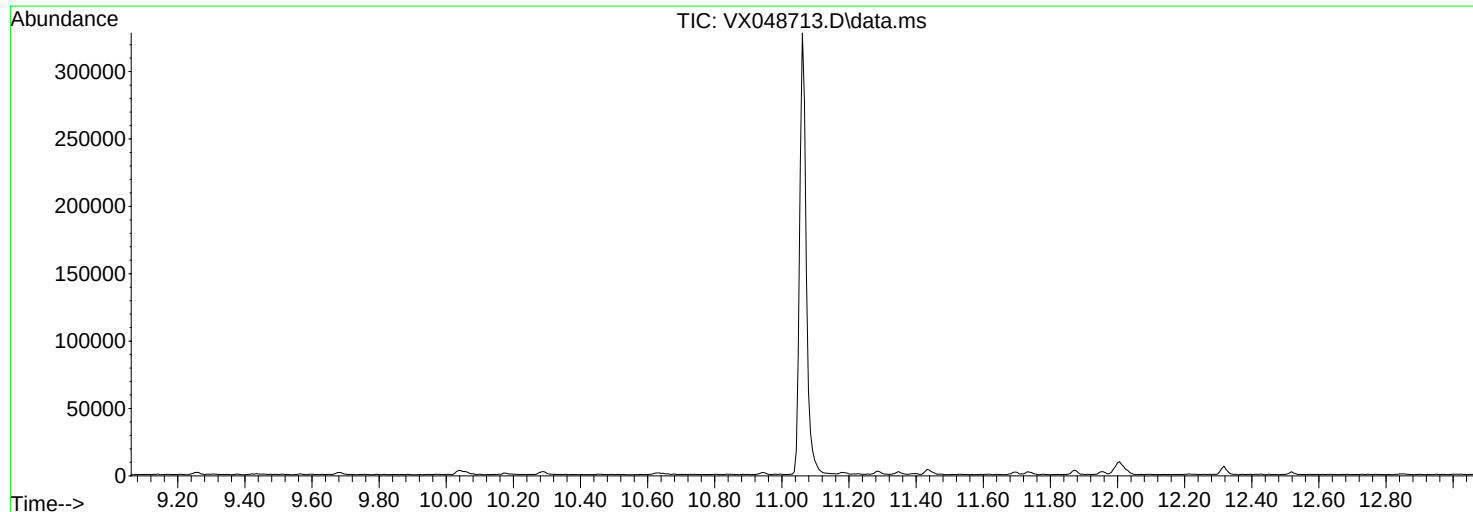
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120425\
Data File : VX048713.D
Acq On : 04 Dec 2025 08:15
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\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

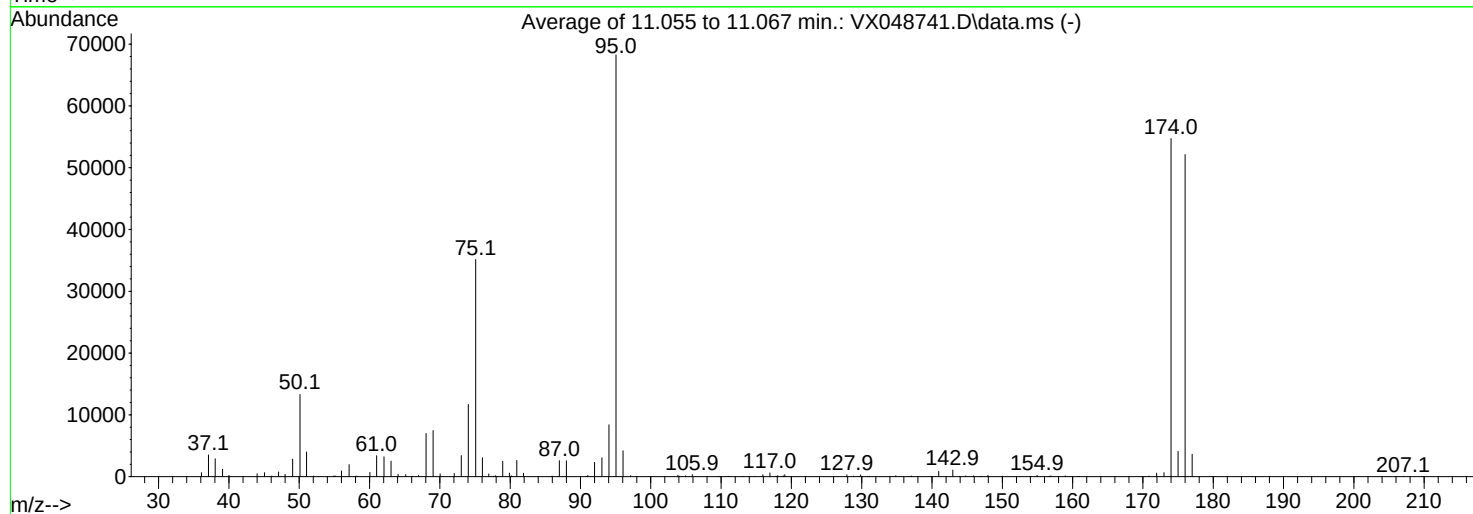
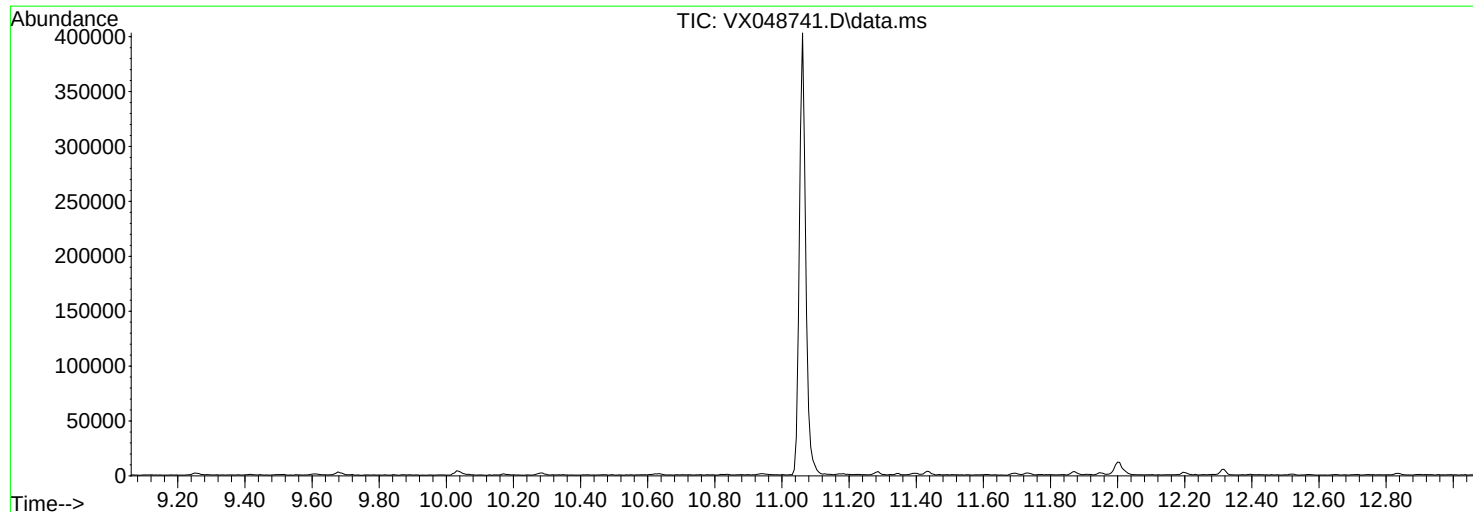
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.6	11214	PASS
75	95	30	60	51.6	29608	PASS
95	95	100	100	100.0	57360	PASS
96	95	5	9	6.4	3677	PASS
173	174	0.00	2	1.3	568	PASS
174	95	50	100	76.2	43696	PASS
175	174	5	9	7.8	3397	PASS
176	174	95	101	97.7	42696	PASS
177	176	5	9	6.6	2825	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048741.D
Acq On : 08 Dec 2025 08:17
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\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

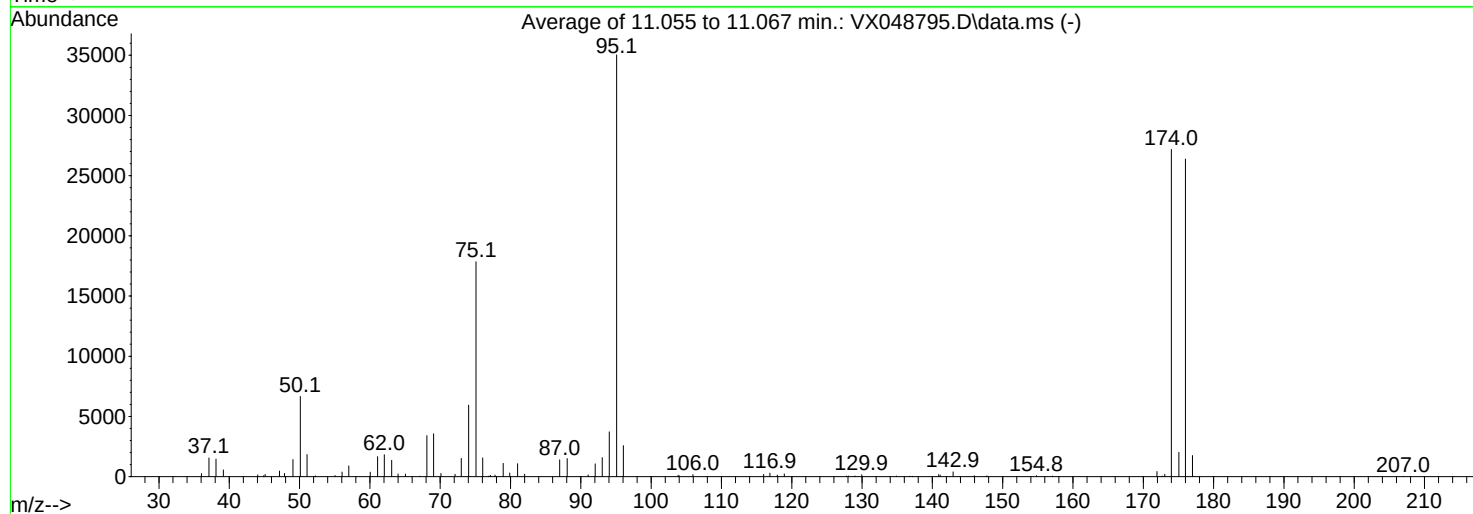
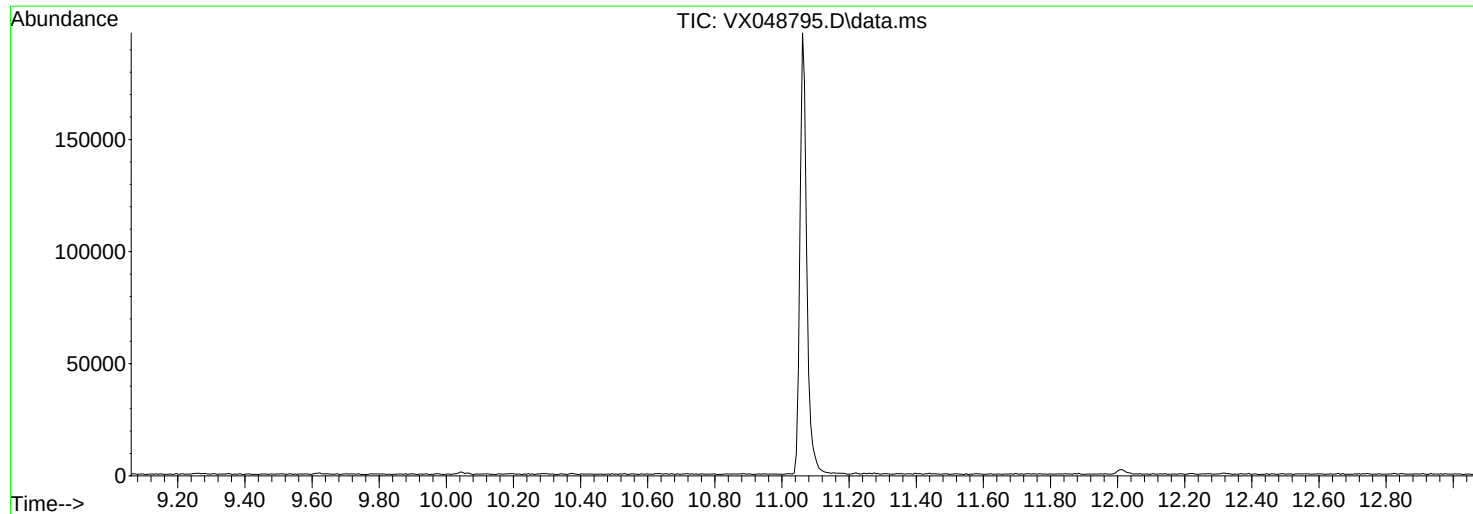
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	13323	PASS
75	95	30	60	51.5	35152	PASS
95	95	100	100	100.0	68272	PASS
96	95	5	9	6.2	4205	PASS
173	174	0.00	2	1.2	656	PASS
174	95	50	100	80.1	54717	PASS
175	174	5	9	7.5	4103	PASS
176	174	95	101	95.3	52133	PASS
177	176	5	9	7.0	3634	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048795.D
Acq On : 10 Dec 2025 09:13
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\82X120425W.M
Title : SW846 8260
Last Update : Fri Dec 05 03:27:34 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	6664	PASS
75	95	30	60	50.9	17843	PASS
95	95	100	100	100.0	35035	PASS
96	95	5	9	7.4	2579	PASS
173	174	0.00	2	0.7	200	PASS
174	95	50	100	77.6	27176	PASS
175	174	5	9	7.4	2018	PASS
176	174	95	101	97.1	26387	PASS
177	176	5	9	6.7	1759	PASS



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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VX1208WBL01
Lab Sample ID: VX1208WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/08/25 11:15	VX120825
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 11:15	VX120825
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/08/25 11:15	VX120825
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/08/25 11:15	VX120825
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/08/25 11:15	VX120825
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/08/25 11:15	VX120825
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/08/25 11:15	VX120825
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/08/25 11:15	VX120825
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/08/25 11:15	VX120825
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/08/25 11:15	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	49.5			70 (74) - 130 (125)	99%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.0			70 (75) - 130 (124)	92%	SPK: 50		
2037-26-5	Toluene-d8	45.2			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.8			70 (77) - 130 (121)	112%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	173000							
540-36-3	1,4-Difluorobenzene	341000							
3114-55-4	Chlorobenzene-d5	370000							
3855-82-1	1,4-Dichlorobenzene-d4	180000							

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\VX120825\
 Data File : VX048744.D
 Acq On : 08 Dec 2025 11:15
 Operator : JC/MD
 Sample : VX1208WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1208WBL01

Quant Time: Dec 09 04:06:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	173343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	340953	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	370451	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	179749	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	115181	49.507	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.020%
35) Dibromofluoromethane	5.361	113	107991	46.001	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.000%
50) Toluene-d8	8.629	98	372131	45.222	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	90.440%#
62) 4-Bromofluorobenzene	11.061	95	158378	55.813	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.620%

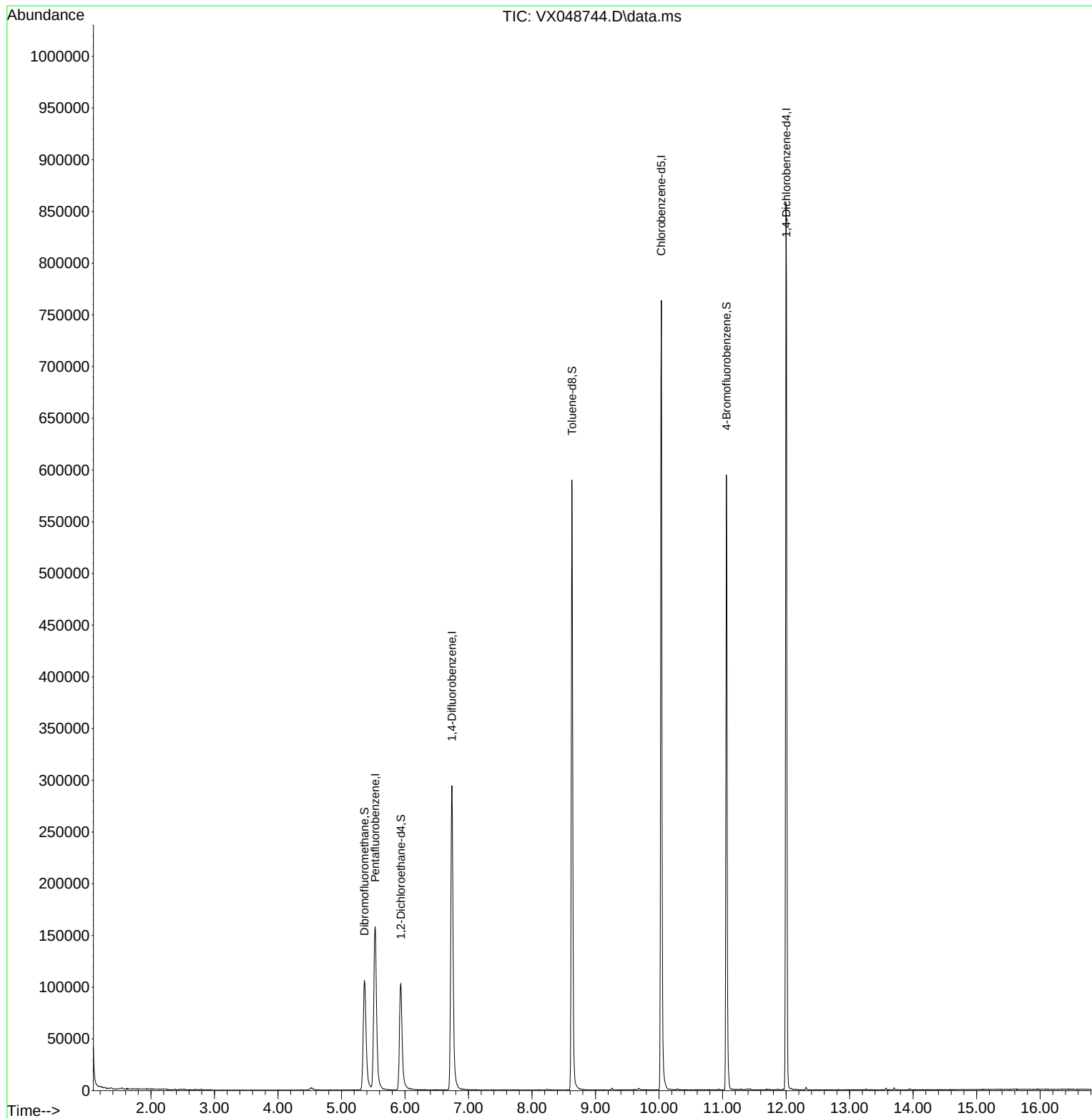
Target Compounds	Qvalue

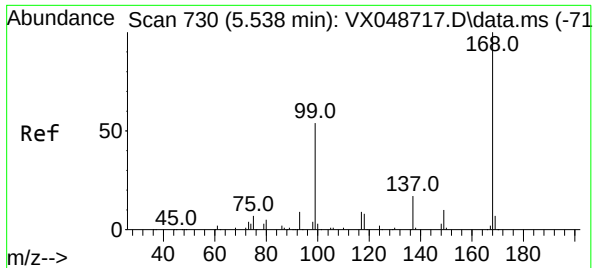
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048744.D
Acq On : 08 Dec 2025 11:15
Operator : JC/MD
Sample : VX1208WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

Quant Time: Dec 09 04:06:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

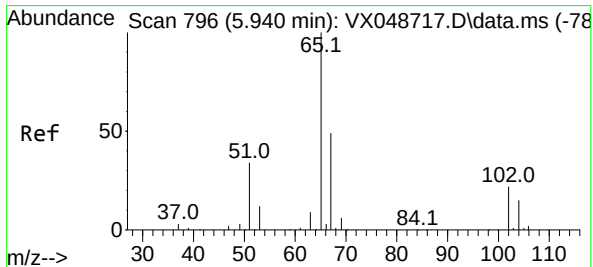
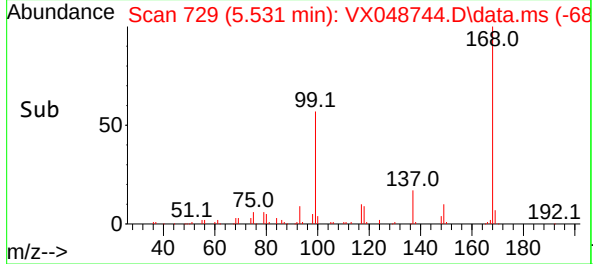
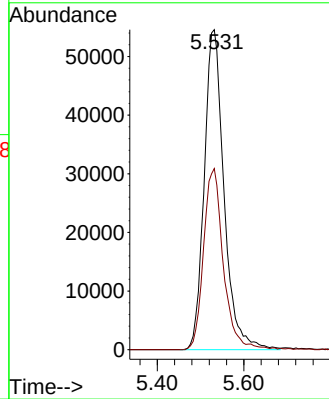
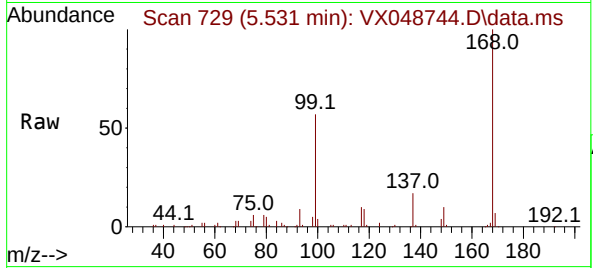




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

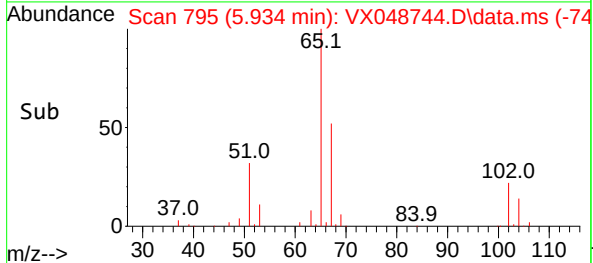
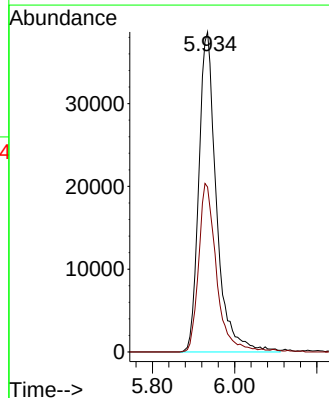
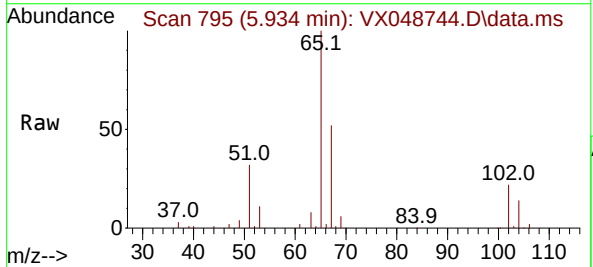
Instrument :
MSVOA_X
ClientSampleId :
VX1208WBL01

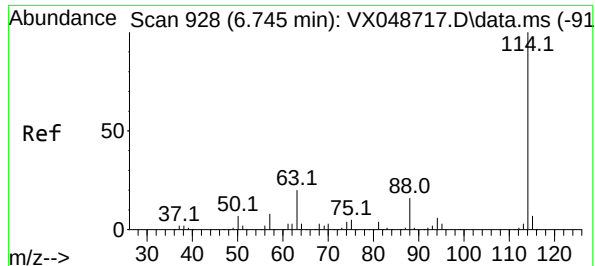
Tgt Ion:168 Resp: 173343
Ion Ratio Lower Upper
168 100
99 56.6 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 49.507 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048744.D
Acq: 08 Dec 2025 11:15

Tgt Ion: 65 Resp: 115181
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

Instrument :

MSVOA_X

ClientSampleId :

VX1208WBL01

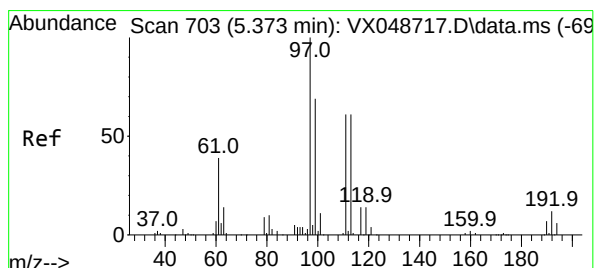
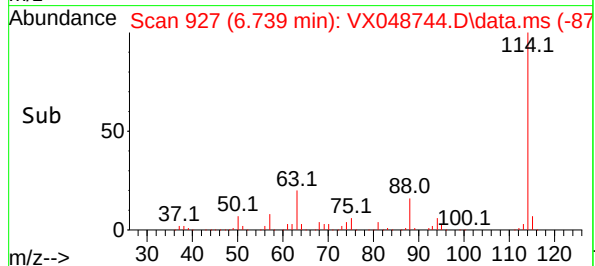
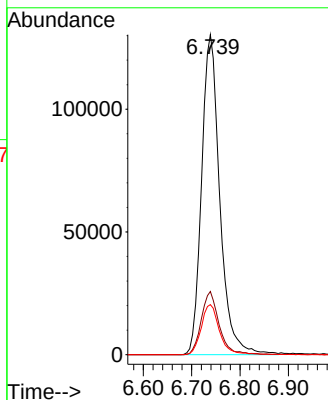
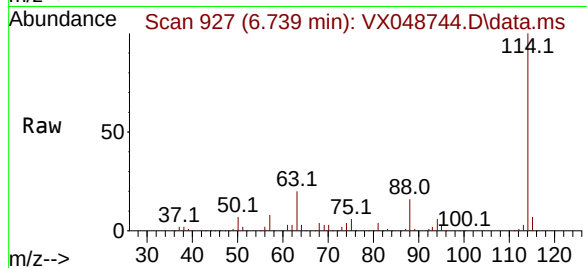
Tgt Ion:114 Resp: 340953

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.0

88 15.6 0.0 31.8



#35

Dibromofluoromethane

Concen: 46.001 ug/l

RT: 5.361 min Scan# 701

Delta R.T. -0.012 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

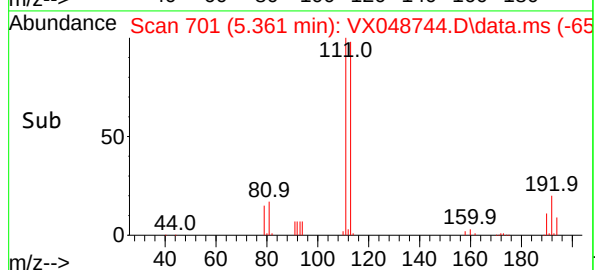
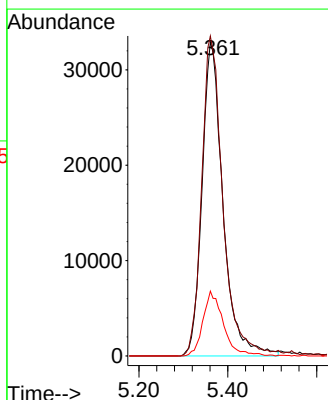
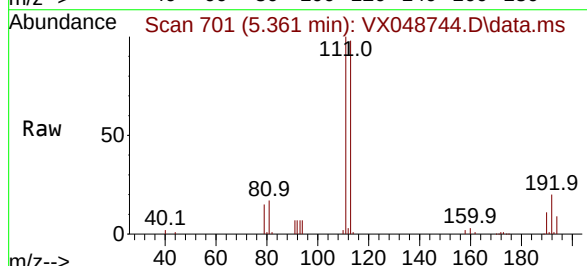
Tgt Ion:113 Resp: 107991

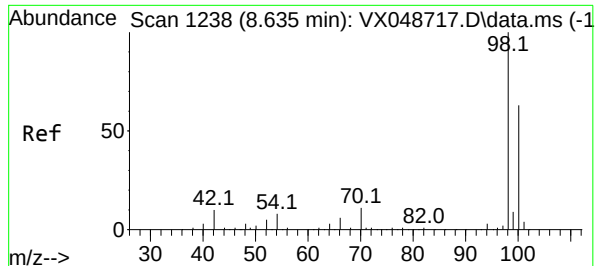
Ion Ratio Lower Upper

113 100

111 102.8 79.5 119.3

192 20.1 16.1 24.1





#50

Toluene-d8

Concen: 45.222 ug/l

RT: 8.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

Instrument :

MSVOA_X

ClientSampleId :

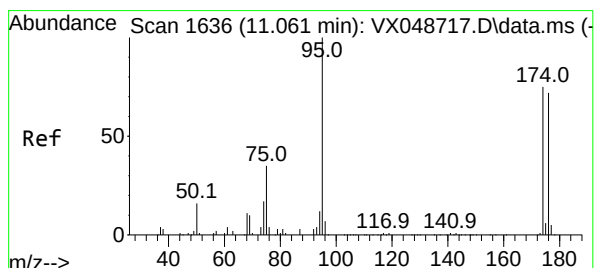
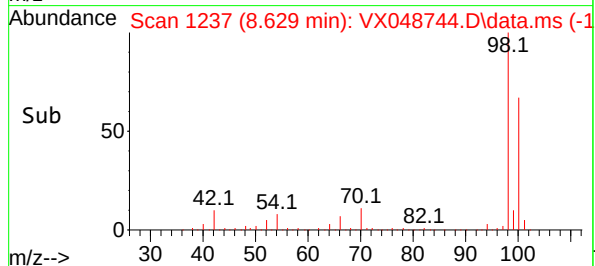
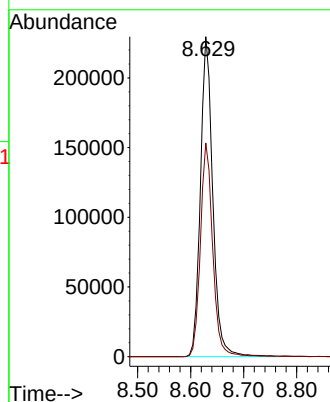
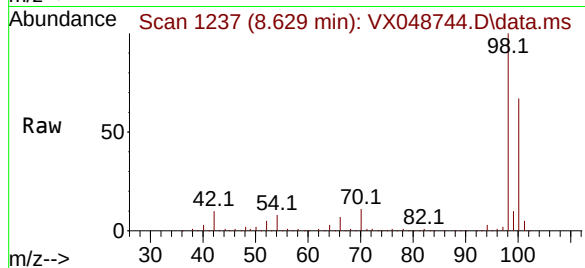
VX1208WBL01

Tgt Ion: 98 Resp: 372131

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.0



#62

4-Bromofluorobenzene

Concen: 55.813 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

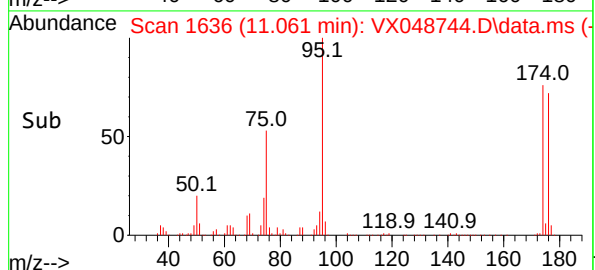
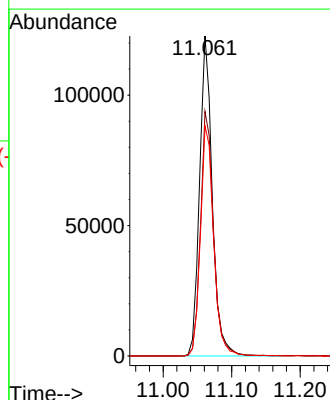
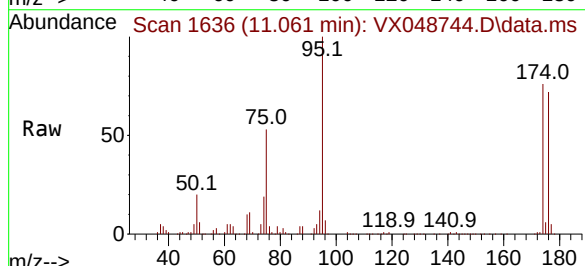
Tgt Ion: 95 Resp: 158378

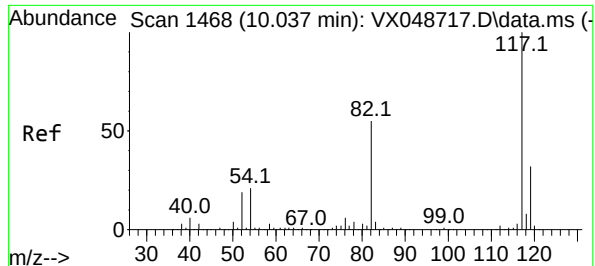
Ion Ratio Lower Upper

95 100

174 78.8 0.0 157.8

176 74.8 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

Instrument :

MSVOA_X

ClientSampleId :

VX1208WBL01

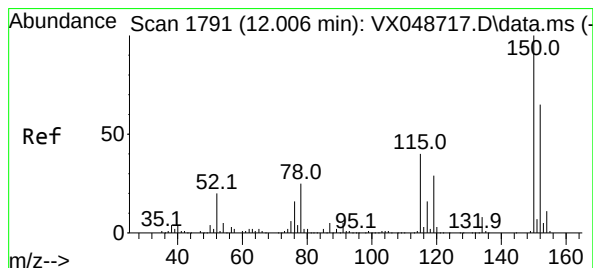
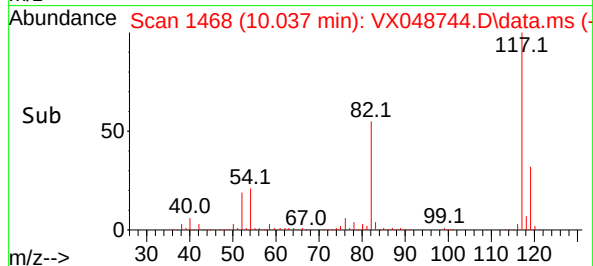
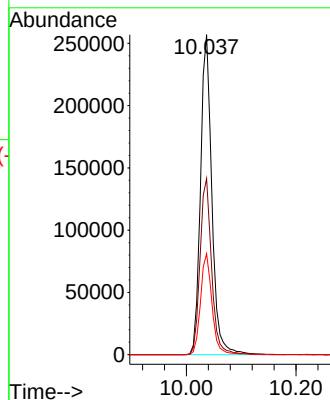
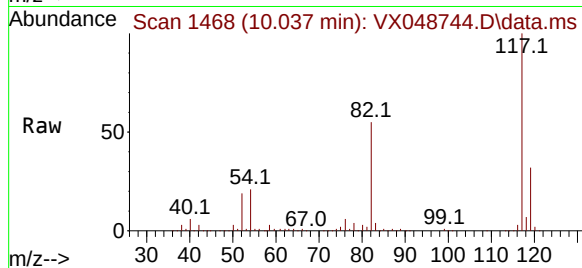
Tgt Ion:117 Resp: 370451

Ion Ratio Lower Upper

117 100

82 55.1 44.1 66.1

119 31.5 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048744.D

Acq: 08 Dec 2025 11:15

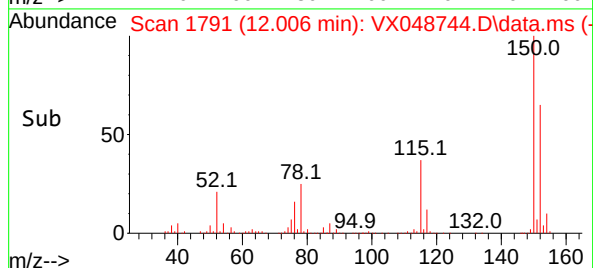
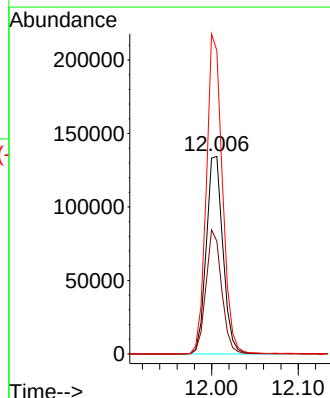
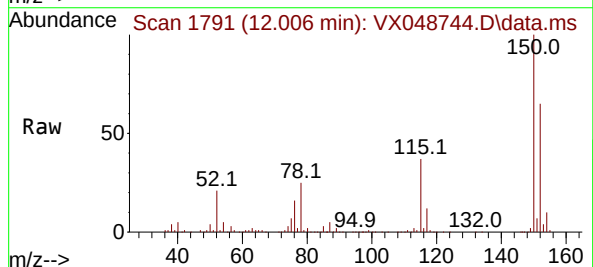
Tgt Ion:152 Resp: 179749

Ion Ratio Lower Upper

152 100

115 59.4 42.1 126.4

150 155.9 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VX1210WBL01
Lab Sample ID: VX1210WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/10/25 10:10	VX121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:10	VX121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:10	VX121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 10:10	VX121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 10:10	VX121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 10:10	VX121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 10:10	VX121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 10:10	VX121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 10:10	VX121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:10	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	51.4			70 (74) - 130 (125)	103%	SPK: 50		
1868-53-7	Dibromofluoromethane	45.2			70 (75) - 130 (124)	90%	SPK: 50		
2037-26-5	Toluene-d8	46.7			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	57.2			70 (77) - 130 (121)	114%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	143000							
540-36-3	1,4-Difluorobenzene	288000							
3114-55-4	Chlorobenzene-d5	307000							
3855-82-1	1,4-Dichlorobenzene-d4	162000							

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\VX121025\
 Data File : VX048797.D
 Acq On : 10 Dec 2025 10:10
 Operator : JC/MD
 Sample : VX1210WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1210WBL01

Quant Time: Dec 11 00:18:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.525	168	143182	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	288257	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	306883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	162084	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	98828	51.426	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	102.860%
35) Dibromofluoromethane	5.367	113	89655	45.172	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.340%
50) Toluene-d8	8.628	98	324876	46.696	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.400%
62) 4-Bromofluorobenzene	11.061	95	137328	57.242	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	114.480%

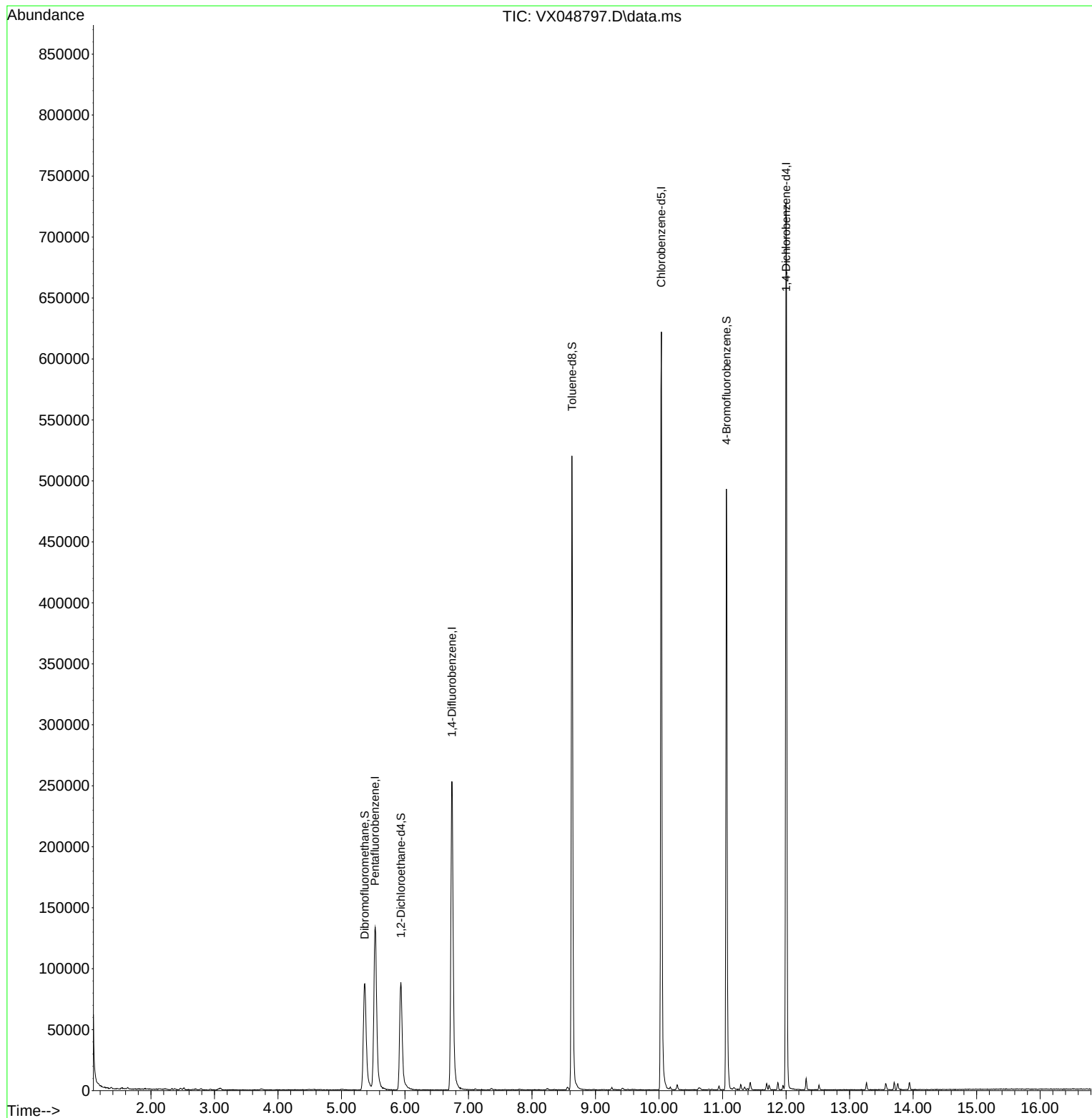
Target Compounds	Qvalue

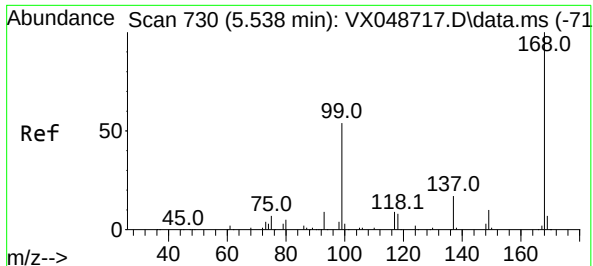
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048797.D
Acq On : 10 Dec 2025 10:10
Operator : JC/MD
Sample : VX1210WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1210WBL01

Quant Time: Dec 11 00:18:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.525 min Scan# 71

Delta R.T. -0.013 min

Lab File: VX048797.D

Acq: 10 Dec 2025 10:10

Instrument :

MSVOA_X

ClientSampleId :

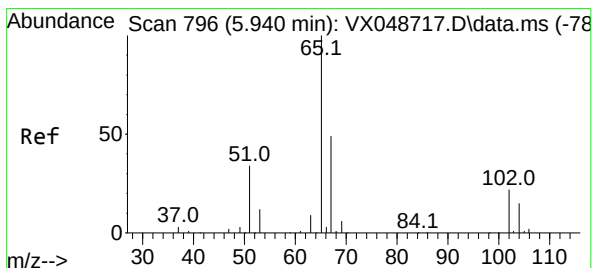
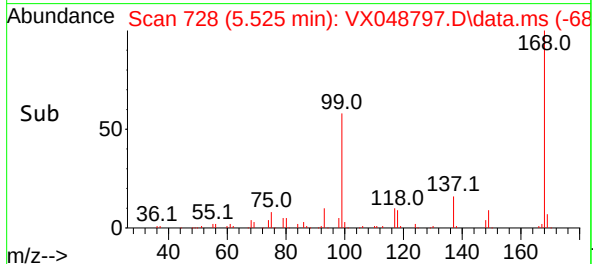
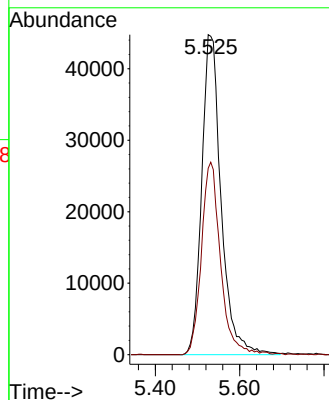
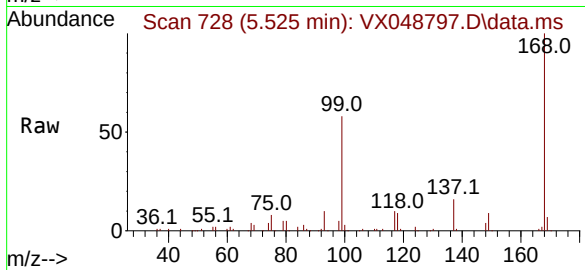
VX1210WBL01

Tgt Ion:168 Resp: 143182

Ion Ratio Lower Upper

168 100

99 58.2 44.2 66.4



#33

1,2-Dichloroethane-d4

Concen: 51.426 ug/l

RT: 5.934 min Scan# 795

Delta R.T. -0.006 min

Lab File: VX048797.D

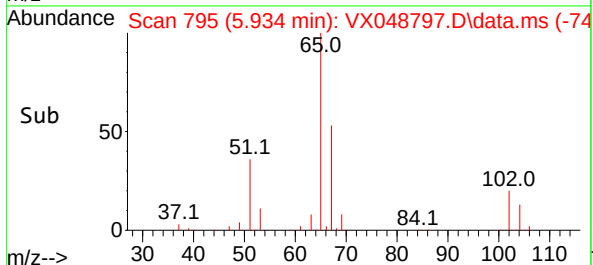
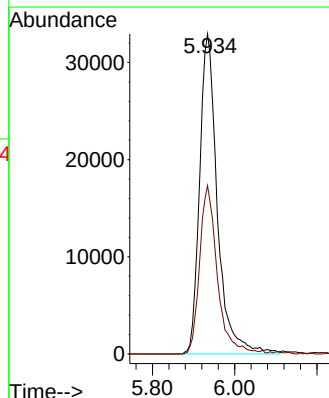
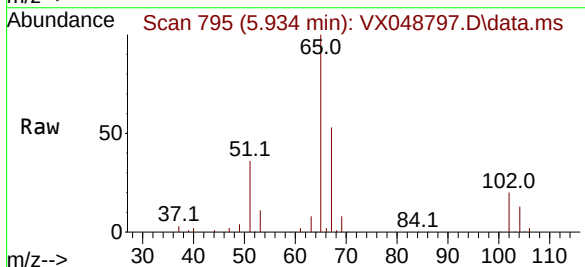
Acq: 10 Dec 2025 10:10

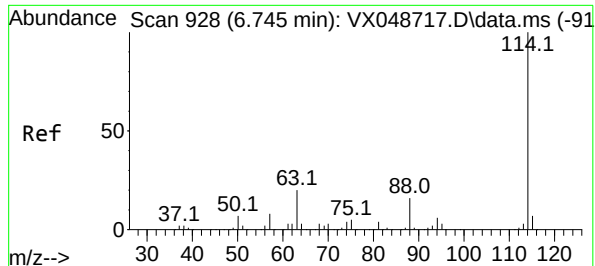
Tgt Ion: 65 Resp: 98828

Ion Ratio Lower Upper

65 100

67 52.4 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX048797.D

Acq: 10 Dec 2025 10:10

Instrument :

MSVOA_X

ClientSampleId :

VX1210WBL01

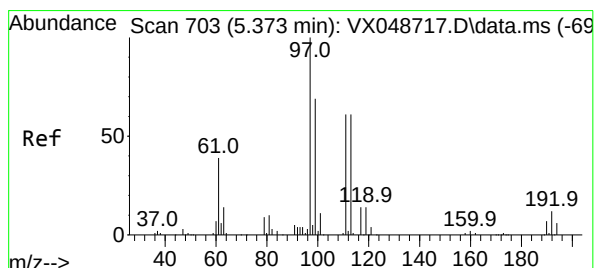
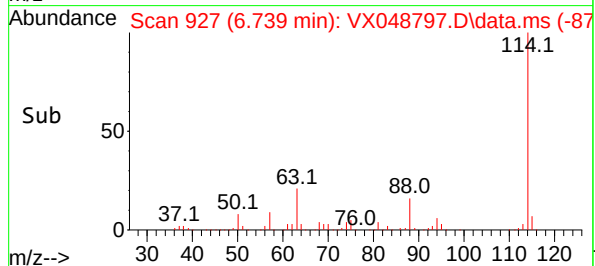
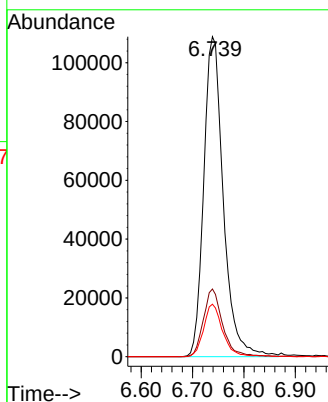
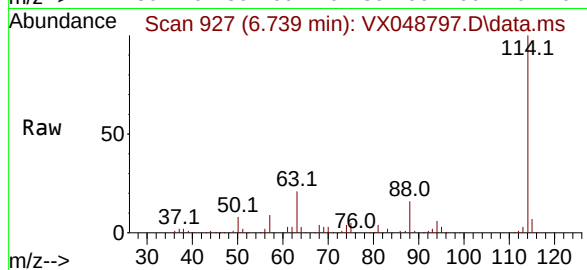
Tgt Ion:114 Resp: 288257

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.0

88 16.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 45.172 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048797.D

Acq: 10 Dec 2025 10:10

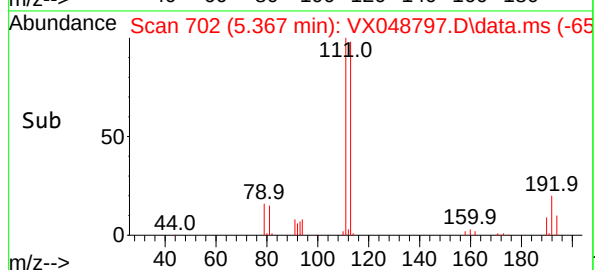
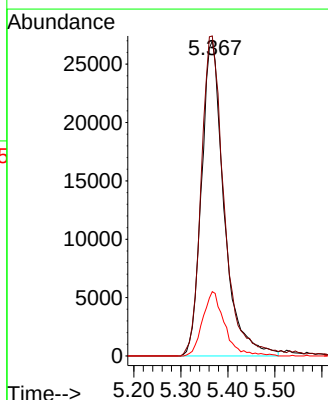
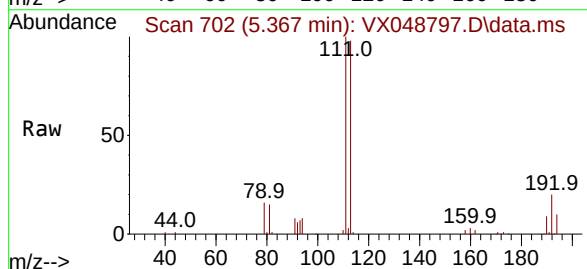
Tgt Ion:113 Resp: 89655

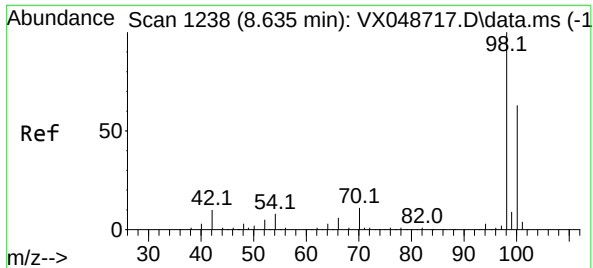
Ion Ratio Lower Upper

113 100

111 103.4 79.5 119.3

192 20.1 16.1 24.1

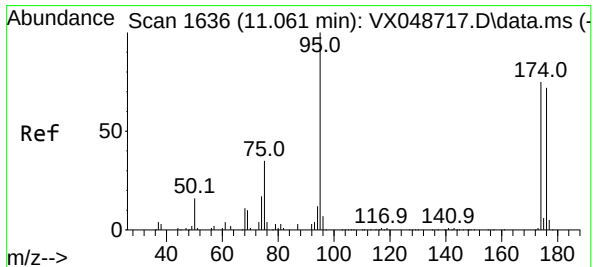
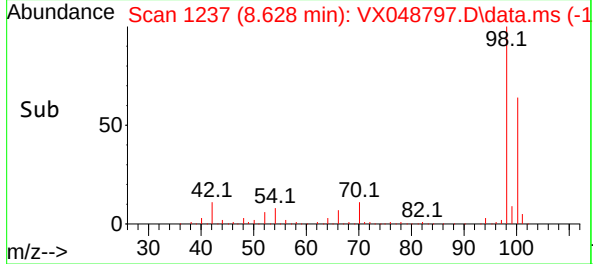
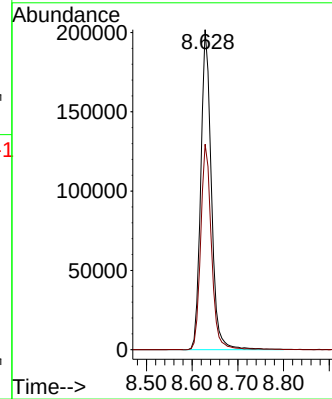
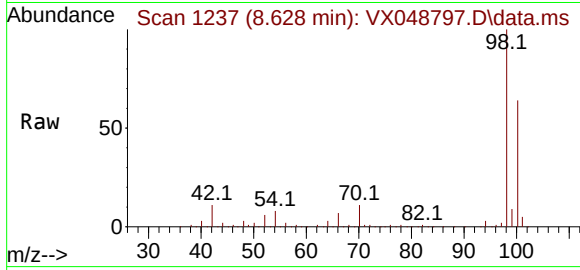




#50
Toluene-d8
Concen: 46.696 ug/l
RT: 8.628 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048797.D
Acq: 10 Dec 2025 10:10

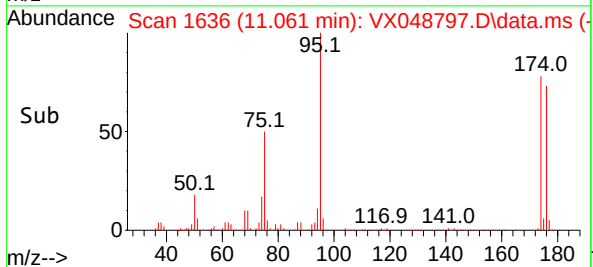
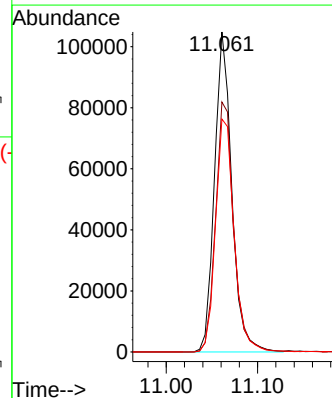
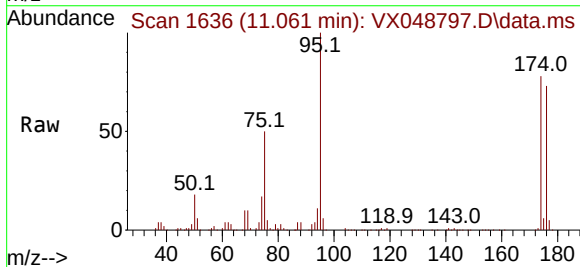
Instrument :
MSVOA_X
ClientSampleId :
VX1210WBL01

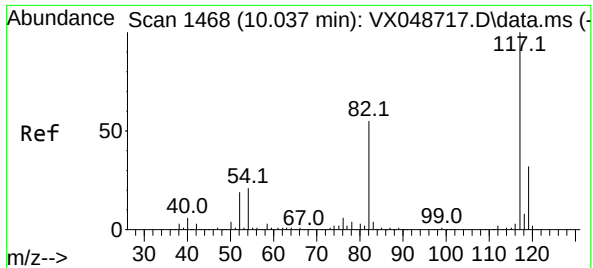
Tgt Ion: 98 Resp: 324876
Ion Ratio Lower Upper
98 100
100 65.2 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 57.242 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048797.D
Acq: 10 Dec 2025 10:10

Tgt Ion: 95 Resp: 137328
Ion Ratio Lower Upper
95 100
174 82.3 0.0 157.8
176 78.3 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048797.D

Acq: 10 Dec 2025 10:10

Instrument :

MSVOA_X

ClientSampleId :

VX1210WBL01

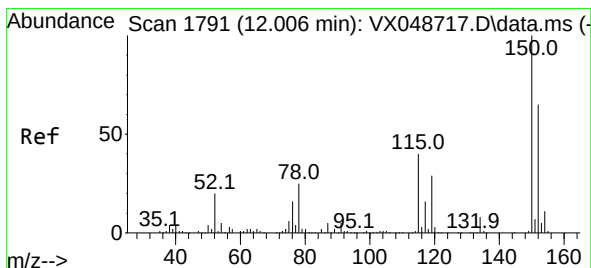
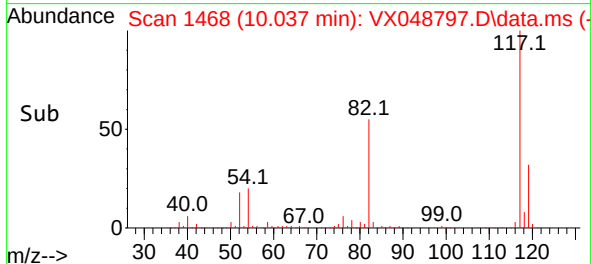
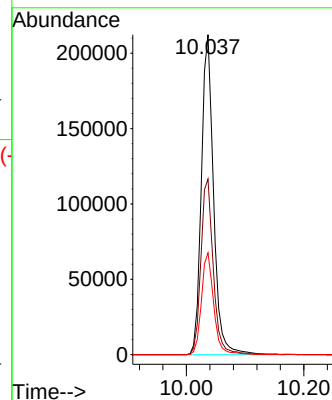
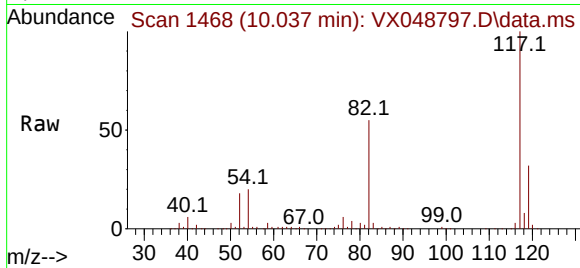
Tgt Ion:117 Resp: 306883

Ion Ratio Lower Upper

117 100

82 54.9 44.1 66.1

119 31.9 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.000 min Scan# 1790

Delta R.T. -0.006 min

Lab File: VX048797.D

Acq: 10 Dec 2025 10:10

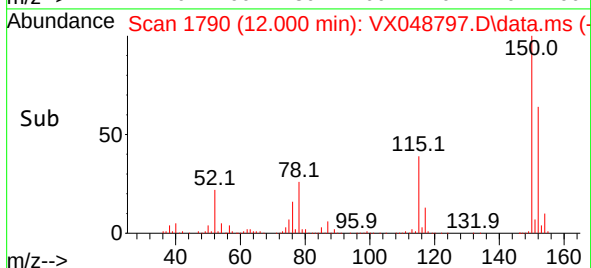
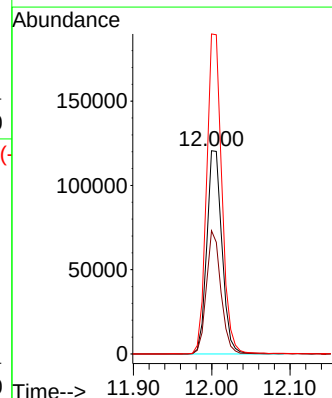
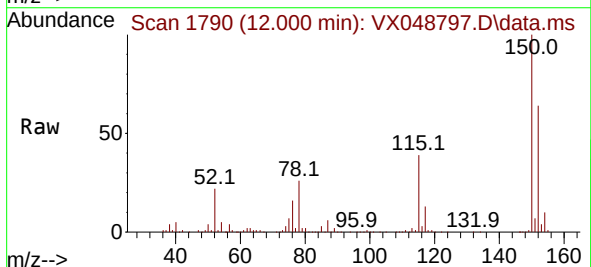
Tgt Ion:152 Resp: 162084

Ion Ratio Lower Upper

152 100

115 57.9 42.1 126.4

150 158.2 0.0 347.8





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VX1208WBS01
Lab Sample ID: VX1208WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	19.8		1	0.26	1.00	ug/L	12/08/25 11:44	VX120825
75-35-4	1,1-Dichloroethene	19.2		1	0.23	1.00	ug/L	12/08/25 11:44	VX120825
75-34-3	1,1-Dichloroethane	20.8		1	0.23	1.00	ug/L	12/08/25 11:44	VX120825
156-59-2	cis-1,2-Dichloroethene	19.9		1	0.19	1.00	ug/L	12/08/25 11:44	VX120825
71-55-6	1,1,1-Trichloroethane	20.1		1	0.20	1.00	ug/L	12/08/25 11:44	VX120825
71-43-2	Benzene	18.8		1	0.15	1.00	ug/L	12/08/25 11:44	VX120825
107-06-2	1,2-Dichloroethane	21.4		1	0.22	1.00	ug/L	12/08/25 11:44	VX120825
79-01-6	Trichloroethene	17.6		1	0.090	1.00	ug/L	12/08/25 11:44	VX120825
79-00-5	1,1,2-Trichloroethane	21.7		1	0.21	1.00	ug/L	12/08/25 11:44	VX120825
127-18-4	Tetrachloroethene	16.5		1	0.23	1.00	ug/L	12/08/25 11:44	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.7			70 (74) - 130 (125)	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.4			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	50.6			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	58.8			70 (77) - 130 (121)	118%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	178000							
540-36-3	1,4-Difluorobenzene	299000							
3114-55-4	Chlorobenzene-d5	311000							
3855-82-1	1,4-Dichlorobenzene-d4	158000							

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\VX120825\
 Data File : VX048745.D
 Acq On : 08 Dec 2025 11:44
 Operator : JC/MD
 Sample : VX1208WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1208WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2025
 Supervised By : Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:06:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	178446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.738	114	298973	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	311271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	157846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.928	65	135832	56.713	ug/l	-0.01
Spiked Amount 50.000	Range 78 - 117		Recovery = 113.420%			
35) Dibromofluoromethane	5.367	113	103655	50.354	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	8.628	98	364834	50.560	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.120%			
62) 4-Bromofluorobenzene	11.061	95	146293	58.794	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.580%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	41301	22.716	ug/l	100
3) Chloromethane	1.300	50	44715	19.489	ug/l	99
4) Vinyl Chloride	1.380	62	48480	19.841	ug/l	99
5) Bromomethane	1.617	94	33887	22.441	ug/l	96
6) Chloroethane	1.697	64	30088	19.785	ug/l	96
7) Trichlorofluoromethane	1.898	101	71250	20.345	ug/l	99
8) Diethyl Ether	2.130	74	26662	19.074	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.337	101	39901	19.653	ug/l	97
10) Methyl Iodide	2.453	142	50587	17.502	ug/l	97
11) Tert butyl alcohol	2.928	59	39487	102.117	ug/l	99
12) 1,1-Dichloroethene	2.325	96	39681	19.150	ug/l	94
13) Acrolein	2.233	56	38865	127.548	ug/l	98
14) Allyl chloride	2.666	41	73696	21.184	ug/l	96
15) Acrylonitrile	3.050	53	121301	100.674	ug/l	98
16) Acetone	2.367	43	99898	108.954	ug/l	91
17) Carbon Disulfide	2.514	76	112473	18.691	ug/l	99
18) Methyl Acetate	2.690	43	55490	21.510	ug/l	96
19) Methyl tert-butyl Ether	3.099	73	137477	20.386	ug/l	100
20) Methylene Chloride	2.788	84	46445	20.266	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	38834	18.362	ug/l	97
22) Diisopropyl ether	3.745	45	138676	21.329	ug/l	99
23) Vinyl Acetate	3.709	43	614319	112.447	ug/l	95
24) 1,1-Dichloroethane	3.599	63	75325	20.775	ug/l	99
25) 2-Butanone	4.532	43	153848	113.689	ug/l #	89
26) 2,2-Dichloropropane	4.452	77	65032	20.271	ug/l	97
27) cis-1,2-Dichloroethene	4.471	96	47580	19.937	ug/l	94
28) Bromochloromethane	4.879	49	38829	21.849	ug/l	84
29) Tetrahydrofuran	4.971	42	103797	100.452	ug/l	95
30) Chloroform	5.068	83	78114	20.107	ug/l	93
31) Cyclohexane	5.452	56	60315	18.632	ug/l	99
32) 1,1,1-Trichloroethane	5.361	97	69881	20.075	ug/l	96
36) 1,1-Dichloropropene	5.672	75	50056	17.754	ug/l	99
37) Ethyl Acetate	4.690	43	72073	21.393	ug/l	96
38) Carbon Tetrachloride	5.659	117	61250	19.179	ug/l	93
39) Methylcyclohexane	7.360	83	57003	17.098	ug/l	97
40) Benzene	6.019	78	157310	18.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048745.D
 Acq On : 08 Dec 2025 11:44
 Operator : JC/MD
 Sample : VX1208WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1208WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2025
 Supervised By : Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:06:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	31647	20.646	ug/l	94
42) 1,2-Dichloroethane	6.068	62	63162	21.351	ug/l	93
43) Isopropyl Acetate	6.312	43	105648	20.710	ug/l	94
44) Trichloroethene	7.104	130	38336	17.578	ug/l	94
45) 1,2-Dichloropropane	7.409	63	38148	18.261	ug/l	99
46) Dibromomethane	7.562	93	29948	18.904	ug/l	95
47) Bromodichloromethane	7.799	83	62155	18.818	ug/l	97
48) Methyl methacrylate	7.671	41	49411	19.255	ug/l	94
49) 1,4-Dioxane	7.641	88	11933	338.111	ug/l	95
51) 4-Methyl-2-Pentanone	8.549	43	333290	105.257	ug/l	96
52) Toluene	8.702	92	98537	19.551	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	62916	20.022	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	65243	19.320	ug/l	94
55) 1,1,2-Trichloroethane	9.134	97	44019	21.707	ug/l	99
56) Ethyl methacrylate	9.098	69	67147	21.154	ug/l	97
57) 1,3-Dichloropropane	9.287	76	69273	20.543	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.220	63	152119	88.668	ug/l	97
59) 2-Hexanone	9.409	43	232393	104.551	ug/l	98
60) Dibromochloromethane	9.500	129	53723	21.424	ug/l	100
61) 1,2-Dibromoethane	9.592	107	46114	21.010	ug/l	99
64) Tetrachloroethene	9.256	164	37431	16.498	ug/l	97
65) Chlorobenzene	10.061	112	118471	17.388	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	42596	17.479	ug/l	99
67) Ethyl Benzene	10.177	91	198185	17.826	ug/l	100
68) m/p-Xylenes	10.281	106	155889	35.995	ug/l	96
69) o-Xylene	10.622	106	73460	18.102	ug/l	97
70) Styrene	10.634	104	126903	18.215	ug/l	99
71) Bromoform	10.780	173	37658	17.309	ug/l #	99
73) Isopropylbenzene	10.945	105	188979	17.766	ug/l	99
74) N-amyl acetate	10.823	43	81515	17.637	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.195	83	63497	17.692	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	49341m	16.783	ug/l	
77) Bromobenzene	11.183	156	50590	17.819	ug/l	93
78) n-propylbenzene	11.286	91	218787	17.759	ug/l	98
79) 2-Chlorotoluene	11.347	91	131768	17.540	ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	154012	17.615	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	20596	16.641	ug/l	90
82) 4-Chlorotoluene	11.433	91	156772	17.883	ug/l	98
83) tert-Butylbenzene	11.695	119	158909	17.491	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	158196	17.937	ug/l	99
85) sec-Butylbenzene	11.872	105	190539	17.306	ug/l	98
86) p-Isopropyltoluene	11.988	119	164163	17.443	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	90505	17.292	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	92718	17.143	ug/l	99
89) n-Butylbenzene	12.311	91	144814	16.434	ug/l	99
90) Hexachloroethane	12.518	117	30759	16.013	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	85738	16.897	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.920	75	13707	15.692	ug/l	95
93) 1,2,4-Trichlorobenzene	13.567	180	55758	16.638	ug/l	99
94) Hexachlorobutadiene	13.707	225	21763	15.700	ug/l	99
95) Naphthalene	13.756	128	177703	20.256	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	52737	17.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048745.D
Acq On : 08 Dec 2025 11:44
Operator : JC/MD
Sample : VX1208WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1208WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

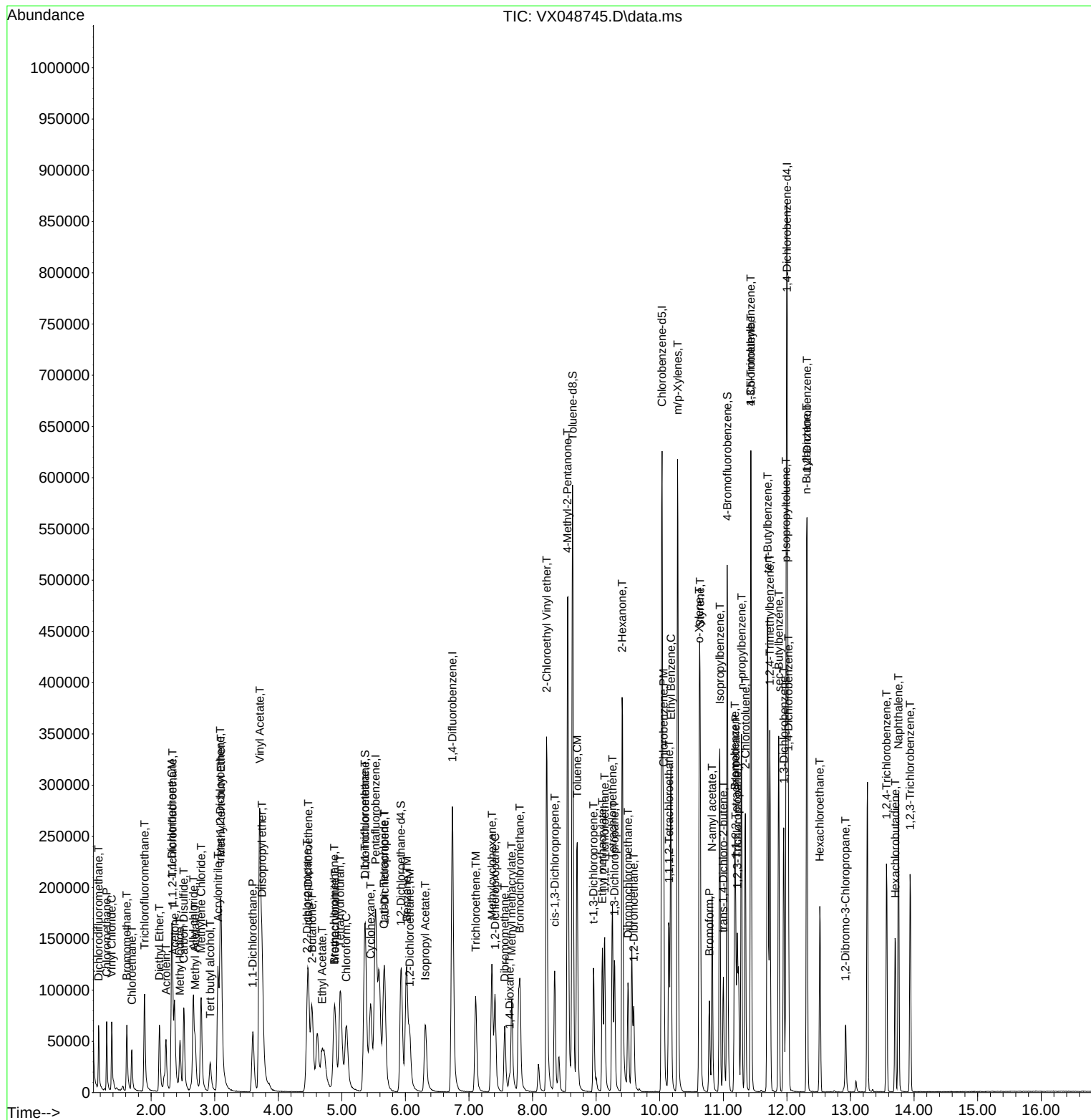
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\  
Data File : VX048745.D  
Acq On    : 08 Dec 2025   11:44  
Operator  : JC/MD  
Sample    : VX1208WBS01  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VX1208WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VX1210WBS01
Lab Sample ID: VX1210WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	16.7		1	0.26	1.00	ug/L	12/10/25 10:58	VX121025
75-35-4	1,1-Dichloroethene	16.9		1	0.23	1.00	ug/L	12/10/25 10:58	VX121025
75-34-3	1,1-Dichloroethane	19.8		1	0.23	1.00	ug/L	12/10/25 10:58	VX121025
156-59-2	cis-1,2-Dichloroethene	19.7		1	0.19	1.00	ug/L	12/10/25 10:58	VX121025
71-55-6	1,1,1-Trichloroethane	18.2		1	0.20	1.00	ug/L	12/10/25 10:58	VX121025
71-43-2	Benzene	18.6		1	0.15	1.00	ug/L	12/10/25 10:58	VX121025
107-06-2	1,2-Dichloroethane	18.9		1	0.22	1.00	ug/L	12/10/25 10:58	VX121025
79-01-6	Trichloroethene	17.9		1	0.090	1.00	ug/L	12/10/25 10:58	VX121025
79-00-5	1,1,2-Trichloroethane	19.4		1	0.21	1.00	ug/L	12/10/25 10:58	VX121025
127-18-4	Tetrachloroethene	16.3		1	0.23	1.00	ug/L	12/10/25 10:58	VX121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.9			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.9			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	49.2			70 (86) - 130 (113)	98%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.7			70 (77) - 130 (121)	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	153000							
540-36-3	1,4-Difluorobenzene	261000							
3114-55-4	Chlorobenzene-d5	237000							
3855-82-1	1,4-Dichlorobenzene-d4	124000							

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\VX121025\
 Data File : VX048799.D
 Acq On : 10 Dec 2025 10:58
 Operator : JC/MD
 Sample : VX1210WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1210WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:19:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	153473	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	261026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	236663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	113079	54.896	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.800%			
35) Dibromofluoromethane	5.367	113	91472	50.895	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.800%			
50) Toluene-d8	8.629	98	309867	49.185	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.380%			
62) 4-Bromofluorobenzene	11.061	95	116717	53.726	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.460%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	32364	20.697	ug/l	98
3) Chloromethane	1.301	50	35090	17.783	ug/l	100
4) Vinyl Chloride	1.380	62	35160	16.731	ug/l	96
5) Bromomethane	1.618	94	26138	20.126	ug/l	100
6) Chloroethane	1.697	64	21108	16.139	ug/l	97
7) Trichlorofluoromethane	1.898	101	50890	16.896	ug/l	99
8) Diethyl Ether	2.130	74	21221	17.652	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	29535	16.915	ug/l	98
10) Methyl Iodide	2.453	142	42780	17.210	ug/l	99
11) Tert butyl alcohol	2.928	59	33819	101.690	ug/l	99
12) 1,1-Dichloroethene	2.325	96	30092	16.885	ug/l	94
13) Acrolein	2.233	56	29078	116.183	ug/l	98
14) Allyl chloride	2.666	41	57512	19.222	ug/l	98
15) Acrylonitrile	3.050	53	104393	100.740	ug/l	97
16) Acetone	2.368	43	72041	91.357	ug/l	97
17) Carbon Disulfide	2.514	76	87274	16.863	ug/l	98
18) Methyl Acetate	2.697	43	46593	21.000	ug/l	99
19) Methyl tert-butyl Ether	3.099	73	112920	19.469	ug/l	99
20) Methylene Chloride	2.788	84	37424	18.987	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	32641	17.945	ug/l	94
22) Diisopropyl ether	3.745	45	116904	20.906	ug/l	95
23) Vinyl Acetate	3.709	43	503903	107.244	ug/l	97
24) 1,1-Dichloroethane	3.605	63	61629	19.763	ug/l	97
25) 2-Butanone	4.532	43	129063	110.893	ug/l	90
26) 2,2-Dichloropropane	4.459	77	50830	18.422	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	40384	19.675	ug/l	98
28) Bromochloromethane	4.879	49	28414	18.590	ug/l	88
29) Tetrahydrofuran	4.977	42	96129	108.169	ug/l	89
30) Chloroform	5.074	83	65330	19.552	ug/l	97
31) Cyclohexane	5.458	56	48299	17.348	ug/l	94
32) 1,1,1-Trichloroethane	5.361	97	54533	18.215	ug/l	96
36) 1,1-Dichloropropene	5.672	75	42128	17.114	ug/l	98
37) Ethyl Acetate	4.690	43	64281	21.854	ug/l	97
38) Carbon Tetrachloride	5.660	117	48751	17.484	ug/l	93
39) Methylcyclohexane	7.361	83	46361	15.927	ug/l	99
40) Benzene	6.019	78	135431	18.559	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
 Data File : VX048799.D
 Acq On : 10 Dec 2025 10:58
 Operator : JC/MD
 Sample : VX1210WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1210WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:19:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	28007	20.927	ug/l	94
42) 1,2-Dichloroethane	6.062	62	48849	18.913	ug/l	97
43) Isopropyl Acetate	6.312	43	87088	19.553	ug/l	97
44) Trichloroethene	7.104	130	34053	17.884	ug/l	99
45) 1,2-Dichloropropane	7.409	63	34778	19.068	ug/l	99
46) Dibromomethane	7.562	93	25955	18.765	ug/l	98
47) Bromodichloromethane	7.806	83	51991	18.029	ug/l	99
48) Methyl methacrylate	7.671	41	42389	18.920	ug/l	97
49) 1,4-Dioxane	7.641	88	10942	355.103	ug/l	97
51) 4-Methyl-2-Pentanone	8.549	43	286166	103.513	ug/l	97
52) Toluene	8.702	92	81590	18.542	ug/l	97
53) t-1,3-Dichloropropene	8.958	75	53349	19.446	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	56368	19.118	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	34363	19.408	ug/l	97
56) Ethyl methacrylate	9.098	69	55208	19.921	ug/l	98
57) 1,3-Dichloropropane	9.293	76	57952	19.684	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.220	63	134999	90.129	ug/l	98
59) 2-Hexanone	9.409	43	205981	106.140	ug/l	99
60) Dibromochloromethane	9.500	129	41742	19.066	ug/l	99
61) 1,2-Dibromoethane	9.592	107	36893	19.253	ug/l	99
64) Tetrachloroethene	9.257	164	28110	16.295	ug/l	97
65) Chlorobenzene	10.061	112	92589	17.873	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.147	131	32798	17.701	ug/l	98
67) Ethyl Benzene	10.177	91	153845	18.200	ug/l	98
68) m/p-Xylenes	10.281	106	117680	35.739	ug/l	99
69) o-Xylene	10.622	106	56724	18.384	ug/l	100
70) Styrene	10.634	104	100712	19.013	ug/l	97
71) Bromoform	10.781	173	29323	17.727	ug/l #	100
73) Isopropylbenzene	10.945	105	144763	17.376	ug/l	100
74) N-amyl acetate	10.823	43	70709	19.533	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	51287	18.245	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	40646m	17.652	ug/l	
77) Bromobenzene	11.177	156	38570	17.345	ug/l	97
78) n-propylbenzene	11.287	91	169660	17.583	ug/l	99
79) 2-Chlorotoluene	11.348	91	103446	17.581	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	119587	17.463	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	17237	17.782	ug/l	97
82) 4-Chlorotoluene	11.433	91	123216	17.945	ug/l	100
83) tert-Butylbenzene	11.695	119	118741	16.688	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	120936	17.507	ug/l	100
85) sec-Butylbenzene	11.872	105	143834	16.679	ug/l	98
86) p-Isopropyltoluene	11.988	119	123532	16.759	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	70441	17.184	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	72494	17.113	ug/l	99
89) n-Butylbenzene	12.317	91	113458	16.439	ug/l	99
90) Hexachloroethane	12.518	117	23343	15.516	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	66812	16.811	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.927	75	11419	16.691	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	41866	15.950	ug/l	98
94) Hexachlorobutadiene	13.707	225	16507	15.204	ug/l	96
95) Naphthalene	13.756	128	138162	20.107	ug/l	100
96) 1,2,3-Trichlorobenzene	13.945	180	40058	16.549	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048799.D
Acq On : 10 Dec 2025 10:58
Operator : JC/MD
Sample : VX1210WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1210WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:19:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

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

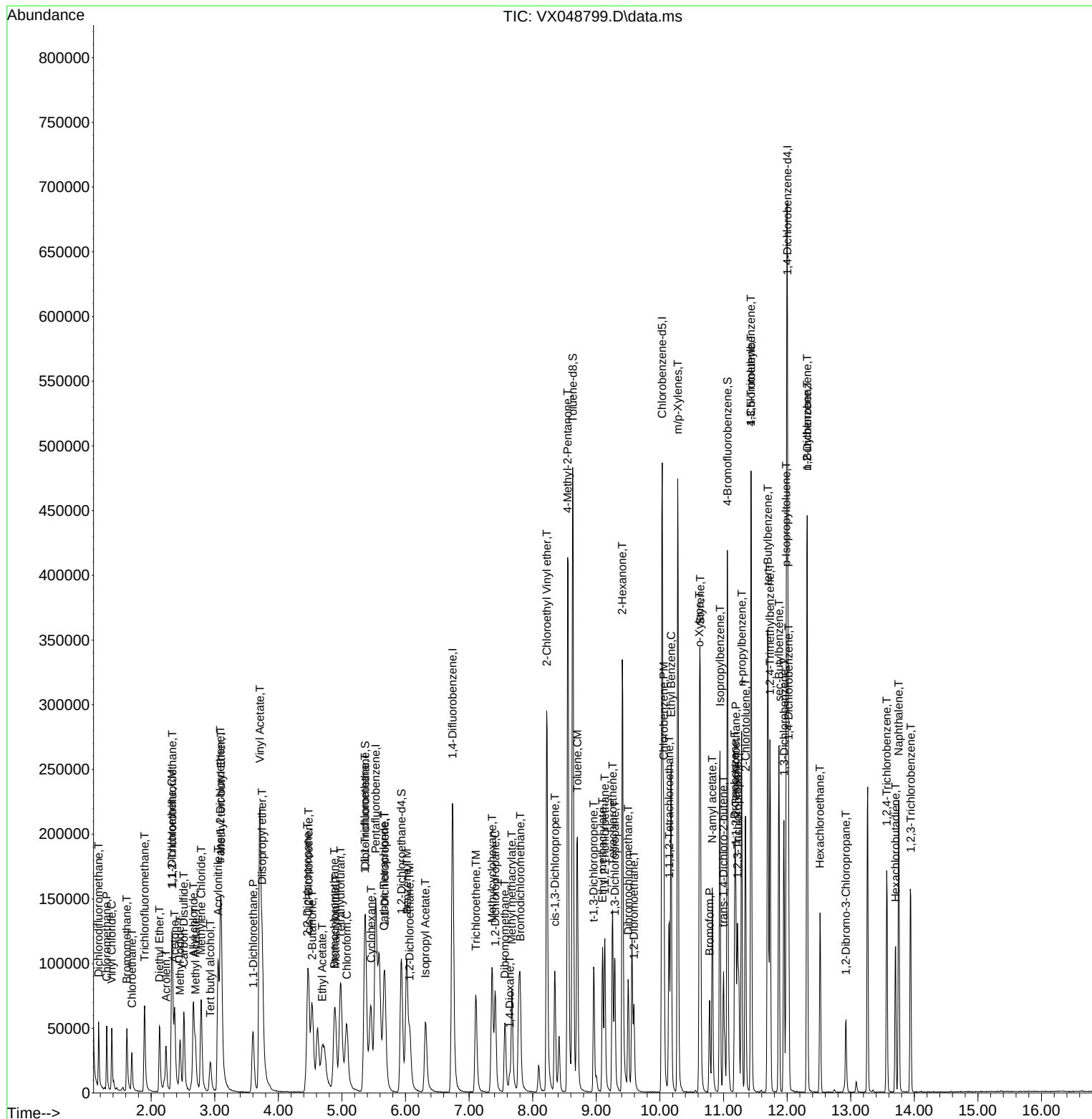
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121025\
Data File : VX048799.D
Acq On : 10 Dec 2025 10:58
Operator : JC/MD
Sample : VX1210WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1210WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 00:19:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: MW-15B-42.5-120425-MS
Lab Sample ID: Q3787-02MS
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	51.8		1	0.26	1.00	ug/L	12/08/25 18:22	VX120825
75-35-4	1,1-Dichloroethene	49.2		1	0.23	1.00	ug/L	12/08/25 18:22	VX120825
75-34-3	1,1-Dichloroethane	58.8		1	0.23	1.00	ug/L	12/08/25 18:22	VX120825
156-59-2	cis-1,2-Dichloroethene	59.1		1	0.19	1.00	ug/L	12/08/25 18:22	VX120825
71-55-6	1,1,1-Trichloroethane	51.6		1	0.20	1.00	ug/L	12/08/25 18:22	VX120825
71-43-2	Benzene	49.9		1	0.15	1.00	ug/L	12/08/25 18:22	VX120825
107-06-2	1,2-Dichloroethane	52.7		1	0.22	1.00	ug/L	12/08/25 18:22	VX120825
79-01-6	Trichloroethene	52.5		1	0.090	1.00	ug/L	12/08/25 18:22	VX120825
79-00-5	1,1,2-Trichloroethane	51.4		1	0.21	1.00	ug/L	12/08/25 18:22	VX120825
127-18-4	Tetrachloroethene	38.7		1	0.23	1.00	ug/L	12/08/25 18:22	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.5			70 (74) - 130 (125)	117%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.6			70 (75) - 130 (124)	97%	SPK: 50		
2037-26-5	Toluene-d8	46.5			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.9			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	149000							
540-36-3	1,4-Difluorobenzene	268000							
3114-55-4	Chlorobenzene-d5	245000							
3855-82-1	1,4-Dichlorobenzene-d4	126000							

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\VX120825\
 Data File : VX048764.D
 Acq On : 08 Dec 2025 18:22
 Operator : JC/MD
 Sample : Q3787-02MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15B-42.5-120425-MS

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/09/2025
 Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	149218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	267773	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	245391	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	125815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	117182	58.510	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 117.020%#			
35) Dibromofluoromethane	5.373	113	89600	48.597	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.200%			
50) Toluene-d8	8.635	98	300466	46.491	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.980%			
62) 4-Bromofluorobenzene	11.061	95	113409	50.888	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.780%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	85417	56.182	ug/l	95
3) Chloromethane	1.301	50	101302	52.802	ug/l	98
4) Vinyl Chloride	1.380	62	105877	51.818	ug/l	100
5) Bromomethane	1.611	94	70489	55.825	ug/l	97
6) Chloroethane	1.697	64	64380	50.627	ug/l	97
7) Trichlorofluoromethane	1.898	101	140388	47.939	ug/l	97
8) Diethyl Ether	2.136	74	61912	52.968	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	77622	45.722	ug/l	98
10) Methyl Iodide	2.459	142	120778	49.972	ug/l	98
11) Tert butyl alcohol	2.941	59	95339	294.849	ug/l	99
12) 1,1-Dichloroethene	2.325	96	85303	49.230	ug/l	98
13) Acrolein	2.233	56	99033	306.416	ug/l	99
14) Allyl chloride	2.666	41	169680	58.327	ug/l	98
15) Acrylonitrile	3.056	53	315401	313.042	ug/l	99
16) Acetone	2.374	43	266451	347.528	ug/l	98
17) Carbon Disulfide	2.514	76	245507	48.790	ug/l	99
18) Methyl Acetate	2.697	43	134400	62.303	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	326490	57.898	ug/l	100
20) Methylene Chloride	2.788	84	103850	54.190	ug/l	98
21) trans-1,2-Dichloroethene	3.093	96	93486	52.863	ug/l	95
22) Diisopropyl ether	3.751	45	339813	62.501	ug/l	96
23) Vinyl Acetate	3.715	43	1499635	328.264	ug/l	97
24) 1,1-Dichloroethane	3.605	63	178319	58.815	ug/l	99
25) 2-Butanone	4.538	43	408002	360.559	ug/l	94
26) 2,2-Dichloropropane	4.465	77	137070	51.095	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	117840	59.050	ug/l	94
28) Bromochloromethane	4.885	49	76912	51.756	ug/l	83
29) Tetrahydrofuran	4.983	42	266972	308.977	ug/l	94
30) Chloroform	5.080	83	181657	55.918	ug/l	98
31) Cyclohexane	5.464	56	124800	46.104	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	150241	51.615	ug/l	96
36) 1,1-Dichloropropene	5.678	75	111707	44.236	ug/l	98
37) Ethyl Acetate	4.690	43	181739	60.230	ug/l	98
38) Carbon Tetrachloride	5.666	117	129810	45.382	ug/l	95
39) Methylcyclohexane	7.367	83	119355	39.971	ug/l	99
40) Benzene	6.025	78	373398	49.880	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048764.D
 Acq On : 08 Dec 2025 18:22
 Operator : JC/MD
 Sample : Q3787-02MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15B-42.5-120425-MS

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/09/2025
 Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	82568	60.142	ug/l	94
42) 1,2-Dichloroethane	6.074	62	139760	52.748	ug/l	95
43) Isopropyl Acetate	6.318	43	251532	55.052	ug/l	95
44) Trichloroethene	7.110	130	102480	52.466	ug/l	92
45) 1,2-Dichloropropane	7.415	63	94833	50.685	ug/l	99
46) Dibromomethane	7.568	93	72314	50.965	ug/l	96
47) Bromodichloromethane	7.805	83	146227	49.430	ug/l	98
48) Methyl methacrylate	7.677	41	125351	54.538	ug/l	96
49) 1,4-Dioxane	7.647	88	29827	943.592	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	824973	290.894	ug/l	98
52) Toluene	8.702	92	226193	50.108	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	148000	52.588	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	153853	50.867	ug/l	98
55) 1,1,2-Trichloroethane	9.134	97	93282	51.359	ug/l	98
56) Ethyl methacrylate	9.098	69	158051	55.594	ug/l	97
57) 1,3-Dichloropropane	9.293	76	157141	52.031	ug/l	100
59) 2-Hexanone	9.415	43	610097	306.457	ug/l	98
60) Dibromochloromethane	9.506	129	111909	49.828	ug/l	99
61) 1,2-Dibromoethane	9.592	107	99938	50.839	ug/l	99
64) Tetrachloroethene	9.256	164	69138	38.653	ug/l	98
65) Chlorobenzene	10.061	112	246624	45.915	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	88070	45.841	ug/l	98
67) Ethyl Benzene	10.177	91	414806	47.326	ug/l	98
68) m/p-Xylenes	10.287	106	314664	92.163	ug/l	99
69) o-Xylene	10.622	106	153240	47.898	ug/l	99
70) Styrene	10.640	104	265723	48.381	ug/l	99
71) Bromoform	10.781	173	76989	44.887	ug/l #	98
73) Isopropylbenzene	10.945	105	374207	44.136	ug/l	99
74) N-amyl acetate	10.823	43	204022	55.382	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	137839	48.182	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	132853m	56.694	ug/l	
77) Bromobenzene	11.183	156	98566	43.556	ug/l	99
78) n-propylbenzene	11.287	91	442403	45.053	ug/l	100
79) 2-Chlorotoluene	11.348	91	268688	44.872	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	308503	44.267	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	47751	48.404	ug/l #	80
82) 4-Chlorotoluene	11.433	91	320872	45.920	ug/l	100
83) tert-Butylbenzene	11.695	119	313331	43.270	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	314064	44.675	ug/l	99
85) sec-Butylbenzene	11.872	105	371550	42.337	ug/l	100
86) p-Isopropyltoluene	11.988	119	314537	41.929	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	173442	41.576	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	179559	41.652	ug/l	99
89) n-Butylbenzene	12.311	91	288544	41.082	ug/l	99
90) Hexachloroethane	12.518	117	59625	38.944	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	171961	42.518	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	31346	45.022	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	104665	39.183	ug/l	98
94) Hexachlorobutadiene	13.707	225	38226	34.596	ug/l	94
95) Naphthalene	13.756	128	375371	49.682	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	99143	40.246	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048764.D
Acq On : 08 Dec 2025 18:22
Operator : JC/MD
Sample : Q3787-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425-MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

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

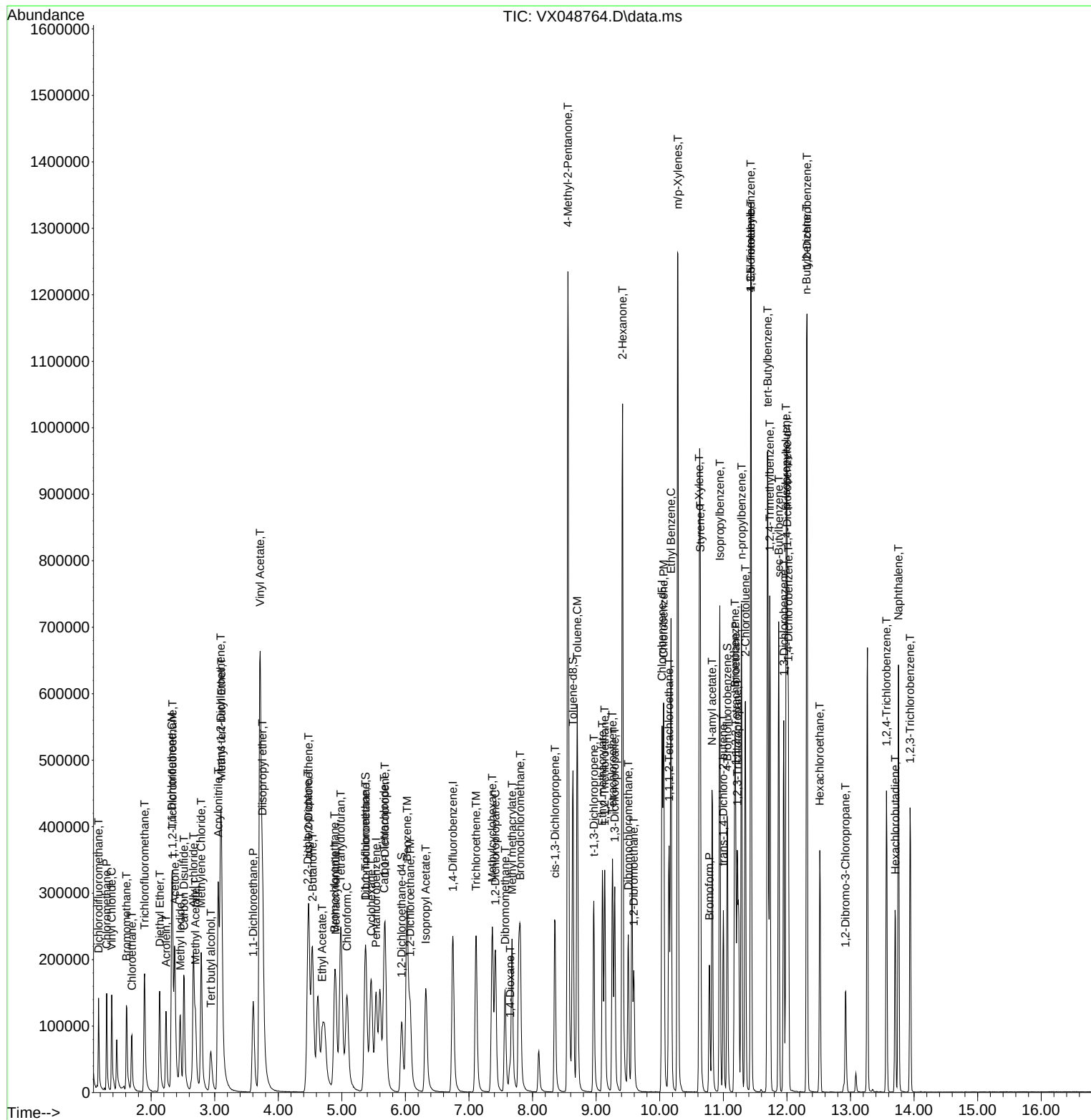
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\  
Data File : VX048764.D  
Acq On    : 08 Dec 2025  18:22  
Operator  : JC/MD  
Sample    : Q3787-02MS  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 24   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425-MS

Manual Integrations APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration





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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: MW-15B-42.5-120425-MSI
Lab Sample ID: Q3787-03MSD
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/04/25
Date Received: 12/04/25
SDG No.: Q3787
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	50.9		1	0.26	1.00	ug/L	12/08/25 18:43	VX120825
75-35-4	1,1-Dichloroethene	49.7		1	0.23	1.00	ug/L	12/08/25 18:43	VX120825
75-34-3	1,1-Dichloroethane	60.4		1	0.23	1.00	ug/L	12/08/25 18:43	VX120825
156-59-2	cis-1,2-Dichloroethene	60.7		1	0.19	1.00	ug/L	12/08/25 18:43	VX120825
71-55-6	1,1,1-Trichloroethane	53.2		1	0.20	1.00	ug/L	12/08/25 18:43	VX120825
71-43-2	Benzene	50.1		1	0.15	1.00	ug/L	12/08/25 18:43	VX120825
107-06-2	1,2-Dichloroethane	55.2		1	0.22	1.00	ug/L	12/08/25 18:43	VX120825
79-01-6	Trichloroethene	52.7		1	0.090	1.00	ug/L	12/08/25 18:43	VX120825
79-00-5	1,1,2-Trichloroethane	51.4		1	0.21	1.00	ug/L	12/08/25 18:43	VX120825
127-18-4	Tetrachloroethene	39.5		1	0.23	1.00	ug/L	12/08/25 18:43	VX120825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.2			70 (74) - 130 (125)	106%	SPK: 50		
1868-53-7	Dibromofluoromethane	44.0			70 (75) - 130 (124)	88%	SPK: 50		
2037-26-5	Toluene-d8	43.2			70 (86) - 130 (113)	86%	SPK: 50		
460-00-4	4-Bromofluorobenzene	44.5			70 (77) - 130 (121)	89%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	132000							
540-36-3	1,4-Difluorobenzene	236000							
3114-55-4	Chlorobenzene-d5	210000							
3855-82-1	1,4-Dichlorobenzene-d4	104000							

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\VX120825\
 Data File : VX048765.D
 Acq On : 08 Dec 2025 18:43
 Operator : JC/MD
 Sample : Q3787-03MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15B-42.5-120425-MSD

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2025
 Supervised By : Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	132053	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	236459	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	210246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	103730	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	94376	53.248	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.500%			
35) Dibromofluoromethane	5.373	113	71640	44.002	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 88.000%			
50) Toluene-d8	8.635	98	246820	43.248	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 86.500%#			
62) 4-Bromofluorobenzene	11.061	95	87600	44.513	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.020%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	75246	55.925	ug/l	96
3) Chloromethane	1.301	50	85763	50.513	ug/l	100
4) Vinyl Chloride	1.380	62	92023	50.892	ug/l	100
5) Bromomethane	1.611	94	62976	56.358	ug/l	95
6) Chloroethane	1.697	64	56131	49.877	ug/l	93
7) Trichlorofluoromethane	1.898	101	126977	48.996	ug/l	96
8) Diethyl Ether	2.136	74	55216	53.380	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	67709	45.067	ug/l	98
10) Methyl Iodide	2.459	142	113034	52.847	ug/l	96
11) Tert butyl alcohol	2.934	59	91401	319.414	ug/l	99
12) 1,1-Dichloroethene	2.325	96	76185	49.683	ug/l	98
13) Acrolein	2.233	56	94805	328.180	ug/l	99
14) Allyl chloride	2.666	41	151667	58.912	ug/l	96
15) Acrylonitrile	3.056	53	289692	324.899	ug/l	99
16) Acetone	2.374	43	240364	354.254	ug/l	98
17) Carbon Disulfide	2.514	76	218417	49.049	ug/l	98
18) Methyl Acetate	2.697	43	122071	63.943	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	296547	59.424	ug/l	100
20) Methylene Chloride	2.788	84	92954	54.809	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	83573	53.400	ug/l	96
22) Diisopropyl ether	3.751	45	307476	63.905	ug/l	99
23) Vinyl Acetate	3.715	43	1380586	341.487	ug/l	96
24) 1,1-Dichloroethane	3.605	63	162052	60.397	ug/l	98
25) 2-Butanone	4.538	43	379282	378.747	ug/l	95
26) 2,2-Dichloropropane	4.471	77	126787	53.405	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	107134	60.663	ug/l	93
28) Bromochloromethane	4.879	49	73318	55.751	ug/l	83
29) Tetrahydrofuran	4.983	42	248532	325.024	ug/l	92
30) Chloroform	5.080	83	164357	57.169	ug/l	100
31) Cyclohexane	5.458	56	114211	47.677	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	137153	53.244	ug/l	96
36) 1,1-Dichloropropene	5.678	75	101310	45.432	ug/l	98
37) Ethyl Acetate	4.696	43	166346	62.429	ug/l	98
38) Carbon Tetrachloride	5.666	117	115935	45.899	ug/l	100
39) Methylcyclohexane	7.367	83	106352	40.333	ug/l	98
40) Benzene	6.025	78	330918	50.059	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048765.D
 Acq On : 08 Dec 2025 18:43
 Operator : JC/MD
 Sample : Q3787-03MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15B-42.5-120425-MSD

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/09/2025
 Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:15:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	75624	62.378	ug/l	94
42) 1,2-Dichloroethane	6.074	62	129080	55.169	ug/l	95
43) Isopropyl Acetate	6.324	43	228096	56.533	ug/l	94
44) Trichloroethene	7.110	130	90902	52.701	ug/l	91
45) 1,2-Dichloropropane	7.415	63	84132	50.920	ug/l	99
46) Dibromomethane	7.568	93	64397	51.396	ug/l	96
47) Bromodichloromethane	7.805	83	132825	50.845	ug/l	98
48) Methyl methacrylate	7.677	41	113869	56.104	ug/l	93
49) 1,4-Dioxane	7.641	88	29281	1048.991	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	750110	299.523	ug/l	97
52) Toluene	8.702	92	202440	50.785	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	135430	54.494	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	139203	52.118	ug/l	95
55) 1,1,2-Trichloroethane	9.134	97	82425	51.391	ug/l	97
56) Ethyl methacrylate	9.104	69	139193	55.445	ug/l	94
57) 1,3-Dichloropropane	9.293	76	142537	53.445	ug/l	99
59) 2-Hexanone	9.415	43	561086	319.161	ug/l	96
60) Dibromochloromethane	9.506	129	99997	50.420	ug/l	98
61) 1,2-Dibromoethane	9.592	107	88303	50.869	ug/l	100
64) Tetrachloroethene	9.256	164	60492	39.473	ug/l	95
65) Chlorobenzene	10.061	112	224156	48.708	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	80189	48.716	ug/l	98
67) Ethyl Benzene	10.177	91	373163	49.692	ug/l	98
68) m/p-Xylenes	10.287	106	281719	96.307	ug/l	99
69) o-Xylene	10.622	106	135097	49.286	ug/l	97
70) Styrene	10.634	104	238011	50.580	ug/l	99
71) Bromoform	10.781	173	69813	47.507	ug/l #	99
73) Isopropylbenzene	10.945	105	341593	48.867	ug/l	100
74) N-amyl acetate	10.823	43	186883	61.530	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	126896	53.801	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	101562m	52.568	ug/l	
77) Bromobenzene	11.177	156	88821	47.607	ug/l	98
78) n-propylbenzene	11.287	91	402813	49.755	ug/l	98
79) 2-Chlorotoluene	11.348	91	244532	49.533	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	282938	49.242	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.000	75	45025	55.358	ug/l #	80
82) 4-Chlorotoluene	11.433	91	292348	50.746	ug/l	100
83) tert-Butylbenzene	11.695	119	285355	47.796	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	284007	49.000	ug/l	98
85) sec-Butylbenzene	11.872	105	334256	46.197	ug/l	100
86) p-Isopropyltoluene	11.988	119	286255	46.284	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	159683	46.427	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	164216	46.203	ug/l	99
89) n-Butylbenzene	12.311	91	263221	45.456	ug/l	98
90) Hexachloroethane	12.518	117	54335	43.044	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	155234	46.554	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	29702	51.744	ug/l	90
93) 1,2,4-Trichlorobenzene	13.567	180	94508	42.913	ug/l	99
94) Hexachlorobutadiene	13.707	225	32995	36.220	ug/l	97
95) Naphthalene	13.756	128	331262	52.612	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	88362	43.506	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
Data File : VX048765.D
Acq On : 08 Dec 2025 18:43
Operator : JC/MD
Sample : Q3787-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-15B-42.5-120425-MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

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

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\  
Data File : VX048765.D  
Acq On    : 08 Dec 2025  18:43  
Operator  : JC/MD  
Sample    : Q3787-03MSD  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 25   Sample Multiplier: 1
```

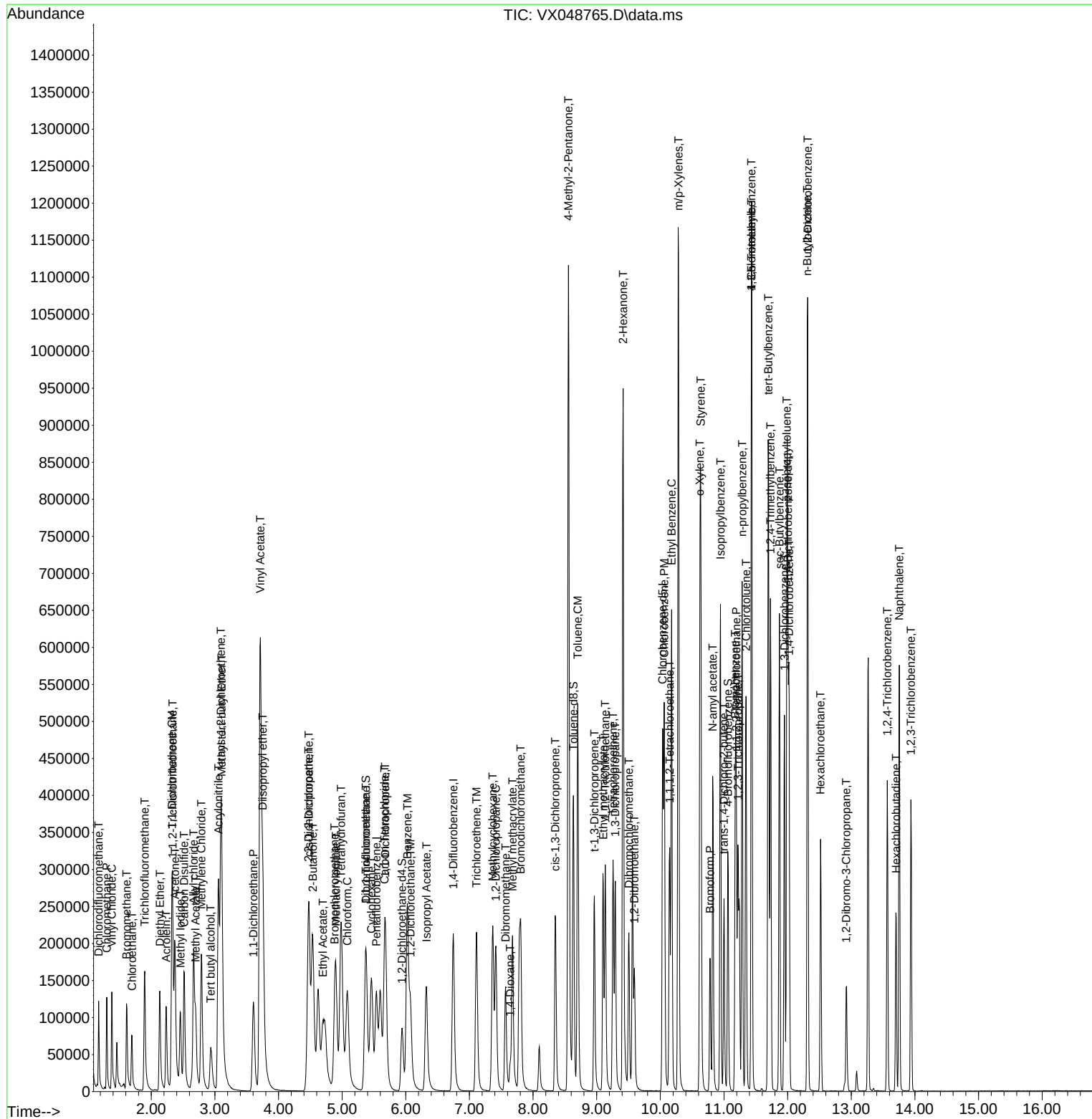
Instrument :
MSVOA_X

ClientSampleId :
MW-15B-42.5-120425-MSD

Quant Time: Dec 09 04:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

Manual Integrations

Reviewed By :John Carlone 12/09/2025
Supervised By :Mahesh Dadoda 12/09/2025



Manual Integration Report

Sequence:	VX120425	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX048714.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:03 AM	sam	12/5/2025 2:19:32 PM	Peak Integrated by Software
VSTDICC001	VX048714.D	1,4-Dichlorobenzene	JOHN	12/5/2025 8:04:03 AM	sam	12/5/2025 2:19:32 PM	Peak Integrated by Software
VSTDICC001	VX048714.D	Ethyl Acetate	JOHN	12/5/2025 8:04:03 AM	sam	12/5/2025 2:19:32 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	1,2-Dichloroethane-d4	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	4-Bromofluorobenzene	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Acrolein	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Bromomethane	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Cyclohexane	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Dibromofluoromethane	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Ethyl Acetate	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Methyl Acetate	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDICC005	VX048715.D	Methyl Iodide	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX120425	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VX048715.D	Tert butyl alcohol	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDIC005	VX048715.D	Toluene-d8	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDIC005	VX048715.D	trans-1,4-Dichloro-2-but ene	JOHN	12/5/2025 8:04:10 AM	sam	12/5/2025 2:19:37 PM	Peak Integrated by Software
VSTDIC020	VX048716.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:16 AM	sam	12/5/2025 2:19:42 PM	Peak Integrated by Software
VSTDIC050	VX048717.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:22 AM	sam	12/5/2025 2:20:03 PM	Peak Integrated by Software
VSTDIC100	VX048718.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:27 AM	sam	12/5/2025 2:19:47 PM	Peak Integrated by Software
VSTDIC150	VX048719.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:32 AM	sam	12/5/2025 2:20:07 PM	Peak Integrated by Software
VSTDICV050	VX048721.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:04:41 AM	sam	12/5/2025 2:19:52 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX120825	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048742.D	1,2,3-Trichloropropane	JOHN	12/9/2025 8:06:28 AM	MMDadoda	12/9/2025 12:23:37 PM	Peak Integrated by Software
VX1208WBS01	VX048745.D	1,2,3-Trichloropropane	JOHN	12/9/2025 8:06:33 AM	MMDadoda	12/9/2025 12:23:40 PM	Peak Integrated by Software
Q3787-02MS	VX048764.D	1,2,3-Trichloropropane	JOHN	12/9/2025 8:06:43 AM	MMDadoda	12/9/2025 12:23:50 PM	Peak Integrated by Software
Q3787-03MSD	VX048765.D	1,2,3-Trichloropropane	JOHN	12/9/2025 8:06:48 AM	MMDadoda	12/9/2025 12:23:55 PM	Peak Integrated by Software
VSTDCCC050	VX048766.D	1,2,3-Trichloropropane	JOHN	12/9/2025 8:06:52 AM	MMDadoda	12/9/2025 12:23:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX121025

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048796.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 11:46:39 AM	sam	12/11/2025 12:33:45 PM	Peak Integrated by Software
VX1210WBS01	VX048799.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 11:46:42 AM	sam	12/11/2025 12:33:50 PM	Peak Integrated by Software
VSTDCCC050	VX048820.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 11:46:51 AM	sam	12/11/2025 12:34:09 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX120425

Review By	John Carlone	Review On	12/5/2025 8:05:59 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:46 PM
SubDirectory	VX120425	HP Acquire Method	HP Processing Method 82X120425
STD. NAME	STD REF.#		
Tune/Reschk	VP136497		
Initial Calibration Stds	VP136526,VP136527,VP136528,VP136529,VP136530,VP136531		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP136532		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048713.D	04 Dec 2025 08:15	JC/MD	Ok
2	VSTDIC001	VX048714.D	04 Dec 2025 08:47	JC/MD	Ok,M
3	VSTDIC005	VX048715.D	04 Dec 2025 09:16	JC/MD	Ok,M
4	VSTDIC020	VX048716.D	04 Dec 2025 09:36	JC/MD	Ok,M
5	VSTDIC050	VX048717.D	04 Dec 2025 09:57	JC/MD	Ok,M
6	VSTDIC100	VX048718.D	04 Dec 2025 10:17	JC/MD	Ok,M
7	VSTDIC150	VX048719.D	04 Dec 2025 10:38	JC/MD	Ok,M
8	IBLK	VX048720.D	04 Dec 2025 10:58	JC/MD	Ok
9	VSTDICV050	VX048721.D	04 Dec 2025 14:04	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX120825

Review By	John Carlone	Review On	12/9/2025 8:11:51 AM
Supervise By	Maresh Dadoda	Supervise On	12/9/2025 12:45:16 PM
SubDirectory	VX120825	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136561		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136570,VP136571		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048741.D	08 Dec 2025 08:17	JC/MD	Ok
2	VSTDCCC050	VX048742.D	08 Dec 2025 09:20	JC/MD	Ok,M
3	VX1208MBL01	VX048743.D	08 Dec 2025 09:49	JC/MD	Ok
4	VX1208WBL01	VX048744.D	08 Dec 2025 11:15	JC/MD	Ok
5	VX1208WBS01	VX048745.D	08 Dec 2025 11:44	JC/MD	Ok,M
6	VX1208WBSD01	VX048746.D	08 Dec 2025 12:12	JC/MD	Ok,M
7	Q3757-05RE	VX048747.D	08 Dec 2025 12:33	JC/MD	Confirms
8	Q3757-09RE	VX048748.D	08 Dec 2025 12:53	JC/MD	Confirms
9	Q3787-01	VX048749.D	08 Dec 2025 13:14	JC/MD	Ok
10	Q3787-02MS	VX048750.D	08 Dec 2025 13:35	JC/MD	Not Ok
11	Q3787-03MSD	VX048751.D	08 Dec 2025 13:55	JC/MD	Not Ok
12	Q3787-07	VX048752.D	08 Dec 2025 14:16	JC/MD	ReRun
13	Q3787-09	VX048753.D	08 Dec 2025 14:36	JC/MD	ReRun
14	Q3787-11	VX048754.D	08 Dec 2025 14:57	JC/MD	ReRun
15	Q3787-13	VX048755.D	08 Dec 2025 15:18	JC/MD	ReRun
16	Q3787-15	VX048756.D	08 Dec 2025 15:38	JC/MD	Ok
17	Q3787-17	VX048757.D	08 Dec 2025 15:59	JC/MD	ReRun
18	Q3787-19	VX048758.D	08 Dec 2025 16:19	JC/MD	ReRun
19	Q3787-21	VX048759.D	08 Dec 2025 16:40	JC/MD	ReRun
20	Q3788-07	VX048760.D	08 Dec 2025 17:00	JC/MD	ReRun
21	Q3788-09	VX048761.D	08 Dec 2025 17:21	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX120825

Review By	John Carlone	Review On	12/9/2025 8:11:51 AM
Supervise By	Maresh Dadoda	Supervise On	12/9/2025 12:45:16 PM
SubDirectory	VX120825	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136561		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136570,VP136571		

22	Q3788-11	VX048762.D	08 Dec 2025 17:41	JC/MD	ReRun
23	Q3788-13	VX048763.D	08 Dec 2025 18:02	JC/MD	Ok
24	Q3787-02MS	VX048764.D	08 Dec 2025 18:22	JC/MD	Ok,M
25	Q3787-03MSD	VX048765.D	08 Dec 2025 18:43	JC/MD	Ok,M
26	VSTDCCC050	VX048766.D	08 Dec 2025 19:03	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:58:26 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:34:32 PM
SubDirectory	VX121025	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136598		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136599,VP136600		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048795.D	10 Dec 2025 09:13	JC/MD	Ok
2	VSTDCCC050	VX048796.D	10 Dec 2025 09:40	JC/MD	Ok,M
3	VX1210WBL01	VX048797.D	10 Dec 2025 10:10	JC/MD	Ok
4	VX1210MBL01	VX048798.D	10 Dec 2025 10:31	JC/MD	Ok
5	VX1210WBS01	VX048799.D	10 Dec 2025 10:58	JC/MD	Ok,M
6	VX1210WBSD01	VX048800.D	10 Dec 2025 11:26	JC/MD	Ok,M
7	Q3803-08DL	VX048801.D	10 Dec 2025 11:47	JC/MD	Ok
8	Q3803-09DL	VX048802.D	10 Dec 2025 12:07	JC/MD	Ok
9	Q3803-11	VX048803.D	10 Dec 2025 12:28	JC/MD	Ok
10	Q3803-12	VX048804.D	10 Dec 2025 12:48	JC/MD	Ok,M
11	Q3803-13RE	VX048805.D	10 Dec 2025 13:09	JC/MD	Confirms
12	IBLK	VX048806.D	10 Dec 2025 13:29	JC/MD	Ok
13	Q3787-07RE	VX048807.D	10 Dec 2025 13:49	JC/MD	Confirms
14	Q3787-09RE	VX048808.D	10 Dec 2025 14:10	JC/MD	Confirms
15	Q3787-11RE	VX048809.D	10 Dec 2025 14:30	JC/MD	Confirms
16	Q3787-13RE	VX048810.D	10 Dec 2025 14:51	JC/MD	Confirms
17	Q3787-17RE	VX048811.D	10 Dec 2025 15:11	JC/MD	Confirms
18	Q3787-19	VX048812.D	10 Dec 2025 15:32	JC/MD	Ok
19	Q3787-21	VX048813.D	10 Dec 2025 15:53	JC/MD	Ok
20	Q3788-07	VX048814.D	10 Dec 2025 16:13	JC/MD	Ok
21	Q3788-09RE	VX048815.D	10 Dec 2025 16:34	JC/MD	Confirms

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:58:26 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:34:32 PM
SubDirectory	VX121025	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136598		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136599,VP136600		

22	Q3788-11RE	VX048816.D	10 Dec 2025 16:54	JC/MD	Confirms
23	Q3776-01	VX048817.D	10 Dec 2025 17:15	JC/MD	ReRun
24	Q3776-02	VX048818.D	10 Dec 2025 17:35	JC/MD	ReRun
25	PB170875TB	VX048819.D	10 Dec 2025 17:56	JC/MD	Ok
26	VSTDCCC050	VX048820.D	10 Dec 2025 18:37	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX120425

Review By	John Carlone	Review On	12/5/2025 8:05:59 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:46 PM
SubDirectory	VX120425	HP Acquire Method	HP Processing Method 82X120425

STD. NAME	STD REF.#
Tune/Reschk	VP136497
Initial Calibration Stds	VP136526,VP136527,VP136528,VP136529,VP136530,VP136531
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP136532
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048713.D	04 Dec 2025 08:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX048714.D	04 Dec 2025 08:47		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX048715.D	04 Dec 2025 09:16		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX048716.D	04 Dec 2025 09:36	Comp. #13 on Linear Regression	JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX048717.D	04 Dec 2025 09:57	Comp. #95 on Quadratic Regression	JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX048718.D	04 Dec 2025 10:17		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX048719.D	04 Dec 2025 10:38		JC/MD	Ok,M
8	IBLK	IBLK	VX048720.D	04 Dec 2025 10:58		JC/MD	Ok
9	VSTDICV050	ICVVX120425	VX048721.D	04 Dec 2025 14:04		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX120825

Review By	John Carlone	Review On	12/9/2025 8:11:51 AM
Supervise By	Maresh Dadoda	Supervise On	12/9/2025 12:45:16 PM
SubDirectory	VX120825	HP Acquire Method	HP Processing Method 82X120425W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136561
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136570,VP136571

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048741.D	08 Dec 2025 08:17		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048742.D	08 Dec 2025 09:20	pH#Lot#V12668	JC/MD	Ok,M
3	VX1208MBL01	VX1208MBL01	VX048743.D	08 Dec 2025 09:49		JC/MD	Ok
4	VX1208WBL01	VX1208WBL01	VX048744.D	08 Dec 2025 11:15		JC/MD	Ok
5	VX1208WBS01	VX1208WBS01	VX048745.D	08 Dec 2025 11:44		JC/MD	Ok,M
6	VX1208WBSD01	VX1208WBSD01	VX048746.D	08 Dec 2025 12:12		JC/MD	Ok,M
7	Q3757-05RE	MW-14B-46-120325RE	VX048747.D	08 Dec 2025 12:33	vial B pH<2 Surrogate fail	JC/MD	Confirms
8	Q3757-09RE	OW-05B-72-120325RE	VX048748.D	08 Dec 2025 12:53	vial B pH<2 Surrogate fail	JC/MD	Confirms
9	Q3787-01	MW-15B-42.5-120425	VX048749.D	08 Dec 2025 13:14	vial A pH<2	JC/MD	Ok
10	Q3787-02MS	MW-15B-42.5-120425	VX048750.D	08 Dec 2025 13:35	Not Spiked	JC/MD	Not Ok
11	Q3787-03MSD	MW-15B-42.5-120425	VX048751.D	08 Dec 2025 13:55	Not Spiked	JC/MD	Not Ok
12	Q3787-07	OWBR-02-170-120425	VX048752.D	08 Dec 2025 14:16	vial A pH<2 Surrogate fail	JC/MD	ReRun
13	Q3787-09	OWBR-02-170-120425	VX048753.D	08 Dec 2025 14:36	vial A pH<2 Surrogate fail	JC/MD	ReRun
14	Q3787-11	OW-03B-51.5-120425	VX048754.D	08 Dec 2025 14:57	vial A pH<2 Surrogate fail	JC/MD	ReRun
15	Q3787-13	OW-03B-51.5-120425	VX048755.D	08 Dec 2025 15:18	vial A pH<2 Surrogate fail	JC/MD	ReRun
16	Q3787-15	OW-08B-72.5-120425	VX048756.D	08 Dec 2025 15:38	vial A pH<2	JC/MD	Ok
17	Q3787-17	OW-08B-72.5-120425	VX048757.D	08 Dec 2025 15:59	vial A pH<2 Surrogate fail	JC/MD	ReRun
18	Q3787-19	OW-02B-21.2-120425	VX048758.D	08 Dec 2025 16:19	vial A pH<2 Surrogate fail	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX120825

Review By	John Carlone	Review On	12/9/2025 8:11:51 AM
Supervise By	Maresh Dadoda	Supervise On	12/9/2025 12:45:16 PM
SubDirectory	VX120825	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136561		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136570,VP136571		

19	Q3787-21	TB01-120425	VX048759.D	08 Dec 2025 16:40	vial A pH<2 TB;Surrogate fail	JC/MD	ReRun
20	Q3788-07	OW-01B-66.5-120525	VX048760.D	08 Dec 2025 17:00	vial A pH<2 Surrogate fail	JC/MD	ReRun
21	Q3788-09	TA-BR-05-465-120525	VX048761.D	08 Dec 2025 17:21	vial A pH<2 Surrogate fail	JC/MD	ReRun
22	Q3788-11	MW-16B-87.5-120525	VX048762.D	08 Dec 2025 17:41	vial A pH<2 Surrogate fail	JC/MD	ReRun
23	Q3788-13	TB01-120525	VX048763.D	08 Dec 2025 18:02	vial A pH<2 TB	JC/MD	Ok
24	Q3787-02MS	MW-15B-42.5-120425	VX048764.D	08 Dec 2025 18:22	vial A pH<2	JC/MD	Ok,M
25	Q3787-03MSD	MW-15B-42.5-120425	VX048765.D	08 Dec 2025 18:43	vial A pH<2	JC/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VX048766.D	08 Dec 2025 19:03		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:58:26 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:34:32 PM
SubDirectory	VX121025	HP Acquire Method	HP Processing Method 82X120425W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136598
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136599,VP136600

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048795.D	10 Dec 2025 09:13		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048796.D	10 Dec 2025 09:40	pH#lot#v14222	JC/MD	Ok,M
3	VX1210WBL01	VX1210WBL01	VX048797.D	10 Dec 2025 10:10		JC/MD	Ok
4	VX1210MBL01	VX1210MBL01	VX048798.D	10 Dec 2025 10:31		JC/MD	Ok
5	VX1210WBS01	VX1210WBS01	VX048799.D	10 Dec 2025 10:58		JC/MD	Ok,M
6	VX1210WBSD01	VX1210WBSD01	VX048800.D	10 Dec 2025 11:26		JC/MD	Ok,M
7	Q3803-08DL	CHASE-HDL	VX048801.D	10 Dec 2025 11:47	vial B pH#5.0	JC/MD	Ok
8	Q3803-09DL	CHASE-IDL	VX048802.D	10 Dec 2025 12:07	vial B pH#5.0	JC/MD	Ok
9	Q3803-11	CHASE-K	VX048803.D	10 Dec 2025 12:28	vial B pH#5.0	JC/MD	Ok
10	Q3803-12	CHASE-L	VX048804.D	10 Dec 2025 12:48	vial B pH#5.0	JC/MD	Ok,M
11	Q3803-13RE	CHASE-MRE	VX048805.D	10 Dec 2025 13:09	vial B pH#5.0 ,Surrogate Fail	JC/MD	Confirms
12	IBLK	IBLK	VX048806.D	10 Dec 2025 13:29		JC/MD	Ok
13	Q3787-07RE	OWBR-02-170-120425	VX048807.D	10 Dec 2025 13:49	vial B pH<2 ,Surrogate fail	JC/MD	Confirms
14	Q3787-09RE	OWBR-02-170-120425	VX048808.D	10 Dec 2025 14:10	vial B pH<2 ,Surrogate fail	JC/MD	Confirms
15	Q3787-11RE	OW-03B-51.5-120425R	VX048809.D	10 Dec 2025 14:30	vial B pH<2 Surrogate fail	JC/MD	Confirms
16	Q3787-13RE	OW-03B-51.5-120425-F	VX048810.D	10 Dec 2025 14:51	vial B pH<2 Surrogate fail	JC/MD	Confirms
17	Q3787-17RE	OW-08B-72.5-120425-F	VX048811.D	10 Dec 2025 15:11	vial B pH<2 Surrogate fail	JC/MD	Confirms
18	Q3787-19	OW-02B-21.2-120425	VX048812.D	10 Dec 2025 15:32	vial B pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX121025

Review By	Maresh Dadoda	Review On	12/11/2025 11:58:26 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:34:32 PM
SubDirectory	VX121025	HP Acquire Method	HP Processing Method 82X120425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136598		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136599,VP136600		

19	Q3787-21	TB01-120425	VX048813.D	10 Dec 2025 15:53	vial B pH<2 ,TB	JC/MD	Ok
20	Q3788-07	OW-01B-66.5-120525	VX048814.D	10 Dec 2025 16:13	vial B pH<2	JC/MD	Ok
21	Q3788-09RE	TA-BR-05-465-120525	VX048815.D	10 Dec 2025 16:34	vial B pH<2 ,Surrogate fail	JC/MD	Confirms
22	Q3788-11RE	MW-16B-87.5-120525	VX048816.D	10 Dec 2025 16:54	vial B pH<2 ,Surrogate fail	JC/MD	Confirms
23	Q3776-01	IDW-RAD-20251203	VX048817.D	10 Dec 2025 17:15	vial A pH<2 Surrogate fail	JC/MD	ReRun
24	Q3776-02	TB-20251203	VX048818.D	10 Dec 2025 17:35	vial A pH<2 ,TB;Surrogate fail	JC/MD	ReRun
25	PB170875TB	PB170875TB	VX048819.D	10 Dec 2025 17:56		JC/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VX048820.D	10 Dec 2025 18:37		JC/MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION			CLIENT PROJECT INFORMATION			CLIENT BILLING INFORMATION											
REPORT TO BE SENT TO: COMPANY: <u>Jacobs</u> ADDRESS: <u>412 Mt Kumbie Ave Suite 100</u> CITY: <u>Morrisstown</u> STATE: <u>NJ</u> ZIP: <u>07960</u> ATTENTION: <u>John Yarbault</u> PHONE: <u>(281) 414-1719</u> FAX:			PROJECT NAME: <u>SIC PTC</u> PROJECT NO.: <u>D4053176</u> LOCATION: <u>Princeton Junct</u> PROJECT MANAGER: <u>Mary Murphy</u> e-mail: <u>Mary.Murphy@Jacobs.com</u> PHONE: <u>(201) 936-6586</u> FAX:			BILL TO: <u>Mary Murphy</u> PO#: ADDRESS: CITY STATE: ZIP: ATTENTION: PHONE:											
DATA TURNAROUND INFORMATION FAX (RUSH) <u>Standard</u> DAYS* HARDCOPY (DATA PACKAGE): DAYS* EDD: DAYS* *TO BE APPROVED BY CHEMTECH STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS			DATA DELIVERABLE INFORMATION ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) ☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP ☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B + Raw Data ☐ Other ☐ EDD FORMAT:			ANALYSIS											
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION DATE TIME	# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB			A/E	A/E	F								
1.	MW-15B-42.5-120425	GW	X		12/4/25 1105	15	X		X								MS/MSP
2.	MW-15B-42.5-120425-SIM	GW	X		12/4/25 1105	9		X									MS/MSP
3.	OWBR-02-170-120425	GW	X		12/4/25 1110	5	X		X								
4.	OWBR-02-170-120425-SIM	GW	X		12/4/25 1110	3		X									
5.	OWBR-02-170-120425-FD	GW	X		12/4/25 1115	5	X		X								
6.	OWBR-02-170-120425-SIM-FD	GW	X		12/4/25 1115	3		X									
7.	OW-03B-51.5-120425	GW	X		12/4/25 1125	5	X		X								
8.	OW-03B-51.5-120425-SIM	GW	X		12/4/25 1125	3		X									
9.	OW-03B-51.5-120425-FD	GW	X		12/4/25 1130	5	X		X								Time = 1130
10.	OW-03B-51.5-120425-SIM-FD	GW	X		12/4/25 1130	3		X									Time = 1130
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																	
RELINQUISHED BY SAMPLER:		DATE/TIME: <u>1600</u>		RECEIVED BY:		Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.6</u> °C Comments: <u>See work order for list of site specific VOs.</u>											
1. <u>[Signature]</u>		12-4-25		1. <u>[Signature]</u>													
RELINQUISHED BY SAMPLER:		DATE/TIME:		RECEIVED BY:													
2. <u>[Signature]</u>				2. <u>[Signature]</u>													
RELINQUISHED BY SAMPLER:		DATE/TIME: <u>1745</u>		RECEIVED BY:													
3. <u>[Signature]</u>		12-4-25		3. <u>[Signature]</u>													
Page <u>1</u> of <u>2</u>						CLIENT: ☐ Hand Delivered ☐ Other						Shipment Complete ☐ YES ☐ NO					



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

ALLIANCE PROJECT NO.

QUOTE NO.

COC Number

Q 3787
2047329

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY: Morrisown STATE: NJ ZIP: 07960
ATTENTION: John Infante
PHONE: (761) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC ARC
PROJECT NO.: D4033126 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@jacobs.com
PHONE: (761) 936-0586 FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

Site Specific VOCs
(22 VOCs - Low)
Trace VOCs Site Specific
SFAM 111 - SFAM 112
14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 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431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 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1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 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1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063,

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3787	JACO05	Order Date : 12/5/2025 7:44:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 3
Client Contact : John Ynfante		Receive DateTime : 12/4/2025 3:45:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 5145 dn	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3787-01	MW-15B-42.5-120425	Water	12/04/2025	11:05					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-02	MW-15B-42.5-120425-MS	Water	12/04/2025	11:05					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-03	MW-15B-42.5-120425-MSD	Water	12/04/2025	11:05					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-04	MW-15B-42.5-120425-SIM	Water	12/04/2025	11:05					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-05	MW-15B-42.5-120425-SIM-MS	Water	12/04/2025	11:05					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-06	MW-15B-42.5-120425-SIM-MSD	Water	12/04/2025	11:05					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-07	OWBR-02-170-120425	Water	12/04/2025	11:10					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-08	OWBR-02-170-120425-SIM	Water	12/04/2025	11:10					



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3787	JACO05	Order Date : 12/5/2025 7:44:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 3
Client Contact : John Ynfante		Receive DateTime : 12/4/2025 3:45:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 545	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-09	OWBR-02-170-120425-FD	Water	12/04/2025	11:15					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-10	OWBR-02-170-120425-SIM-FD	Water	12/04/2025	11:15					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-11	OW-03B-51.5-120425	Water	12/04/2025	11:25					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-12	OW-03B-51.5-120425-SIM	Water	12/04/2025	11:25					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-13	OW-03B-51.5-120425-FD	Water	12/04/2025	11:30					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-14	OW-03B-51.5-120425-SIM-FD	Water	12/04/2025	11:30					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-15	OW-03B-72.5-120425	Water	12/04/2025	11:40					
					VOCMS Group3		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3787	JACO05	Order Date : 12/5/2025 7:44:00 AM	Project Mgr :
Client Name :- JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 3
Client Contact : John Ynfante		Receive DateTime : 12/4/2025 3:45:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 545	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3787-16	OW OQ-08B-72.5-120425-SIM	Water	12/04/2025	11:40					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-17	OW OQ-08B-72.5-120425-FD	Water	12/04/2025	11:45					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-18	OW OQ-08B-72.5-120425-SIM-FD	Water	12/04/2025	11:45					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-19	OW-02B-21.2-120425	Water	12/04/2025	14:45					
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-20	OW-02B-21.2-120425-SIM	Water	12/04/2025	14:45					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
Q3787-21	TB01-120425	Water	12/04/2025	08:00					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	
					VOCMS Group3		8260-Low	10 Bus. Days	
Q3787-22	VHBLK001	Water	12/04/2025	17:45 15:45					
					VOC-SIM		SFAM_VOCSIM	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3787	JACO05	Order Date : 12/5/2025 7:44:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 3
Client Contact : John Ynfante		Receive DateTime : 12/4/2025 3:45:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 5-95	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time :

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room