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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	Q3756	**OrderDate:**	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	**Location:**	--Select--,A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	**OW-04B-26.5-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/04/25	
Q3756-03	**BR-01-190-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/04/25	
Q3756-05	**MW-04-12-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/04/25	
Q3756-07	**MW-13B-47.5-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/04/25	
Q3756-09	**EB01-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/03/25	
Q3756-10	**TB01-120225**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/03/25	
Q3756-10RE	**TB01-120225RE**	**Water**			**12/02/25**			**12/02/25**
			VOCMS Group3	8260-Low			12/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**BR-01-190-120225**							
Q3756-03	BR-01-190-120225	Water	Vinyl Chloride	25.4		0.26	1.00	ug/L
			Total Voc :	25.4				
			Total Concentration:	25.4				

QC SUMMARY

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Surrogate Summary

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3756-01	OW-04B-26.5-120225	1,2-Dichloroethane-d4	50	56.4	113		70 (74)	130 (125)
		Dibromofluoromethane	50	46.7	93		70 (75)	130 (124)
		Toluene-d8	50	44.4	89		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)
Q3756-03	BR-01-190-120225	1,2-Dichloroethane-d4	50	56.2	112		70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92		70 (75)	130 (124)
		Toluene-d8	50	44.0	88		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.7	105		70 (77)	130 (121)
Q3756-05	MW-04-12-120225	1,2-Dichloroethane-d4	50	55.2	110		70 (74)	130 (125)
		Dibromofluoromethane	50	47.1	94		70 (75)	130 (124)
		Toluene-d8	50	45.7	91		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102		70 (77)	130 (121)
Q3756-07	MW-13B-47.5-120225	1,2-Dichloroethane-d4	50	55.7	111		70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94		70 (75)	130 (124)
		Toluene-d8	50	45.2	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.6	101		70 (77)	130 (121)
Q3756-09	EB01-120225	1,2-Dichloroethane-d4	50	58.9	118		70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101		70 (75)	130 (124)
		Toluene-d8	50	46.8	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97		70 (77)	130 (121)
Q3756-10	TB01-120225	1,2-Dichloroethane-d4	50	65.5	131	*	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104		70 (75)	130 (124)
		Toluene-d8	50	48.2	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102		70 (77)	130 (121)
Q3756-10RE	TB01-120225RE	1,2-Dichloroethane-d4	50	54.6	109		70 (74)	130 (125)
		Dibromofluoromethane	50	44.8	90		70 (75)	130 (124)
		Toluene-d8	50	42.0	84		70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.1	88		70 (77)	130 (121)
VN1203WBL01	VN1203WBL01	1,2-Dichloroethane-d4	50	59.5	119		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94		70 (77)	130 (121)
VN1203WBS01	VN1203WBS01	1,2-Dichloroethane-d4	50	54.3	109		70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103		70 (75)	130 (124)
		Toluene-d8	50	49.5	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99		70 (77)	130 (121)
VN1203WBSD0	VN1203WBSD01	1,2-Dichloroethane-d4	50	54.9	110		70 (74)	130 (125)
		Dibromofluoromethane	50	51.9	104		70 (75)	130 (124)
		Toluene-d8	50	52.0	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104		70 (77)	130 (121)
VN1204WBL01	VN1204WBL01	1,2-Dichloroethane-d4	50	61.7	123		70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102		70 (75)	130 (124)
		Toluene-d8	50	46.7	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100		70 (77)	130 (121)
VN1204WBS01	VN1204WBS01	1,2-Dichloroethane-d4	50	53.8	108		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	51.7	103		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** SW8260-Low

Client: JACOBS Engineering Group, Inc. **Datafile :** VN088419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1203WBS01	Vinyl chloride	20	19.5	ug/L	98			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.9	ug/L	95			70 (74)	130 (110)	
	1,1-Dichloroethane	20	21.6	ug/L	108			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	20.7	ug/L	104			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.3	ug/L	112			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.1	ug/L	106			70 (83)	130 (112)	
	Tetrachloroethene	20	16.5	ug/L	83			70 (67)	130 (123)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** SW8260D

Client: JACOBS Engineering Group, Inc. **Datafile :** VN088432.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1203WBSD01	Vinyl chloride	20	20.5	ug/L	103	5		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	21.2	ug/L	106	11		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	21.6	ug/L	108	0		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/L	104	0		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	21.9	ug/L	110	6		70 (80)	130 (108)	20 (20)
	Benzene	20	20.2	ug/L	101	1		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	22.4	ug/L	112	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	1		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	21.4	ug/L	107	1		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	16.7	ug/L	84	1		70 (67)	130 (123)	20 (15)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** SW8260-Low

Client: JACOBS Engineering Group, Inc. **Datafile :** VN088443.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1204WBS01	Vinyl chloride	20	20.3	ug/L	102			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.6	ug/L	98			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.8	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	18.3	ug/L	92			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			70 (83)	130 (112)	
	Tetrachloroethene	20	18.1	ug/L	91			70 (67)	130 (123)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1203WBL01

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3756

Lab File ID: VN088418.D | Lab Sample ID: VN1203WBL01

Date Analyzed: 12/03/2025 | Time Analyzed: 11:03

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025
EB01-120225	Q3756-09	VN088422.D	12/03/2025
TB01-120225	Q3756-10	VN088423.D	12/03/2025
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1204WBL01

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3756

Lab File ID: VN088439.D | Lab Sample ID: VN1204WBL01

Date Analyzed: 12/04/2025 | Time Analyzed: 12:38

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025

COMMENTS:

Raw Data: **VN088343.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3756

Lab File ID: VN088343.D | BFB Injection Date: 11/24/2025

Instrument ID: MSVOA_N | BFB Injection Time: 08:17

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6 (8.4) 1
176	95.0 - 101.0% of mass 174	68.3 (96.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 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
VSTDICC001	VSTDICC001	VN088344.D	11/24/2025	12:38
VSTDICC005	VSTDICC005	VN088345.D	11/24/2025	13:11
VSTDICC020	VSTDICC020	VN088346.D	11/24/2025	13:32
VSTDICCC050	VSTDICCC050	VN088347.D	11/24/2025	13:53
VSTDICC100	VSTDICC100	VN088348.D	11/24/2025	14:14
VSTDICC150	VSTDICC150	VN088349.D	11/24/2025	14:35

Raw Data: **VN088415.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: JACO05
Lab Code: ACE
SDG NO.: Q3756
Lab File ID: VN088415.D
BFB Injection Date: 12/03/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:36
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	58.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	65.8
175	5.0 - 9.0% of mass 174	4.5 (6.9) 1
176	95.0 - 101.0% of mass 174	63.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (5.9) 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	VN088416.D	12/03/2025	10:09
VN1203WBL01	VN1203WBL01	VN088418.D	12/03/2025	11:03
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025	11:38
EB01-120225	Q3756-09	VN088422.D	12/03/2025	12:52
TB01-120225	Q3756-10	VN088423.D	12/03/2025	13:12
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025	16:17
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025	16:58

Raw Data: **VN088436.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3756

Lab File ID: VN088436.D | BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_N | BFB Injection Time: 11:03

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	59.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5.8 (8.3) 1
176	95.0 - 101.0% of mass 174	67.6 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 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	VN088437.D	12/04/2025	11:44
VN1204WBL01	VN1204WBL01	VN088439.D	12/04/2025	12:38
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025	14:12
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025	15:06
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025	15:26
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025	15:47
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025	16:07

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3756

Lab File ID: VN088416.D Date Analyzed: 12/03/2025

Instrument ID: MSVOA_N Time Analyzed: 10:09

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	266209	8.21	462230	9.08	427792	11.84
UPPER LIMIT	532418	8.706	924460	9.583	855584	12.341
LOWER LIMIT	133105	7.706	231115	8.583	213896	11.341
EPA SAMPLE NO.						
EB01-120225	173573	8.21	400248	9.08	396303	11.84
TB01-120225	192200	8.21	468050	9.08	464764	11.84
TB01-120225RE	223956	8.21	518301	9.08	518638	11.84
VN1203WBL01	179578	8.21	416539	9.08	402638	11.84
VN1203WBS01	204614	8.21	382235	9.08	345174	11.84
VN1203WBSD01	250101	8.21	473571	9.08	423667	11.84

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3756

Lab File ID: VN088416.D Date Analyzed: 12/03/2025

Instrument ID: MSVOA_N Time Analyzed: 10:09

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

	IS4 AREA #	RT #				
12 HOUR STD	213345	13.765				
UPPER LIMIT	426690	14.265				
LOWER LIMIT	106673	13.265				
EPA SAMPLE NO.						
EB01-120225	182664	13.77				
TB01-120225	219360	13.77				
TB01-120225RE	245675	13.77				
VN1203WBL01	186090	13.77				
VN1203WBS01	173546	13.77				
VN1203WBSD01	214103	13.77				

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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3756

Lab File ID: VN088437.D Date Analyzed: 12/04/2025

Instrument ID: MSVOA_N Time Analyzed: 11:44

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	259230	8.21	454552	9.08	431157	11.84
UPPER LIMIT	518460	8.706	909104	9.577	862314	12.341
LOWER LIMIT	129615	7.706	227276	8.577	215579	11.341
EPA SAMPLE NO.						
OW-04B-26.5-120225	243663	8.21	555543	9.08	546868	11.84
BR-01-190-120225	246275	8.21	564051	9.08	564375	11.84
MW-04-12-120225	206051	8.21	468908	9.08	455230	11.84
MW-13B-47.5-120225	206071	8.21	471902	9.08	469221	11.84
VN1204WBL01	236600	8.21	556948	9.08	555675	11.84
VN1204WBS01	303745	8.21	559564	9.08	491842	11.84

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

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

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

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3756

Lab File ID: VN088437.D Date Analyzed: 12/04/2025

Instrument ID: MSVOA_N Time Analyzed: 11:44

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

	IS4 AREA #	RT #				
12 HOUR STD	210277	13.765				
UPPER LIMIT	420554	14.265				
LOWER LIMIT	105139	13.265				
EPA SAMPLE NO.						
OW-04B-26.5-120225	268660	13.76				
BR-01-190-120225	278056	13.77				
MW-04-12-120225	220606	13.77				
MW-13B-47.5-120225	222578	13.77				
VN1204WBL01	258091	13.77				
VN1204WBS01	237731	13.77				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VN088446.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	OW-04B-26.5-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/04/25 15:26	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:26	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:26	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:26	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:26	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:26	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:26	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.4			70 (74) - 130 (125)	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.7			70 (75) - 130 (124)	93%	SPK: 50		
2037-26-5	Toluene-d8	44.4			70 (86) - 130 (113)	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	244000							
540-36-3	1,4-Difluorobenzene	556000							
3114-55-4	Chlorobenzene-d5	547000							
3855-82-1	1,4-Dichlorobenzene-d4	269000							

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

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

Sample Results: **VN088446.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088446.D
Acq On : 04 Dec 2025 15:26
Operator : JC\MD
Sample : Q3756-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 05 00:17:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

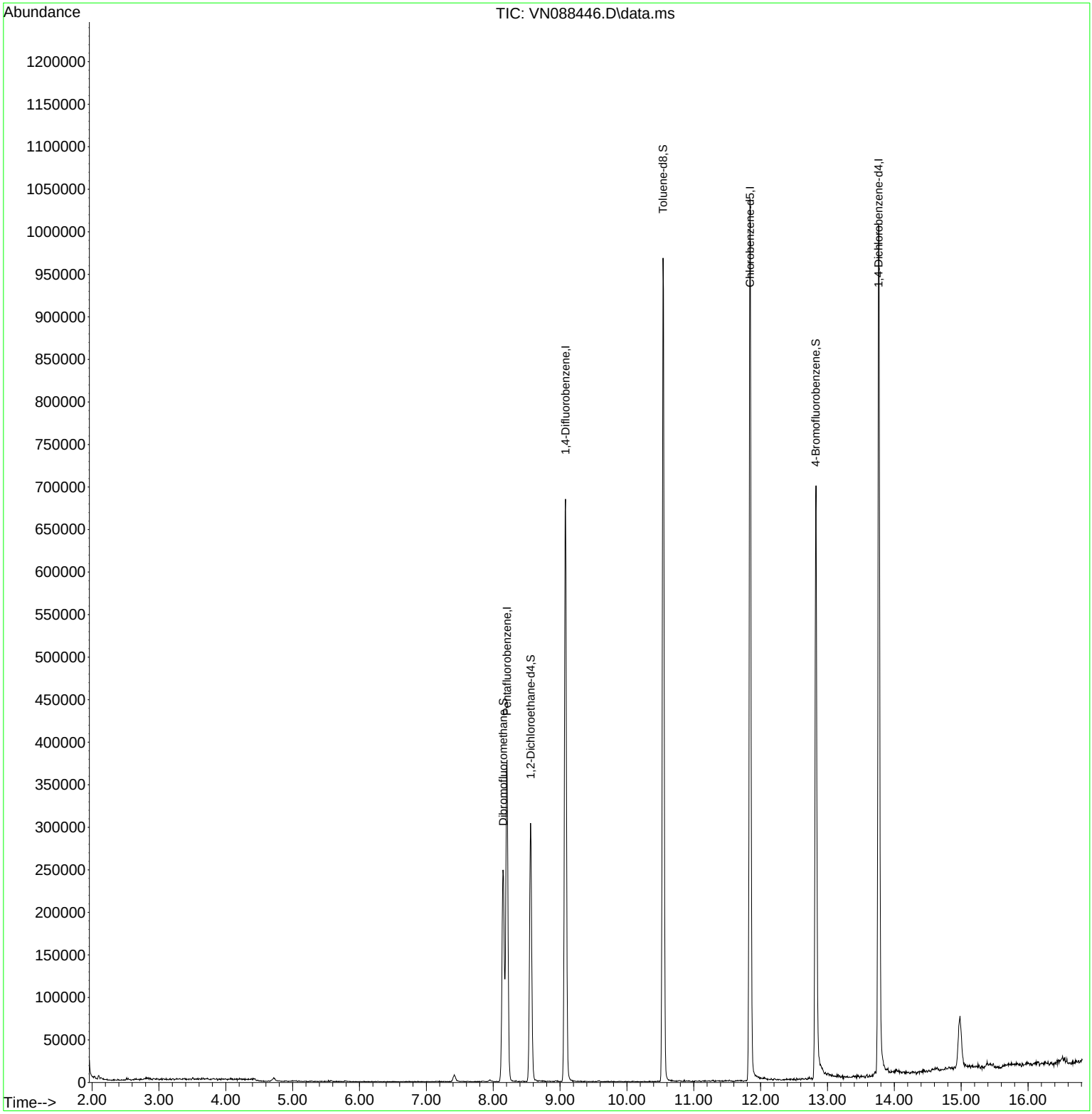
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	243663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	555543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	546868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.764	152	268660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258819	56.386	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.780%			
35) Dibromofluoromethane	8.147	113	179703	46.677	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.360%			
50) Toluene-d8	10.541	98	635634	44.374	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.740%			
62) 4-Bromofluorobenzene	12.823	95	267239	54.372	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.740%			
Target Compounds						Qvalue

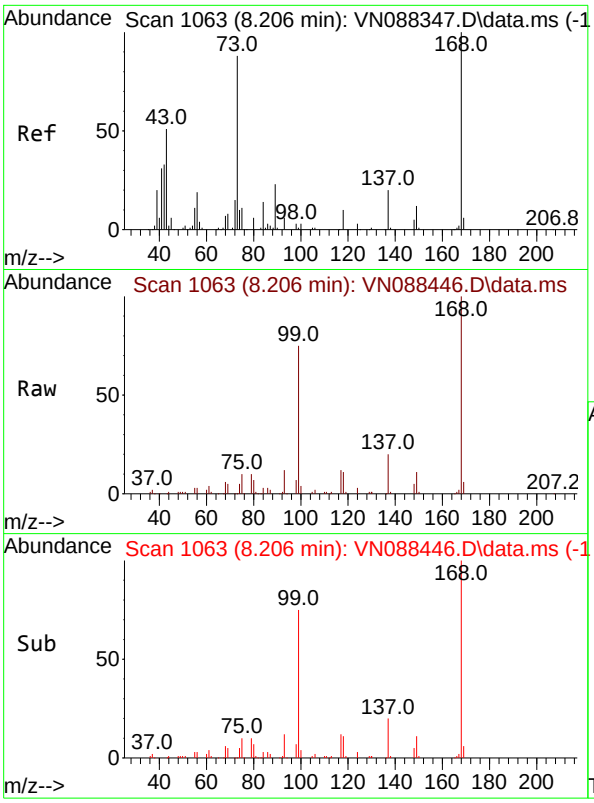
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088446.D
Acq On : 04 Dec 2025 15:26
Operator : JC\MD
Sample : Q3756-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 05 00:17:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



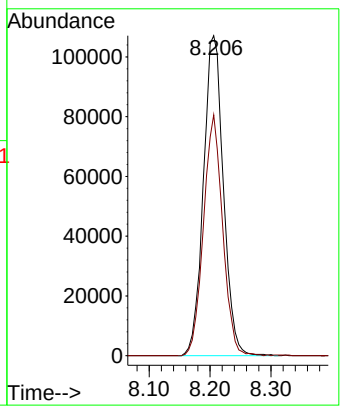


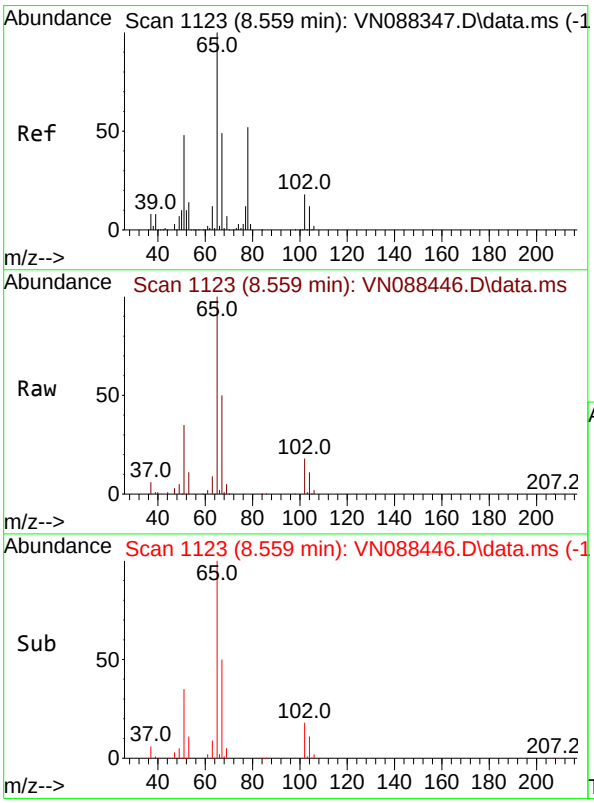
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:168 Resp: 243663

Ion	Ratio	Lower	Upper
168	100		
99	75.3	57.1	85.7

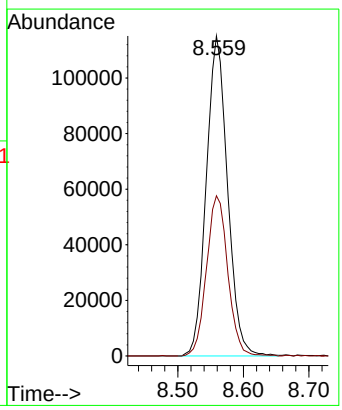


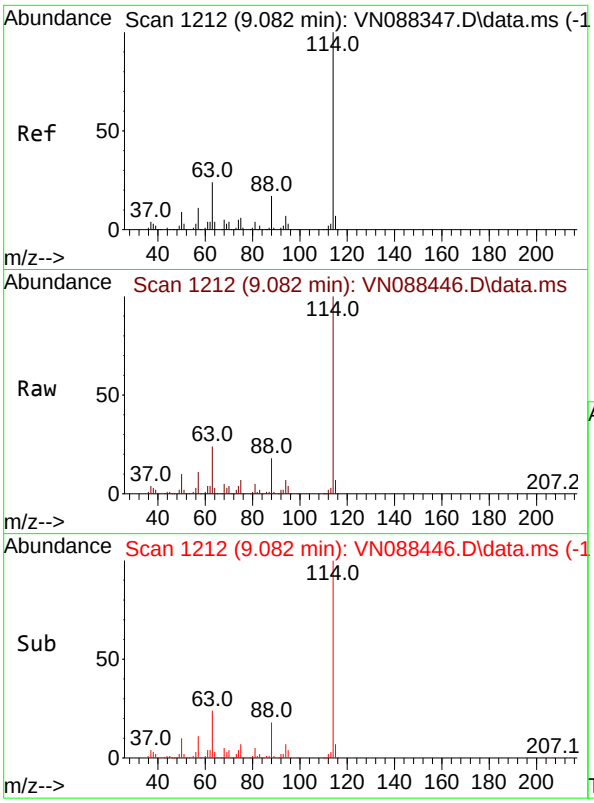


#33
1,2-Dichloroethane-d4
Concen: 56.386 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion: 65 Resp: 258819

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	100.8



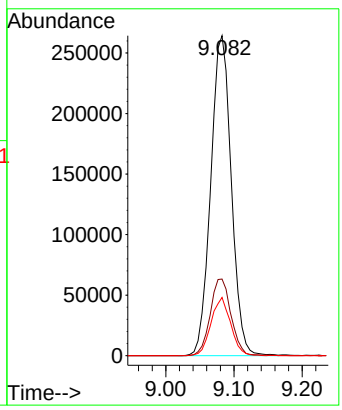


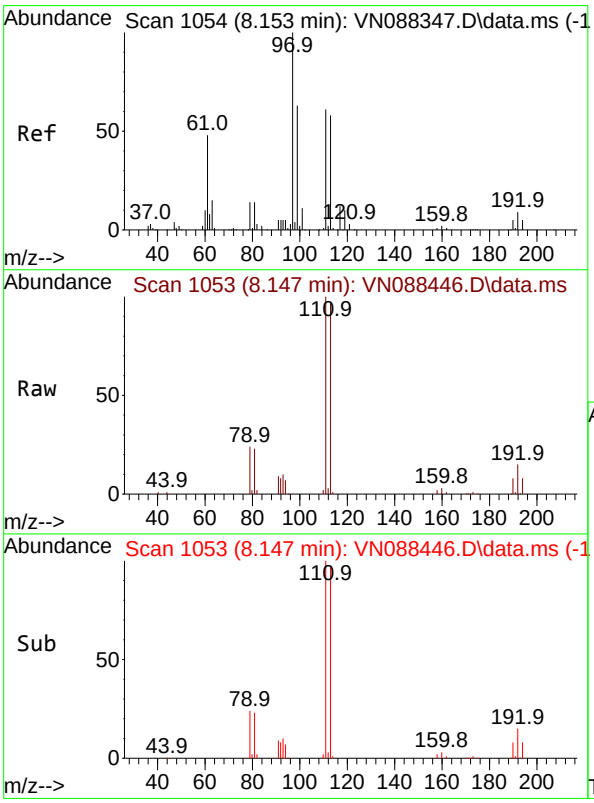
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:114 Resp: 555543

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	49.0
88	18.2	0.0	34.0

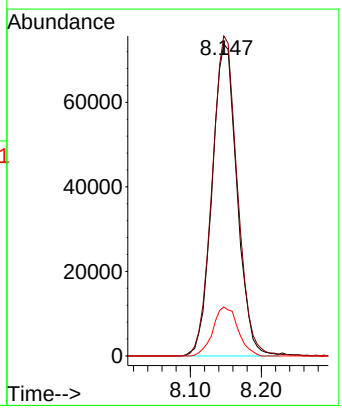


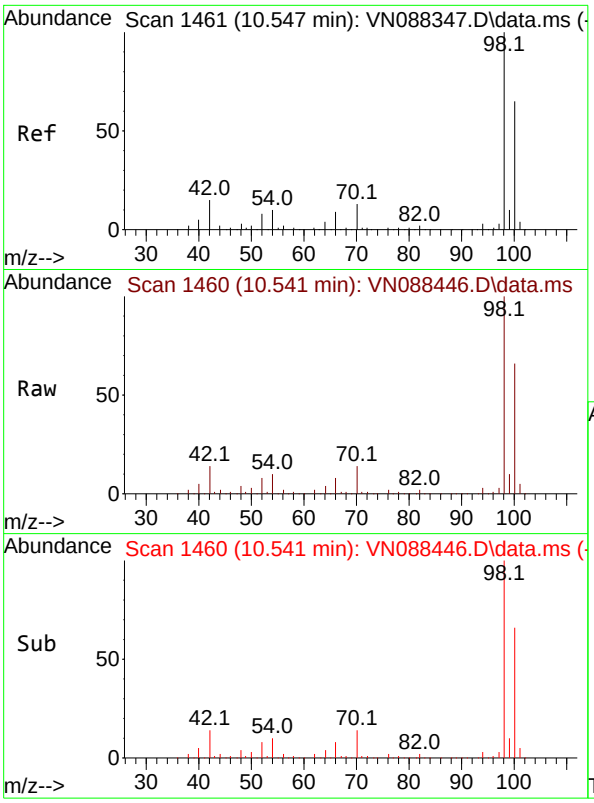


#35
Dibromofluoromethane
Concen: 46.677 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion:113 Resp: 179703

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.5	123.7
192	15.8	12.8	19.2



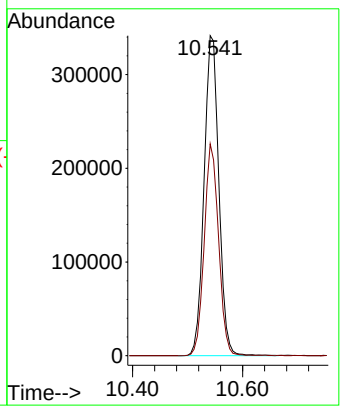


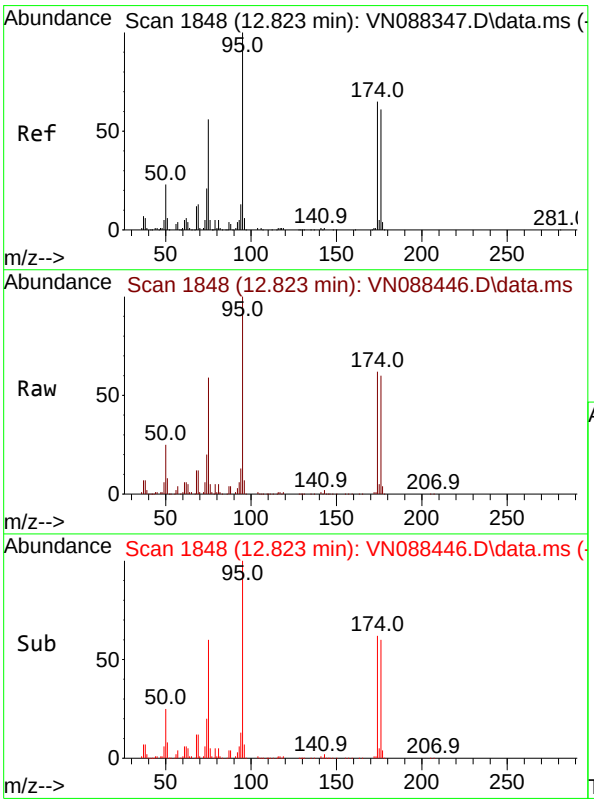
#50
Toluene-d8
Concen: 44.374 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion: 98 Resp: 635634

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2

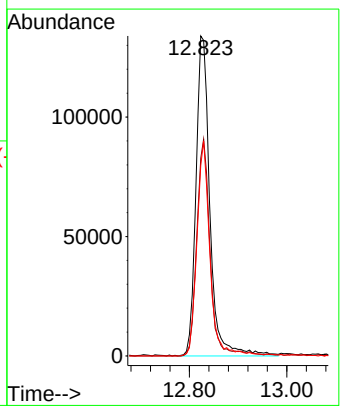


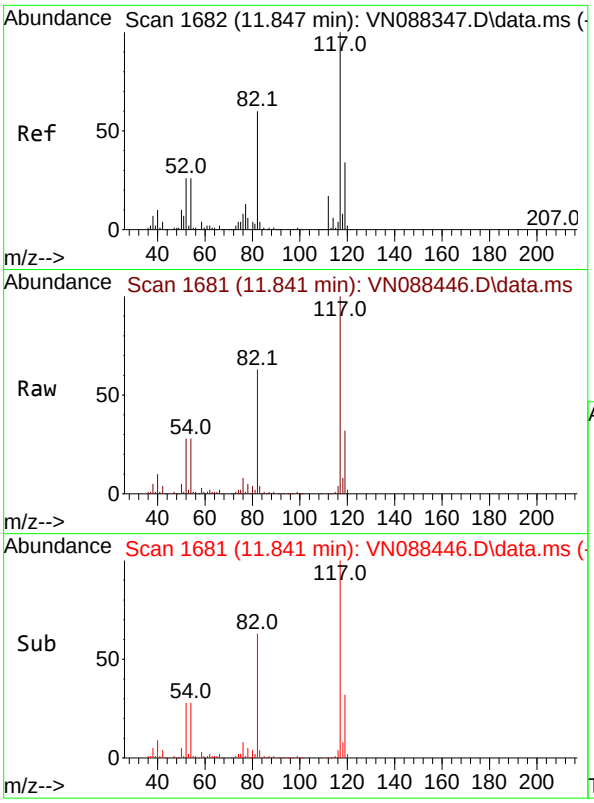


#62
4-Bromofluorobenzene
Concen: 54.372 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion: 95 Resp: 267239

Ion	Ratio	Lower	Upper
95	100		
174	64.8	0.0	139.0
176	62.7	0.0	132.4



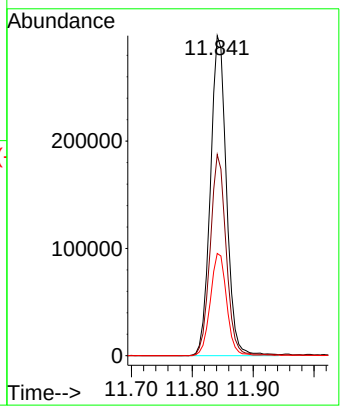


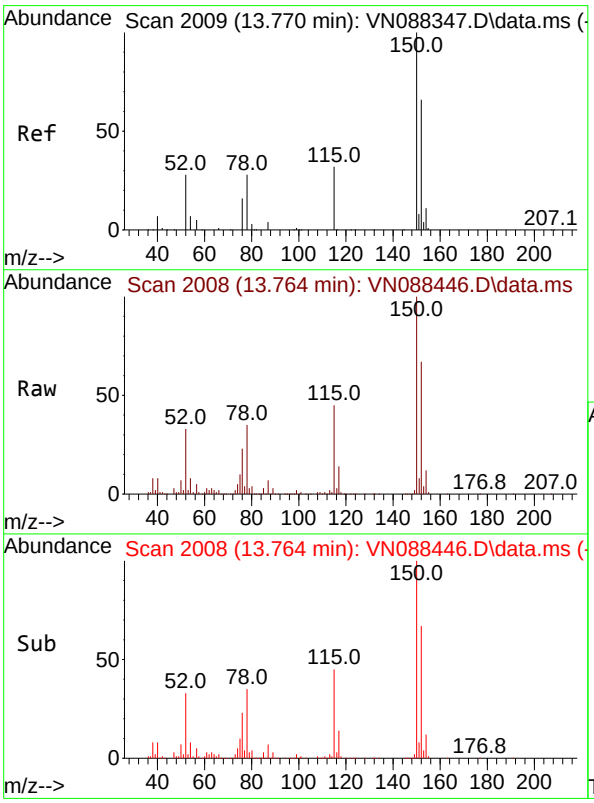
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:117 Resp: 546868

Ion	Ratio	Lower	Upper
117	100		
82	62.9	47.8	71.8
119	31.9	26.9	40.3

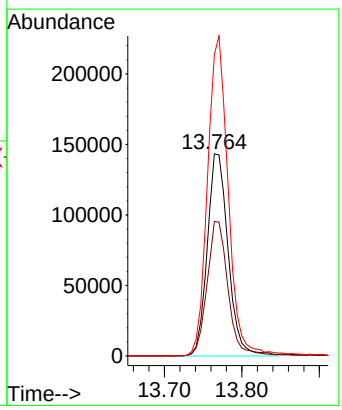




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.764 min Scan# 2008
Delta R.T. -0.006 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion:152 Resp: 268660

Ion	Ratio	Lower	Upper
152	100		
115	66.9	33.0	98.9
150	157.9	0.0	349.0



Raw Data: **VN088445.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	BR-01-190-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-03	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	25.4		1	0.26	1.00	ug/L	12/04/25 15:06	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:06	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:06	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:06	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:06	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:06	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:06	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.2			70 (74) - 130 (125)	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.0			70 (75) - 130 (124)	92%	SPK: 50		
2037-26-5	Toluene-d8	44.0			70 (86) - 130 (113)	88%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.7			70 (77) - 130 (121)	105%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	246000							
540-36-3	1,4-Difluorobenzene	564000							
3114-55-4	Chlorobenzene-d5	564000							
3855-82-1	1,4-Dichlorobenzene-d4	278000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088445.D
Acq On : 04 Dec 2025 15:06
Operator : JC\MD
Sample : Q3756-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	246275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	564051	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	564375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	278056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	260534	56.158	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.320%			
35) Dibromofluoromethane	8.147	113	179677	45.967	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.940%			
50) Toluene-d8	10.541	98	640125	44.013	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.020%			
62) 4-Bromofluorobenzene	12.829	95	263053	52.713	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.420%			
Target Compounds						Qvalue
4) Vinyl Chloride	2.542	62	102480	25.356	ug/l	99

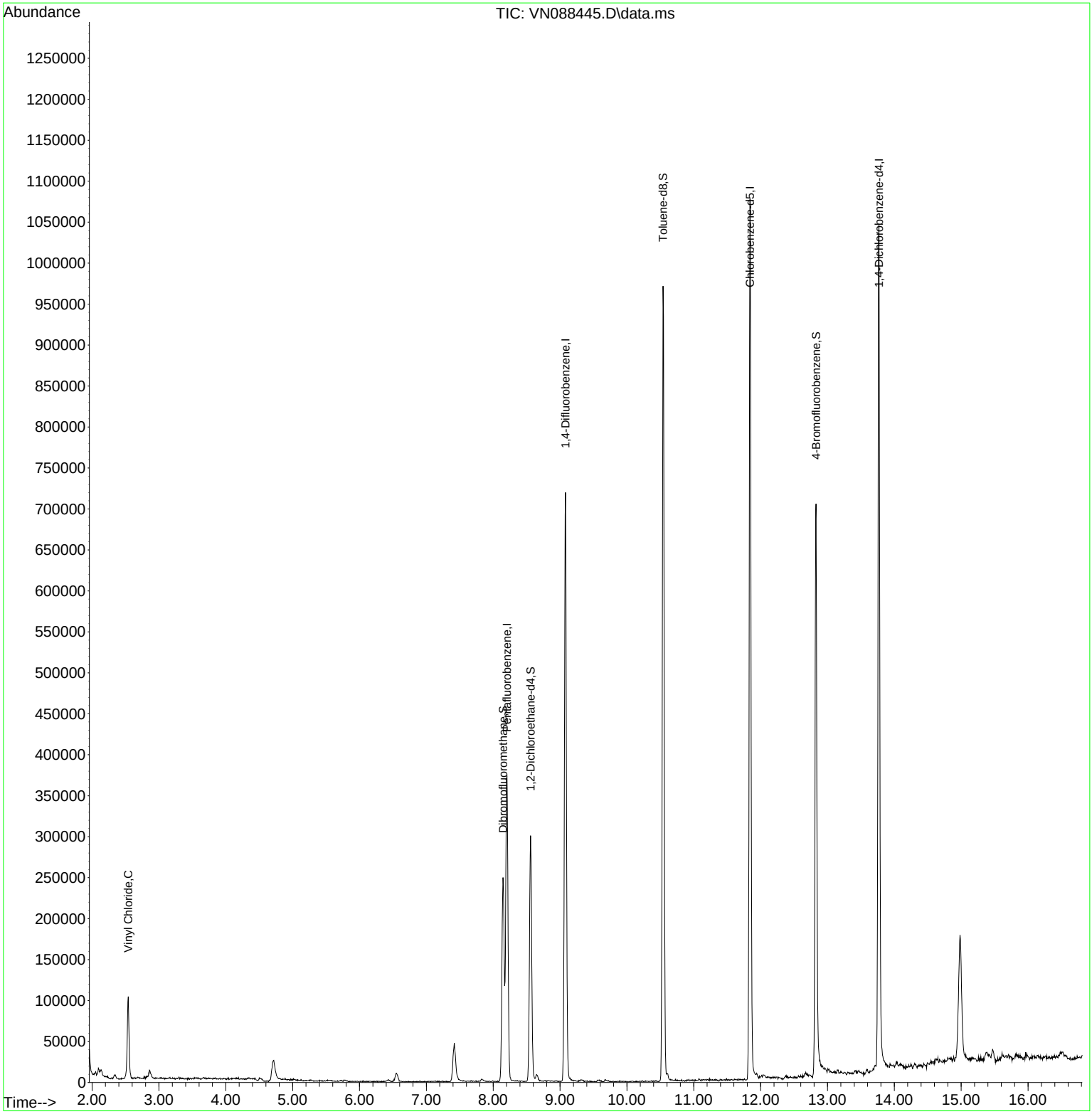
(#) = qualifier out of range (m) = manual integration (+) = signals summed

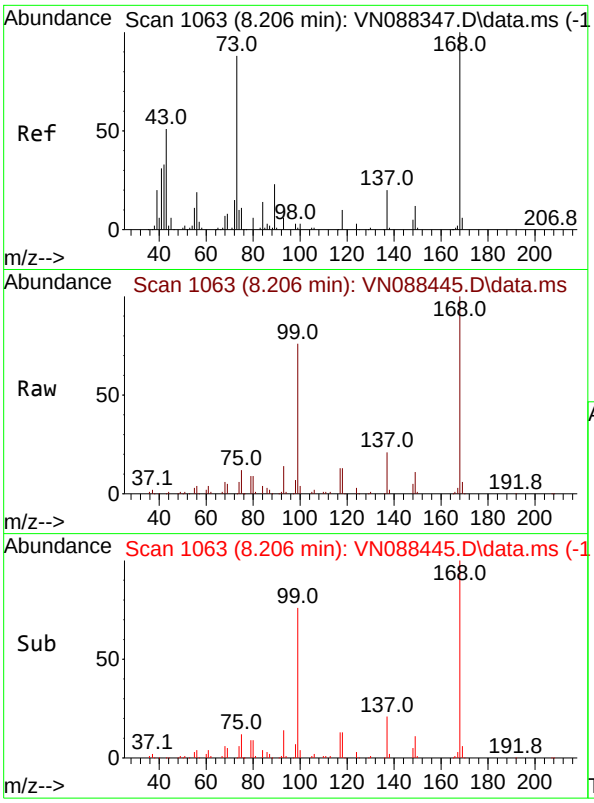
Sample Results: **VN088445.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088445.D
Acq On : 04 Dec 2025 15:06
Operator : JC\MD
Sample : Q3756-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



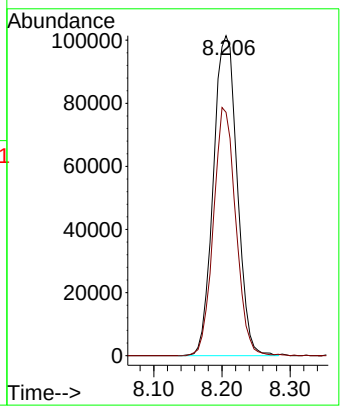


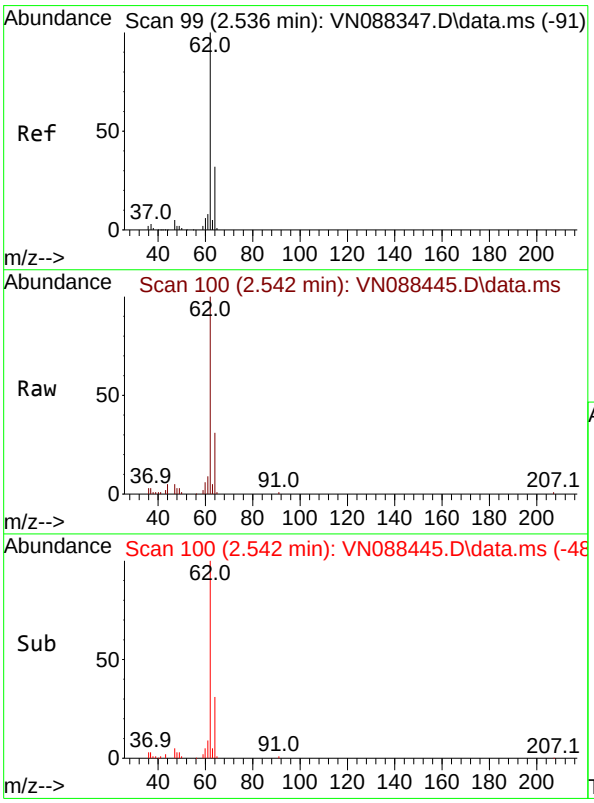
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:168 Resp: 246275

Ion	Ratio	Lower	Upper
168	100		
99	76.1	57.1	85.7

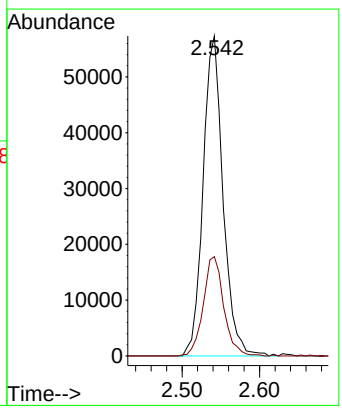


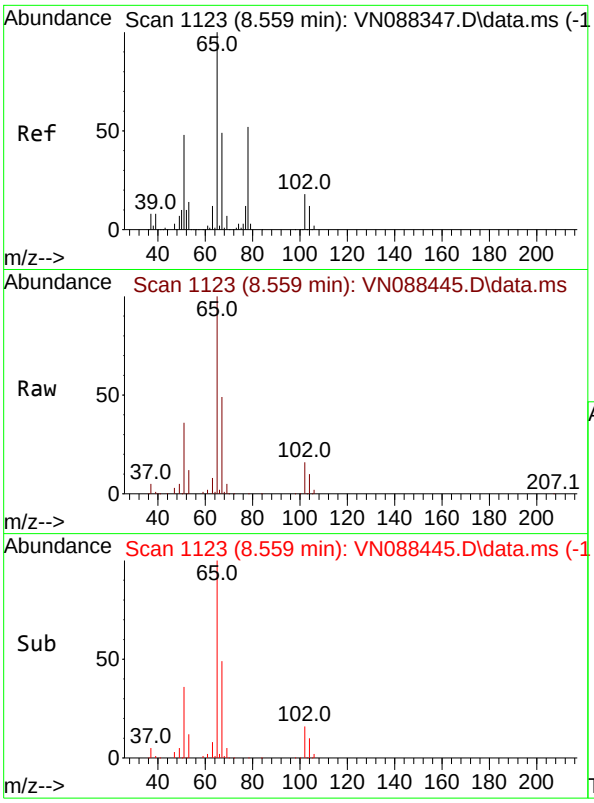


#4
Vinyl Chloride
Concen: 25.356 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 62 Resp: 102480

Ion	Ratio	Lower	Upper
62	100		
64	31.0	25.4	38.2



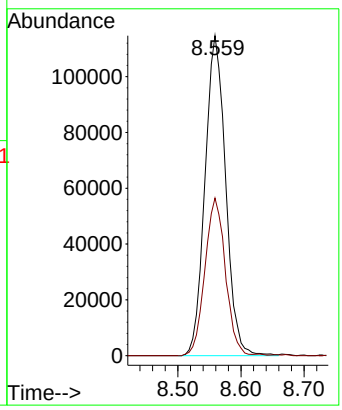


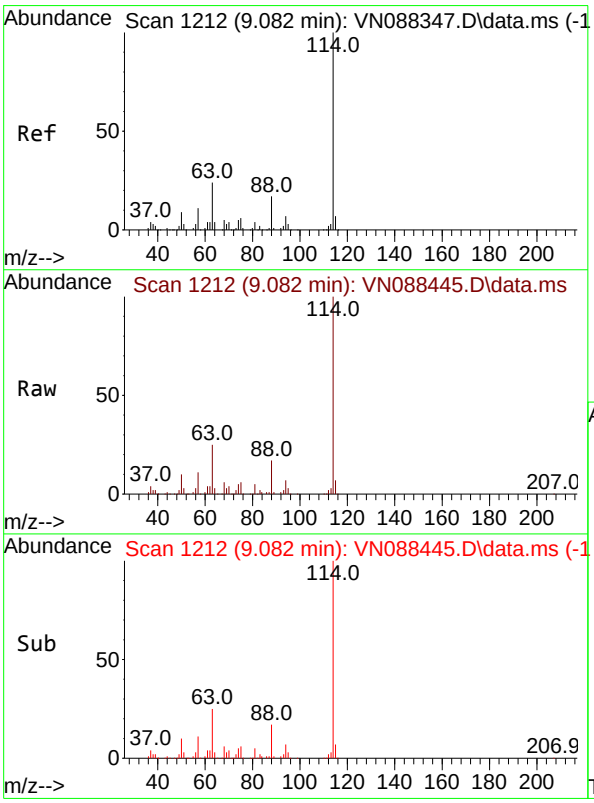
#33
1,2-Dichloroethane-d4
Concen: 56.158 ug/l
RT: 8.559 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion: 65 Resp: 260534

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	100.8

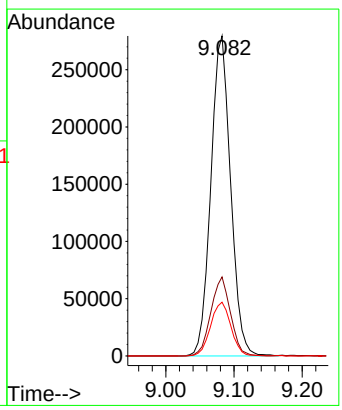


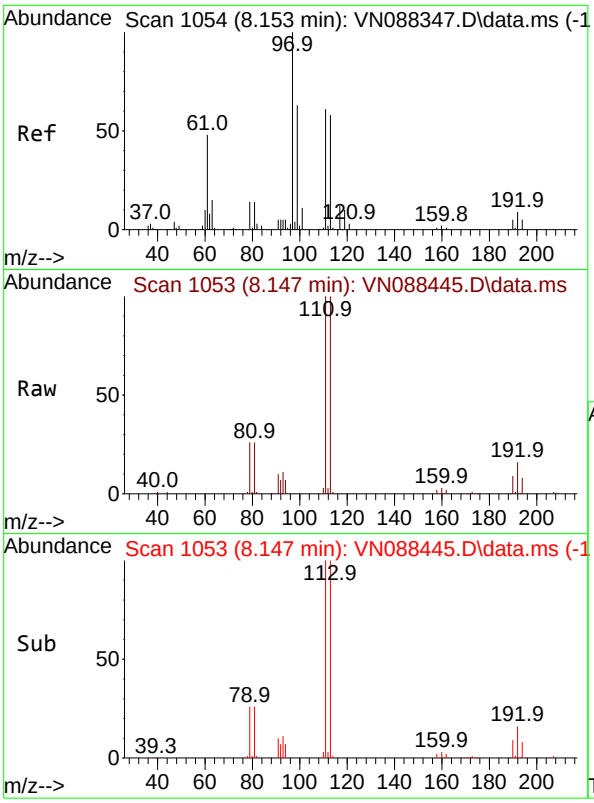


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion:114 Resp: 564051

Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	49.0
88	16.8	0.0	34.0



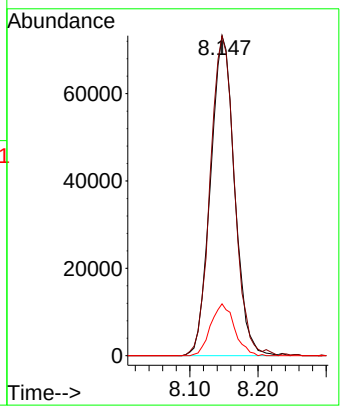


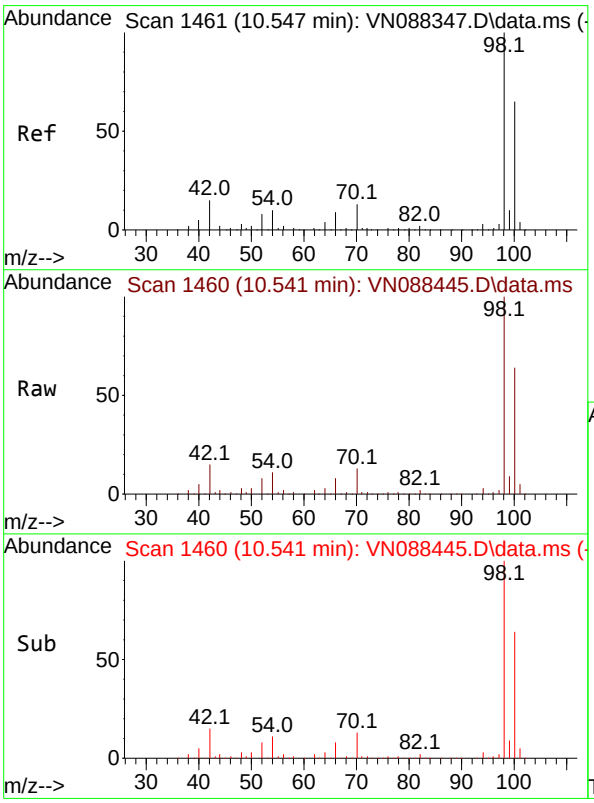
#35
Dibromofluoromethane
Concen: 45.967 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:113 Resp: 179677

Ion	Ratio	Lower	Upper
113	100		
111	100.9	82.5	123.7
192	16.1	12.8	19.2

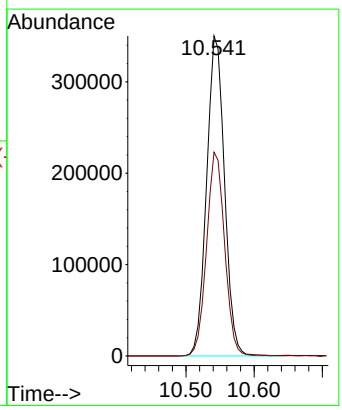


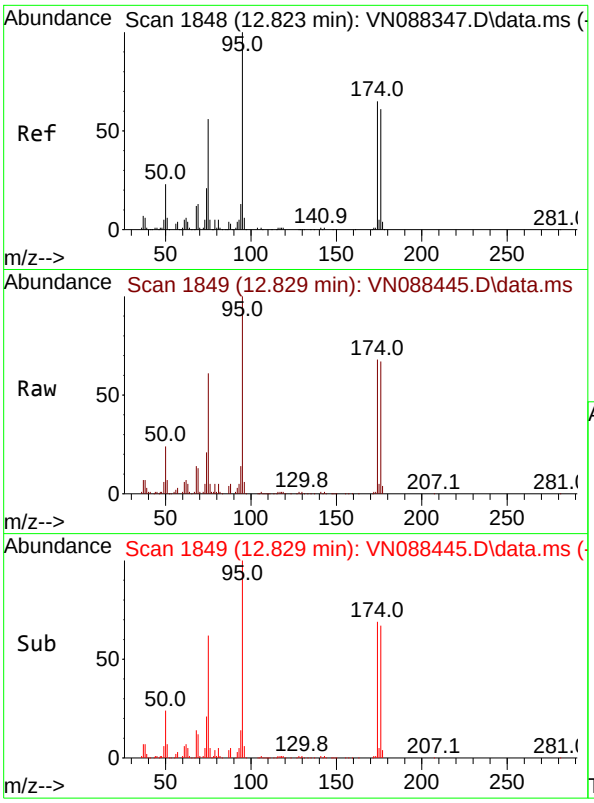


#50
Toluene-d8
Concen: 44.013 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 98 Resp: 640125

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.2



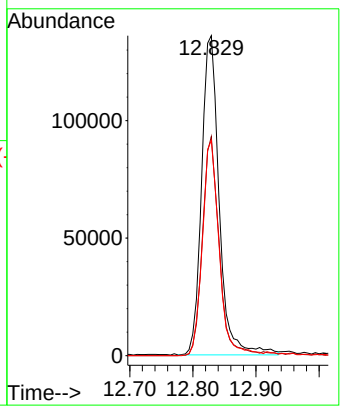


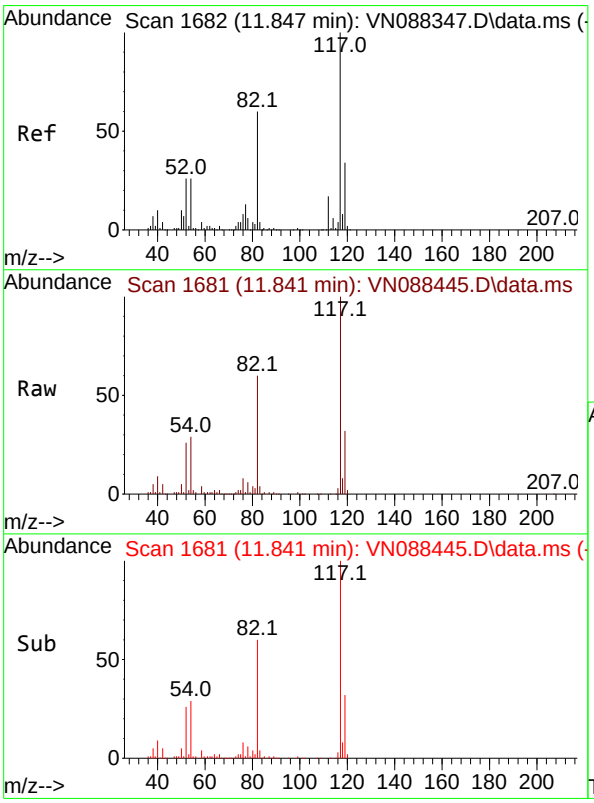
#62
4-Bromofluorobenzene
Concen: 52.713 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion: 95 Resp: 263053

Ion	Ratio	Lower	Upper
95	100		
174	64.8	0.0	139.0
176	64.3	0.0	132.4

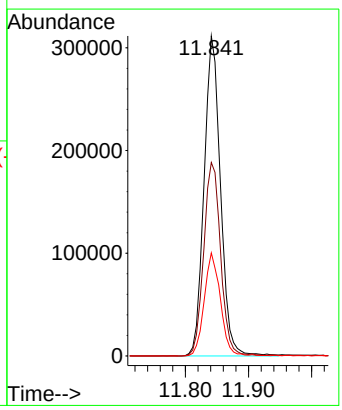


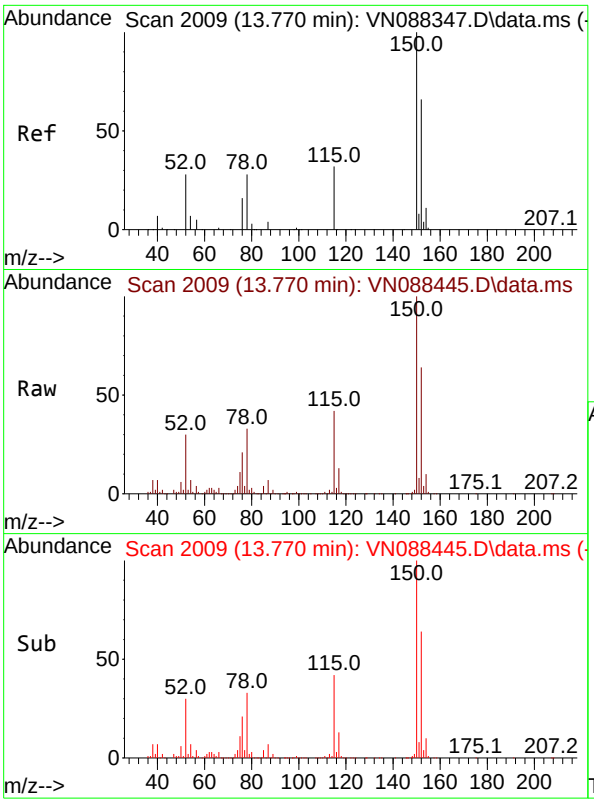


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion:117 Resp: 564375

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.8	71.8
119	32.2	26.9	40.3



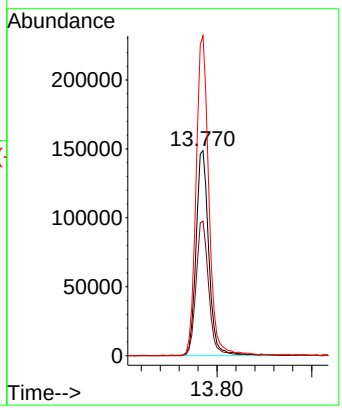


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:152 Resp: 278056

Ion	Ratio	Lower	Upper
152	100		
115	65.0	33.0	98.9
150	156.8	0.0	349.0



Raw Data: **VN088447.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	MW-04-12-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-05	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/04/25 15:47	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:47	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:47	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:47	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:47	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:47	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:47	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.2			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.7			70 (86) - 130 (113)	91%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.8			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	469000							
3114-55-4	Chlorobenzene-d5	455000							
3855-82-1	1,4-Dichlorobenzene-d4	221000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088447.D
Acq On : 04 Dec 2025 15:47
Operator : JC\MD
Sample : Q3756-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	206051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	455230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	220606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	214160	55.173	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.340%			
35) Dibromofluoromethane	8.147	113	153204	47.147	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.300%			
50) Toluene-d8	10.547	98	553012	45.739	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.480%			
62) 4-Bromofluorobenzene	12.829	95	210748	50.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.600%			
Target Compounds						Qvalue
30) Chloroform	7.953	83	6731	1.216	ug/l	93

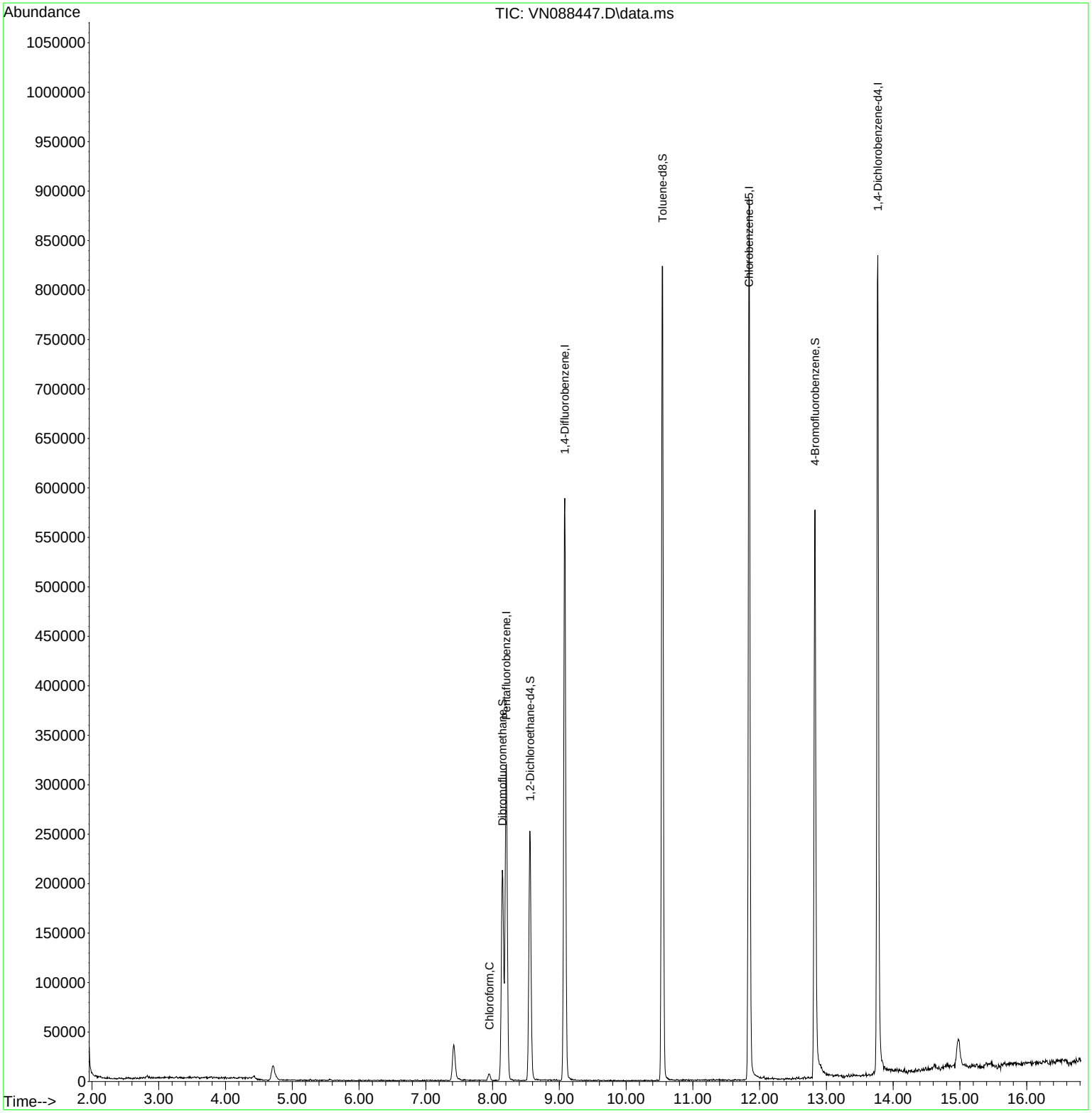
(#) = qualifier out of range (m) = manual integration (+) = signals summed

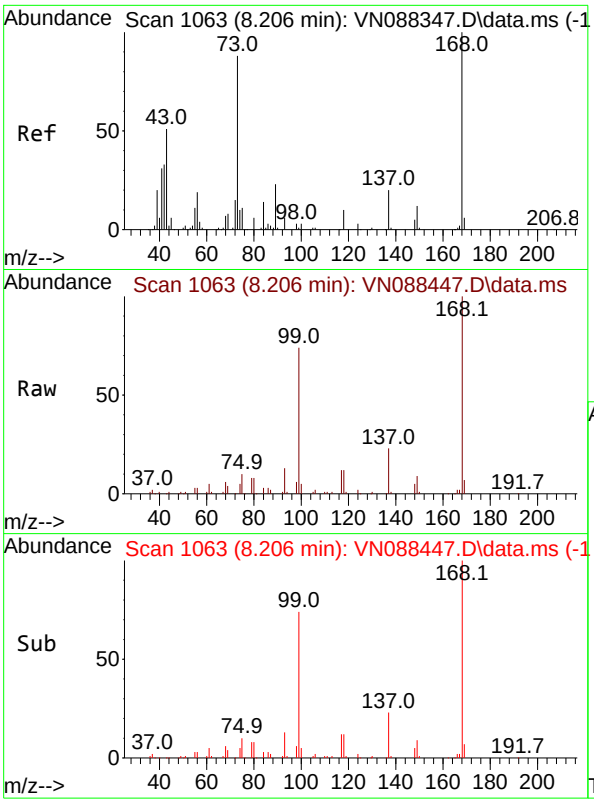
Sample Results: **VN088447.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088447.D
Acq On : 04 Dec 2025 15:47
Operator : JC\MD
Sample : Q3756-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



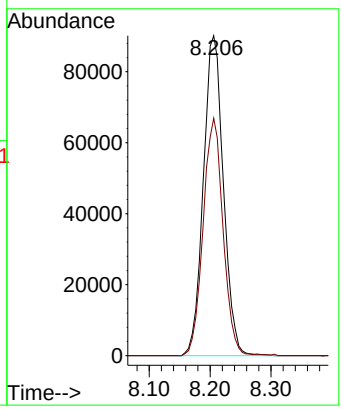


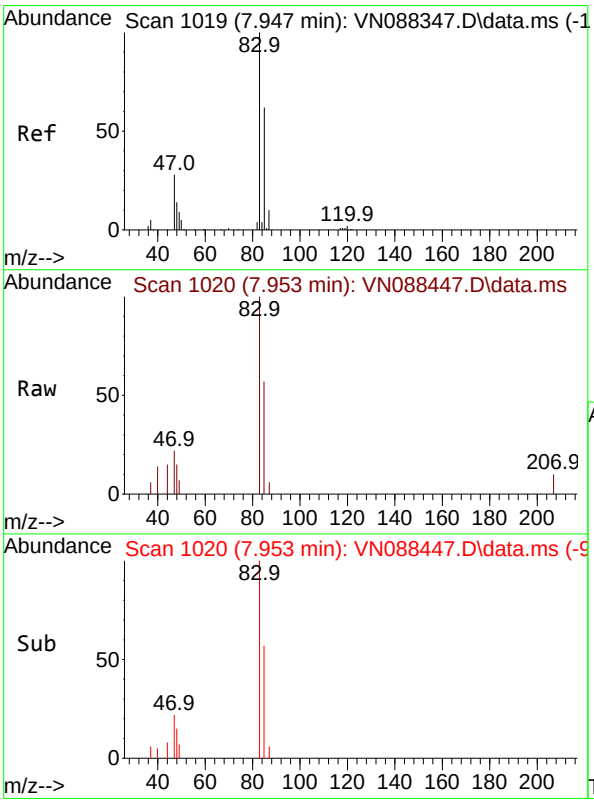
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:168 Resp: 206051

Ion	Ratio	Lower	Upper
168	100		
99	74.2	57.1	85.7

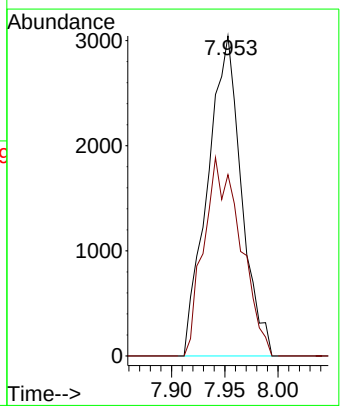


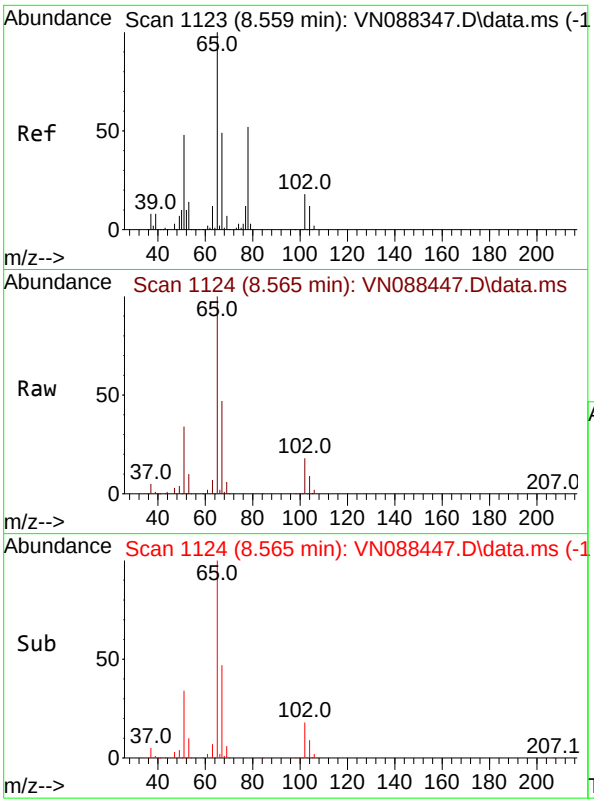


#30
Chloroform
Concen: 1.216 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion: 83 Resp: 6731

Ion	Ratio	Lower	Upper
83	100		
85	56.6	49.8	74.8



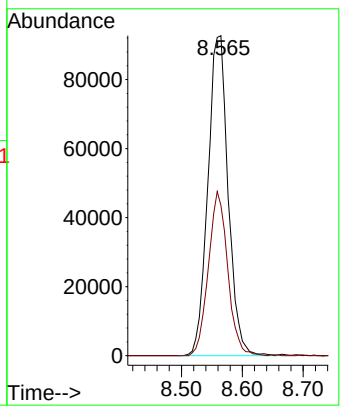


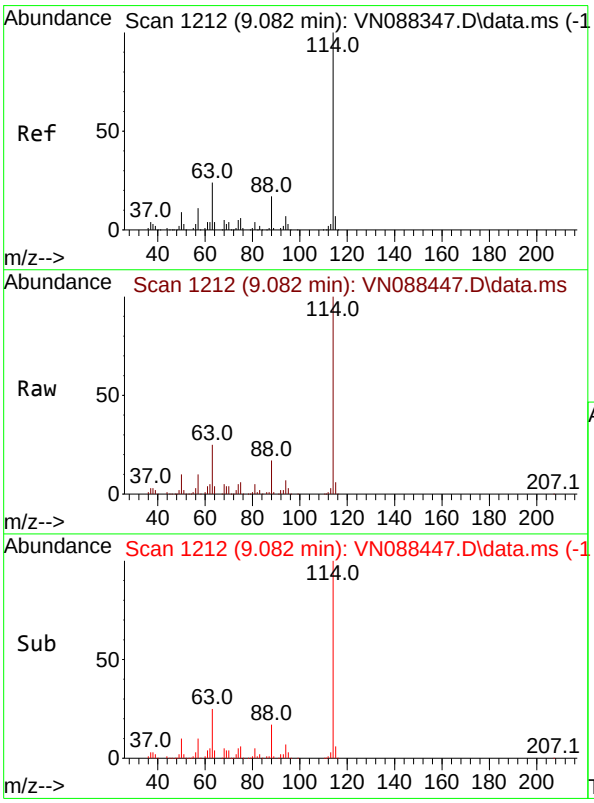
#33
1,2-Dichloroethane-d4
Concen: 55.173 ug/l
RT: 8.565 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion: 65 Resp: 214160

Ion	Ratio	Lower	Upper
65	100		
67	48.9	0.0	100.8

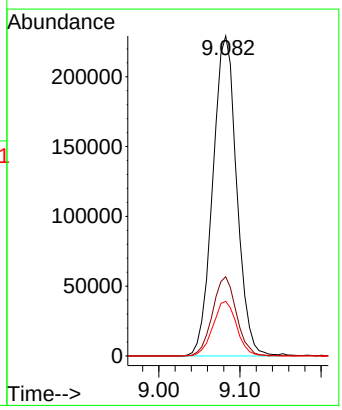


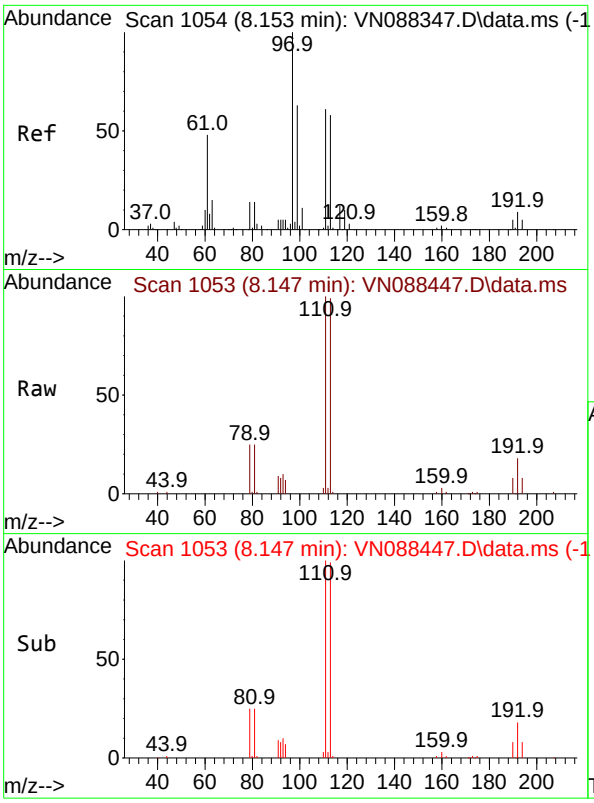


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion:114 Resp: 468908

Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	49.0
88	17.1	0.0	34.0



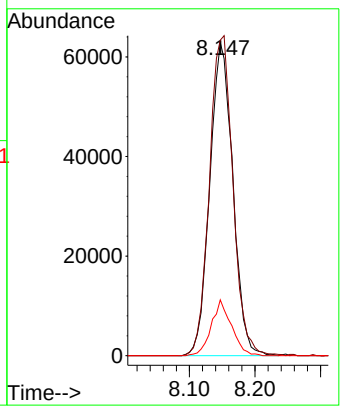


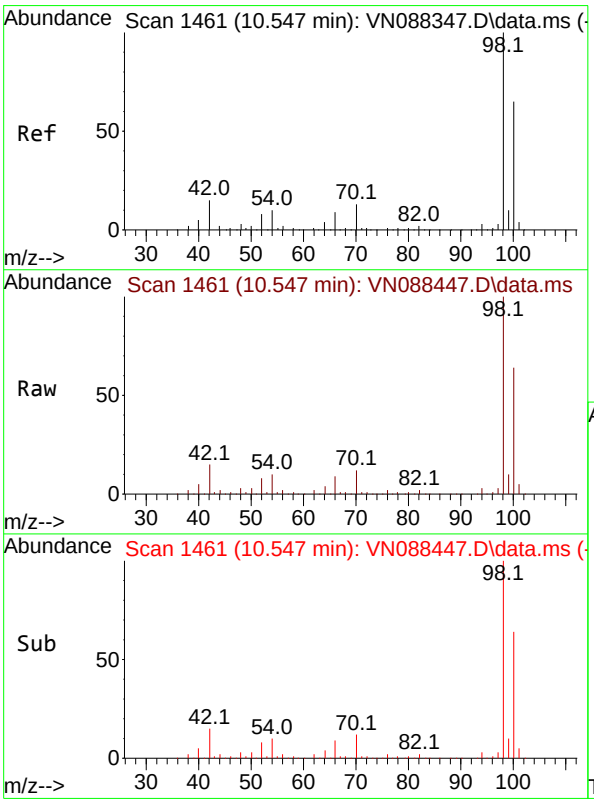
#35
Dibromofluoromethane
Concen: 47.147 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:113 Resp: 153204

Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.5	123.7
192	15.7	12.8	19.2

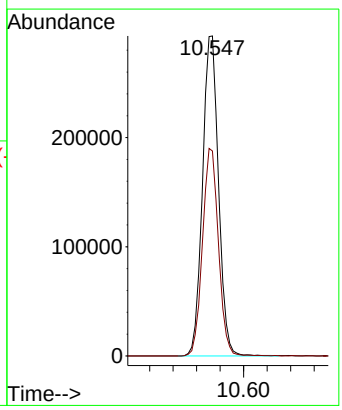


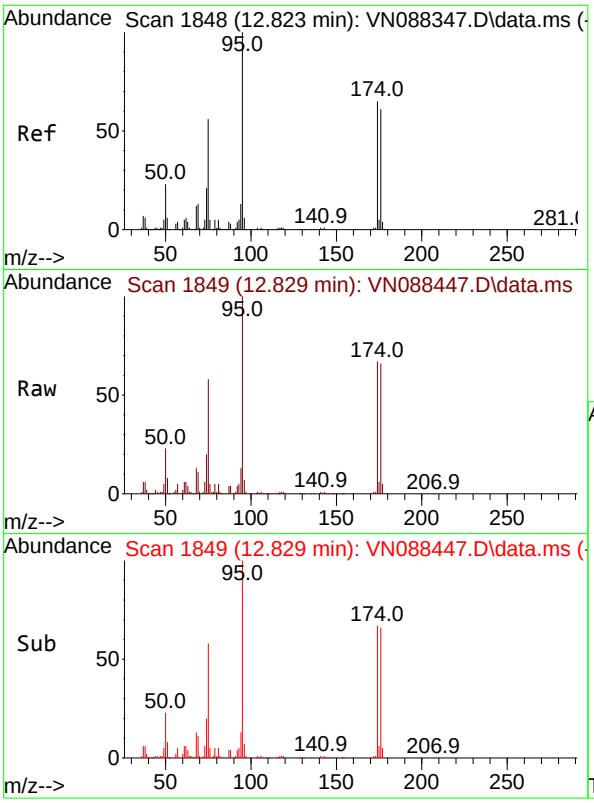


#50
Toluene-d8
Concen: 45.739 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion: 98 Resp: 553012

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.2



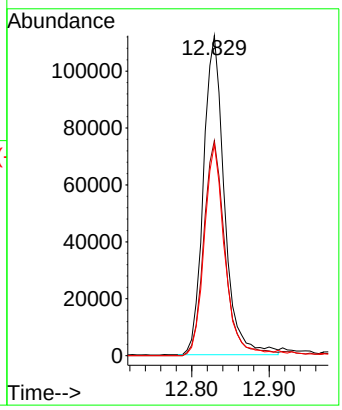


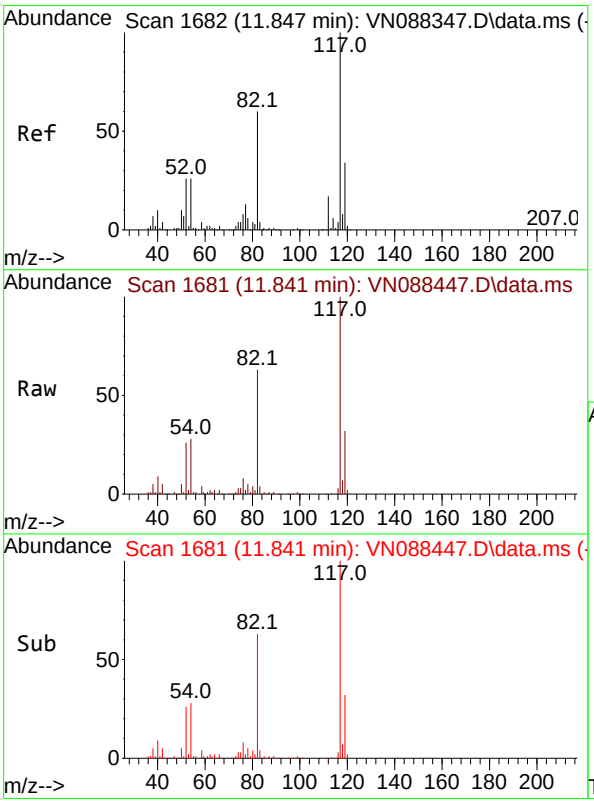
#62
4-Bromofluorobenzene
Concen: 50.800 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion: 95 Resp: 210748

Ion	Ratio	Lower	Upper
95	100		
174	68.2	0.0	139.0
176	64.7	0.0	132.4

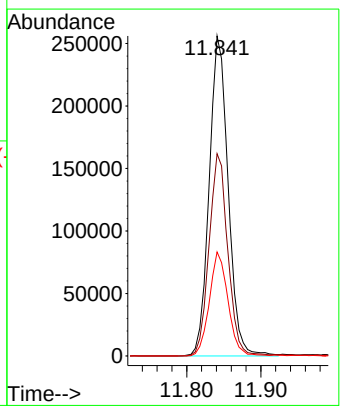


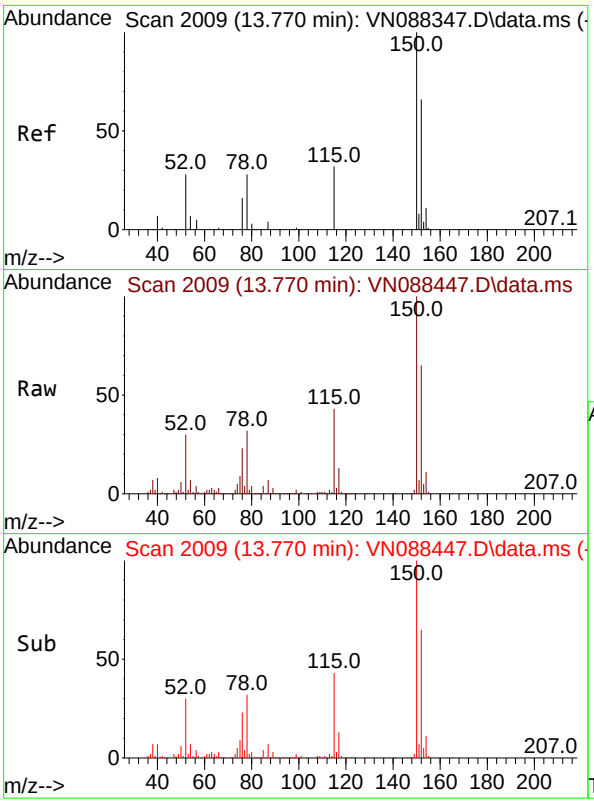


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion:117 Resp: 455230

Ion	Ratio	Lower	Upper
117	100		
82	63.2	47.8	71.8
119	32.5	26.9	40.3



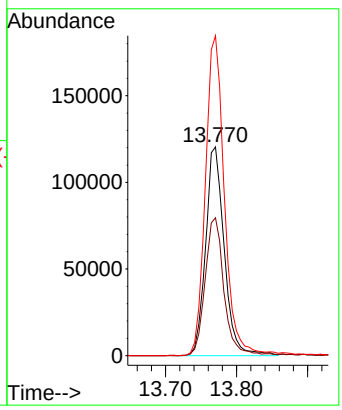


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:152 Resp: 220606

Ion	Ratio	Lower	Upper
152	100		
115	66.9	33.0	98.9
150	157.2	0.0	349.0



Raw Data: **VN088448.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	MW-13B-47.5-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-07	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/04/25 16:07	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 16:07	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 16:07	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 16:07	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 16:07	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 16:07	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 16:07	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.7			70 (74) - 130 (125)	111%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.2			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.2			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.7			70 (77) - 130 (121)	101%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	472000							
3114-55-4	Chlorobenzene-d5	469000							
3855-82-1	1,4-Dichlorobenzene-d4	223000							

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

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

Sample Results: **VN088448.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	206071	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	471902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	469221	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	222578	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	216155	55.682	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.360%			
35) Dibromofluoromethane	8.147	113	154264	47.172	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.340%			
50) Toluene-d8	10.547	98	550181	45.216	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.440%			
62) 4-Bromofluorobenzene	12.829	95	211464	50.650	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.300%			

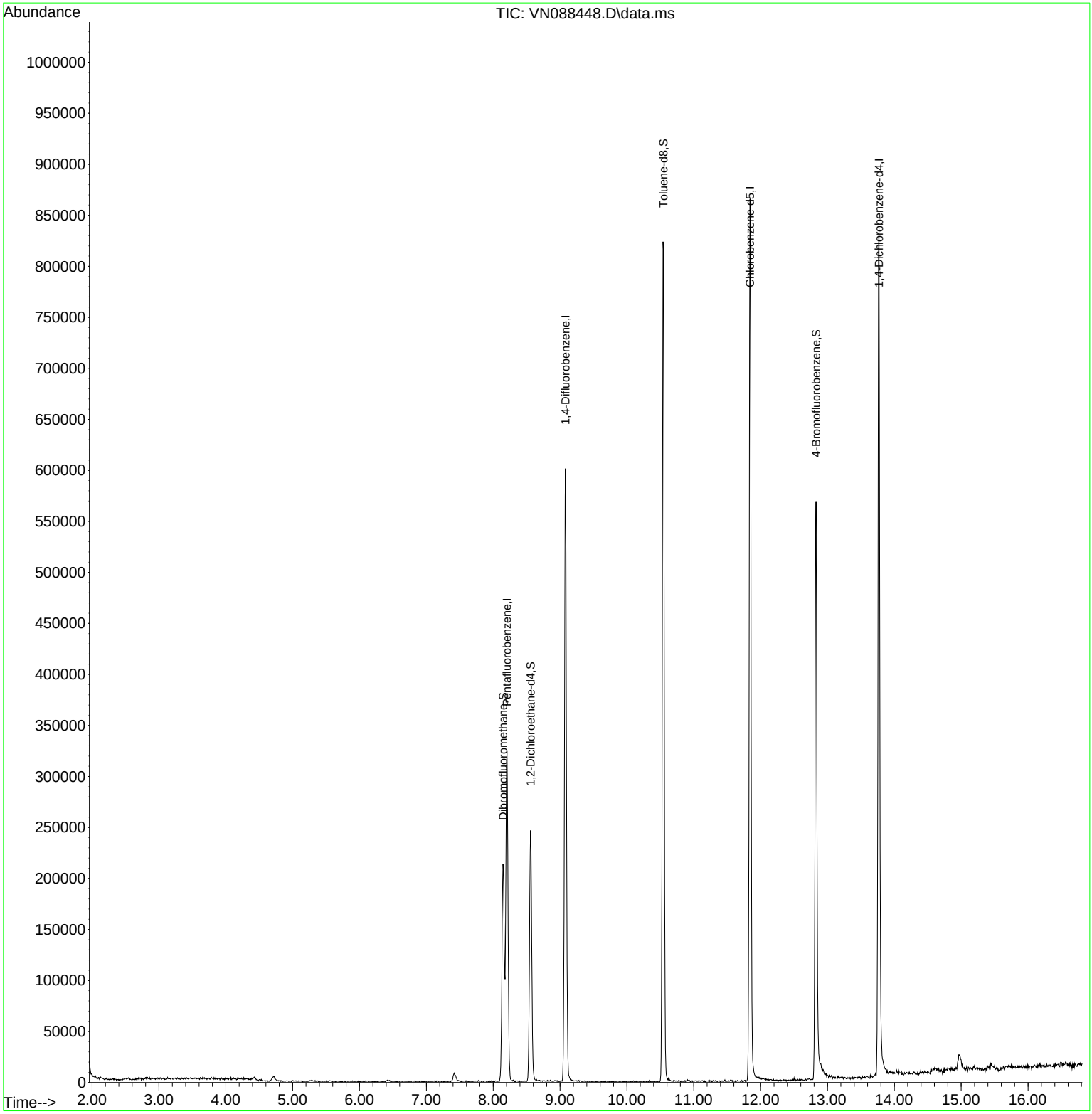
Target Compounds Qvalue

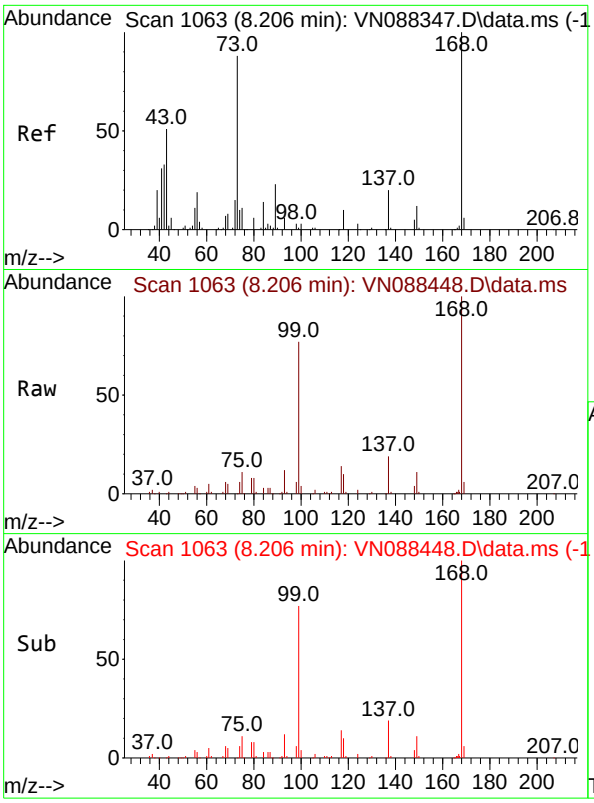
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



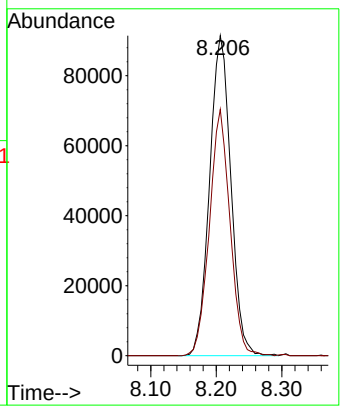


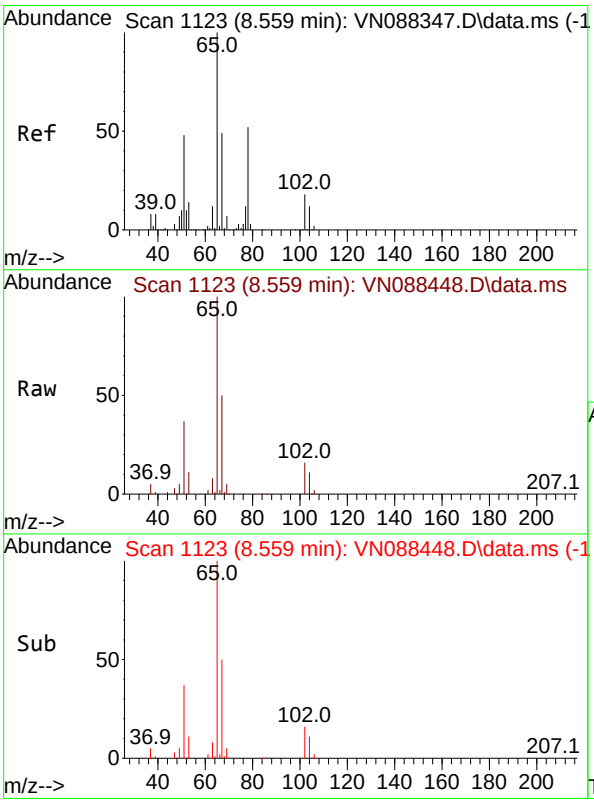
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion:168 Resp: 206071

Ion	Ratio	Lower	Upper
168	100		
99	76.9	57.1	85.7

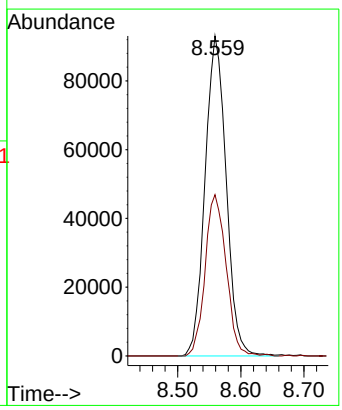


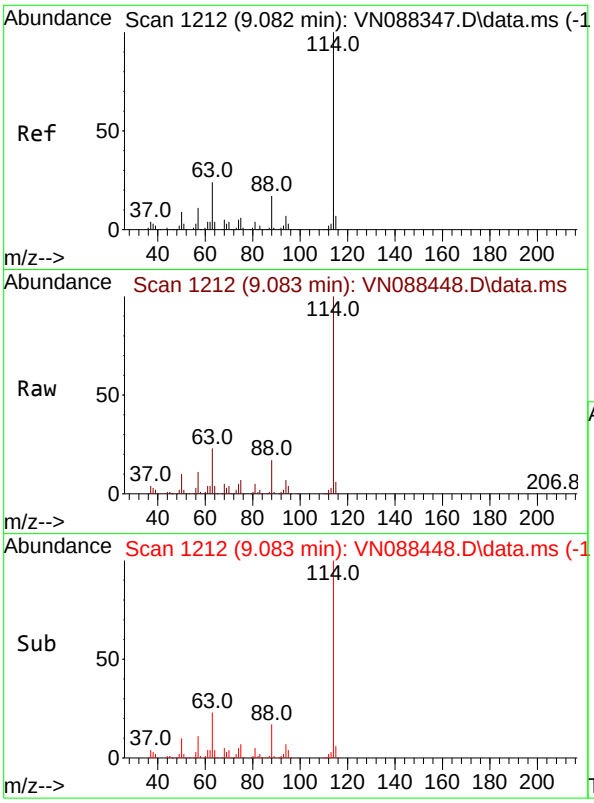


#33
1,2-Dichloroethane-d4
Concen: 55.682 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion: 65 Resp: 216155

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	100.8



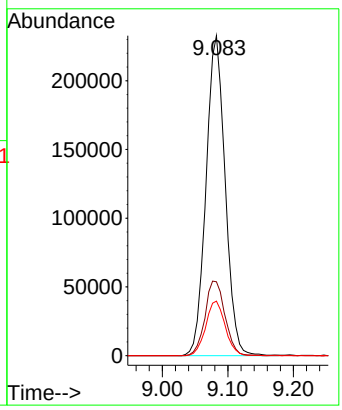


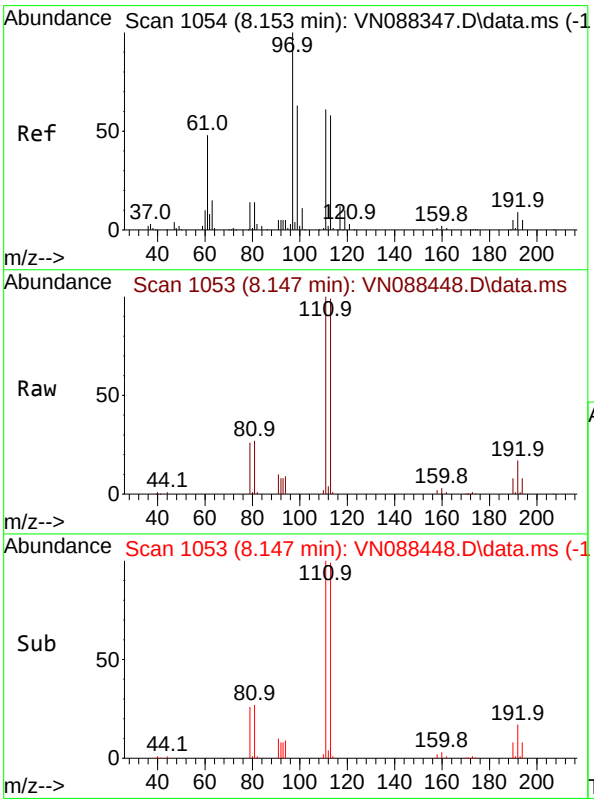
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion:114 Resp: 471902

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	49.0
88	17.1	0.0	34.0

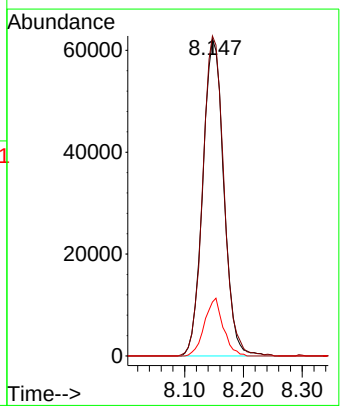


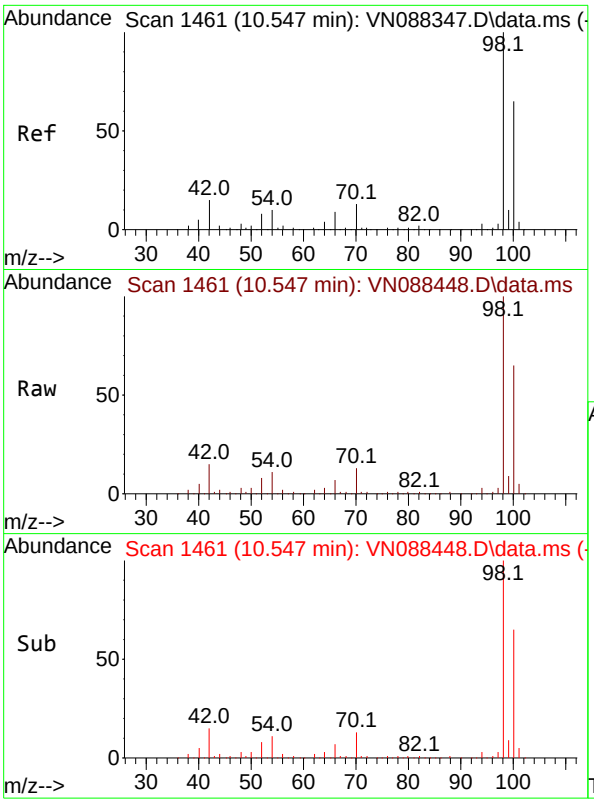


#35
Dibromofluoromethane
Concen: 47.172 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion:113 Resp: 154264

Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.5	123.7
192	16.3	12.8	19.2



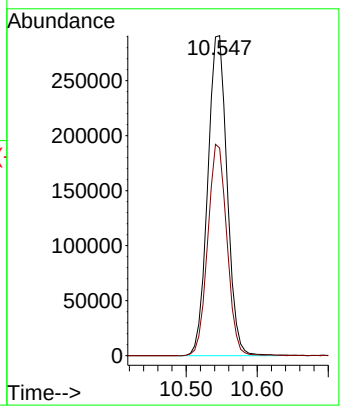


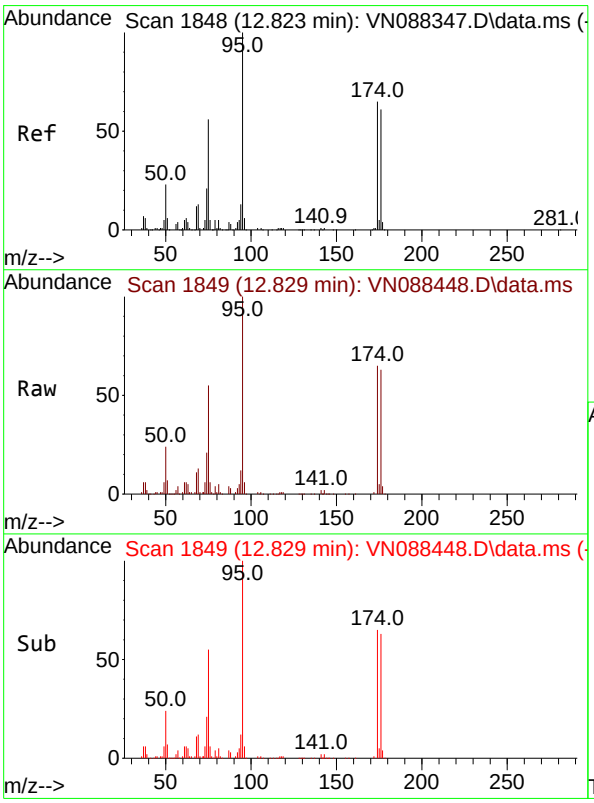
#50
Toluene-d8
Concen: 45.216 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion: 98 Resp: 550181

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2

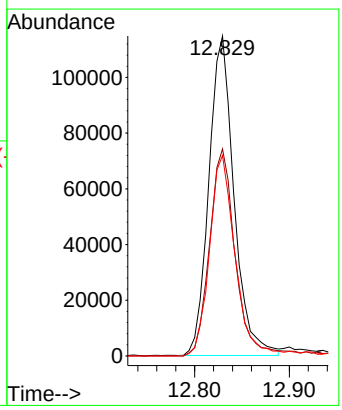


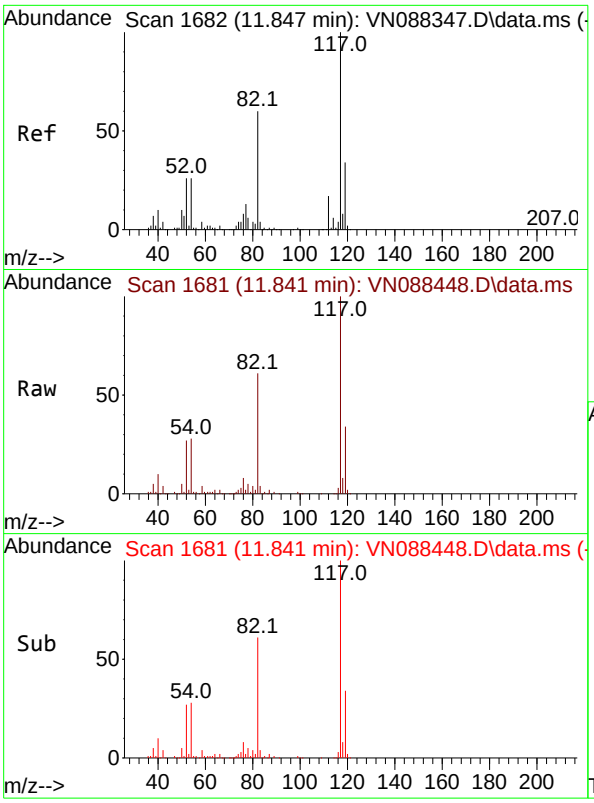


#62
4-Bromofluorobenzene
Concen: 50.650 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion: 95 Resp: 211464

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	139.0
176	64.1	0.0	132.4



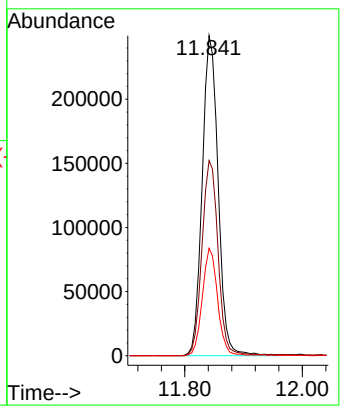


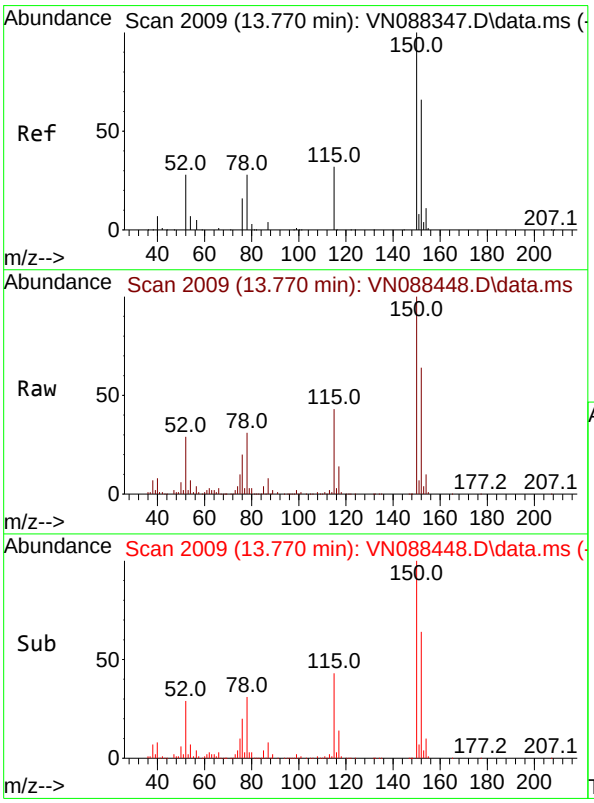
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion:117 Resp: 469221

Ion	Ratio	Lower	Upper
117	100		
82	60.9	47.8	71.8
119	33.5	26.9	40.3

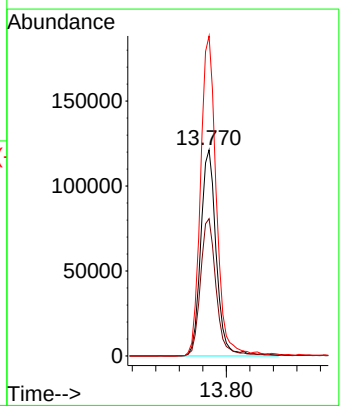




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion:152 Resp: 222578

Ion	Ratio	Lower	Upper
152	100		
115	67.9	33.0	98.9
150	157.1	0.0	349.0



Raw Data: **VN088422.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	EB01-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-09	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/03/25 12:52	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 12:52	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 12:52	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 12:52	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 12:52	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 12:52	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 12:52	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.9			70 (74) - 130 (125)	118%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.4			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	46.8			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.6			70 (77) - 130 (121)	97%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	174000							
540-36-3	1,4-Difluorobenzene	400000							
3114-55-4	Chlorobenzene-d5	396000							
3855-82-1	1,4-Dichlorobenzene-d4	183000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088422.D
Acq On : 03 Dec 2025 12:52
Operator : JC\MD
Sample : Q3756-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 04 00:17:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	173573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	400248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	396303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	192679	58.927	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.860%			
35) Dibromofluoromethane	8.147	113	139816	50.408	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.820%			
50) Toluene-d8	10.541	98	482687	46.771	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.540%			
62) 4-Bromofluorobenzene	12.829	95	172026	48.580	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.160%			
Target Compounds						Qvalue
16) Acetone	4.424	43	16363	13.837	ug/l	99

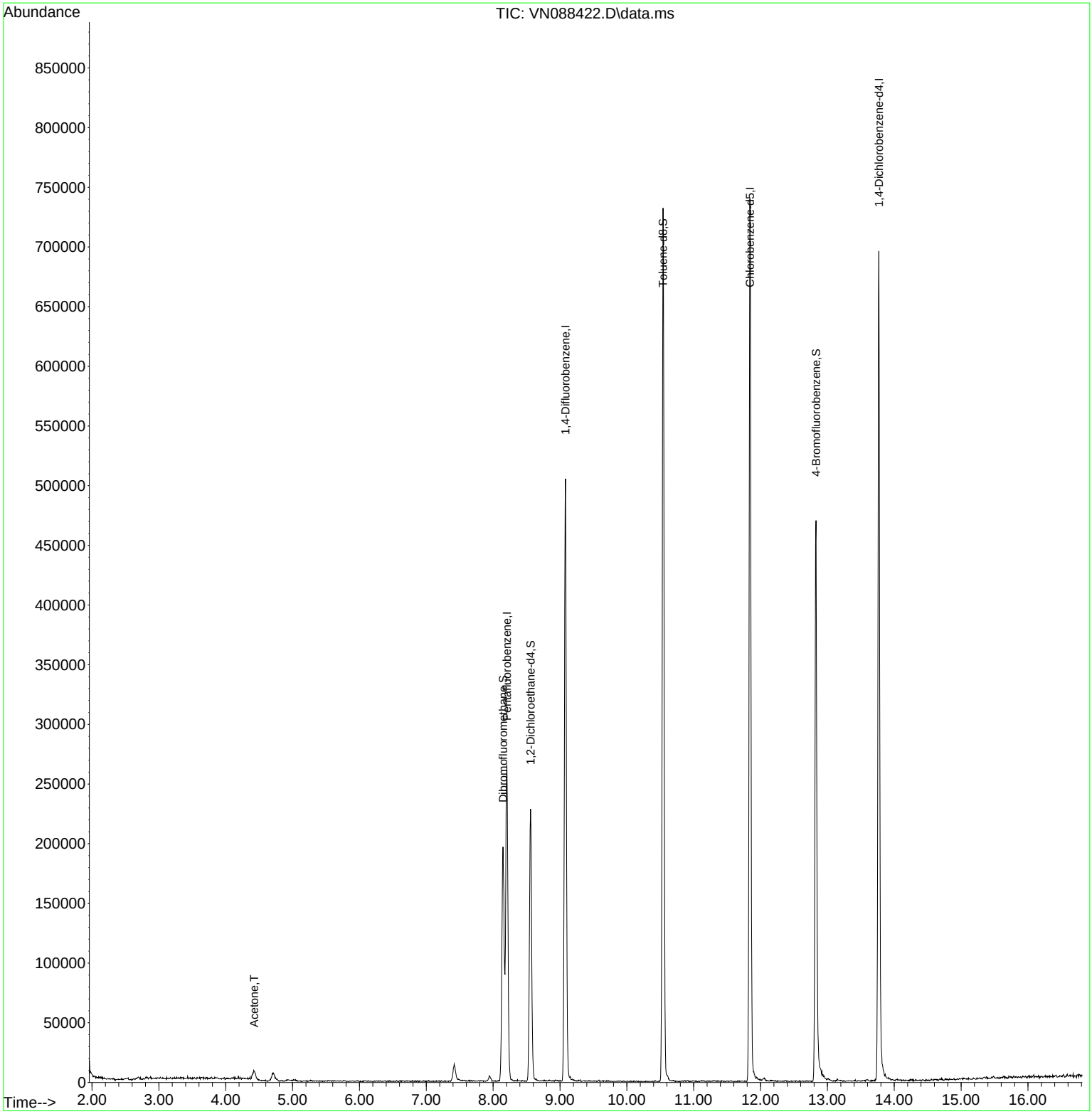
(#) = qualifier out of range (m) = manual integration (+) = signals summed

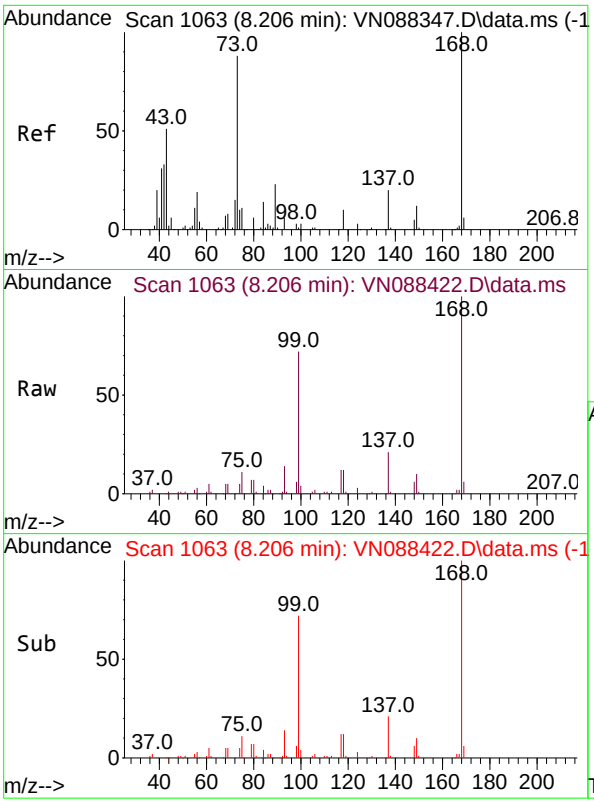
Sample Results: **VN088422.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088422.D
Acq On : 03 Dec 2025 12:52
Operator : JC\MD
Sample : Q3756-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 04 00:17:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



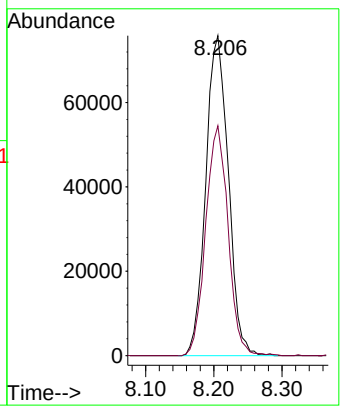


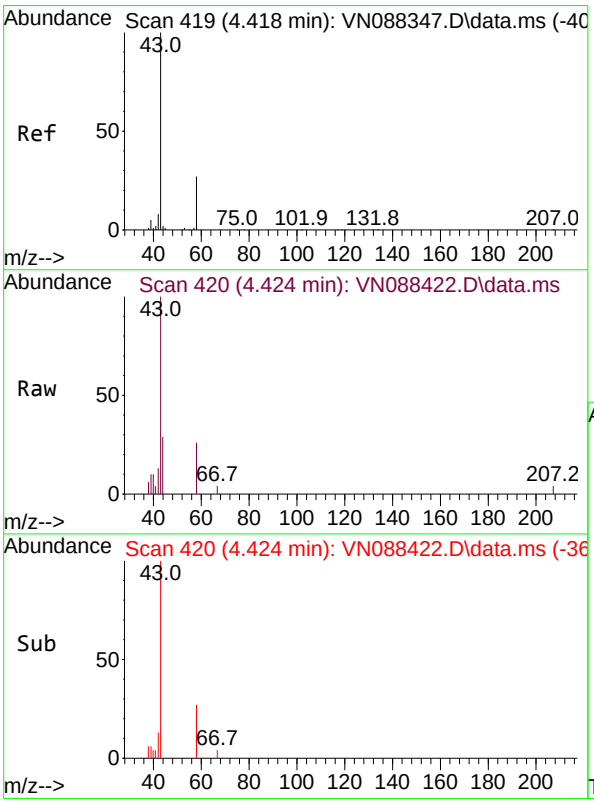
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Tgt Ion:168 Resp: 173573

Ion	Ratio	Lower	Upper
168	100		
99	71.8	57.1	85.7

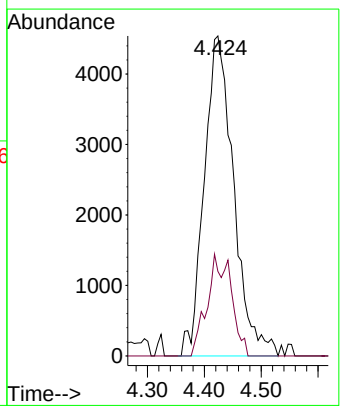


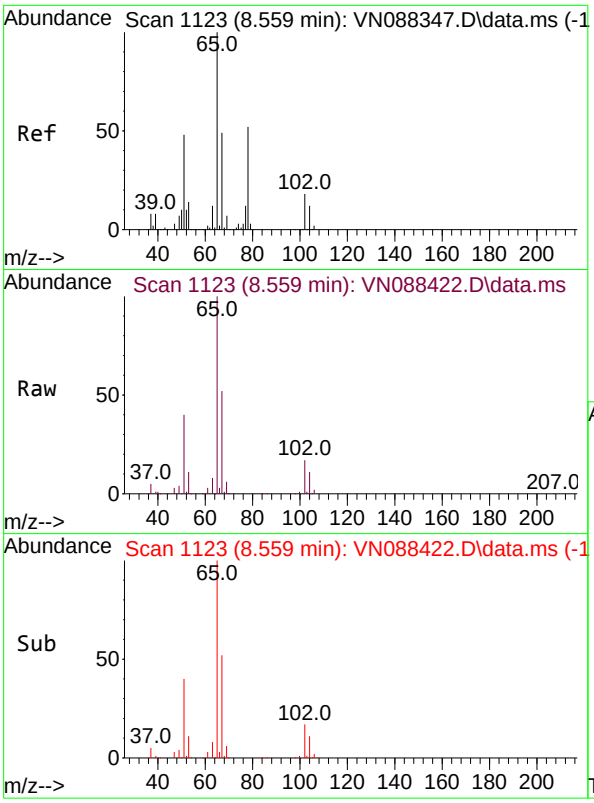


#16
Acetone
Concen: 13.837 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion: 43 Resp: 16363

Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.7	32.5



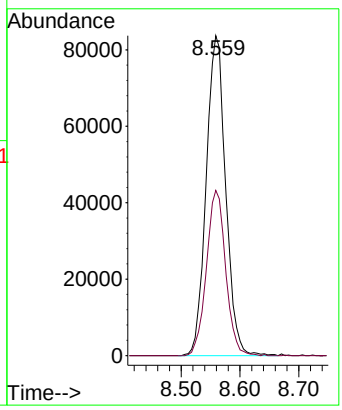


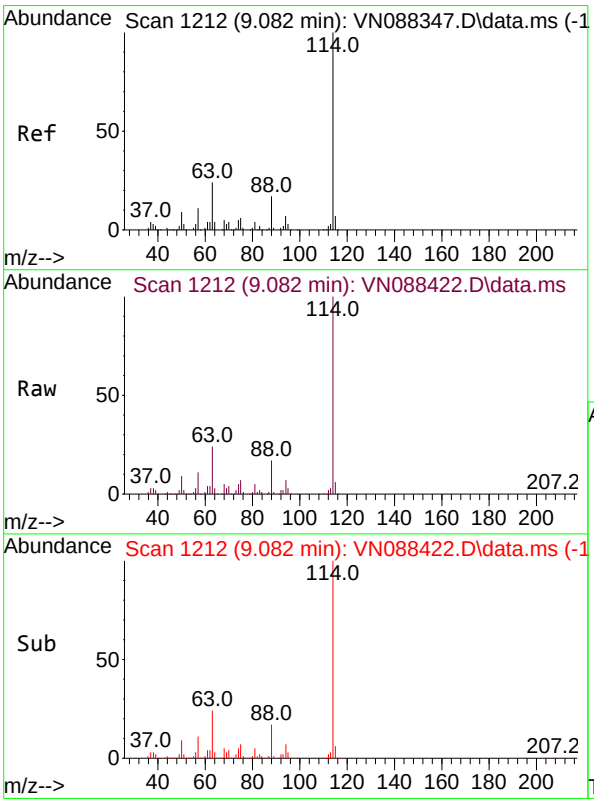
#33
1,2-Dichloroethane-d4
Concen: 58.927 ug/l
RT: 8.559 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Tgt Ion: 65 Resp: 192679

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	100.8

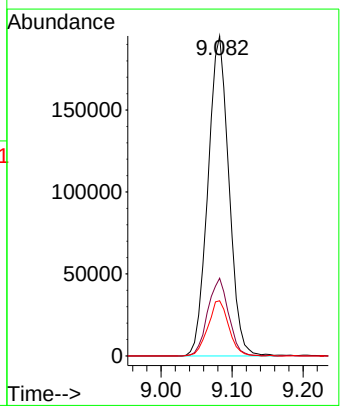


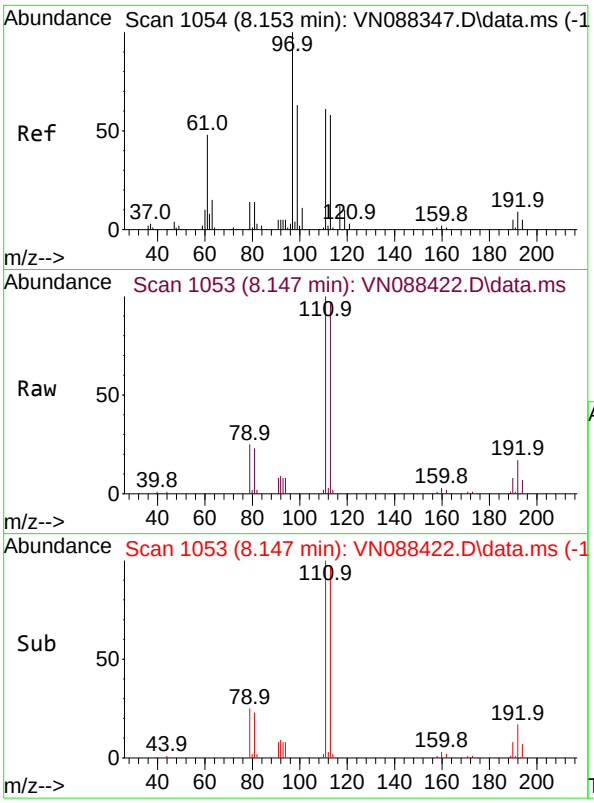


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion:114 Resp: 400248

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	49.0
88	17.2	0.0	34.0



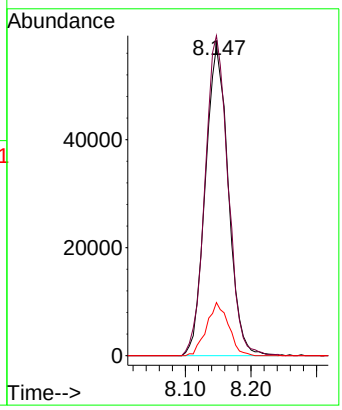


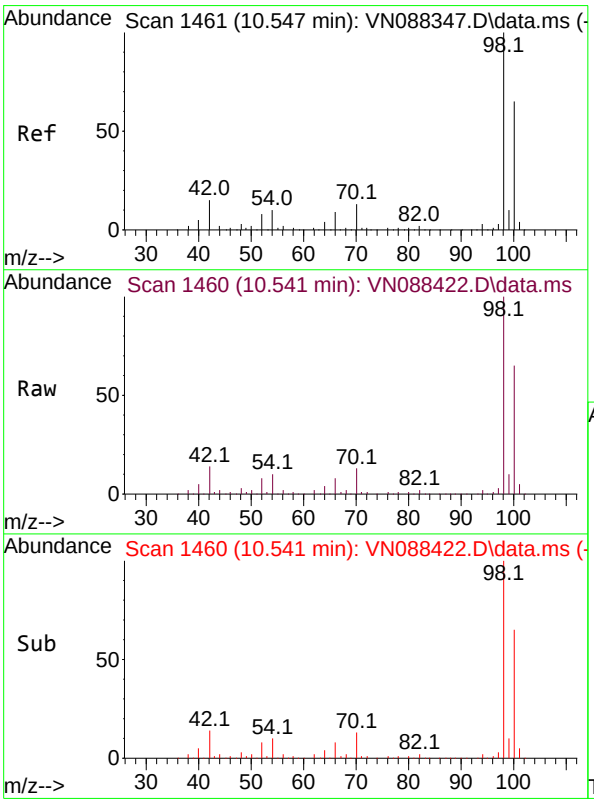
#35
Dibromofluoromethane
Concen: 50.408 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Tgt Ion:113 Resp: 139816

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.5	123.7
192	16.3	12.8	19.2

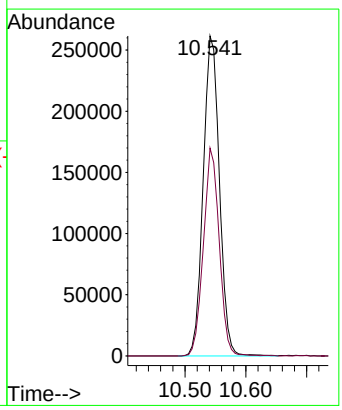


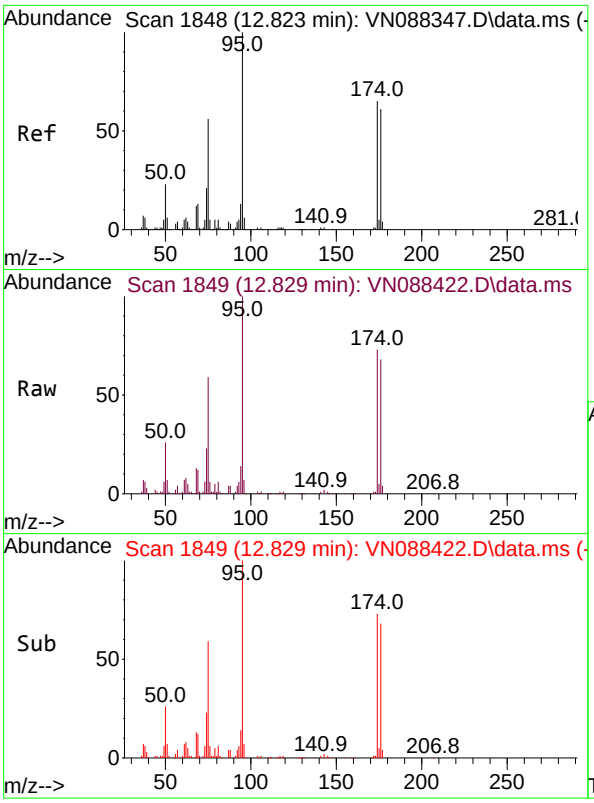


#50
Toluene-d8
Concen: 46.771 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion: 98 Resp: 482687

Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.2	78.2



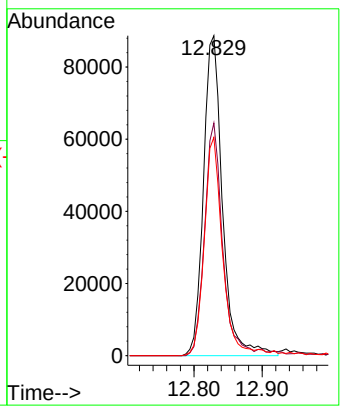


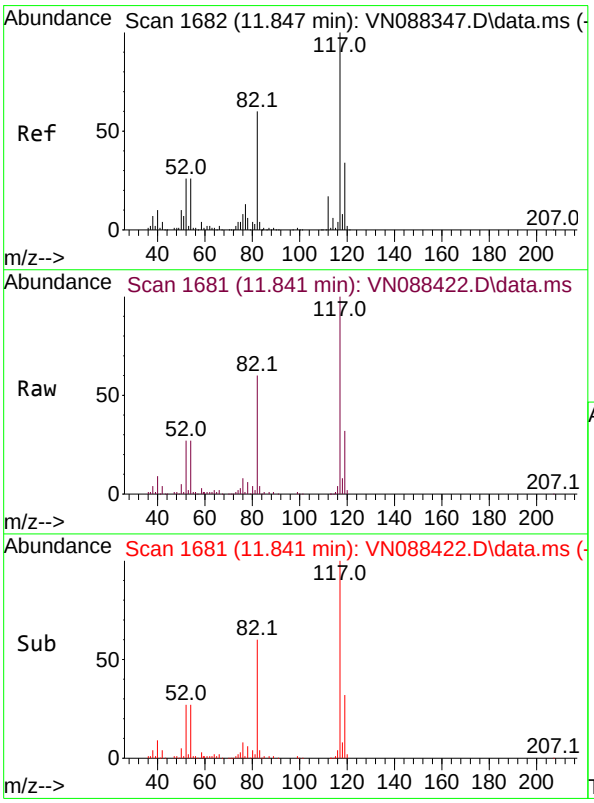
#62
4-Bromofluorobenzene
Concen: 48.580 ug/l
RT: 12.829 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Tgt Ion: 95 Resp: 172026

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	139.0
176	65.4	0.0	132.4

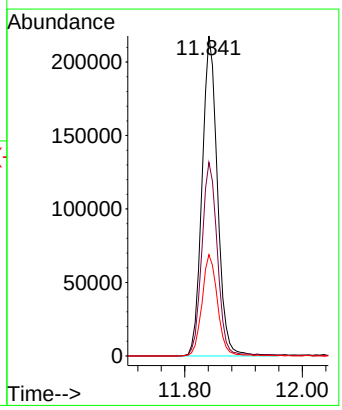


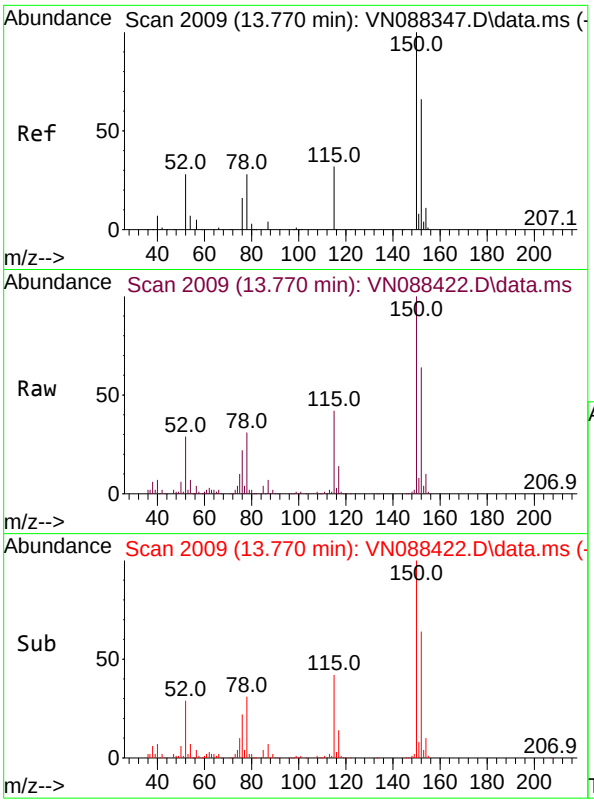


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion:117 Resp: 396303

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.8	71.8
119	31.6	26.9	40.3



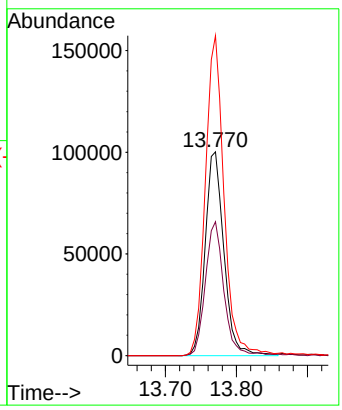


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Tgt Ion:152 Resp: 182664

Ion	Ratio	Lower	Upper
152	100		
115	65.3	33.0	98.9
150	157.8	0.0	349.0



Raw Data: **VN088423.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	TB01-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-10	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/03/25 13:12	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 13:12	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 13:12	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 13:12	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 13:12	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 13:12	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 13:12	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	65.5	*		70 (74) - 130 (125)	131%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.8			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	48.2			70 (86) - 130 (113)	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.9			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	192000							
540-36-3	1,4-Difluorobenzene	468000							
3114-55-4	Chlorobenzene-d5	465000							
3855-82-1	1,4-Dichlorobenzene-d4	219000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088423.D
Acq On : 03 Dec 2025 13:12
Operator : JC\MD
Sample : Q3756-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Quant Time: Dec 04 00:17:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	192200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468050	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	464764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	219360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	237154	65.500	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 131.000%#			
35) Dibromofluoromethane	8.147	113	167987	51.791	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.541	98	581457	48.179	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.829	95	210648	50.869	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.740%			
Target Compounds						Qvalue

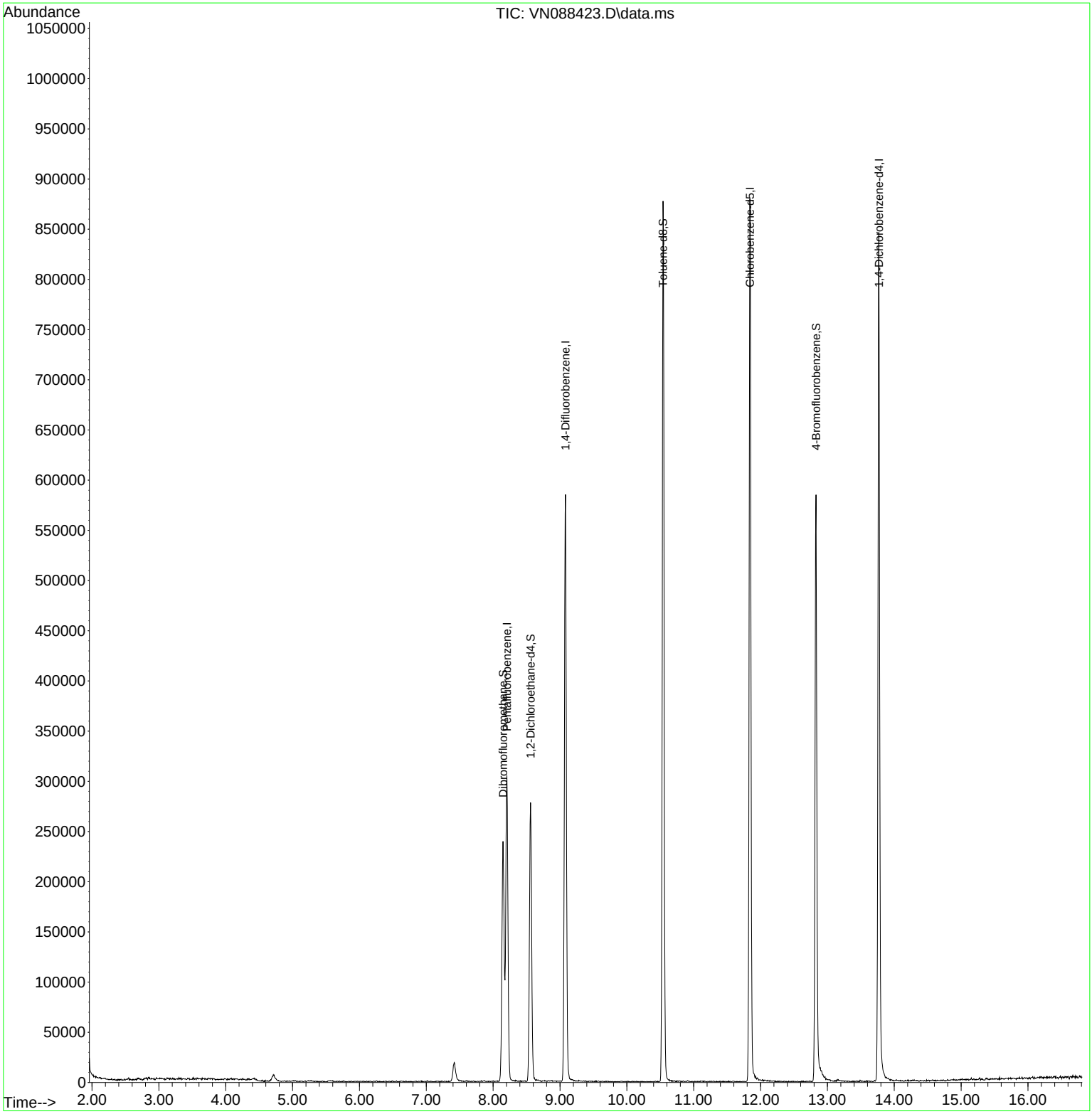
(#) = qualifier out of range (m) = manual integration (+) = signals summed

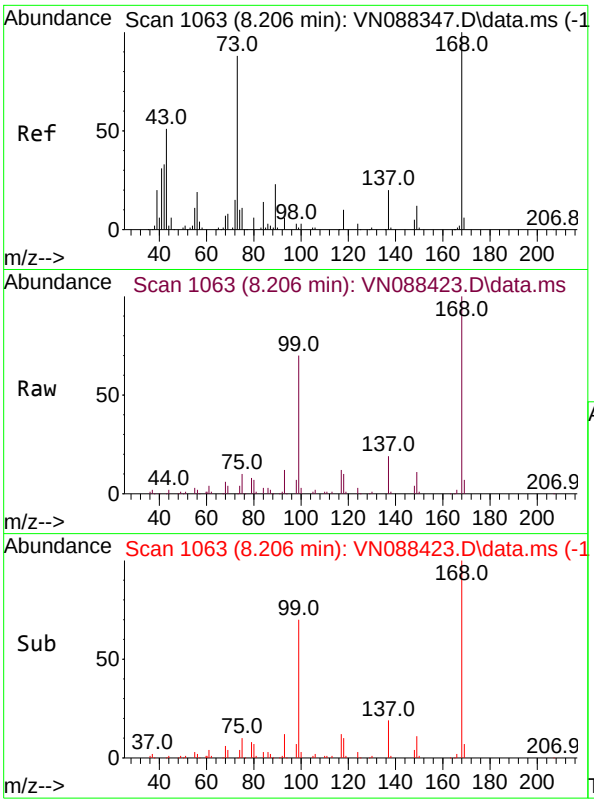
Sample Results: **VN088423.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088423.D
Acq On : 03 Dec 2025 13:12
Operator : JC\MD
Sample : Q3756-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Quant Time: Dec 04 00:17:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



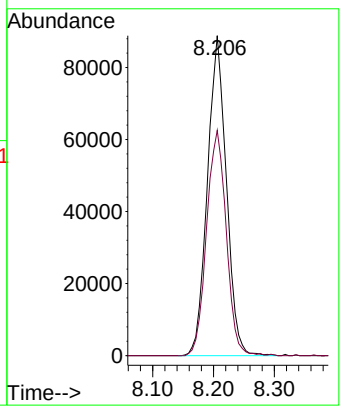


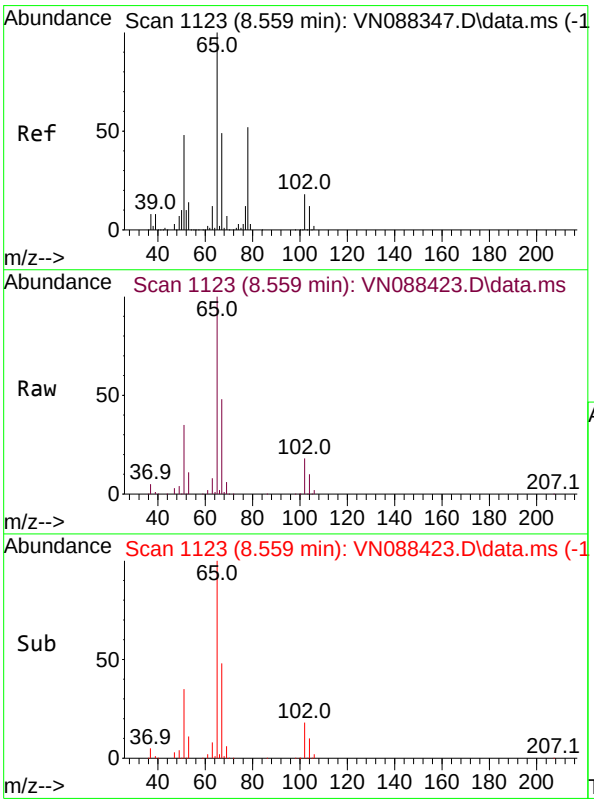
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion:168 Resp: 192200

Ion	Ratio	Lower	Upper
168	100		
99	70.4	57.1	85.7

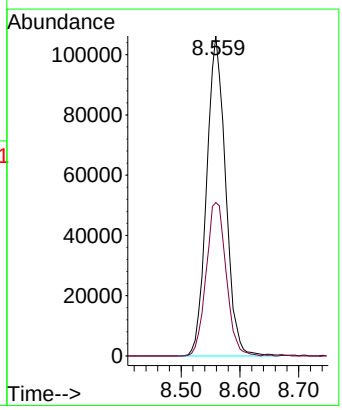


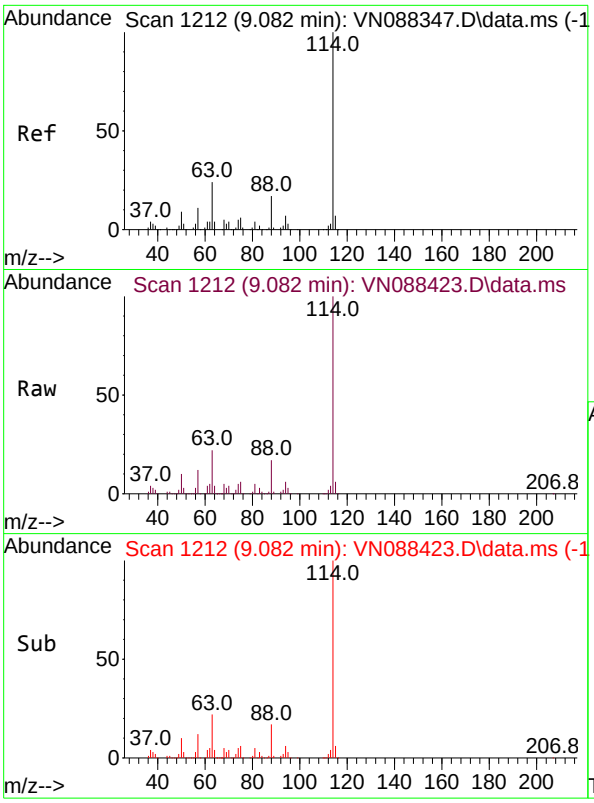


#33
1,2-Dichloroethane-d4
Concen: 65.500 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion: 65 Resp: 237154

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	100.8



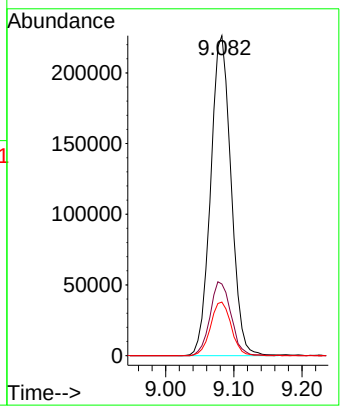


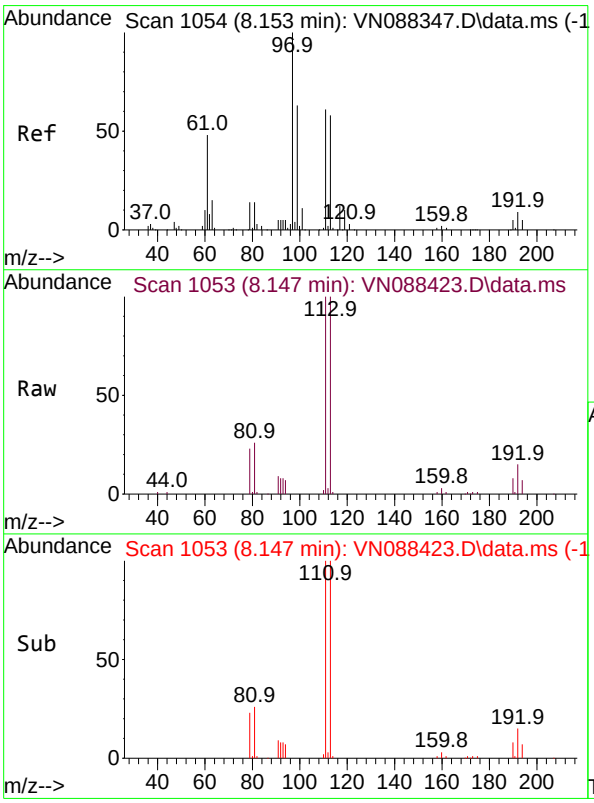
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion:114 Resp: 468050

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	49.0
88	16.7	0.0	34.0

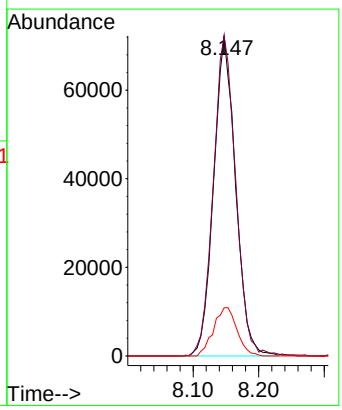


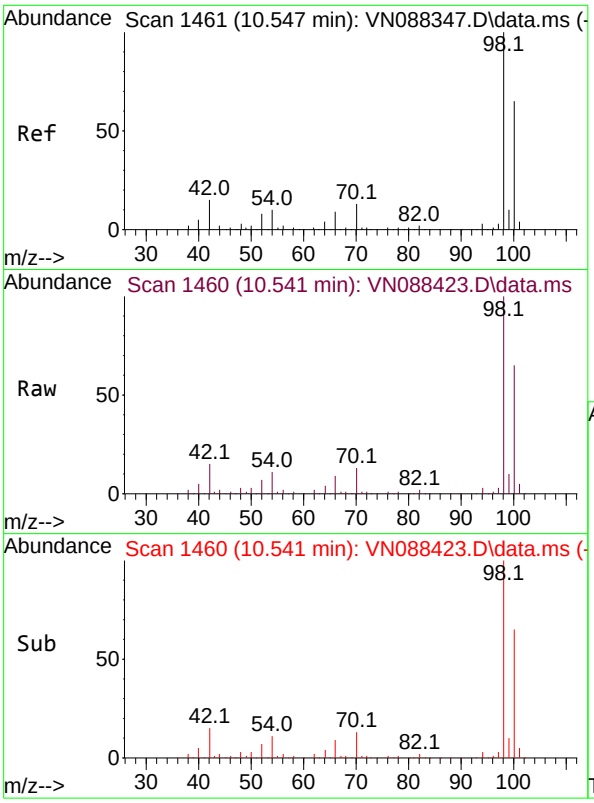


#35
Dibromofluoromethane
Concen: 51.791 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion:113 Resp: 167987

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.5	123.7
192	16.1	12.8	19.2



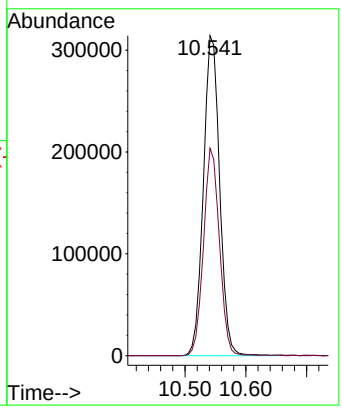


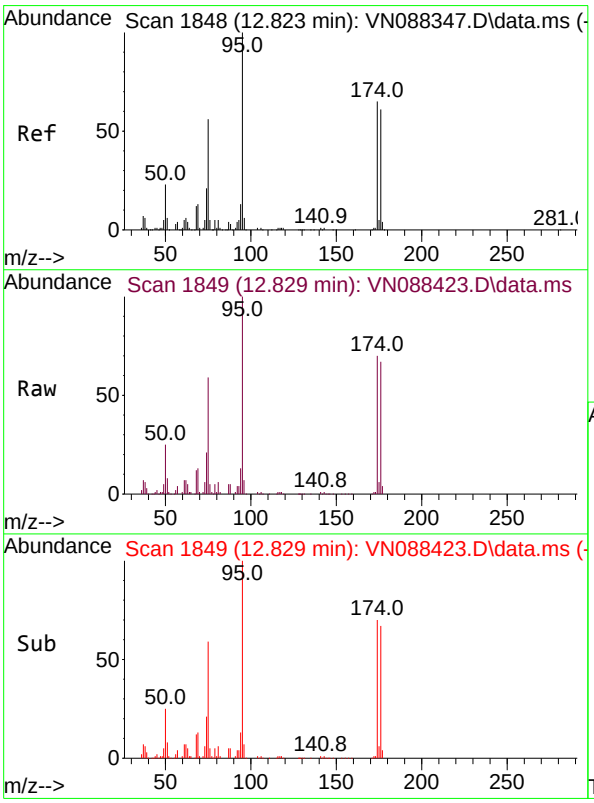
#50
Toluene-d8
Concen: 48.179 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion: 98 Resp: 581457

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2

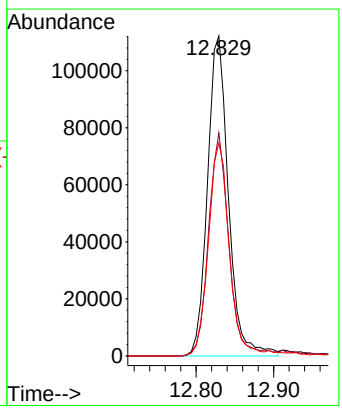


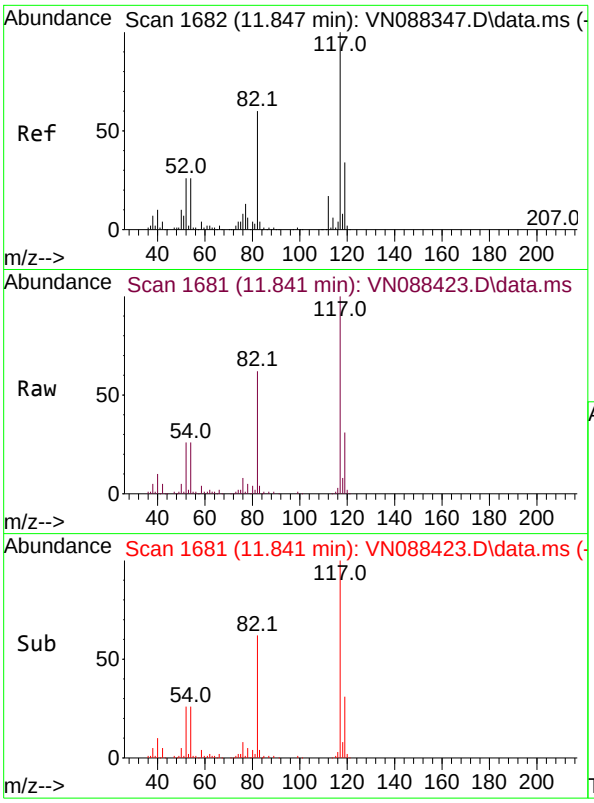


#62
4-Bromofluorobenzene
Concen: 50.869 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion: 95 Resp: 210648

Ion	Ratio	Lower	Upper
95	100		
174	67.5	0.0	139.0
176	65.8	0.0	132.4



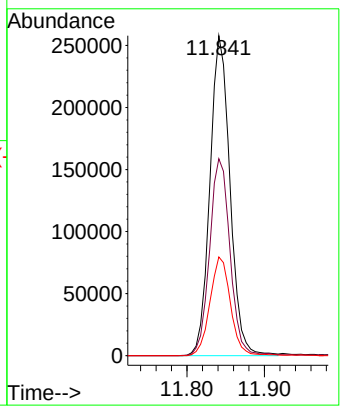


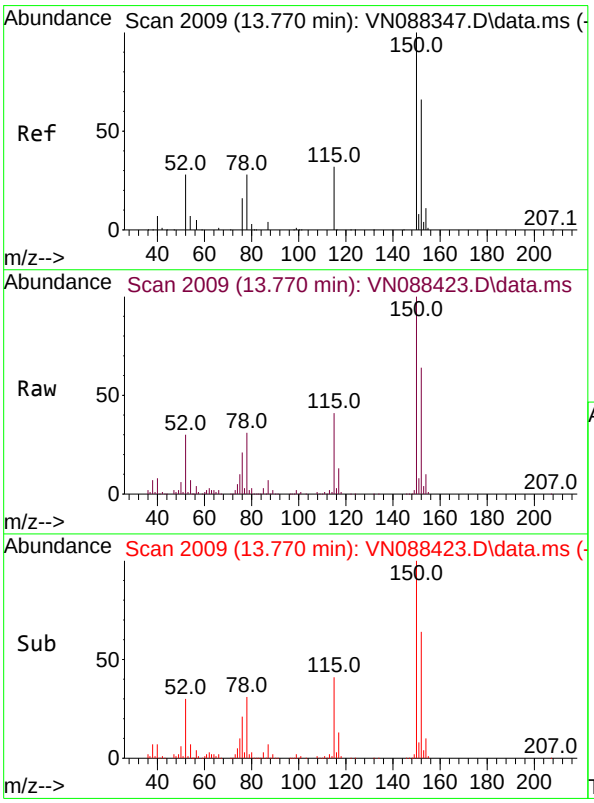
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion:117 Resp: 464764

Ion	Ratio	Lower	Upper
117	100		
82	61.5	47.8	71.8
119	30.8	26.9	40.3

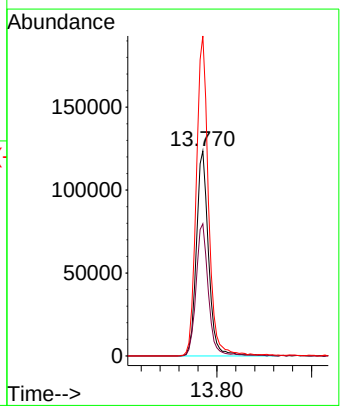




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion:152 Resp: 219360

Ion	Ratio	Lower	Upper
152	100		
115	64.9	33.0	98.9
150	157.0	0.0	349.0



Raw Data: **VN088434.D**

Alliance TECHNICAL GROUP
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:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	TB01-120225RE	SDG No.:	Q3756
Lab Sample ID:	Q3756-10RE	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/03/25 16:58	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 16:58	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 16:58	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 16:58	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 16:58	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 16:58	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 16:58	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.6			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	44.8			70 (75) - 130 (124)	90%	SPK: 50		
2037-26-5	Toluene-d8	42.0			70 (86) - 130 (113)	84%	SPK: 50		
460-00-4	4-Bromofluorobenzene	44.1			70 (77) - 130 (121)	88%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	224000							
540-36-3	1,4-Difluorobenzene	518000							
3114-55-4	Chlorobenzene-d5	519000							
3855-82-1	1,4-Dichlorobenzene-d4	246000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088434.D
Acq On : 03 Dec 2025 16:58
Operator : JC\MD
Sample : Q3756-10RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Quant Time: Dec 04 00:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	223956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	518301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	518638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	245675	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	230323	54.593	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.180%			
35) Dibromofluoromethane	8.147	113	160791	44.766	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 89.540%			
50) Toluene-d8	10.547	98	560829	41.965	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 83.920%#			
62) 4-Bromofluorobenzene	12.829	95	202134	44.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.160%			
Target Compounds						Qvalue

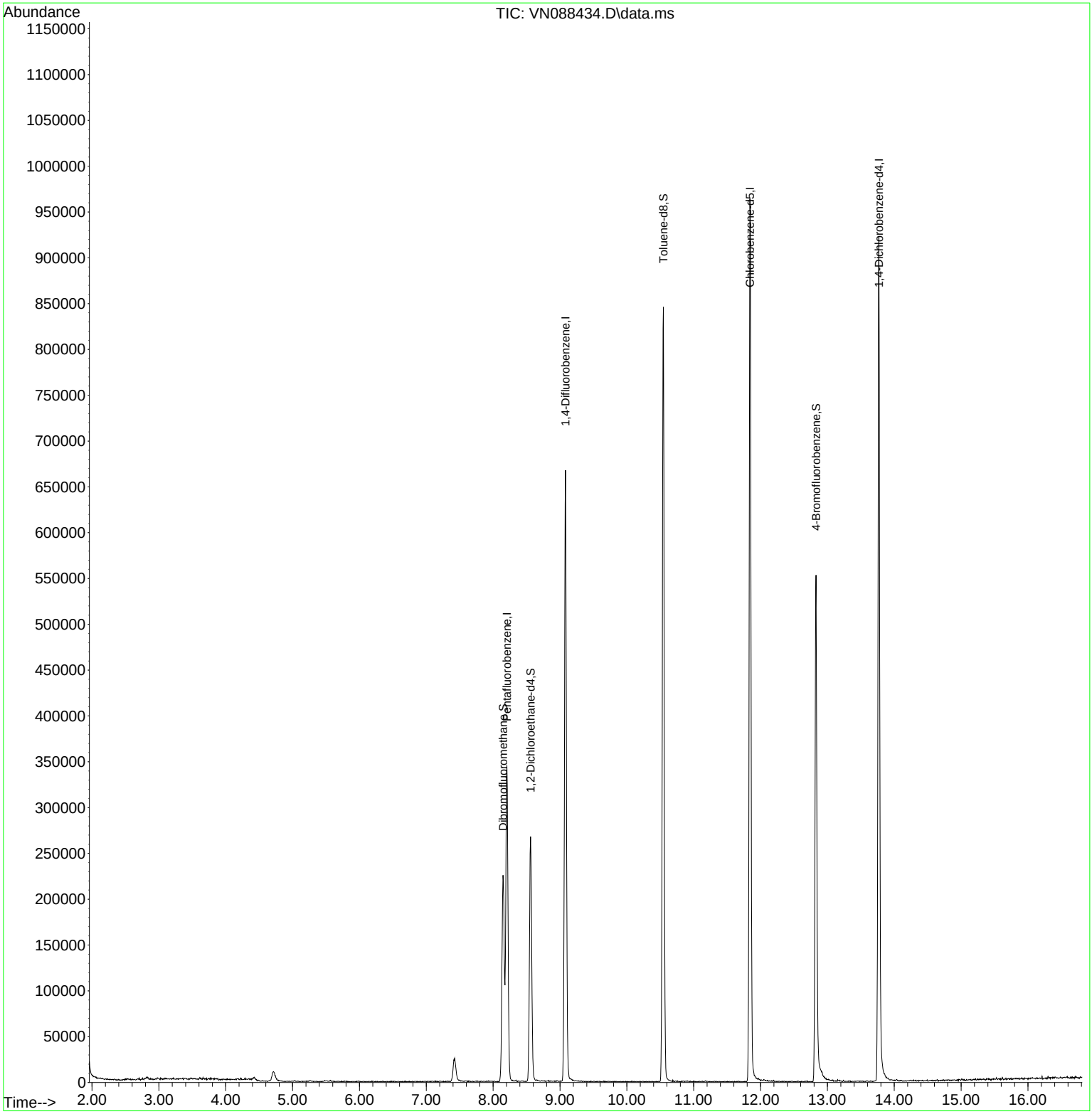
(#) = qualifier out of range (m) = manual integration (+) = signals summed

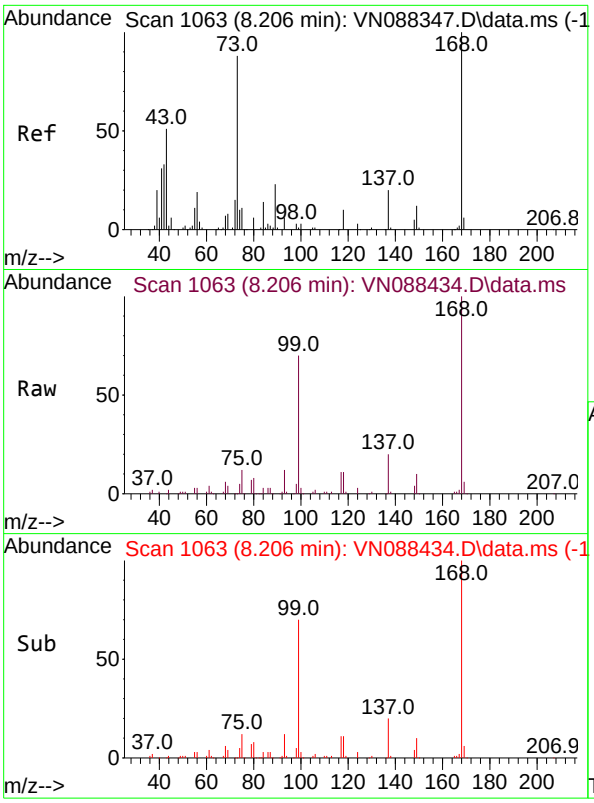
Sample Results: **VN088434.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088434.D
Acq On : 03 Dec 2025 16:58
Operator : JC\MD
Sample : Q3756-10RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Quant Time: Dec 04 00:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



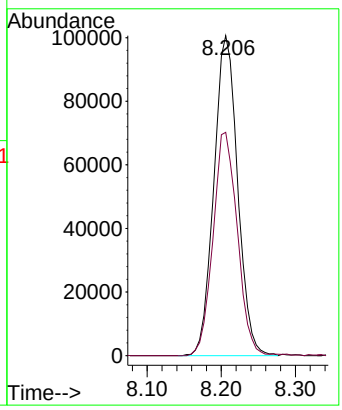


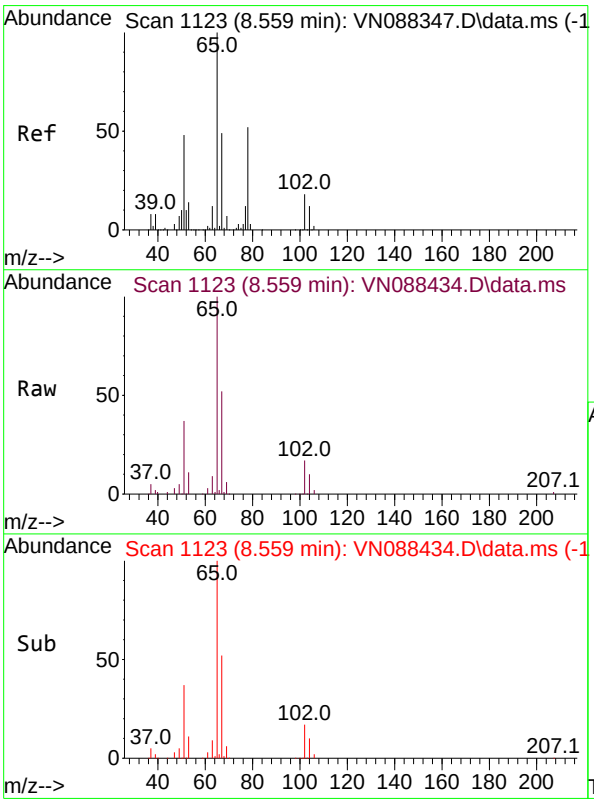
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion:168 Resp: 223956

Ion	Ratio	Lower	Upper
168	100		
99	69.8	57.1	85.7

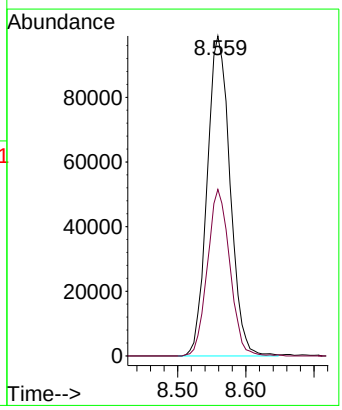


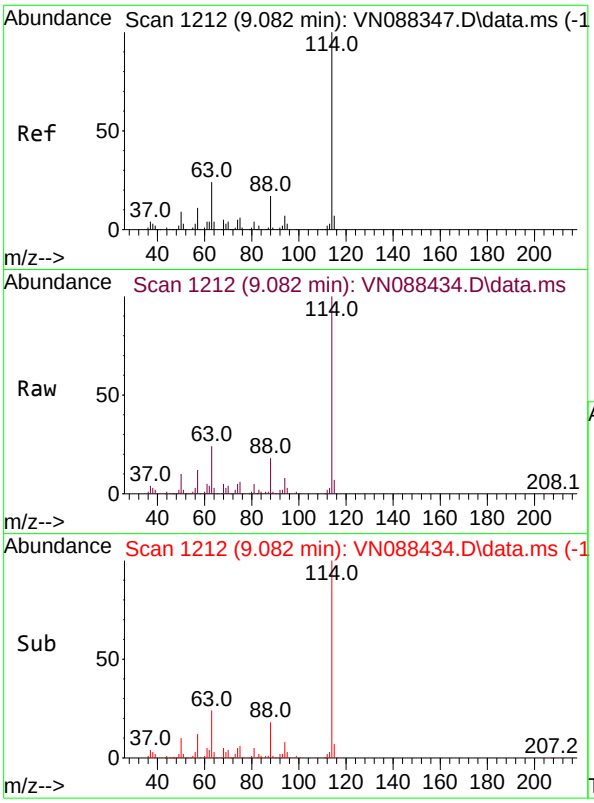


#33
1,2-Dichloroethane-d4
Concen: 54.593 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 65 Resp: 230323

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	100.8



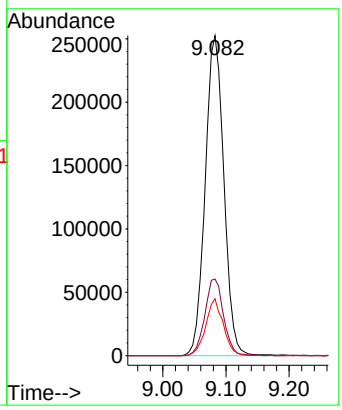


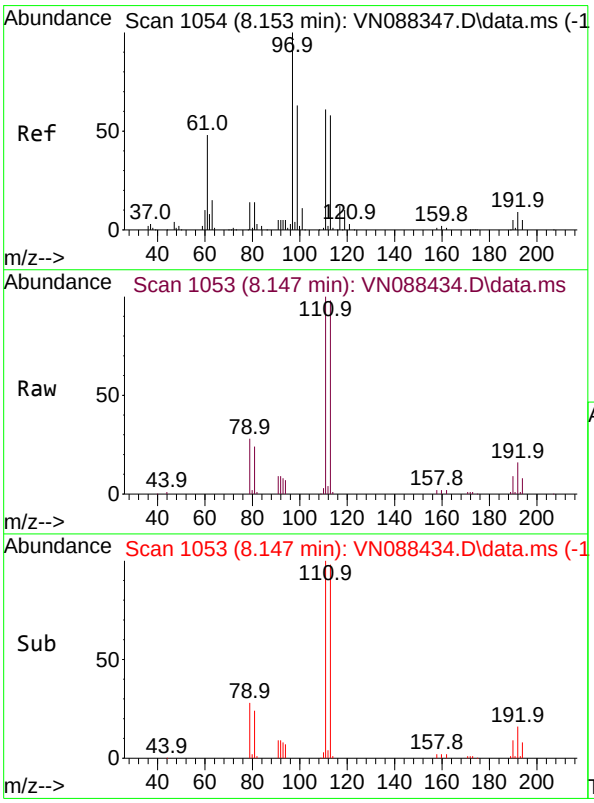
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion:114 Resp: 518301

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.0
88	17.8	0.0	34.0

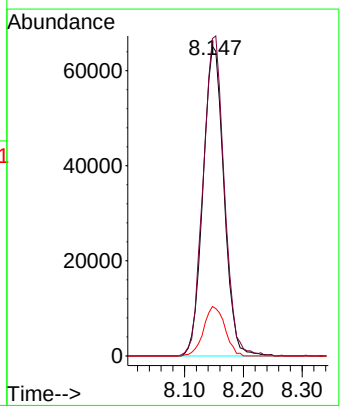


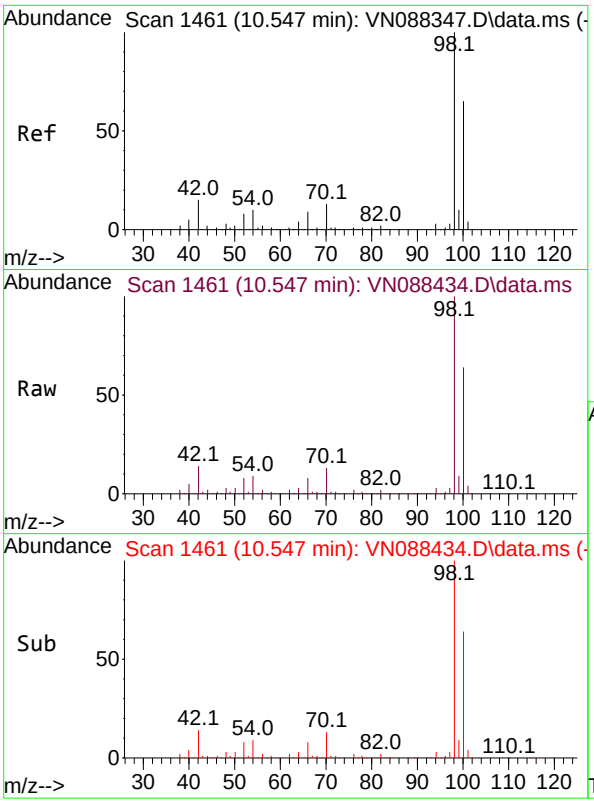


#35
Dibromofluoromethane
Concen: 44.766 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion:113 Resp: 160791

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.5	123.7
192	16.2	12.8	19.2



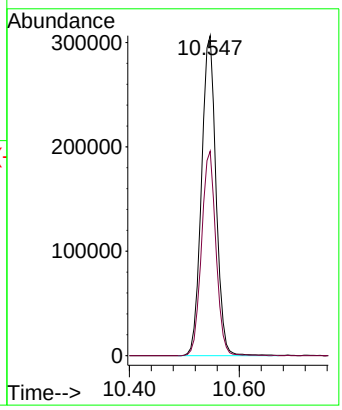


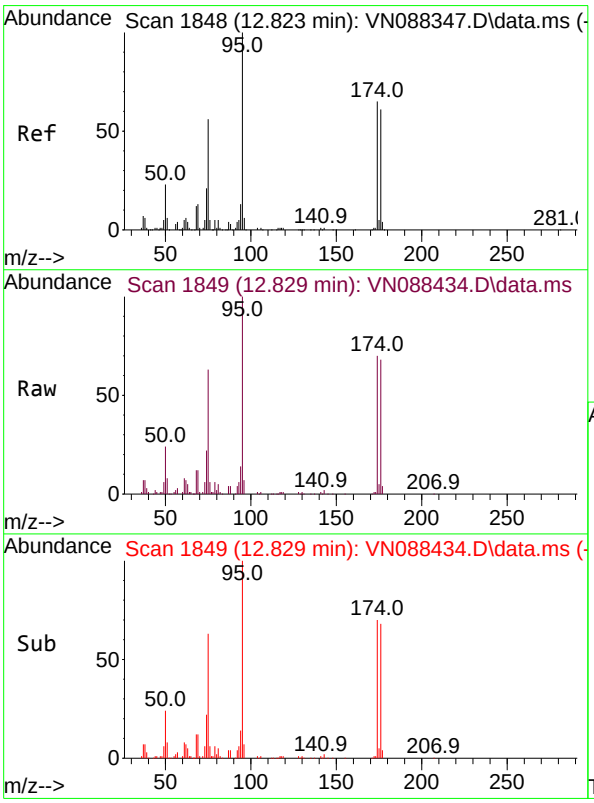
#50
Toluene-d8
Concen: 41.965 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion: 98 Resp: 560829

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2

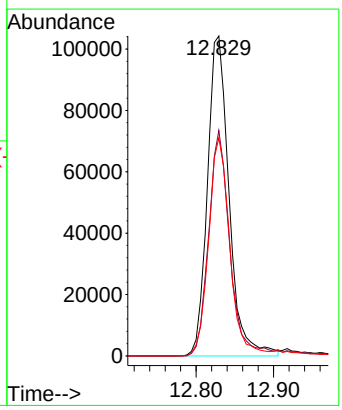


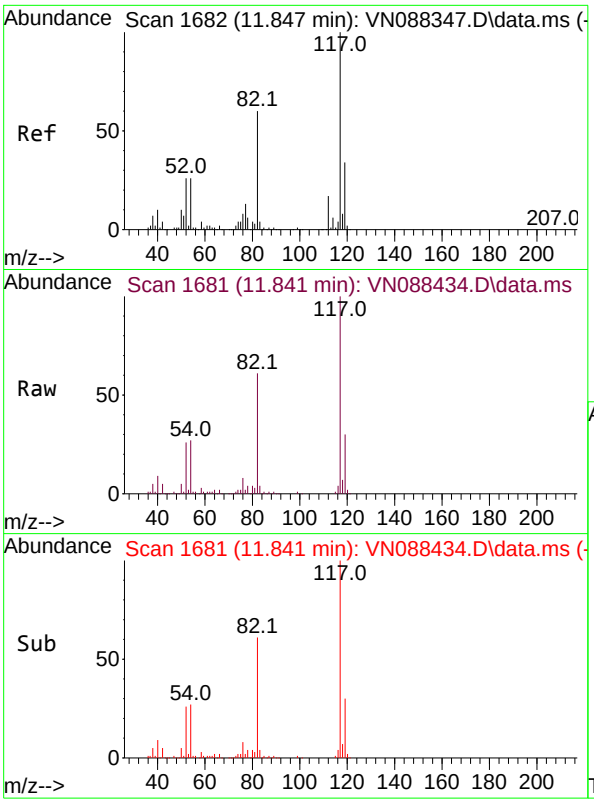


#62
4-Bromofluorobenzene
Concen: 44.081 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 95 Resp: 202134

Ion	Ratio	Lower	Upper
95	100		
174	69.0	0.0	139.0
176	66.4	0.0	132.4



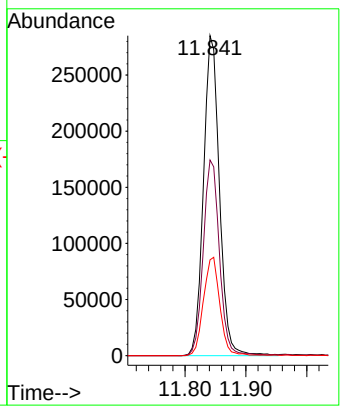


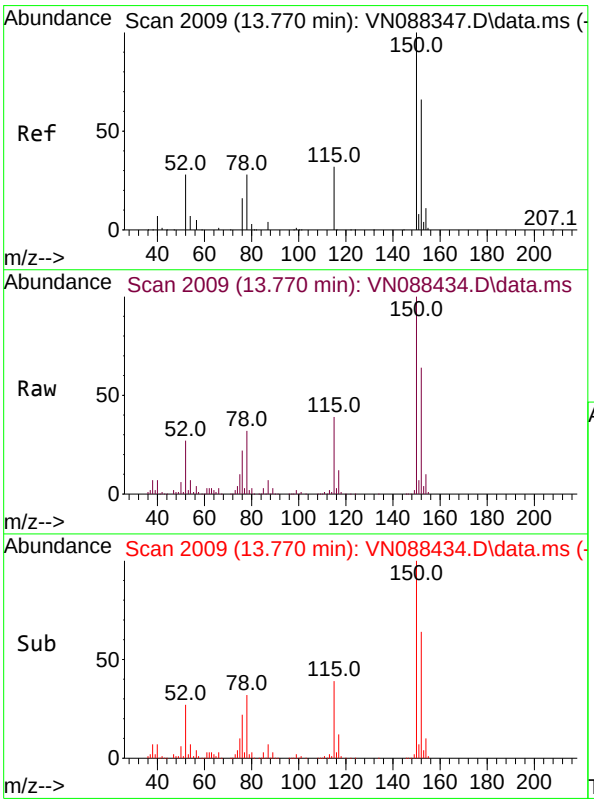
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion:117 Resp: 518638

Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.8	71.8
119	29.9	26.9	40.3

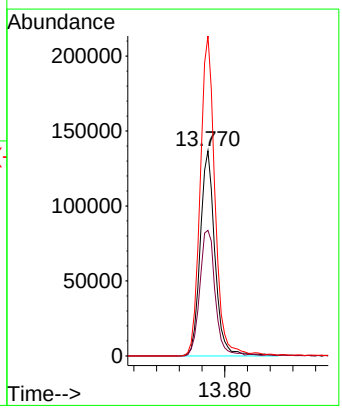




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion:152 Resp: 245675

Ion	Ratio	Lower	Upper
152	100		
115	64.1	33.0	98.9
150	155.8	0.0	349.0



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: JACO05

Lab Code: ACE | SDG No.: Q3756

Instrument ID: MSVOA_N | Calibration Date(s): 11/24/2025 11/24/2025

Heated Purge: (Y/N) N | Calibration Time(s): 12:38 14:35

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

LAB FILE ID: RRF001 = VN088344.D RRF005 = VN088345.D RRF020 = VN088346.D
RRF050 = VN088347.D RRF100 = VN088348.D RRF150 = VN088349.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.8
1,1-Dichloroethene	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.8
1,1-Dichloroethane	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.3
cis-1,2-Dichloroethene	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.2
1,1,1-Trichloroethane	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.3
Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.9
1,2-Dichloroethane	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.3
Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.1
1,1,2-Trichloroethane	0.350	0.359	0.364	0.353	0.341	0.336	0.351	3
Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.7
1,2-Dichloroethane-d4		0.954	0.916	0.999	0.882	0.960	0.942	4.7
Dibromofluoromethane		0.361	0.350	0.350	0.334	0.337	0.346	3.2
Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	2
4-Bromofluorobenzene		0.402	0.413	0.448	0.466	0.482	0.442	7.7

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025
Response Via : Initial Calibration

Calibration Files
1 =VN088344.D 5 =VN088345.D 20 =VN088346.D 50 =VN088347.D 100 =VN088348.D 150 =VN088349.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.719	0.676	0.796	0.741	0.838	0.736	0.751	7.67
3)	P	Chloromethane	0.911	0.800	0.805	0.801	0.759	0.764	0.807	6.79
4)	C	Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.78#
5)	T	Bromomethane		0.407	0.392	0.396	0.387	0.392	0.395	1.85
6)	T	Chloroethane	0.555	0.503	0.496	0.505	0.502	0.485	0.508	4.82
7)	T	Trichlorofluor...	1.234	1.170	1.168	1.092	1.201	1.055	1.153	5.84
8)	T	Diethyl Ether	0.495	0.451	0.395	0.444	0.401	0.411	0.433	8.73
9)	T	1,1,2-Trichlor...	0.660	0.635	0.639	0.564	0.633	0.553	0.614	7.17
10)	T	Methyl Iodide		0.498	0.584	0.662	0.660	0.636	0.608	11.40
11)	T	Tert butyl alc...		0.151	0.149	0.161	0.142	0.148	0.150	4.64
12)	CM	1,1-Dichloroet...	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.83#
13)	T	Acrolein		0.146	0.132	0.151	0.143	0.147	0.144	5.00
14)	T	Allyl chloride	1.107	1.143	1.117	1.149	1.132	1.135	1.131	1.38
15)	T	Acrylonitrile	0.435	0.435	0.432	0.466	0.416	0.418	0.434	4.14
16)	T	Acetone	0.412	0.355	0.322	0.335	0.305	0.314	0.341	11.49
17)	T	Carbon Disulfide	2.061	2.043	2.043	1.983	1.996	1.833	1.993	4.22
18)	T	Methyl Acetate	1.072	1.048	0.957	1.049	0.972	0.985	1.014	4.74
19)	T	Methyl tert-bu...	2.126	2.239	2.245	2.504	2.265	2.333	2.285	5.53
20)	T	Methylene Chlo...	0.797	0.752	0.704	0.756	0.686	0.678	0.729	6.44
21)	T	trans-1,2-Dich...	0.752	0.668	0.676	0.686	0.647	0.626	0.676	6.39
22)	T	Diisopropyl ether	2.267	2.415	2.439	2.580	2.359	2.424	2.414	4.26
23)	T	Vinyl Acetate	1.711	1.879	1.997	2.137	1.943	2.002	1.945	7.35
24)	P	1,1-Dichloroet...	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.27
25)	T	2-Butanone	0.509	0.538	0.548	0.596	0.540	0.556	0.548	5.17
26)	T	2,2-Dichloropr...	1.245	1.133	1.185	1.204	1.176	1.137	1.180	3.56
27)	T	cis-1,2-Dichlo...	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.22
28)	T	Bromochloromet...	0.724	0.722	0.684	0.735	0.624	0.597	0.681	8.47
29)	T	Tetrahydrofuran	0.354	0.397	0.394	0.429	0.384	0.398	0.393	6.18
30)	C	Chloroform	1.377	1.362	1.351	1.392	1.291	1.285	1.343	3.33#
31)	T	Cyclohexane		1.450	1.264	1.133	1.237	1.109	1.239	10.92
32)	T	1,1,1-Trichlor...	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.27
33)	S	1,2-Dichloroet...		0.954	0.916	0.999	0.882	0.960	0.942	4.74
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.361	0.350	0.350	0.334	0.337	0.346	3.17
36)	T	1,1-Dichloropr...	0.607	0.542	0.531	0.491	0.547	0.490	0.535	8.09
37)	T	Ethyl Acetate	0.735	0.678	0.724	0.720	0.681	0.681	0.703	3.69
38)	T	Carbon Tetrach...	0.565	0.504	0.548	0.499	0.570	0.509	0.532	6.04
39)	T	Methylcyclohexane	0.534	0.542	0.606	0.527	0.662	0.561	0.572	9.14
40)	TM	Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.86
41)	T	Methacrylonitrile	0.360	0.323	0.351	0.357	0.349	0.350	0.348	3.74
42)	TM	1,2-Dichloroet...	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.27
43)	T	Isopropyl Acetate	1.098	1.019	1.063	1.116	1.076	1.074	1.074	3.11
44)	TM	Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.13
45)	C	1,2-Dichloropr...	0.426	0.402	0.402	0.406	0.396	0.381	0.402	3.62#
46)	T	Dibromomethane	0.288	0.292	0.289	0.293	0.283	0.277	0.287	2.08
47)	T	Bromodichlorom...	0.602	0.586	0.586	0.589	0.583	0.566	0.586	1.96
48)	T	Methyl methacr...	0.480	0.433	0.491	0.513	0.511	0.513	0.490	6.35
49)	T	1,4-Dioxane	0.005	0.006	0.007	0.007	0.006	0.006	0.006	8.55
50)	S	Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	1.96
51)	T	4-Methyl-2-Pen...	0.540	0.616	0.661	0.673	0.658	0.651	0.633	7.79
52)	CM	Toluene	0.829	0.885	0.940	0.913	0.960	0.911	0.906	5.05#
53)	T	t-1,3-Dichloro...	0.567	0.553	0.598	0.631	0.631	0.625	0.601	5.72
54)	T	cis-1,3-Dichlo...	0.590	0.618	0.628	0.662	0.654	0.640	0.632	4.16
55)	T	1,1,2-Trichlor...	0.350	0.359	0.364	0.353	0.341	0.336	0.351	2.98
56)	T	Ethyl methacry...	0.417	0.482	0.558	0.616	0.624	0.626	0.554	15.71

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N112425W.M

57)	T	1,3-Dichloropr...	0.607	0.638	0.647	0.644	0.638	0.622	0.633	2.42
58)	T	2-Chloroethyl ...	0.258	0.323	0.333	0.364	0.337	0.301	0.319	11.41
59)	T	2-Hexanone	0.359	0.301	0.406	0.436	0.442	0.450	0.399	14.66
60)	T	Dibromochlorom...	0.384	0.386	0.406	0.409	0.410	0.404	0.400	2.87
61)	T	1,2-Dibromoethane	0.304	0.367	0.364	0.369	0.367	0.359	0.355	7.16
62)	S	4-Bromofluorob...		0.402	0.413	0.448	0.466	0.482	0.442	7.67
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.73
65)	PM	Chlorobenzene	1.114	1.142	1.161	1.106	1.145	1.070	1.123	2.96
66)	T	1,1,1,2-Tetrac...	0.378	0.372	0.394	0.383	0.386	0.361	0.379	3.04
67)	C	Ethyl Benzene	1.881	1.860	2.014	1.938	2.133	1.952	1.963	5.06#
68)	T	m/p-Xylenes	0.658	0.690	0.769	0.733	0.788	0.728	0.728	6.64
69)	T	o-Xylene	0.670	0.619	0.722	0.696	0.749	0.708	0.694	6.51
70)	T	Styrene	0.884	1.025	1.163	1.193	1.284	1.210	1.127	12.94
71)	P	Bromoform	0.224	0.273	0.285	0.285	0.302	0.295	0.277	10.12
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.339	3.528	3.944	3.624	4.040	3.706	3.697	7.07
74)	T	N-amyl acetate			1.173	1.045	1.338	1.480	1.259	15.09
75)	P	1,1,2,2-Tetrac...	1.377	1.218	1.231	1.127	1.135	1.082	1.195	8.87
76)	T	1,2,3-Trichlor...	1.036	1.199	1.268	1.202	1.177	1.145	1.171	6.63
77)	T	Bromobenzene	0.781	0.885	0.866	0.863	0.865	0.816	0.846	4.66
78)	T	n-propylbenzene	4.076	4.270	4.925	4.439	4.931	4.496	4.523	7.66
79)	T	2-Chlorotoluene	2.707	2.799	2.851	2.699	2.835	2.681	2.762	2.72
80)	T	1,3,5-Trimethy...	2.650	2.988	3.315	3.051	3.307	3.069	3.063	7.99
81)	T	trans-1,4-Dich...		0.355	0.364	0.430	0.452	0.462	0.413	12.09
82)	T	4-Chlorotoluene	2.093	2.830	2.935	2.854	2.944	2.803	2.743	11.80
83)	T	tert-Butylbenzene	2.509	2.468	2.773	2.509	2.816	2.549	2.604	5.78
84)	T	1,2,4-Trimethy...	2.572	2.827	3.310	3.112	3.344	3.105	3.045	9.74
85)	T	sec-Butylbenzene	3.457	3.614	3.971	3.609	4.122	3.674	3.741	6.73
86)	T	p-Isopropyltol...	2.714	2.808	3.330	3.047	3.435	3.073	3.068	9.18
87)	T	1,3-Dichlorobe...	1.730	1.573	1.720	1.606	1.676	1.574	1.647	4.34
88)	T	1,4-Dichlorobe...	1.747	1.825	1.786	1.681	1.702	1.608	1.725	4.52
89)	T	n-Butylbenzene	2.827	2.664	3.155	2.873	3.373	2.979	2.979	8.49
90)	T	Hexachloroethane	0.549	0.550	0.571	0.535	0.604	0.553	0.560	4.36
91)	T	1,2-Dichlorobe...	1.518	1.574	1.583	1.521	1.595	1.505	1.550	2.52
92)	T	1,2-Dibromo-3-...	0.284	0.284	0.284	0.288	0.300	0.300	0.290	2.80
93)	T	1,2,4-Trichlor...	0.998	0.864	0.901	0.889	0.955	0.917	0.921	5.26
94)	T	Hexachlorobuta...	0.362	0.316	0.349	0.297	0.354	0.307	0.331	8.32
95)	T	Naphthalene	2.946	2.864	3.163	3.292	3.483	3.395	3.190	7.74
96)	T	1,2,3-Trichlor...	0.942	0.850	0.888	0.875	0.930	0.891	0.896	3.83

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone
11/25/2025
Supervised By :Mahesh Dadoda
11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	286338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	535294	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	458943	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	203454	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	4116	1.176	ug/l	88
3) Chloromethane	2.383	50	5215	1.282	ug/l	92
4) Vinyl Chloride	2.536	62	4602	1.055	ug/l	98
6) Chloroethane	3.148	64	3181	1.036	ug/l #	78
7) Trichlorofluoromethane	3.512	101	7064	1.049	ug/l #	82
8) Diethyl Ether	3.953	74	2832	1.101	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.359	101	3781	1.083	ug/l	91
12) 1,1-Dichloroethene	4.336	96	4136m	1.118	ug/l	
14) Allyl chloride	5.012	41	6342	0.957	ug/l	95
15) Acrylonitrile	5.712	53	12465	5.068	ug/l	98
16) Acetone	4.424	43	11802	4.716	ug/l	98
17) Carbon Disulfide	4.694	76	11805	1.034	ug/l #	85
18) Methyl Acetate	5.006	43	6138	1.129	ug/l	95
19) Methyl tert-butyl Ether	5.783	73	12174	0.876	ug/l	96
20) Methylene Chloride	5.265	84	4566	1.042	ug/l #	70
21) trans-1,2-Dichloroethene	5.783	96	4308	1.053	ug/l #	94
22) Diisopropyl ether	6.665	45	12982m	0.932	ug/l	
23) Vinyl Acetate	6.594	43	48988	3.972	ug/l	96
24) 1,1-Dichloroethane	6.547	63	7954	1.029	ug/l #	95
25) 2-Butanone	7.471	43	14574	4.283	ug/l #	82
26) 2,2-Dichloropropane	7.465	77	7127	1.026	ug/l #	77
27) cis-1,2-Dichloroethene	7.465	96	4562m	0.962	ug/l	
28) Bromochloromethane	7.788	49	4148	1.149	ug/l #	92
29) Tetrahydrofuran	7.835	42	10143	4.482	ug/l	96
30) Chloroform	7.947	83	7885	1.027	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	7143	1.055	ug/l #	46
36) 1,1-Dichloropropene	8.341	75	6499	1.203	ug/l #	80
37) Ethyl Acetate	7.553	43	7870	1.095	ug/l #	94
38) Carbon Tetrachloride	8.347	117	6045	1.085	ug/l	84
39) Methylcyclohexane	9.582	83	5715	0.846	ug/l	87
40) Benzene	8.582	78	17750	1.069	ug/l #	88
41) Methacrylonitrile	7.759	41	3857	1.037	ug/l #	83
42) 1,2-Dichloroethane	8.659	62	6237	1.039	ug/l	99
43) Isopropyl Acetate	8.677	43	11759	1.073	ug/l #	94
44) Trichloroethene	9.335	130	4088	1.057	ug/l	73
45) 1,2-Dichloropropane	9.600	63	4559	1.082	ug/l #	78

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone
11/25/2025
Supervised By :Mahesh Dadoda
11/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	9.694	93	3080	1.022	ug/l		88
47) Bromodichloromethane	9.865	83	6445	1.068	ug/l	#	89
48) Methyl methacrylate	9.665	41	5144	1.017	ug/l	#	86
49) 1,4-Dioxane	9.688	88	1133	17.773	ug/l	#	72
51) 4-Methyl-2-Pentanone	10.429	43	28924	4.454	ug/l		97
52) Toluene	10.612	92	8872	0.875	ug/l		97
53) t-1,3-Dichloropropene	10.812	75	6068	0.947	ug/l		89
54) cis-1,3-Dichloropropene	10.294	75	6312	0.928	ug/l		94
55) 1,1,2-Trichloroethane	11.000	97	3748	0.969	ug/l	#	72
56) Ethyl methacrylate	10.859	69	4463	0.723	ug/l	#	72
57) 1,3-Dichloropropane	11.147	76	6496	0.952	ug/l		95
58) 2-Chloroethyl Vinyl ether	10.141	63	13790	4.190	ug/l		92
59) 2-Hexanone	11.188	43	19197m	4.495	ug/l		
60) Dibromochloromethane	11.335	129	4116	0.936	ug/l		98
61) 1,2-Dibromoethane	11.447	107	3251	0.814	ug/l		96
64) Tetrachloroethene	11.076	164	3914	1.220	ug/l	#	86
65) Chlorobenzene	11.871	112	10226	0.958	ug/l	#	84
66) 1,1,1,2-Tetrachloroethane	11.941	131	3473	0.985	ug/l	#	57
67) Ethyl Benzene	11.941	91	17267	0.922	ug/l		92
68) m/p-Xylenes	12.047	106	12077	1.724	ug/l		99
69) o-Xylene	12.382	106	6153	0.927	ug/l		91
70) Styrene	12.394	104	8118	0.747	ug/l		100
71) Bromoform	12.559	173	2054	0.782	ug/l	#	82
73) Isopropylbenzene	12.676	105	13585	0.849	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.918	83	5605	1.121	ug/l	#	83
76) 1,2,3-Trichloropropane	12.982	75	4214m	0.871	ug/l		
77) Bromobenzene	12.965	156	3176	0.907	ug/l		100
78) n-propylbenzene	13.017	91	16584	0.851	ug/l		98
79) 2-Chlorotoluene	13.106	91	11013	0.981	ug/l		100
80) 1,3,5-Trimethylbenzene	13.153	105	10783	0.811	ug/l		96
82) 4-Chlorotoluene	13.212	91	8516	0.700	ug/l		84
83) tert-Butylbenzene	13.417	119	10210	0.869	ug/l		95
84) 1,2,4-Trimethylbenzene	13.465	105	10464	0.786	ug/l		89
85) sec-Butylbenzene	13.594	105	14068	0.819	ug/l		99
86) p-Isopropyltoluene	13.706	119	11043	0.798	ug/l		97
87) 1,3-Dichlorobenzene	13.712	146	7040	1.019	ug/l		95
88) 1,4-Dichlorobenzene	13.782	146	7109m	0.955	ug/l		
89) n-Butylbenzene	14.035	91	11505	0.845	ug/l		93
90) Hexachloroethane	14.312	117	2233	0.841	ug/l		98
91) 1,2-Dichlorobenzene	14.082	146	6178	0.927	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.694	75	1155	0.973	ug/l		93
93) 1,2,4-Trichlorobenzene	15.376	180	4059	1.011	ug/l		91
94) Hexachlorobutadiene	15.476	225	1474	1.002	ug/l		93
95) Naphthalene	15.623	128	11988	0.863	ug/l	#	93
96) 1,2,3-Trichlorobenzene	15.823	180	3833	0.989	ug/l		100

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088344.D
Acq On : 24 Nov 2025 12:38
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

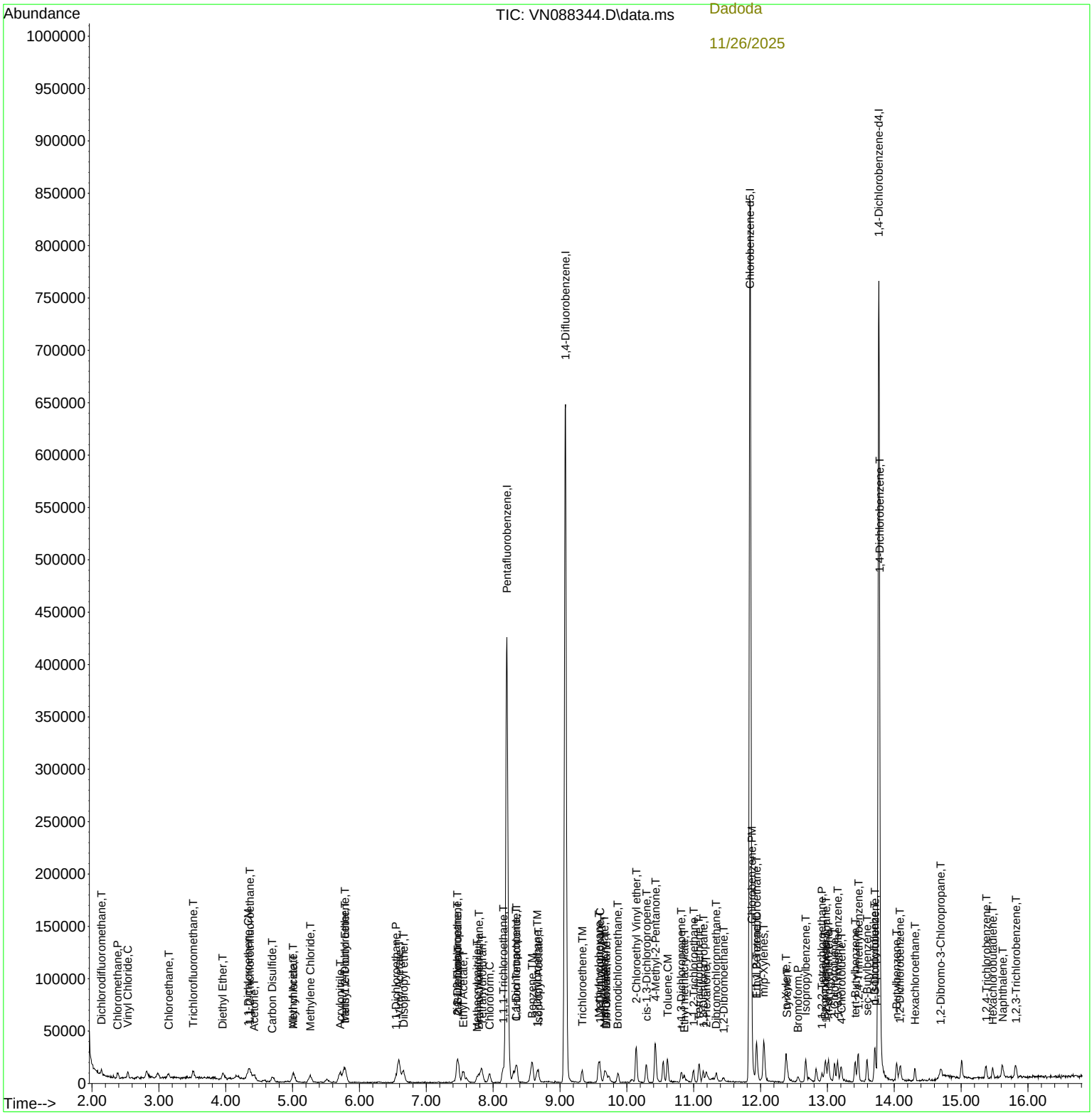
Manual Integrations APPROVED

Reviewed By :John Carlone

11/25/2025

Supervised By :Mahesh Dadoda

11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	277017	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	520222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	454370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	210682	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	26416	5.272	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.540%#			
35) Dibromofluoromethane	8.153	113	18802	5.271	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.540%#			
50) Toluene-d8	10.547	98	64962	4.778	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.560%#			
62) 4-Bromofluorobenzene	12.829	95	20929	4.383	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 8.760%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	18728	5.530	ug/l	78
3) Chloromethane	2.383	50	22161	5.630	ug/l	96
4) Vinyl Chloride	2.536	62	23377	5.542	ug/l	95
5) Bromomethane	2.971	94	11265	4.586	ug/l	89
6) Chloroethane	3.142	64	13946	4.694	ug/l	90
7) Trichlorofluoromethane	3.512	101	32404	4.974	ug/l	99
8) Diethyl Ether	3.959	74	12500	5.022	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	17577	5.203	ug/l	97
10) Methyl Iodide	4.577	142	13782	4.252	ug/l #	86
11) Tert butyl alcohol	5.524	59	20975	23.946	ug/l	98
12) 1,1-Dichloroethene	4.342	96	17186	4.802	ug/l #	75
13) Acrolein	4.171	56	20281	21.167	ug/l	95
14) Allyl chloride	5.006	41	31674	4.939	ug/l	98
15) Acrylonitrile	5.706	53	60208	25.303	ug/l	99
16) Acetone	4.424	43	49209	20.327	ug/l	97
17) Carbon Disulfide	4.695	76	56594	5.124	ug/l	98
18) Methyl Acetate	5.012	43	29034	5.519	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	62035	4.613	ug/l	96
20) Methylene Chloride	5.271	84	20834	4.915	ug/l #	80
21) trans-1,2-Dichloroethene	5.777	96	18495	4.671	ug/l	96
22) Diisopropyl ether	6.653	45	66886	4.963	ug/l	94
23) Vinyl Acetate	6.589	43	260201m	21.808	ug/l	
24) 1,1-Dichloroethane	6.547	63	39629	5.298	ug/l	98
25) 2-Butanone	7.465	43	74555	22.648	ug/l	97
26) 2,2-Dichloropropane	7.465	77	31387	4.669	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	22190	4.838	ug/l	96
28) Bromochloromethane	7.794	49	19995	5.723	ug/l	99
29) Tetrahydrofuran	7.824	42	54983	25.113	ug/l	100
30) Chloroform	7.953	83	37740	5.081	ug/l	99
31) Cyclohexane	8.241	56	40171	5.829	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	33772	5.154	ug/l #	85
36) 1,1-Dichloropropene	8.347	75	28193	5.368	ug/l	96
37) Ethyl Acetate	7.547	43	35286	5.054	ug/l	98
38) Carbon Tetrachloride	8.341	117	26194	4.839	ug/l	89
39) Methylcyclohexane	9.583	83	28179	4.292	ug/l	95
40) Benzene	8.588	78	80904	5.014	ug/l	91

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	16819	4.652	ug/l		95
42) 1,2-Dichloroethane	8.653	62	31962	5.480	ug/l		98
43) Isopropyl Acetate	8.677	43	52990	4.976	ug/l		99
44) Trichloroethene	9.335	130	20005	5.321	ug/l		89
45) 1,2-Dichloropropane	9.600	63	20897	5.101	ug/l		96
46) Dibromomethane	9.688	93	15209	5.195	ug/l		98
47) Bromodichloromethane	9.865	83	30479	5.198	ug/l	#	91
48) Methyl methacrylate	9.665	41	22513	4.579	ug/l		95
49) 1,4-Dioxane	9.688	88	6435	103.870	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.424	43	160328	25.401	ug/l		100
52) Toluene	10.606	92	46057	4.673	ug/l		99
53) t-1,3-Dichloropropene	10.812	75	28774	4.621	ug/l		98
54) cis-1,3-Dichloropropene	10.288	75	32170	4.869	ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	18669	4.965	ug/l		96
56) Ethyl methacrylate	10.859	69	25089	4.184	ug/l		98
57) 1,3-Dichloropropane	11.141	76	33183	5.006	ug/l		96
58) 2-Chloroethyl Vinyl ether	10.141	63	83959	26.251	ug/l		98
59) 2-Hexanone	11.182	43	78248	18.852	ug/l		96
60) Dibromochloromethane	11.335	129	20078	4.697	ug/l		96
61) 1,2-Dibromoethane	11.447	107	19090	4.919	ug/l		95
64) Tetrachloroethene	11.077	164	17642	5.552	ug/l		92
65) Chlorobenzene	11.871	112	51903	4.912	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.935	131	16899	4.842	ug/l		95
67) Ethyl Benzene	11.941	91	84509	4.556	ug/l		97
68) m/p-Xylenes	12.047	106	62717	9.044	ug/l		96
69) o-Xylene	12.382	106	28111	4.278	ug/l		94
70) Styrene	12.394	104	46583	4.327	ug/l		99
71) Bromoform	12.565	173	12418	4.774	ug/l	#	98
73) Isopropylbenzene	12.676	105	74324	4.486	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.918	83	25666	4.956	ug/l		99
76) 1,2,3-Trichloropropane	12.971	75	25268m	5.045	ug/l		
77) Bromobenzene	12.959	156	18654	5.143	ug/l		93
78) n-propylbenzene	13.018	91	89952	4.455	ug/l		97
79) 2-Chlorotoluene	13.106	91	58975	5.072	ug/l		99
80) 1,3,5-Trimethylbenzene	13.153	105	62949	4.574	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.729	75	7483	4.106	ug/l	#	78
82) 4-Chlorotoluene	13.200	91	59617	4.734	ug/l		97
83) tert-Butylbenzene	13.418	119	51988	4.275	ug/l		99
84) 1,2,4-Trimethylbenzene	13.465	105	59560	4.319	ug/l		99
85) sec-Butylbenzene	13.594	105	76137	4.278	ug/l		99
86) p-Isopropyltoluene	13.706	119	59155	4.127	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	33144	4.633	ug/l		97
88) 1,4-Dichlorobenzene	13.788	146	38453	4.987	ug/l		93
89) n-Butylbenzene	14.035	91	56132	3.979	ug/l		99
90) Hexachloroethane	14.312	117	11594	4.214	ug/l		98
91) 1,2-Dichlorobenzene	14.088	146	33169	4.804	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.700	75	5979	4.862	ug/l		93
93) 1,2,4-Trichlorobenzene	15.370	180	18203	4.379	ug/l		99
94) Hexachlorobutadiene	15.476	225	6667	4.376	ug/l		95
95) Naphthalene	15.617	128	60329	4.195	ug/l		98
96) 1,2,3-Trichlorobenzene	15.817	180	17918	4.465	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

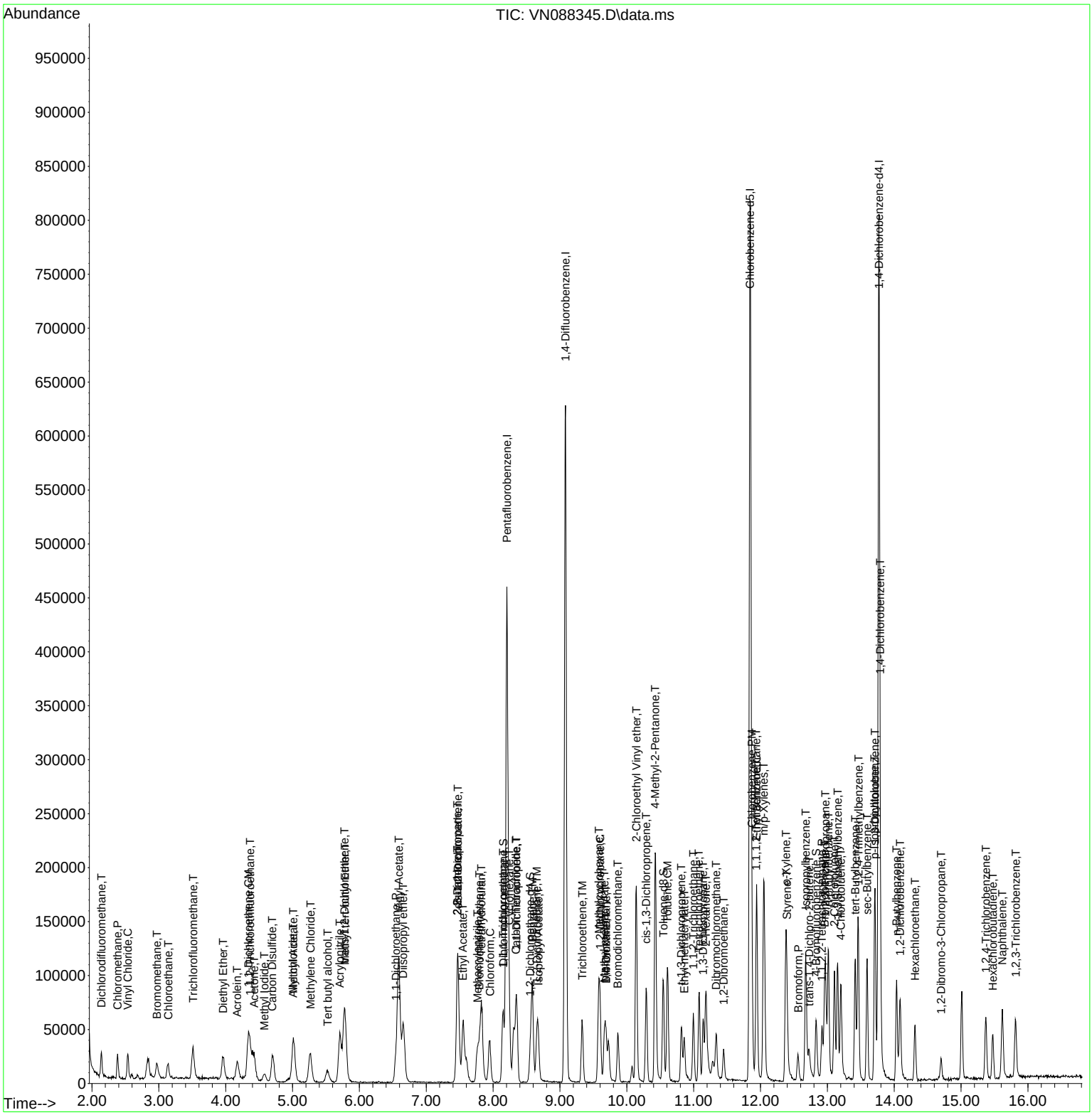
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088345.D
Acq On : 24 Nov 2025 13:11
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 01:10:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	289343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	521967	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	446626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	210470	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	106028	20.258	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 40.520%#			
35) Dibromofluoromethane	8.147	113	73055	20.412	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 40.820%#			
50) Toluene-d8	10.547	98	269703	19.772	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 39.540%#			
62) 4-Bromofluorobenzene	12.823	95	86319	18.015	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 36.020%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	92076	26.032	ug/l	100
3) Chloromethane	2.383	50	93182	22.664	ug/l	98
4) Vinyl Chloride	2.542	62	99078	22.487	ug/l	96
5) Bromomethane	2.983	94	45414	17.699	ug/l	100
6) Chloroethane	3.142	64	57451	18.515	ug/l	96
7) Trichlorofluoromethane	3.518	101	135233	19.875	ug/l	92
8) Diethyl Ether	3.965	74	45755	17.600	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	73956	20.959	ug/l	98
10) Methyl Iodide	4.583	142	67559	19.958	ug/l	92
11) Tert butyl alcohol	5.518	59	86464	94.506	ug/l	98
12) 1,1-Dichloroethene	4.341	96	69587	18.614	ug/l	85
13) Acrolein	4.177	56	76430	76.371	ug/l	97
14) Allyl chloride	5.012	41	129326	19.307	ug/l	97
15) Acrylonitrile	5.712	53	250269	100.698	ug/l	99
16) Acetone	4.424	43	186448	73.735	ug/l	96
17) Carbon Disulfide	4.706	76	236468	20.496	ug/l	96
18) Methyl Acetate	5.018	43	110778	20.161	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	259864	18.502	ug/l	94
20) Methylene Chloride	5.265	84	81446	18.395	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	78223	18.913	ug/l	98
22) Diisopropyl ether	6.659	45	282262	20.050	ug/l	96
23) Vinyl Acetate	6.588	43	1155611m	92.730	ug/l	
24) 1,1-Dichloroethane	6.553	63	156012	19.969	ug/l	100
25) 2-Butanone	7.471	43	316859	92.154	ug/l	99
26) 2,2-Dichloropropane	7.471	77	137140	19.531	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	91877	19.178	ug/l	97
28) Bromochloromethane	7.794	49	79117	21.681	ug/l	100
29) Tetrahydrofuran	7.829	42	228189	99.785	ug/l	99
30) Chloroform	7.953	83	156345	20.153	ug/l	99
31) Cyclohexane	8.235	56	146307	20.327	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	137952	20.154	ug/l	98
36) 1,1-Dichloropropene	8.353	75	110824	21.032	ug/l	98
37) Ethyl Acetate	7.547	43	151153	21.576	ug/l	99
38) Carbon Tetrachloride	8.347	117	114374	21.060	ug/l	95
39) Methylcyclohexane	9.582	83	126502	19.203	ug/l	96
40) Benzene	8.588	78	335961	20.753	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	73287	20.203	ug/l		96
42) 1,2-Dichloroethane	8.653	62	124453	21.266	ug/l		98
43) Isopropyl Acetate	8.671	43	221861	20.765	ug/l		98
44) Trichloroethene	9.329	130	79876	21.175	ug/l		91
45) 1,2-Dichloropropane	9.600	63	83979	20.433	ug/l	#	87
46) Dibromomethane	9.688	93	60253	20.513	ug/l		98
47) Bromodichloromethane	9.865	83	122415	20.808	ug/l		93
48) Methyl methacrylate	9.659	41	102560	20.792	ug/l		97
49) 1,4-Dioxane	9.676	88	28593	459.989	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.423	43	689576	108.887	ug/l		99
52) Toluene	10.612	92	196223	19.843	ug/l		99
53) t-1,3-Dichloropropene	10.818	75	124926	19.996	ug/l		99
54) cis-1,3-Dichloropropene	10.288	75	131162	19.787	ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	75992	20.142	ug/l		96
56) Ethyl methacrylate	10.853	69	116597	19.380	ug/l		97
57) 1,3-Dichloropropane	11.141	76	135028	20.301	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	347449	108.270	ug/l		98
59) 2-Hexanone	11.176	43	424244	101.867	ug/l		98
60) Dibromochloromethane	11.335	129	84716	19.753	ug/l		99
61) 1,2-Dibromoethane	11.447	107	76002	19.518	ug/l		99
64) Tetrachloroethene	11.076	164	73746	23.611	ug/l		96
65) Chlorobenzene	11.870	112	207406	19.968	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.935	131	70330	20.500	ug/l		98
67) Ethyl Benzene	11.941	91	359781	19.735	ug/l		96
68) m/p-Xylenes	12.047	106	274942	40.335	ug/l		99
69) o-Xylene	12.376	106	128919	19.957	ug/l		96
70) Styrene	12.388	104	207850	19.642	ug/l		99
71) Bromoform	12.559	173	50951	19.929	ug/l	#	98
73) Isopropylbenzene	12.670	105	332053	20.064	ug/l		100
74) N-amyl acetate	12.682	43	98732m	20.946	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.917	83	103664	20.037	ug/l		97
76) 1,2,3-Trichloropropane	12.970	75	106718m	21.331	ug/l		
77) Bromobenzene	12.959	156	72921	20.125	ug/l		98
78) n-propylbenzene	13.011	91	414648	20.557	ug/l		99
79) 2-Chlorotoluene	13.100	91	240017	20.663	ug/l		100
80) 1,3,5-Trimethylbenzene	13.147	105	279116	20.300	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.717	75	30676	16.850	ug/l	#	72
82) 4-Chlorotoluene	13.200	91	247131	19.645	ug/l		97
83) tert-Butylbenzene	13.417	119	233493	19.219	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	278702	20.229	ug/l		98
85) sec-Butylbenzene	13.594	105	334307	18.805	ug/l		99
86) p-Isopropyltoluene	13.706	119	280364	19.577	ug/l		99
87) 1,3-Dichlorobenzene	13.711	146	144838	20.267	ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	150329	19.514	ug/l		99
89) n-Butylbenzene	14.035	91	265582	18.845	ug/l		99
90) Hexachloroethane	14.311	117	48067	17.489	ug/l		97
91) 1,2-Dichlorobenzene	14.088	146	133291	19.325	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	23868	19.429	ug/l		99
93) 1,2,4-Trichlorobenzene	15.370	180	75854	18.265	ug/l		95
94) Hexachlorobutadiene	15.470	225	29359	19.288	ug/l		98
95) Naphthalene	15.611	128	266281	18.533	ug/l		99
96) 1,2,3-Trichlorobenzene	15.817	180	74795	18.658	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

ICAL Form

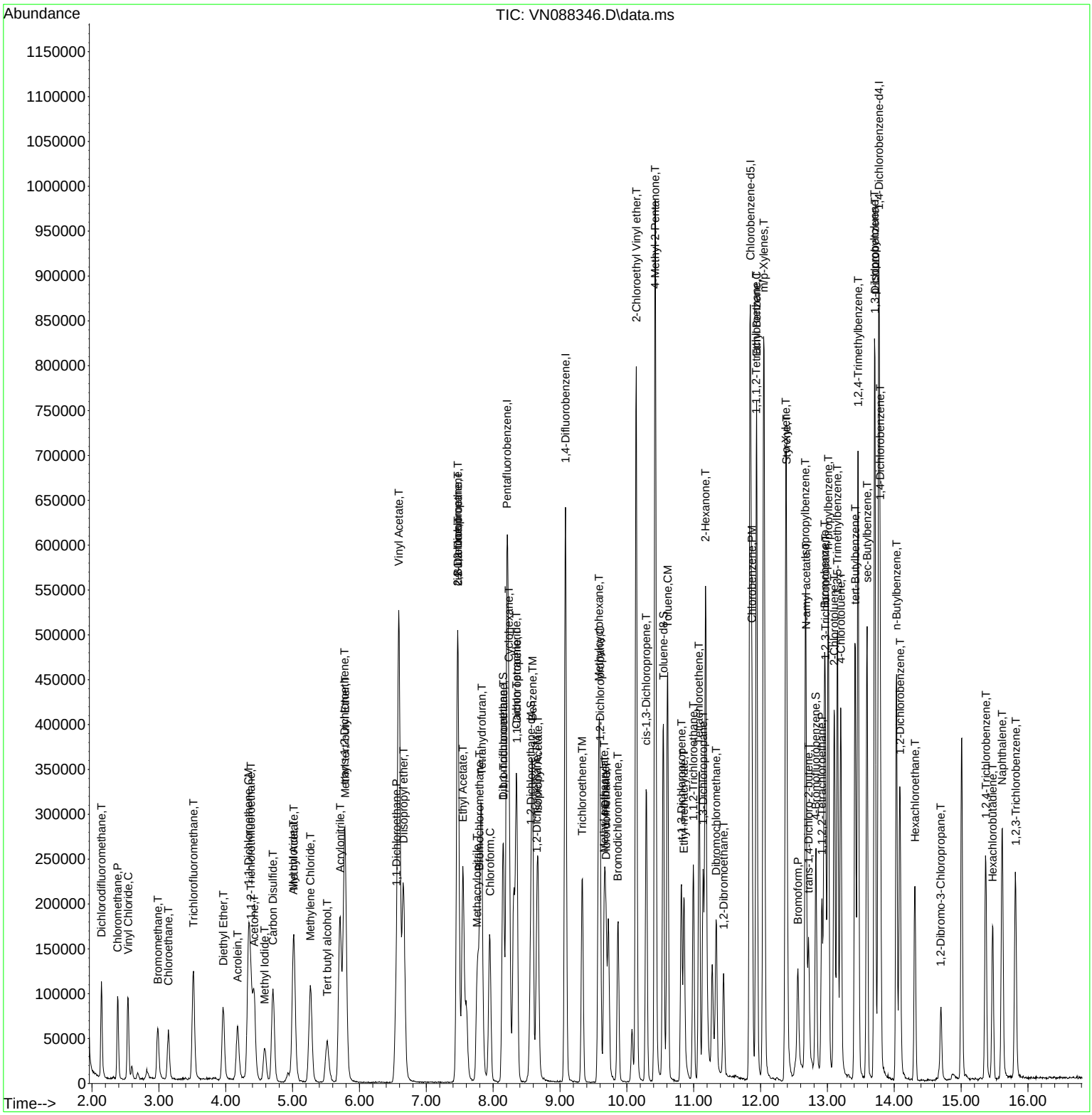
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088346.D
Acq On : 24 Nov 2025 13:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 01:10:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	254412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	480905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	425874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	208615	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	254050	55.205	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.400%			
35) Dibromofluoromethane	8.153	113	168216	51.013	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.020%			
50) Toluene-d8	10.547	98	618062	49.180	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.360%			
62) 4-Bromofluorobenzene	12.823	95	215443	48.802	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	188518	60.616	ug/l	100
3) Chloromethane	2.383	50	203776	56.367	ug/l	100
4) Vinyl Chloride	2.536	62	206493	53.300	ug/l	100
5) Bromomethane	2.977	94	100800	44.679	ug/l	100
6) Chloroethane	3.142	64	128383	47.055	ug/l	100
7) Trichlorofluoromethane	3.512	101	277710	46.418	ug/l	100
8) Diethyl Ether	3.959	74	112943	49.408	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	143560	46.270	ug/l	100
10) Methyl Iodide	4.589	142	168409	56.580	ug/l	100
11) Tert butyl alcohol	5.512	59	205132	254.997	ug/l	100
12) 1,1-Dichloroethene	4.336	96	144499	43.959	ug/l	100
13) Acrolein	4.177	56	191880	218.057	ug/l	100
14) Allyl chloride	5.012	41	292223	49.615	ug/l	100
15) Acrylonitrile	5.706	53	593191	271.445	ug/l	100
16) Acetone	4.418	43	425884	191.549	ug/l	100
17) Carbon Disulfide	4.706	76	504570	49.738	ug/l	100
18) Methyl Acetate	5.018	43	266978	55.261	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	637167	51.594	ug/l	100
20) Methylene Chloride	5.265	84	192304	49.396	ug/l	100
21) trans-1,2-Dichloroethene	5.771	96	174454	47.971	ug/l	100
22) Diisopropyl ether	6.659	45	656293	53.019	ug/l	100
23) Vinyl Acetate	6.588	43	2718764m	248.116	ug/l	
24) 1,1-Dichloroethane	6.559	63	362987	52.841	ug/l	100
25) 2-Butanone	7.465	43	757688	250.619	ug/l	100
26) 2,2-Dichloropropane	7.471	77	306308	49.612	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	210902	50.066	ug/l	100
28) Bromochloromethane	7.794	49	186871	58.241	ug/l	100
29) Tetrahydrofuran	7.824	42	545947	271.517	ug/l	100
30) Chloroform	7.947	83	354218	51.927	ug/l	100
31) Cyclohexane	8.235	56	288267	45.549	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	294555	48.942	ug/l	100
36) 1,1-Dichloropropene	8.353	75	236320	48.678	ug/l	100
37) Ethyl Acetate	7.547	43	346328	53.657	ug/l	100
38) Carbon Tetrachloride	8.347	117	240067	47.979	ug/l	100
39) Methylcyclohexane	9.582	83	253638	41.789	ug/l	100
40) Benzene	8.588	78	749637	50.260	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.759	41	171571	51.334 ug/l	100
42) 1,2-Dichloroethane	8.653	62	295993	54.896 ug/l	100
43) Isopropyl Acetate	8.671	43	536716	54.522 ug/l	100
44) Trichloroethene	9.329	130	171828	49.440 ug/l	100
45) 1,2-Dichloropropane	9.600	63	195340	51.585 ug/l	100
46) Dibromomethane	9.688	93	140875	52.056 ug/l	100
47) Bromodichloromethane	9.871	83	283447	52.293 ug/l	100
48) Methyl methacrylate	9.659	41	246767	54.300 ug/l	100
49) 1,4-Dioxane	9.676	88	63666	1111.677 ug/l #	100
51) 4-Methyl-2-Pentanone	10.423	43	1618000	277.304 ug/l	100
52) Toluene	10.606	92	439167	48.202 ug/l	100
53) t-1,3-Dichloropropene	10.812	75	303537	52.732 ug/l	100
54) cis-1,3-Dichloropropene	10.294	75	318360	52.127 ug/l	100
55) 1,1,2-Trichloroethane	10.994	97	169966	48.898 ug/l	100
56) Ethyl methacrylate	10.853	69	296224	53.440 ug/l	100
57) 1,3-Dichloropropane	11.141	76	309692	50.536 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	875006	295.946 ug/l	100
59) 2-Hexanone	11.176	43	1048582	273.278 ug/l	100
60) Dibromochloromethane	11.335	129	196756	49.794 ug/l	100
61) 1,2-Dibromoethane	11.447	107	177630	49.512 ug/l	100
64) Tetrachloroethene	11.082	164	160566	53.914 ug/l	100
65) Chlorobenzene	11.870	112	471088	47.564 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	162993	49.826 ug/l	100
67) Ethyl Benzene	11.941	91	825262	47.473 ug/l	100
68) m/p-Xylenes	12.047	106	624414	96.067 ug/l	100
69) o-Xylene	12.376	106	296307	48.105 ug/l	100
70) Styrene	12.388	104	508032	50.349 ug/l	100
71) Bromoform	12.559	173	121394	49.795 ug/l #	100
73) Isopropylbenzene	12.670	105	756073	46.091 ug/l	100
74) N-amyl acetate	12.500	43	218031	46.667 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.917	83	235147	45.856 ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	250728m	50.561 ug/l	
77) Bromobenzene	12.959	156	179949	50.105 ug/l	100
78) n-propylbenzene	13.012	91	926041	46.319 ug/l	100
79) 2-Chlorotoluene	13.100	91	563004	48.901 ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	636506	46.704 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.717	75	89717	49.717 ug/l #	100
82) 4-Chlorotoluene	13.200	91	595484	47.756 ug/l	100
83) tert-Butylbenzene	13.412	119	523419	43.467 ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	649135	47.534 ug/l	100
85) sec-Butylbenzene	13.594	105	752927	42.729 ug/l	100
86) p-Isopropyltoluene	13.706	119	635661	44.782 ug/l	100
87) 1,3-Dichlorobenzene	13.711	146	334974	47.290 ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	350784	45.940 ug/l	100
89) n-Butylbenzene	14.035	91	599399	42.911 ug/l	100
90) Hexachloroethane	14.306	117	111560	40.952 ug/l	100
91) 1,2-Dichlorobenzene	14.082	146	317314	46.414 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	60137	49.387 ug/l	100
93) 1,2,4-Trichlorobenzene	15.364	180	185506	45.066 ug/l	100
94) Hexachlorobutadiene	15.470	225	61955	41.064 ug/l	100
95) Naphthalene	15.611	128	686671	48.217 ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	182475	45.925 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

ICAL Form

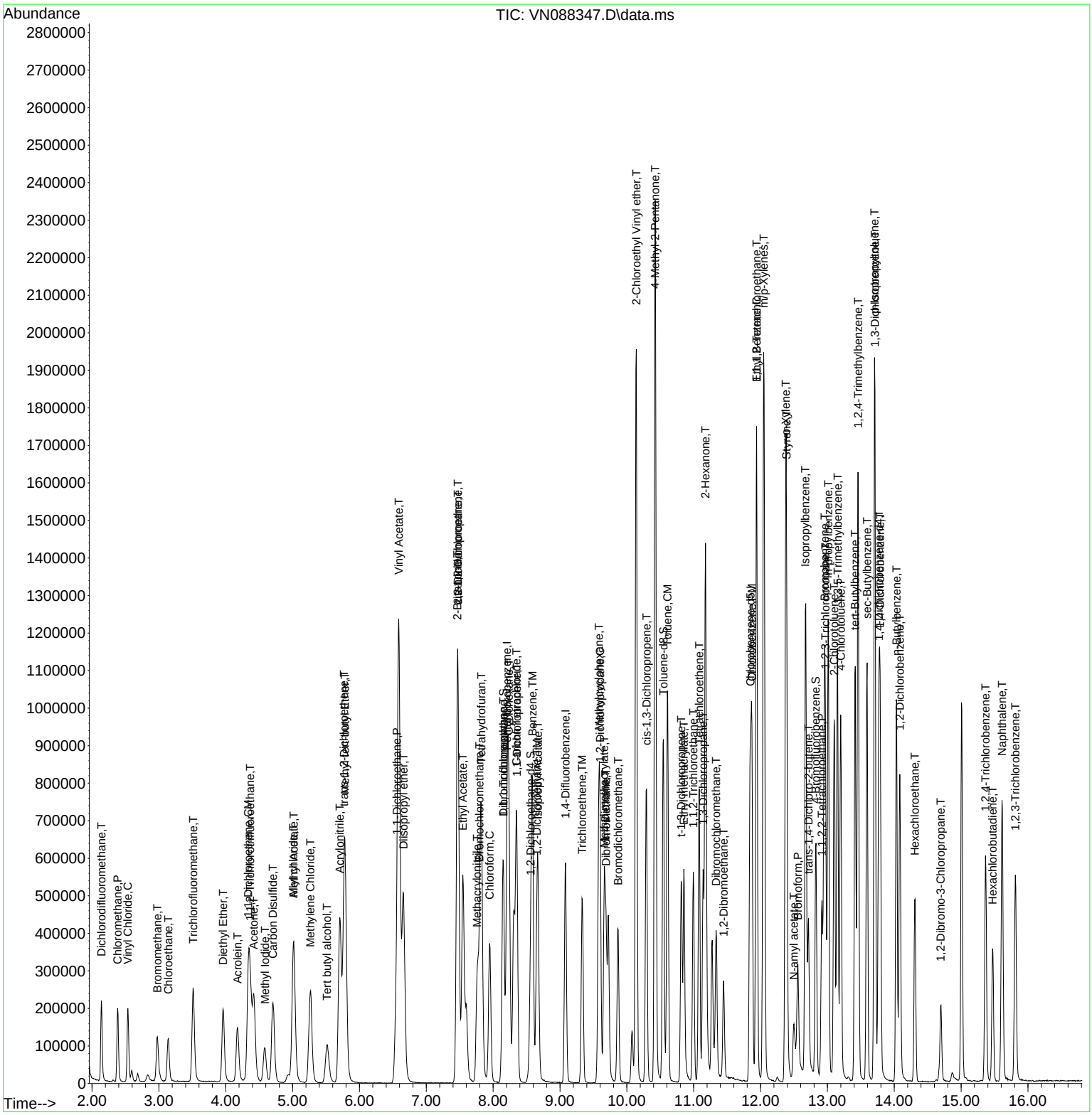
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088347.D
Acq On : 24 Nov 2025 13:53
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 25 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	285895	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	501695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	439316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	219473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	504045	97.467	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 194.940%#			
35) Dibromofluoromethane	8.147	113	335348	97.484	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 194.960%#			
50) Toluene-d8	10.547	98	1312124	100.081	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.160%#			
62) 4-Bromofluorobenzene	12.829	95	467895	101.595	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 203.200%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	479358	137.160	ug/l	100
3) Chloromethane	2.383	50	434116	106.858	ug/l	98
4) Vinyl Chloride	2.536	62	478320	109.869	ug/l	98
5) Bromomethane	2.965	94	221311	87.292	ug/l	99
6) Chloroethane	3.130	64	287091	93.637	ug/l	96
7) Trichlorofluoromethane	3.506	101	686944	102.176	ug/l	99
8) Diethyl Ether	3.959	74	229525	89.352	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	361718	103.745	ug/l	100
10) Methyl Iodide	4.577	142	377533	112.872	ug/l	97
11) Tert butyl alcohol	5.524	59	406566	449.741	ug/l	100
12) 1,1-Dichloroethene	4.336	96	340010	92.046	ug/l	96
13) Acrolein	4.177	56	409205	413.820	ug/l	99
14) Allyl chloride	5.012	41	647046m	97.762	ug/l	
15) Acrylonitrile	5.706	53	1189524	484.386	ug/l	99
16) Acetone	4.418	43	872591	349.245	ug/l	98
17) Carbon Disulfide	4.706	76	1141513	100.133	ug/l	99
18) Methyl Acetate	5.018	43	555796	102.374	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	1295144	93.325	ug/l	100
20) Methylene Chloride	5.265	84	392179	89.644	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	369984	90.533	ug/l	98
22) Diisopropyl ether	6.659	45	1349029	96.981	ug/l	97
23) Vinyl Acetate	6.589	43	5554188m	451.061	ug/l	
24) 1,1-Dichloroethane	6.553	63	755476	97.866	ug/l	98
25) 2-Butanone	7.471	43	1542855	454.129	ug/l	97
26) 2,2-Dichloropropane	7.477	77	672523	96.933	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	427126	90.230	ug/l	98
28) Bromochloromethane	7.800	49	356867	98.975	ug/l	99
29) Tetrahydrofuran	7.824	42	1096740	485.379	ug/l	99
30) Chloroform	7.947	83	738399	96.326	ug/l	100
31) Cyclohexane	8.241	56	707339	99.459	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	666887	98.605	ug/l	98
36) 1,1-Dichloropropene	8.353	75	549319	108.461	ug/l	99
37) Ethyl Acetate	7.547	43	682857	101.412	ug/l	99
38) Carbon Tetrachloride	8.341	117	571861	109.553	ug/l	97
39) Methylcyclohexane	9.577	83	663987	104.863	ug/l	96
40) Benzene	8.588	78	1564367	100.538	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	349832	100.333	ug/l		98
42) 1,2-Dichloroethane	8.653	62	599011	106.490	ug/l		100
43) Isopropyl Acetate	8.671	43	1079559	105.122	ug/l		99
44) Trichloroethene	9.335	130	372568	102.756	ug/l		98
45) 1,2-Dichloropropane	9.600	63	396928	100.477	ug/l		96
46) Dibromomethane	9.688	93	284059	100.615	ug/l		99
47) Bromodichloromethane	9.871	83	585372	103.520	ug/l		100
48) Methyl methacrylate	9.659	41	512503	108.100	ug/l		99
49) 1,4-Dioxane	9.682	88	124110	2077.291	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.424	43	3302590	542.564	ug/l		100
52) Toluene	10.606	92	962754	101.291	ug/l		98
53) t-1,3-Dichloropropene	10.818	75	633621	105.515	ug/l		99
54) cis-1,3-Dichloropropene	10.294	75	656506	103.040	ug/l		97
55) 1,1,2-Trichloroethane	10.994	97	342175	94.361	ug/l		97
56) Ethyl methacrylate	10.853	69	625749	108.210	ug/l		99
57) 1,3-Dichloropropane	11.141	76	640348	100.162	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	1692209	548.624	ug/l		100
59) 2-Hexanone	11.177	43	2217550	553.982	ug/l		99
60) Dibromochloromethane	11.335	129	410889	99.677	ug/l		98
61) 1,2-Dibromoethane	11.447	107	368152	98.366	ug/l		100
64) Tetrachloroethene	11.082	164	357404	116.335	ug/l		95
65) Chlorobenzene	11.871	112	1006420	98.505	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.941	131	338748	100.385	ug/l		99
67) Ethyl Benzene	11.941	91	1873691	104.486	ug/l		99
68) m/p-Xylenes	12.047	106	1384206	206.446	ug/l		97
69) o-Xylene	12.376	106	657970	103.552	ug/l		99
70) Styrene	12.388	104	1127962	108.366	ug/l		99
71) Bromoform	12.559	173	265738	105.669	ug/l	#	98
73) Isopropylbenzene	12.671	105	1773457	102.764	ug/l		100
74) N-amyl acetate	12.488	43	587472	119.520	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.918	83	498007	92.311	ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	516579m	99.018	ug/l		
77) Bromobenzene	12.959	156	379553	100.455	ug/l		99
78) n-propylbenzene	13.012	91	2164268	102.898	ug/l		99
79) 2-Chlorotoluene	13.106	91	1244218	102.723	ug/l		99
80) 1,3,5-Trimethylbenzene	13.153	105	1451677	101.248	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.718	75	198381	104.496	ug/l	#	88
82) 4-Chlorotoluene	13.200	91	1292288	98.511	ug/l		100
83) tert-Butylbenzene	13.418	119	1236180	97.579	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	1467849	102.168	ug/l		98
85) sec-Butylbenzene	13.594	105	1809286	97.599	ug/l		100
86) p-Isopropyltoluene	13.706	119	1507703	100.961	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	735647	98.718	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	746880	92.975	ug/l		99
89) n-Butylbenzene	14.035	91	1480732	100.761	ug/l		99
90) Hexachloroethane	14.312	117	265251	92.554	ug/l		99
91) 1,2-Dichlorobenzene	14.082	146	700211	97.354	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	131734	102.833	ug/l		99
93) 1,2,4-Trichlorobenzene	15.364	180	419347	96.834	ug/l		97
94) Hexachlorobutadiene	15.476	225	155408	97.909	ug/l		97
95) Naphthalene	15.612	128	1528952	102.050	ug/l		99
96) 1,2,3-Trichlorobenzene	15.812	180	408194	97.651	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

ICAL Form

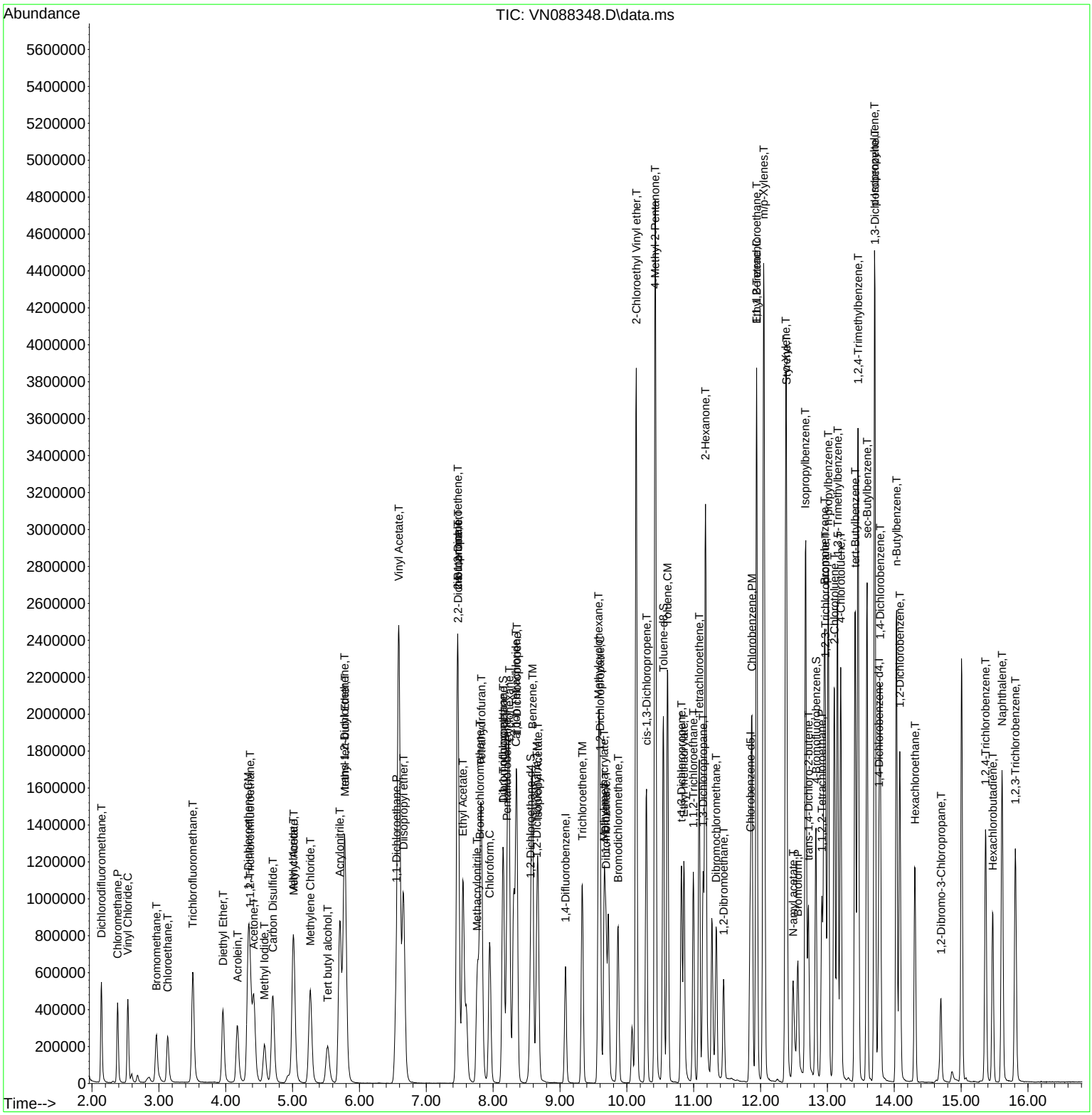
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088348.D
Acq On : 24 Nov 2025 14:14
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 01:12:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	278091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	508326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	457447	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	800654	159.167	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 318.340%#			
35) Dibromofluoromethane	8.147	113	514160	147.513	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 295.020%#			
50) Toluene-d8	10.547	98	2002008	150.709	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 301.420%#			
62) 4-Bromofluorobenzene	12.829	95	734676	157.441	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 314.880%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	614298	180.703	ug/l	97
3) Chloromethane	2.383	50	637070	161.216	ug/l	98
4) Vinyl Chloride	2.536	62	643786	152.025	ug/l	99
5) Bromomethane	2.948	94	327351	132.741	ug/l	99
6) Chloroethane	3.124	64	404469	135.623	ug/l	99
7) Trichlorofluoromethane	3.506	101	880178	134.591	ug/l	97
8) Diethyl Ether	3.959	74	342692	137.150	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	461517	136.083	ug/l	99
10) Methyl Iodide	4.583	142	530186	162.959	ug/l	96
11) Tert butyl alcohol	5.524	59	615624	700.111	ug/l	99
12) 1,1-Dichloroethene	4.336	96	461833	128.534	ug/l	95
13) Acrolein	4.177	56	614784	639.165	ug/l	98
14) Allyl chloride	5.012	41	947252m	147.136	ug/l	
15) Acrylonitrile	5.706	53	1745154	730.587	ug/l	100
16) Acetone	4.418	43	1310595	539.272	ug/l	100
17) Carbon Disulfide	4.700	76	1529256	137.911	ug/l	99
18) Methyl Acetate	5.018	43	822075	155.669	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	1946194	144.173	ug/l	97
20) Methylene Chloride	5.259	84	565609	132.915	ug/l	99
21) trans-1,2-Dichloroethene	5.771	96	522186	131.362	ug/l	100
22) Diisopropyl ether	6.659	45	2022262	149.459	ug/l	98
23) Vinyl Acetate	6.589	43	8352858m	697.381	ug/l	
24) 1,1-Dichloroethane	6.553	63	1073175	142.923	ug/l	98
25) 2-Butanone	7.471	43	2317712	701.347	ug/l	96
26) 2,2-Dichloropropane	7.477	77	948461	140.541	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	621100	134.889	ug/l	99
28) Bromochloromethane	7.794	49	498418	142.113	ug/l	100
29) Tetrahydrofuran	7.824	42	1661991	756.181	ug/l	99
30) Chloroform	7.947	83	1072381	143.821	ug/l	95
31) Cyclohexane	8.236	56	925517	133.789	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	920717	139.956	ug/l	96
36) 1,1-Dichloropropene	8.353	75	747080	145.584	ug/l	100
37) Ethyl Acetate	7.547	43	1038194	152.172	ug/l	100
38) Carbon Tetrachloride	8.341	117	776182	146.756	ug/l	96
39) Methylcyclohexane	9.583	83	856176	133.452	ug/l	96
40) Benzene	8.588	78	2252306	142.862	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.759	41	533051	150.887 ug/l		98
42) 1,2-Dichloroethane	8.653	62	895667	157.152 ug/l		99
43) Isopropyl Acetate	8.671	43	1638317	157.450 ug/l		99
44) Trichloroethene	9.335	130	529981	144.265 ug/l		98
45) 1,2-Dichloropropane	9.600	63	581336	145.238 ug/l		95
46) Dibromomethane	9.688	93	422737	147.782 ug/l		100
47) Bromodichloromethane	9.871	83	863631	150.736 ug/l		100
48) Methyl methacrylate	9.665	41	781838	162.758 ug/l		99
49) 1,4-Dioxane	9.683	88	191377	3161.388 ug/l	#	97
51) 4-Methyl-2-Pentanone	10.424	43	4963362	804.767 ug/l		99
52) Toluene	10.612	92	1389323	144.264 ug/l		99
53) t-1,3-Dichloropropene	10.818	75	953623	156.732 ug/l		99
54) cis-1,3-Dichloropropene	10.294	75	975877	151.168 ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	513073	139.644 ug/l		99
56) Ethyl methacrylate	10.853	69	954630	162.929 ug/l		99
57) 1,3-Dichloropropane	11.141	76	948252	146.389 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	2298552	735.483 ug/l		100
59) 2-Hexanone	11.177	43	3427514	845.082 ug/l		99
60) Dibromochloromethane	11.335	129	615359	147.332 ug/l		98
61) 1,2-Dibromoethane	11.447	107	548222	144.568 ug/l		99
64) Tetrachloroethene	11.082	164	503663	157.444 ug/l		98
65) Chlorobenzene	11.871	112	1467895	137.978 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.941	131	494738	140.800 ug/l		98
67) Ethyl Benzene	11.941	91	2679329	143.490 ug/l		99
68) m/p-Xylenes	12.047	106	1999338	286.370 ug/l		98
69) o-Xylene	12.376	106	971419	146.823 ug/l		99
70) Styrene	12.388	104	1660474	153.203 ug/l		99
71) Bromoform	12.559	173	404703	154.550 ug/l	#	99
73) Isopropylbenzene	12.671	105	2520465	141.411 ug/l		99
74) N-amyl acetate	12.482	43	1006304	198.228 ug/l	#	95
75) 1,1,2,2-Tetrachloroethane	12.918	83	735899	132.074 ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	778772m	144.533 ug/l		
77) Bromobenzene	12.959	156	554789	142.170 ug/l		97
78) n-propylbenzene	13.012	91	3057578	140.752 ug/l		100
79) 2-Chlorotoluene	13.100	91	1823307	145.751 ug/l		100
80) 1,3,5-Trimethylbenzene	13.153	105	2086957	140.933 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.718	75	314465	160.381 ug/l	#	91
82) 4-Chlorotoluene	13.200	91	1905793	140.664 ug/l		99
83) tert-Butylbenzene	13.418	119	1733611	132.498 ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	2111285	142.286 ug/l		99
85) sec-Butylbenzene	13.594	105	2498053	130.473 ug/l		100
86) p-Isopropyltoluene	13.706	119	2089505	135.476 ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	1070574	139.099 ug/l		100
88) 1,4-Dichlorobenzene	13.788	146	1093471	131.796 ug/l		99
89) n-Butylbenzene	14.035	91	2025634	133.462 ug/l		99
90) Hexachloroethane	14.306	117	376335	127.143 ug/l		99
91) 1,2-Dichlorobenzene	14.082	146	1023417	137.771 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	204222	154.355 ug/l		100
93) 1,2,4-Trichlorobenzene	15.365	180	623560	139.416 ug/l		99
94) Hexachlorobutadiene	15.470	225	208495	127.182 ug/l		97
95) Naphthalene	15.612	128	2308447	149.183 ug/l		99
96) 1,2,3-Trichlorobenzene	15.812	180	605584	140.271 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

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

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

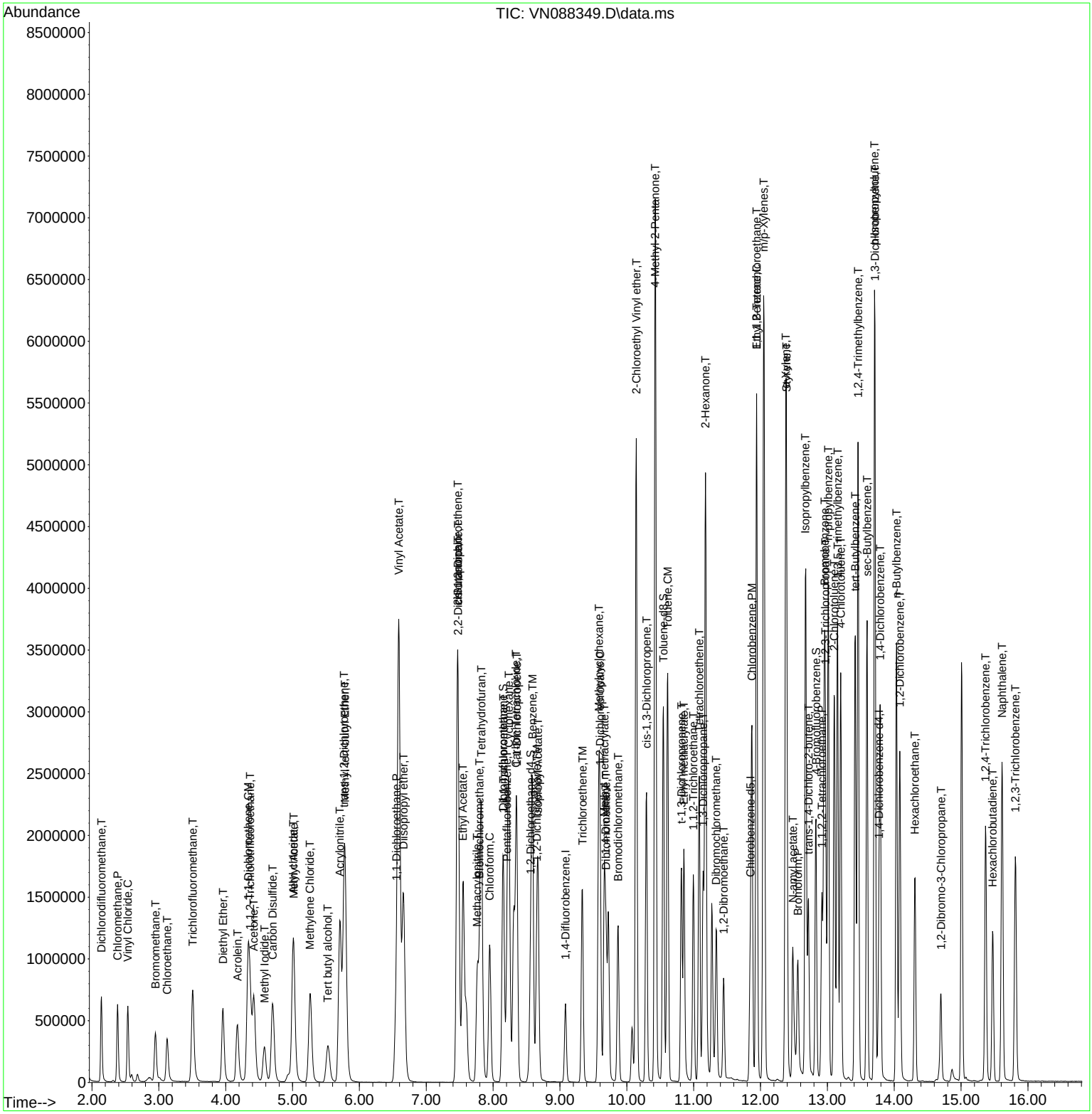
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088349.D
Acq On : 24 Nov 2025 14:35
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 25 01:13:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:08:44 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	264693	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	504031	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	443578	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	211823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	234844	47.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.200%			
35) Dibromofluoromethane	8.153	113	152840	43.757	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 87.520%			
50) Toluene-d8	10.547	98	574351	44.193	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.380%			
62) 4-Bromofluorobenzene	12.829	95	199878	44.823	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	204306	51.389	ug/l	96
3) Chloromethane	2.383	50	224506	52.578	ug/l	98
4) Vinyl Chloride	2.536	62	216512	49.842	ug/l	99
5) Bromomethane	2.977	94	113722	54.393	ug/l	95
6) Chloroethane	3.142	64	138310	51.450	ug/l	96
7) Trichlorofluoromethane	3.512	101	304206	49.826	ug/l	96
8) Diethyl Ether	3.965	74	122332	53.384	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	153067	47.094	ug/l	96
10) Methyl Iodide	4.589	142	173671	53.976	ug/l	95
11) Tert butyl alcohol	5.518	59	213569	268.272	ug/l	99
12) 1,1-Dichloroethene	4.342	96	158096	48.957	ug/l	94
13) Acrolein	4.177	56	203235	266.656	ug/l	99
14) Allyl chloride	5.018	41	321979	53.793	ug/l	99
15) Acrylonitrile	5.706	53	637644	277.614	ug/l	99
16) Acetone	4.418	43	450459	249.797	ug/l	100
17) Carbon Disulfide	4.706	76	544067	51.558	ug/l	100
18) Methyl Acetate	5.018	43	290918	54.196	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	694497	57.401	ug/l	95
20) Methylene Chloride	5.265	84	208952	54.158	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	191102	53.421	ug/l	99
22) Diisopropyl ether	6.653	45	719883	56.335	ug/l	97
23) Vinyl Acetate	6.588	43	2915087m	283.141	ug/l	
24) 1,1-Dichloroethane	6.559	63	394512	54.516	ug/l	99
25) 2-Butanone	7.471	43	807706	278.613	ug/l	97
26) 2,2-Dichloropropane	7.471	77	337031	53.957	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	223944	53.866	ug/l	99
28) Bromochloromethane	7.794	49	167723	46.526	ug/l	100
29) Tetrahydrofuran	7.824	42	581218	279.515	ug/l	99
30) Chloroform	7.947	83	383675	53.957	ug/l	95
31) Cyclohexane	8.241	56	316159	48.211	ug/l	94
32) 1,1,1-Trichloroethane	8.147	97	319795	51.150	ug/l	100
36) 1,1-Dichloropropene	8.353	75	253183	46.967	ug/l	98
37) Ethyl Acetate	7.547	43	364546	51.431	ug/l	99
38) Carbon Tetrachloride	8.341	117	262078	48.837	ug/l	98
39) Methylcyclohexane	9.577	83	276272	47.913	ug/l	98
40) Benzene	8.588	78	803742	50.800	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	189164	53.883	ug/l		98
42) 1,2-Dichloroethane	8.653	62	318757	52.806	ug/l		99
43) Isopropyl Acetate	8.671	43	575762	53.165	ug/l		100
44) Trichloroethene	9.335	130	184844	49.444	ug/l		97
45) 1,2-Dichloropropane	9.600	63	211177	52.095	ug/l		96
46) Dibromomethane	9.688	93	152417	52.686	ug/l		100
47) Bromodichloromethane	9.871	83	307856	52.155	ug/l		100
48) Methyl methacrylate	9.665	41	269474	54.535	ug/l		99
49) 1,4-Dioxane	9.682	88	64188	1021.452	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.424	43	1745522	273.447	ug/l		100
52) Toluene	10.612	92	475044	51.998	ug/l		100
53) t-1,3-Dichloropropene	10.812	75	323712	53.428	ug/l		97
54) cis-1,3-Dichloropropene	10.294	75	344582	54.081	ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	182138	51.530	ug/l		98
56) Ethyl methacrylate	10.853	69	323702	57.977	ug/l		98
57) 1,3-Dichloropropane	11.141	76	338609	53.102	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.141	63	851755	264.613	ug/l		100
59) 2-Hexanone	11.176	43	1118254	278.086	ug/l		99
60) Dibromochloromethane	11.341	129	212150	52.650	ug/l		98
61) 1,2-Dibromoethane	11.447	107	191658	53.546	ug/l		99
64) Tetrachloroethene	11.082	164	164101	46.666	ug/l		96
65) Chlorobenzene	11.871	112	512644	51.452	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.941	131	174200	51.838	ug/l		98
67) Ethyl Benzene	11.941	91	899198	51.635	ug/l		100
68) m/p-Xylenes	12.047	106	679183	105.191	ug/l		99
69) o-Xylene	12.376	106	322403	52.376	ug/l		100
70) Styrene	12.388	104	550033	55.031	ug/l		100
71) Bromoform	12.559	173	132448	53.811	ug/l	#	100
73) Isopropylbenzene	12.670	105	827973	52.866	ug/l		100
74) N-amyl acetate	12.500	43	221082m	41.449	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.917	83	253948	50.155	ug/l		100
76) 1,2,3-Trichloropropane	12.970	75	269266m	54.274	ug/l		
77) Bromobenzene	12.959	156	191381	53.406	ug/l		98
78) n-propylbenzene	13.012	91	1004887	52.446	ug/l		100
79) 2-Chlorotoluene	13.106	91	599091	51.202	ug/l		99
80) 1,3,5-Trimethylbenzene	13.153	105	687007	52.936	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.717	75	96389	55.117	ug/l	#	95
82) 4-Chlorotoluene	13.200	91	628637	54.093	ug/l		99
83) tert-Butylbenzene	13.417	119	569932	51.660	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	703272	54.519	ug/l		98
85) sec-Butylbenzene	13.594	105	812817	51.285	ug/l		100
86) p-Isopropyltoluene	13.706	119	678617	52.216	ug/l		98
87) 1,3-Dichlorobenzene	13.712	146	357734	51.282	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	372290	50.949	ug/l		98
89) n-Butylbenzene	14.035	91	644062	51.040	ug/l		99
90) Hexachloroethane	14.306	117	118158	49.768	ug/l		97
91) 1,2-Dichlorobenzene	14.082	146	344212	52.435	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	62186	50.621	ug/l		98
93) 1,2,4-Trichlorobenzene	15.370	180	200095	51.301	ug/l		99
94) Hexachlorobutadiene	15.476	225	64430	45.969	ug/l		97
95) Naphthalene	15.611	128	719827	53.258	ug/l		99
96) 1,2,3-Trichlorobenzene	15.811	180	188353	49.620	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
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Sample : VSTDICV050
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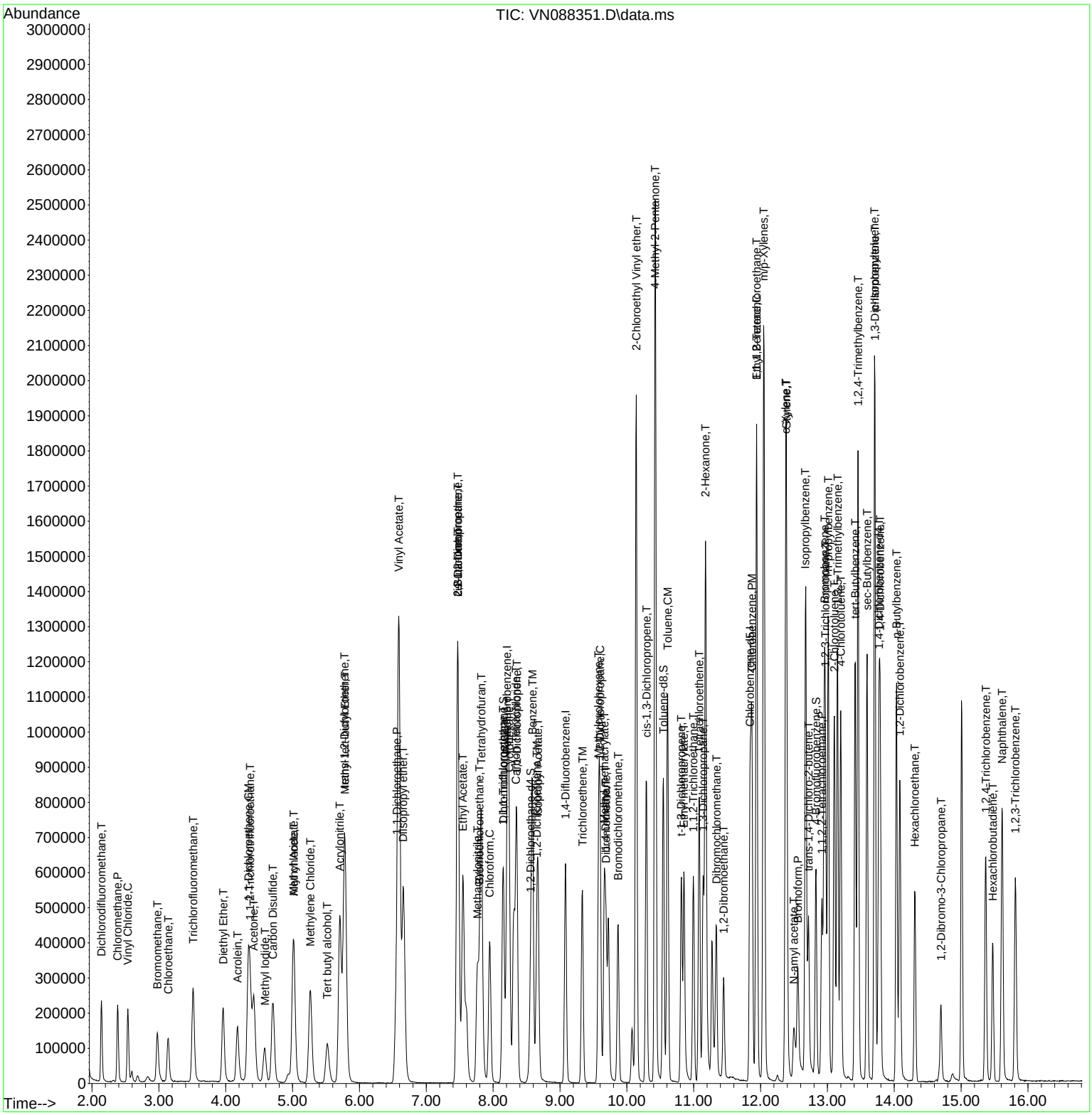
Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2025
Supervised By :Mahesh Dadoda 11/26/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	104	0.00
2	T	Dichlorodifluoromethane	0.751	0.772	-2.8	108	0.00
3	P	Chloromethane	0.807	0.848	-5.1	110	0.00
4	C	Vinyl Chloride	0.821	0.818	0.4#	105	0.00
5	T	Bromomethane	0.395	0.430	-8.9	113	0.00
6	T	Chloroethane	0.508	0.523	-3.0	108	0.00
7	T	Trichlorofluoromethane	1.153	1.149	0.3	110	0.00
8	T	Diethyl Ether	0.433	0.462	-6.7	108	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.578	5.9	107	0.00
10	T	Methyl Iodide	0.608	0.656	-7.9	103	0.00
11	T	Tert butyl alcohol	0.150	0.161	-7.3	104	0.00
12	CM	1,1-Dichloroethene	0.610	0.597	2.1#	109	0.00
13	T	Acrolein	0.144	0.154	-6.9	106	0.00
14	T	Allyl chloride	1.131	1.216	-7.5	110	0.00
15	T	Acrylonitrile	0.434	0.482	-11.1	107	0.00
16	T	Acetone	0.341	0.340	0.3	106	0.00
17	T	Carbon Disulfide	1.993	2.055	-3.1	108	0.00
18	T	Methyl Acetate	1.014	1.099	-8.4	109	0.00
19	T	Methyl tert-butyl Ether	2.285	2.624	-14.8	109	0.00
20	T	Methylene Chloride	0.729	0.789	-8.2	109	0.00
21	T	trans-1,2-Dichloroethene	0.676	0.722	-6.8	110	0.00
22	T	Diisopropyl ether	2.414	2.720	-12.7	110	0.00
23	T	Vinyl Acetate	1.945	2.203	-13.3	107	0.00
24	P	1,1-Dichloroethane	1.367	1.490	-9.0	109	0.00
25	T	2-Butanone	0.548	0.610	-11.3	107	0.00
26	T	2,2-Dichloropropane	1.180	1.273	-7.9	110	0.00
27	T	cis-1,2-Dichloroethene	0.785	0.846	-7.8	106	0.00
28	T	Bromochloromethane	0.681	0.634	6.9	90	0.00
29	T	Tetrahydrofuran	0.393	0.439	-11.7	106	0.00
30	C	Chloroform	1.343	1.450	-8.0#	108	0.00
31	T	Cyclohexane	1.239	1.194	3.6	110	0.00
32	T	1,1,1-Trichloroethane	1.181	1.208	-2.3	109	0.00
33	S	1,2-Dichloroethane-d4	0.942	0.887	5.8	92	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.346	0.303	12.4	91	0.00
36	T	1,1-Dichloropropene	0.535	0.502	6.2	107	0.00
37	T	Ethyl Acetate	0.703	0.723	-2.8	105	0.00
38	T	Carbon Tetrachloride	0.532	0.520	2.3	109	0.00
39	T	Methylcyclohexane	0.572	0.548	4.2	109	0.00
40	TM	Benzene	1.570	1.595	-1.6	107	0.00
41	T	Methacrylonitrile	0.348	0.375	-7.8	110	0.00
42	TM	1,2-Dichloroethane	0.599	0.632	-5.5	108	0.00
43	T	Isopropyl Acetate	1.074	1.142	-6.3	107	0.00
44	TM	Trichloroethene	0.371	0.367	1.1	108	0.00
45	C	1,2-Dichloropropane	0.402	0.419	-4.2#	108	0.00
46	T	Dibromomethane	0.287	0.302	-5.2	108	0.00
47	T	Bromodichloromethane	0.586	0.611	-4.3	109	0.00
48	T	Methyl methacrylate	0.490	0.535	-9.2	109	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	101	0.00
50	S	Toluene-d8	1.289	1.140	11.6	93	0.00
51	T	4-Methyl-2-Pentanone	0.633	0.693	-9.5	108	0.00
52	CM	Toluene	0.906	0.942	-4.0#	108	0.00
53	T	t-1,3-Dichloropropene	0.601	0.642	-6.8	107	0.00
54	T	cis-1,3-Dichloropropene	0.632	0.684	-8.2	108	0.00
55	T	1,1,2-Trichloroethane	0.351	0.361	-2.8	107	0.00
56	T	Ethyl methacrylate	0.554	0.642	-15.9	109	0.00
57	T	1,3-Dichloropropane	0.633	0.672	-6.2	109	0.00
58	T	2-Chloroethyl Vinyl ether	0.319	0.338	-6.0	97	0.00
59	T	2-Hexanone	0.399	0.444	-11.3	107	0.00
60	T	Dibromochloromethane	0.400	0.421	-5.2	108	0.00
61	T	1,2-Dibromoethane	0.355	0.380	-7.0	108	0.00
62	S	4-Bromofluorobenzene	0.442	0.397	10.2	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.396	0.370	6.6	102	0.00
65	PM	Chlorobenzene	1.123	1.156	-2.9	109	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.393	-3.7	107	0.00
67	C	Ethyl Benzene	1.963	2.027	-3.3#	109	0.00
68	T	m/p-Xylenes	0.728	0.766	-5.2	109	0.00
69	T	o-Xylene	0.694	0.727	-4.8	109	0.00
70	T	Styrene	1.127	1.240	-10.0	108	0.00
71	P	Bromoform	0.277	0.299	-7.9	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.697	3.909	-5.7	110	0.00
74	T	N-amyl acetate	1.259	1.044	17.1	101	0.00
75	P	1,1,2,2-Tetrachloroethane	1.195	1.199	-0.3	108	0.00
76	T	1,2,3-Trichloropropane	1.171	1.271	-8.5	107	0.00
77	T	Bromobenzene	0.846	0.903	-6.7	106	0.00
78	T	n-propylbenzene	4.523	4.744	-4.9	109	0.00
79	T	2-Chlorotoluene	2.762	2.828	-2.4	106	0.00
80	T	1,3,5-Trimethylbenzene	3.063	3.243	-5.9	108	0.00
81	T	trans-1,4-Dichloro-2-butene	0.413	0.455	-10.2	107	0.00
82	T	4-Chlorotoluene	2.743	2.968	-8.2	106	0.00
83	T	tert-Butylbenzene	2.604	2.691	-3.3	109	0.00
84	T	1,2,4-Trimethylbenzene	3.045	3.320	-9.0	108	0.00
85	T	sec-Butylbenzene	3.741	3.837	-2.6	108	0.00
86	T	p-Isopropyltoluene	3.068	3.204	-4.4	107	0.00
87	T	1,3-Dichlorobenzene	1.647	1.689	-2.6	107	0.00
88	T	1,4-Dichlorobenzene	1.725	1.758	-1.9	106	0.00
89	T	n-Butylbenzene	2.979	3.041	-2.1	107	0.00
90	T	Hexachloroethane	0.560	0.558	0.4	106	0.00
91	T	1,2-Dichlorobenzene	1.550	1.625	-4.8	108	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.290	0.294	-1.4	103	0.00
93	T	1,2,4-Trichlorobenzene	0.921	0.945	-2.6	108	0.00
94	T	Hexachlorobutadiene	0.331	0.304	8.2	104	0.00
95	T	Naphthalene	3.190	3.398	-6.5	105	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	0.896	0.889	0.8	103	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
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Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	104	0.00
2	T	Dichlorodifluoromethane	50.000	51.389	-2.8	108	0.00
3	P	Chloromethane	50.000	52.578	-5.2	110	0.00
4	C	Vinyl Chloride	50.000	49.842	0.3#	105	0.00
5	T	Bromomethane	50.000	54.393	-8.8	113	0.00
6	T	Chloroethane	50.000	51.450	-2.9	108	0.00
7	T	Trichlorofluoromethane	50.000	49.826	0.3	110	0.00
8	T	Diethyl Ether	50.000	53.384	-6.8	108	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.094	5.8	107	0.00
10	T	Methyl Iodide	50.000	53.976	-8.0	103	0.00
11	T	Tert butyl alcohol	250.000	268.272	-7.3	104	0.00
12	CM	1,1-Dichloroethene	50.000	48.957	2.1#	109	0.00
13	T	Acrolein	250.000	266.656	-6.7	106	0.00
14	T	Allyl chloride	50.000	53.793	-7.6	110	0.00
15	T	Acrylonitrile	250.000	277.614	-11.0	107	0.00
16	T	Acetone	250.000	249.797	0.1	106	0.00
17	T	Carbon Disulfide	50.000	51.558	-3.1	108	0.00
18	T	Methyl Acetate	50.000	54.196	-8.4	109	0.00
19	T	Methyl tert-butyl Ether	50.000	57.401	-14.8	109	0.00
20	T	Methylene Chloride	50.000	54.158	-8.3	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.421	-6.8	110	0.00
22	T	Diisopropyl ether	50.000	56.335	-12.7	110	0.00
23	T	Vinyl Acetate	250.000	283.141	-13.3	107	0.00
24	P	1,1-Dichloroethane	50.000	54.516	-9.0	109	0.00
25	T	2-Butanone	250.000	278.613	-11.4	107	0.00
26	T	2,2-Dichloropropane	50.000	53.957	-7.9	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.866	-7.7	106	0.00
28	T	Bromochloromethane	50.000	46.526	6.9	90	0.00
29	T	Tetrahydrofuran	250.000	279.515	-11.8	106	0.00
30	C	Chloroform	50.000	53.957	-7.9#	108	0.00
31	T	Cyclohexane	50.000	48.211	3.6	110	0.00
32	T	1,1,1-Trichloroethane	50.000	51.150	-2.3	109	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.098	5.8	92	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	43.757	12.5	91	0.00
36	T	1,1-Dichloropropene	50.000	46.967	6.1	107	0.00
37	T	Ethyl Acetate	50.000	51.431	-2.9	105	0.00
38	T	Carbon Tetrachloride	50.000	48.837	2.3	109	0.00
39	T	Methylcyclohexane	50.000	47.913	4.2	109	0.00
40	TM	Benzene	50.000	50.800	-1.6	107	0.00
41	T	Methacrylonitrile	50.000	53.883	-7.8	110	0.00
42	TM	1,2-Dichloroethane	50.000	52.806	-5.6	108	0.00
43	T	Isopropyl Acetate	50.000	53.165	-6.3	107	0.00
44	TM	Trichloroethene	50.000	49.444	1.1	108	0.00
45	C	1,2-Dichloropropane	50.000	52.095	-4.2#	108	0.00
46	T	Dibromomethane	50.000	52.686	-5.4	108	0.00
47	T	Bromodichloromethane	50.000	52.155	-4.3	109	0.00
48	T	Methyl methacrylate	50.000	54.535	-9.1	109	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	1021.452	-2.1	101	0.00
50	S	Toluene-d8	50.000	44.193	11.6	93	0.00
51	T	4-Methyl-2-Pentanone	250.000	273.447	-9.4	108	0.00
52	CM	Toluene	50.000	51.998	-4.0#	108	0.00
53	T	t-1,3-Dichloropropene	50.000	53.428	-6.9	107	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.081	-8.2	108	0.00
55	T	1,1,2-Trichloroethane	50.000	51.530	-3.1	107	0.00
56	T	Ethyl methacrylate	50.000	57.977	-16.0	109	0.00
57	T	1,3-Dichloropropane	50.000	53.102	-6.2	109	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	264.613	-5.8	97	0.00
59	T	2-Hexanone	250.000	278.086	-11.2	107	0.00
60	T	Dibromochloromethane	50.000	52.650	-5.3	108	0.00
61	T	1,2-Dibromoethane	50.000	53.546	-7.1	108	0.00
62	S	4-Bromofluorobenzene	50.000	44.823	10.4	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	46.666	6.7	102	0.00
65	PM	Chlorobenzene	50.000	51.452	-2.9	109	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.838	-3.7	107	0.00
67	C	Ethyl Benzene	50.000	51.635	-3.3#	109	0.00
68	T	m/p-Xylenes	100.000	105.191	-5.2	109	0.00
69	T	o-Xylene	50.000	52.376	-4.8	109	0.00
70	T	Styrene	50.000	55.031	-10.1	108	0.00
71	P	Bromoform	50.000	53.811	-7.6	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	52.866	-5.7	110	0.00
74	T	N-amyl acetate	50.000	41.449	17.1	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.155	-0.3	108	0.00
76	T	1,2,3-Trichloropropane	50.000	54.274	-8.5	107	0.00
77	T	Bromobenzene	50.000	53.406	-6.8	106	0.00
78	T	n-propylbenzene	50.000	52.446	-4.9	109	0.00
79	T	2-Chlorotoluene	50.000	51.202	-2.4	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.936	-5.9	108	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.117	-10.2	107	0.00
82	T	4-Chlorotoluene	50.000	54.093	-8.2	106	0.00
83	T	tert-Butylbenzene	50.000	51.660	-3.3	109	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.519	-9.0	108	0.00
85	T	sec-Butylbenzene	50.000	51.285	-2.6	108	0.00
86	T	p-Isopropyltoluene	50.000	52.216	-4.4	107	0.00
87	T	1,3-Dichlorobenzene	50.000	51.282	-2.6	107	0.00
88	T	1,4-Dichlorobenzene	50.000	50.949	-1.9	106	0.00
89	T	n-Butylbenzene	50.000	51.040	-2.1	107	0.00
90	T	Hexachloroethane	50.000	49.768	0.5	106	0.00
91	T	1,2-Dichlorobenzene	50.000	52.435	-4.9	108	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.621	-1.2	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.301	-2.6	108	0.00
94	T	Hexachlorobutadiene	50.000	45.969	8.1	104	0.00
95	T	Naphthalene	50.000	53.258	-6.5	105	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088351.D
Acq On : 24 Nov 2025 15:18
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112425

Quant Time: Nov 25 01:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	49.620	0.8	103	0.00

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

Raw Data: **VN088416.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	JACO05
Lab Code:	ACE	SDG No.:	Q3756
Instrument ID:	MSVOA_N	Calibration Date/Time:	12/03/2025 10:09
Lab File ID:	VN088416.D	Init. Calib. Date(s):	11/24/2025 11/24/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	12:38 14:35

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.811		-1.22	20
1,1-Dichloroethene	0.610	0.613		0.49	20
1,1-Dichloroethane	1.367	1.405	0.1	2.78	20
cis-1,2-Dichloroethene	0.785	0.798		1.66	20
1,1,1-Trichloroethane	1.181	1.235		4.57	20
Benzene	1.570	1.684		7.26	20
1,2-Dichloroethane	0.599	0.684		14.19	20
Trichloroethene	0.371	0.368		-0.81	20
1,1,2-Trichloroethane	0.351	0.383		9.12	20
Tetrachloroethene	0.396	0.363		-8.33	20
1,2-Dichloroethane-d4	0.942	0.983		4.35	20
Dibromofluoromethane	0.346	0.378		9.25	20
Toluene-d8	1.289	1.390		7.84	20
4-Bromofluorobenzene	0.442	0.489		10.63	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	266209	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	462230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	427792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	213345	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	261610	52.167	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.340%			
35) Dibromofluoromethane	8.147	113	174831	54.580	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.160%			
50) Toluene-d8	10.541	98	642527	53.910	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.820%			
62) 4-Bromofluorobenzene	12.823	95	225998	55.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	210770	52.713	ug/l	98
3) Chloromethane	2.383	50	204982	47.732	ug/l	97
4) Vinyl Chloride	2.536	62	215956	49.431	ug/l	99
5) Bromomethane	2.977	94	97385	46.314	ug/l	97
6) Chloroethane	3.142	64	134435	49.724	ug/l	100
7) Trichlorofluoromethane	3.518	101	323024	52.607	ug/l	99
8) Diethyl Ether	3.959	74	111965	48.582	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	166272	50.865	ug/l	99
10) Methyl Iodide	4.589	142	139992	43.261	ug/l	95
11) Tert butyl alcohol	5.506	59	159327	198.997	ug/l #	84
12) 1,1-Dichloroethene	4.342	96	163270	50.271	ug/l	93
13) Acrolein	4.177	56	214176	279.411	ug/l	98
14) Allyl chloride	5.012	41	288947	48.000	ug/l	97
15) Acrylonitrile	5.706	53	568868	246.260	ug/l	99
16) Acetone	4.418	43	345446	190.472	ug/l	98
17) Carbon Disulfide	4.706	76	525851	49.548	ug/l	100
18) Methyl Acetate	5.012	43	274543	50.855	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	636852	52.337	ug/l	97
20) Methylene Chloride	5.265	84	193115	49.768	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	181773	50.524	ug/l	99
22) Diisopropyl ether	6.659	45	674973	52.520	ug/l	98
23) Vinyl Acetate	6.589	43	3046674	294.236	ug/l	99
24) 1,1-Dichloroethane	6.547	63	373923	51.377	ug/l	98
25) 2-Butanone	7.465	43	668243	229.194	ug/l	97
26) 2,2-Dichloropropane	7.471	77	325624	51.834	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	212401	50.799	ug/l	98
28) Bromochloromethane	7.794	49	188119	51.887	ug/l	98
29) Tetrahydrofuran	7.824	42	530562	253.701	ug/l	99
30) Chloroform	7.947	83	376472	52.643	ug/l	94
31) Cyclohexane	8.236	56	333083	50.503	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	328819	52.294	ug/l	100
36) 1,1-Dichloropropene	8.353	75	261538	52.904	ug/l	100
37) Ethyl Acetate	7.541	43	330927	50.910	ug/l	98
38) Carbon Tetrachloride	8.341	117	279470	56.788	ug/l	97
39) Methylcyclohexane	9.577	83	285626	54.015	ug/l	93
40) Benzene	8.588	78	778207	53.634	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	173192	53.795	ug/l		96
42) 1,2-Dichloroethane	8.647	62	316259	57.130	ug/l		98
43) Isopropyl Acetate	8.671	43	520873	52.446	ug/l		99
44) Trichloroethene	9.330	130	170049	49.600	ug/l		99
45) 1,2-Dichloropropane	9.600	63	202215	54.396	ug/l		95
46) Dibromomethane	9.688	93	144881	54.610	ug/l		98
47) Bromodichloromethane	9.865	83	296516	54.776	ug/l		96
48) Methyl methacrylate	9.659	41	252113	55.636	ug/l		98
49) 1,4-Dioxane	9.677	88	49701	862.439	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.424	43	1637165	279.666	ug/l		99
52) Toluene	10.606	92	476264	56.846	ug/l		98
53) t-1,3-Dichloropropene	10.812	75	302012	54.354	ug/l		99
54) cis-1,3-Dichloropropene	10.288	75	322568	55.204	ug/l		91
55) 1,1,2-Trichloroethane	10.994	97	177106	54.637	ug/l		97
56) Ethyl methacrylate	10.853	69	299832	58.558	ug/l		99
57) 1,3-Dichloropropane	11.141	76	317144	54.234	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.135	63	865254	293.116	ug/l		99
59) 2-Hexanone	11.177	43	1019410	276.431	ug/l		99
60) Dibromochloromethane	11.335	129	203281	55.011	ug/l		96
61) 1,2-Dibromoethane	11.447	107	176881	53.887	ug/l		99
64) Tetrachloroethene	11.082	164	155084	45.729	ug/l		96
65) Chlorobenzene	11.871	112	490827	51.080	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.935	131	169798	52.393	ug/l		97
67) Ethyl Benzene	11.941	91	896457	53.378	ug/l		99
68) m/p-Xylenes	12.047	106	677300	108.770	ug/l		98
69) o-Xylene	12.376	106	313812	52.861	ug/l		100
70) Styrene	12.388	104	541836	56.212	ug/l		99
71) Bromoform	12.559	173	127101	53.544	ug/l	#	97
73) Isopropylbenzene	12.671	105	842054	53.381	ug/l		99
74) N-amyl acetate	12.500	43	210218m	39.131	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.918	83	256612	50.320	ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	255919m	51.215	ug/l		
77) Bromobenzene	12.959	156	184770	51.194	ug/l		99
78) n-propylbenzene	13.012	91	1038692	53.824	ug/l		99
79) 2-Chlorotoluene	13.100	91	610198	51.779	ug/l		99
80) 1,3,5-Trimethylbenzene	13.147	105	710935	54.389	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.718	75	91405	51.894	ug/l	#	85
82) 4-Chlorotoluene	13.200	91	645688	55.164	ug/l		98
83) tert-Butylbenzene	13.412	119	583188	52.485	ug/l		98
84) 1,2,4-Trimethylbenzene	13.459	105	704701	54.240	ug/l		99
85) sec-Butylbenzene	13.594	105	848228	53.137	ug/l		100
86) p-Isopropyltoluene	13.706	119	704236	53.801	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	356592	50.754	ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	363362	49.372	ug/l		98
89) n-Butylbenzene	14.029	91	669720	52.694	ug/l		99
90) Hexachloroethane	14.306	117	125835	52.623	ug/l		97
91) 1,2-Dichlorobenzene	14.082	146	337073	50.982	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	61396	49.621	ug/l		94
93) 1,2,4-Trichlorobenzene	15.364	180	189586	48.260	ug/l		97
94) Hexachlorobutadiene	15.470	225	71090	50.359	ug/l		97
95) Naphthalene	15.612	128	671069	49.297	ug/l		99
96) 1,2,3-Trichlorobenzene	15.812	180	187617	49.073	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

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

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

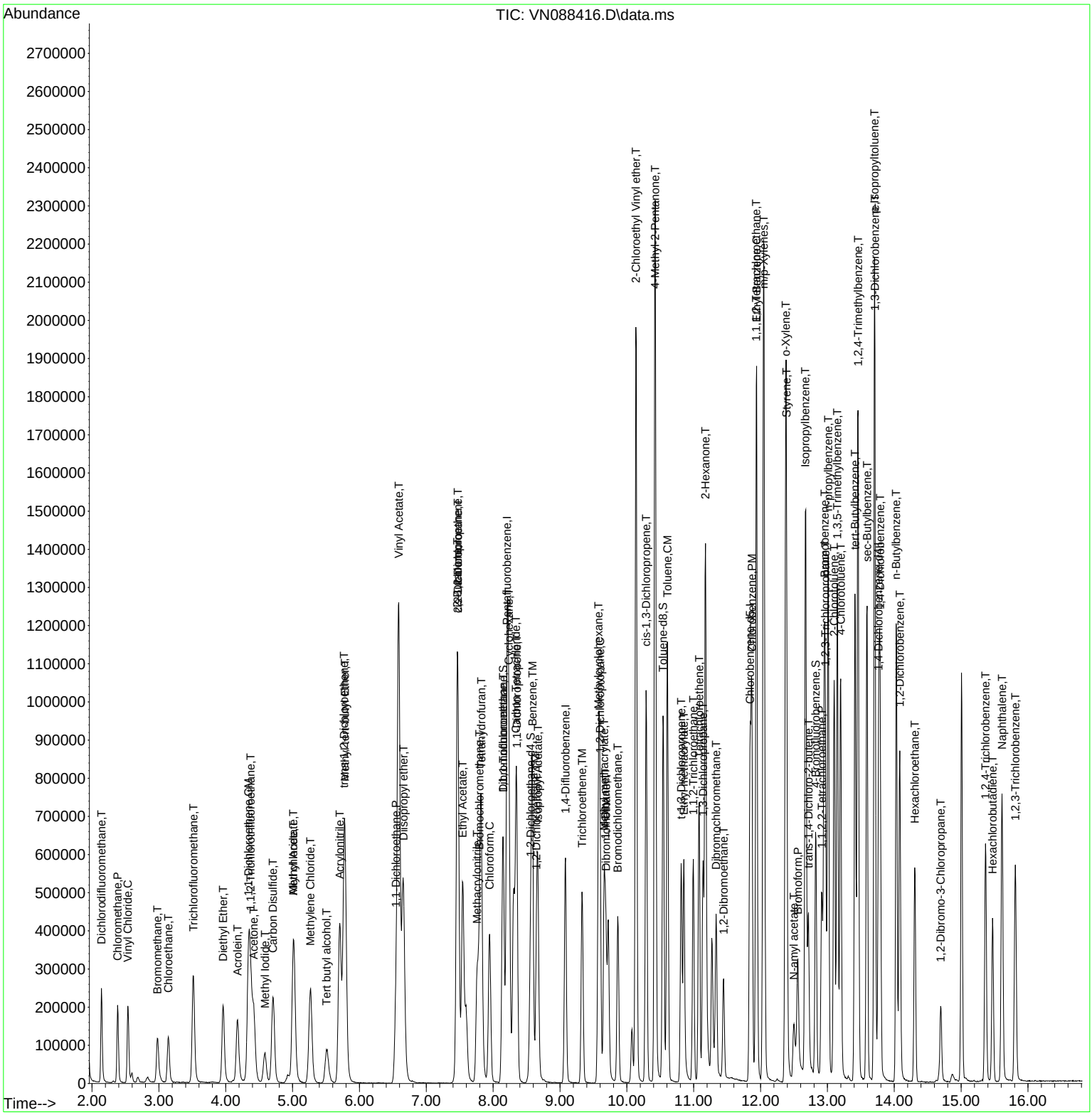
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025



Sample Results: **VN088416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.751	0.792	-5.5	112	0.00
3	P	Chloromethane	0.807	0.770	4.6	101	0.00
4	C	Vinyl Chloride	0.821	0.811	1.2#	105	0.00
5	T	Bromomethane	0.395	0.366	7.3	97	0.00
6	T	Chloroethane	0.508	0.505	0.6	105	0.00
7	T	Trichlorofluoromethane	1.153	1.213	-5.2	116	0.00
8	T	Diethyl Ether	0.433	0.421	2.8	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.625	-1.8	116	0.00
10	T	Methyl Iodide	0.608	0.526	13.5	83	0.00
11	T	Tert butyl alcohol	0.150	0.120	20.0	78	0.00
12	CM	1,1-Dichloroethene	0.610	0.613	-0.5#	113	0.00
13	T	Acrolein	0.144	0.161	-11.8	112	0.00
14	T	Allyl chloride	1.131	1.085	4.1	99	0.00
15	T	Acrylonitrile	0.434	0.427	1.6	96	0.00
16	T	Acetone	0.341	0.260	23.8	81	0.00
17	T	Carbon Disulfide	1.993	1.975	0.9	104	0.00
18	T	Methyl Acetate	1.014	1.031	-1.7	103	0.00
19	T	Methyl tert-butyl Ether	2.285	2.392	-4.7	100	0.00
20	T	Methylene Chloride	0.729	0.725	0.5	100	0.00
21	T	trans-1,2-Dichloroethene	0.676	0.683	-1.0	104	0.00
22	T	Diisopropyl ether	2.414	2.536	-5.1	103	0.00
23	T	Vinyl Acetate	1.945	2.289	-17.7	112	0.00
24	P	1,1-Dichloroethane	1.367	1.405	-2.8	103	-0.01
25	T	2-Butanone	0.548	0.502	8.4	88	0.00
26	T	2,2-Dichloropropane	1.180	1.223	-3.6	106	0.00
27	T	cis-1,2-Dichloroethene	0.785	0.798	-1.7	101	0.00
28	T	Bromochloromethane	0.681	0.707	-3.8	101	0.00
29	T	Tetrahydrofuran	0.393	0.399	-1.5	97	0.00
30	C	Chloroform	1.343	1.414	-5.3#	106	0.00
31	T	Cyclohexane	1.239	1.251	-1.0	116	0.00
32	T	1,1,1-Trichloroethane	1.181	1.235	-4.6	112	0.00
33	S	1,2-Dichloroethane-d4	0.942	0.983	-4.4	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35	S	Dibromofluoromethane	0.346	0.378	-9.2	104	0.00
36	T	1,1-Dichloropropene	0.535	0.566	-5.8	111	0.00
37	T	Ethyl Acetate	0.703	0.716	-1.8	96	0.00
38	T	Carbon Tetrachloride	0.532	0.605	-13.7	116	0.00
39	T	Methylcyclohexane	0.572	0.618	-8.0	113	0.00
40	TM	Benzene	1.570	1.684	-7.3	104	0.00
41	T	Methacrylonitrile	0.348	0.375	-7.8	101	0.00
42	TM	1,2-Dichloroethane	0.599	0.684	-14.2	107	0.00
43	T	Isopropyl Acetate	1.074	1.127	-4.9	97	0.00
44	TM	Trichloroethene	0.371	0.368	0.8	99	0.00
45	C	1,2-Dichloropropane	0.402	0.437	-8.7#	104	0.00
46	T	Dibromomethane	0.287	0.313	-9.1	103	0.00
47	T	Bromodichloromethane	0.586	0.641	-9.4	105	0.00
48	T	Methyl methacrylate	0.490	0.545	-11.2	102	0.00

Sample Results: **VN088416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	0.005	16.7	78	0.00
50	S	Toluene-d8	1.289	1.390	-7.8	104	0.00
51	T	4-Methyl-2-Pentanone	0.633	0.708	-11.8	101	0.00
52	CM	Toluene	0.906	1.030	-13.7#	108	0.00
53	T	t-1,3-Dichloropropene	0.601	0.653	-8.7	99	0.00
54	T	cis-1,3-Dichloropropene	0.632	0.698	-10.4	101	0.00
55	T	1,1,2-Trichloroethane	0.351	0.383	-9.1	104	0.00
56	T	Ethyl methacrylate	0.554	0.649	-17.1	101	0.00
57	T	1,3-Dichloropropane	0.633	0.686	-8.4	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.319	0.374	-17.2	99	0.00
59	T	2-Hexanone	0.399	0.441	-10.5	97	0.00
60	T	Dibromochloromethane	0.400	0.440	-10.0	103	0.00
61	T	1,2-Dibromoethane	0.355	0.383	-7.9	100	0.00
62	S	4-Bromofluorobenzene	0.442	0.489	-10.6	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.396	0.363	8.3	97	0.00
65	PM	Chlorobenzene	1.123	1.147	-2.1	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.397	-4.7	104	0.00
67	C	Ethyl Benzene	1.963	2.096	-6.8#	109	0.00
68	T	m/p-Xylenes	0.728	0.792	-8.8	108	0.00
69	T	o-Xylene	0.694	0.734	-5.8	106	0.00
70	T	Styrene	1.127	1.267	-12.4	107	0.00
71	P	Bromoform	0.277	0.297	-7.2	105	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.697	3.947	-6.8	111	0.00
74	T	N-amyl acetate	1.259	0.985	21.8	96	0.00
75	P	1,1,2,2-Tetrachloroethane	1.195	1.203	-0.7	109	0.00
76	T	1,2,3-Trichloropropane	1.171	1.200	-2.5	102	0.00
77	T	Bromobenzene	0.846	0.866	-2.4	103	0.00
78	T	n-propylbenzene	4.523	4.869	-7.6	112	0.00
79	T	2-Chlorotoluene	2.762	2.860	-3.5	108	0.00
80	T	1,3,5-Trimethylbenzene	3.063	3.332	-8.8	112	0.00
81	T	trans-1,4-Dichloro-2-butene	0.413	0.428	-3.6	102	0.00
82	T	4-Chlorotoluene	2.743	3.026	-10.3	108	0.00
83	T	tert-Butylbenzene	2.604	2.734	-5.0	111	0.00
84	T	1,2,4-Trimethylbenzene	3.045	3.303	-8.5	109	0.00
85	T	sec-Butylbenzene	3.741	3.976	-6.3	113	0.00
86	T	p-Isopropyltoluene	3.068	3.301	-7.6	111	0.00
87	T	1,3-Dichlorobenzene	1.647	1.671	-1.5	106	0.00
88	T	1,4-Dichlorobenzene	1.725	1.703	1.3	104	0.00
89	T	n-Butylbenzene	2.979	3.139	-5.4	112	0.00
90	T	Hexachloroethane	0.560	0.590	-5.4	113	0.00
91	T	1,2-Dichlorobenzene	1.550	1.580	-1.9	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.290	0.288	0.7	102	0.00
93	T	1,2,4-Trichlorobenzene	0.921	0.889	3.5	102	0.00
94	T	Hexachlorobutadiene	0.331	0.333	-0.6	115	0.00
95	T	Naphthalene	3.190	3.145	1.4	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	0.896	0.879	1.9	103	0.00

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

Sample Results: **VN088416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	50.000	52.713	-5.4	112	0.00
3	P	Chloromethane	50.000	47.732	4.5	101	0.00
4	C	Vinyl Chloride	50.000	49.431	1.1#	105	0.00
5	T	Bromomethane	50.000	46.314	7.4	97	0.00
6	T	Chloroethane	50.000	49.724	0.6	105	0.00
7	T	Trichlorofluoromethane	50.000	52.607	-5.2	116	0.00
8	T	Diethyl Ether	50.000	48.582	2.8	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.865	-1.7	116	0.00
10	T	Methyl Iodide	50.000	43.261	13.5	83	0.00
11	T	Tert butyl alcohol	250.000	198.997	20.4	78	0.00
12	CM	1,1-Dichloroethene	50.000	50.271	-0.5#	113	0.00
13	T	Acrolein	250.000	279.411	-11.8	112	0.00
14	T	Allyl chloride	50.000	48.000	4.0	99	0.00
15	T	Acrylonitrile	250.000	246.260	1.5	96	0.00
16	T	Acetone	250.000	190.472	23.8	81	0.00
17	T	Carbon Disulfide	50.000	49.548	0.9	104	0.00
18	T	Methyl Acetate	50.000	50.855	-1.7	103	0.00
19	T	Methyl tert-butyl Ether	50.000	52.337	-4.7	100	0.00
20	T	Methylene Chloride	50.000	49.768	0.5	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.524	-1.0	104	0.00
22	T	Diisopropyl ether	50.000	52.520	-5.0	103	0.00
23	T	Vinyl Acetate	250.000	294.236	-17.7	112	0.00
24	P	1,1-Dichloroethane	50.000	51.377	-2.8	103	-0.01
25	T	2-Butanone	250.000	229.194	8.3	88	0.00
26	T	2,2-Dichloropropane	50.000	51.834	-3.7	106	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.799	-1.6	101	0.00
28	T	Bromochloromethane	50.000	51.887	-3.8	101	0.00
29	T	Tetrahydrofuran	250.000	253.701	-1.5	97	0.00
30	C	Chloroform	50.000	52.643	-5.3#	106	0.00
31	T	Cyclohexane	50.000	50.503	-1.0	116	0.00
32	T	1,1,1-Trichloroethane	50.000	52.294	-4.6	112	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.167	-4.3	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35	S	Dibromofluoromethane	50.000	54.580	-9.2	104	0.00
36	T	1,1-Dichloropropene	50.000	52.904	-5.8	111	0.00
37	T	Ethyl Acetate	50.000	50.910	-1.8	96	0.00
38	T	Carbon Tetrachloride	50.000	56.788	-13.6	116	0.00
39	T	Methylcyclohexane	50.000	54.015	-8.0	113	0.00
40	TM	Benzene	50.000	53.634	-7.3	104	0.00
41	T	Methacrylonitrile	50.000	53.795	-7.6	101	0.00
42	TM	1,2-Dichloroethane	50.000	57.130	-14.3	107	0.00
43	T	Isopropyl Acetate	50.000	52.446	-4.9	97	0.00
44	TM	Trichloroethene	50.000	49.600	0.8	99	0.00
45	C	1,2-Dichloropropane	50.000	54.396	-8.8#	104	0.00
46	T	Dibromomethane	50.000	54.610	-9.2	103	0.00
47	T	Bromodichloromethane	50.000	54.776	-9.6	105	0.00
48	T	Methyl methacrylate	50.000	55.636	-11.3	102	0.00

Sample Results: **VN088416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	862.439	13.8	78	0.00
50	S	Toluene-d8	50.000	53.910	-7.8	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	279.666	-11.9	101	0.00
52	CM	Toluene	50.000	56.846	-13.7#	108	0.00
53	T	t-1,3-Dichloropropene	50.000	54.354	-8.7	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.204	-10.4	101	0.00
55	T	1,1,2-Trichloroethane	50.000	54.637	-9.3	104	0.00
56	T	Ethyl methacrylate	50.000	58.558	-17.1	101	0.00
57	T	1,3-Dichloropropane	50.000	54.234	-8.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	293.116	-17.2	99	0.00
59	T	2-Hexanone	250.000	276.431	-10.6	97	0.00
60	T	Dibromochloromethane	50.000	55.011	-10.0	103	0.00
61	T	1,2-Dibromoethane	50.000	53.887	-7.8	100	0.00
62	S	4-Bromofluorobenzene	50.000	55.264	-10.5	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	45.729	8.5	97	0.00
65	PM	Chlorobenzene	50.000	51.080	-2.2	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.393	-4.8	104	0.00
67	C	Ethyl Benzene	50.000	53.378	-6.8#	109	0.00
68	T	m/p-Xylenes	100.000	108.770	-8.8	108	0.00
69	T	o-Xylene	50.000	52.861	-5.7	106	0.00
70	T	Styrene	50.000	56.212	-12.4	107	0.00
71	P	Bromoform	50.000	53.544	-7.1	105	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	53.381	-6.8	111	0.00
74	T	N-amyl acetate	50.000	39.131	21.7	96	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.320	-0.6	109	0.00
76	T	1,2,3-Trichloropropane	50.000	51.215	-2.4	102	0.00
77	T	Bromobenzene	50.000	51.194	-2.4	103	0.00
78	T	n-propylbenzene	50.000	53.824	-7.6	112	0.00
79	T	2-Chlorotoluene	50.000	51.779	-3.6	108	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.389	-8.8	112	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.894	-3.8	102	0.00
82	T	4-Chlorotoluene	50.000	55.164	-10.3	108	0.00
83	T	tert-Butylbenzene	50.000	52.485	-5.0	111	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.240	-8.5	109	0.00
85	T	sec-Butylbenzene	50.000	53.137	-6.3	113	0.00
86	T	p-Isopropyltoluene	50.000	53.801	-7.6	111	0.00
87	T	1,3-Dichlorobenzene	50.000	50.754	-1.5	106	0.00
88	T	1,4-Dichlorobenzene	50.000	49.372	1.3	104	0.00
89	T	n-Butylbenzene	50.000	52.694	-5.4	112	0.00
90	T	Hexachloroethane	50.000	52.623	-5.2	113	0.00
91	T	1,2-Dichlorobenzene	50.000	50.982	-2.0	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.621	0.8	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.260	3.5	102	0.00
94	T	Hexachlorobutadiene	50.000	50.359	-0.7	115	0.00
95	T	Naphthalene	50.000	49.297	1.4	98	0.00

Sample Results: **VN088416.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088416.D
Acq On : 03 Dec 2025 10:09
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 04 00:13:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	49.073	1.9	103	0.00

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

Raw Data: **VN088437.D**

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	JACO05
Lab Code:	ACE	SDG No.:	Q3756
Instrument ID:	MSVOA_N	Calibration Date/Time:	12/04/2025 11:44
Lab File ID:	VN088437.D	Init. Calib. Date(s):	11/24/2025 11/24/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	12:38 14:35

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.817		-0.49	20
1,1-Dichloroethene	0.610	0.619		1.48	20
1,1-Dichloroethane	1.367	1.487	0.1	8.78	20
cis-1,2-Dichloroethene	0.785	0.832		5.99	20
1,1,1-Trichloroethane	1.181	1.277		8.13	20
Benzene	1.570	1.743		11.02	20
1,2-Dichloroethane	0.599	0.729		21.7	20
Trichloroethene	0.371	0.385		3.77	20
1,1,2-Trichloroethane	0.351	0.402		14.53	20
Tetrachloroethene	0.396	0.360		-9.09	20
1,2-Dichloroethane-d4	0.942	1.041		10.51	20
Dibromofluoromethane	0.346	0.396		14.45	20
Toluene-d8	1.289	1.429		10.86	20
4-Bromofluorobenzene	0.442	0.507		14.71	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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	8.206	168	259230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	454552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	431157	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	210277	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	269836	55.256	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.520%			
35) Dibromofluoromethane	8.147	113	180201	57.206	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 114.420%			
50) Toluene-d8	10.541	98	649537	55.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.840%			
62) 4-Bromofluorobenzene	12.829	95	230283	57.262	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 114.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	201478	51.745	ug/l	99
3) Chloromethane	2.383	50	206193	49.307	ug/l	96
4) Vinyl Chloride	2.536	62	211796	49.784	ug/l	100
5) Bromomethane	2.977	94	100901	49.278	ug/l	93
6) Chloroethane	3.142	64	138625	52.654	ug/l	95
7) Trichlorofluoromethane	3.512	101	324899	54.337	ug/l	99
8) Diethyl Ether	3.959	74	117687	52.439	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	164403	51.647	ug/l	99
10) Methyl Iodide	4.583	142	141417	44.878	ug/l	92
11) Tert butyl alcohol	5.524	59	174143	223.357	ug/l	98
12) 1,1-Dichloroethene	4.336	96	160467	50.738	ug/l	93
13) Acrolein	4.171	56	216629	290.220	ug/l	98
14) Allyl chloride	5.018	41	291153	49.668	ug/l	96
15) Acrylonitrile	5.706	53	590127	262.341	ug/l	99
16) Acetone	4.418	43	408907	231.533	ug/l	100
17) Carbon Disulfide	4.706	76	513890	49.724	ug/l	99
18) Methyl Acetate	5.012	43	289409	55.051	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	650434	54.892	ug/l	95
20) Methylene Chloride	5.265	84	193652	51.250	ug/l	95
21) trans-1,2-Dichloroethene	5.771	96	182717	52.153	ug/l	99
22) Diisopropyl ether	6.659	45	700009	55.934	ug/l	98
23) Vinyl Acetate	6.589	43	3136556	311.072	ug/l	99
24) 1,1-Dichloroethane	6.553	63	385388	54.378	ug/l	99
25) 2-Butanone	7.465	43	739812	260.572	ug/l	98
26) 2,2-Dichloropropane	7.471	77	326583	53.386	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	215724	52.983	ug/l	99
28) Bromochloromethane	7.794	49	199532	56.516	ug/l	97
29) Tetrahydrofuran	7.818	42	562734	276.329	ug/l	99
30) Chloroform	7.947	83	392592	56.375	ug/l	99
31) Cyclohexane	8.241	56	322585	50.228	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	331052	54.066	ug/l	99
36) 1,1-Dichloropropene	8.347	75	262020	53.897	ug/l	99
37) Ethyl Acetate	7.542	43	348681	54.547	ug/l	100
38) Carbon Tetrachloride	8.341	117	280878	58.038	ug/l	96
39) Methylcyclohexane	9.577	83	272178	52.341	ug/l	94
40) Benzene	8.583	78	792340	55.531	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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	7.759	41	184821	58.376	ug/l		96
42) 1,2-Dichloroethane	8.647	62	331550	60.904	ug/l		97
43) Isopropyl Acetate	8.671	43	542837	55.581	ug/l		100
44) Trichloroethene	9.330	130	174795	51.846	ug/l		96
45) 1,2-Dichloropropane	9.594	63	210122	57.477	ug/l		96
46) Dibromomethane	9.688	93	150122	57.541	ug/l		98
47) Bromodichloromethane	9.865	83	307416	57.749	ug/l		97
48) Methyl methacrylate	9.659	41	262024	58.800	ug/l		97
49) 1,4-Dioxane	9.677	88	58650	1034.918	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.424	43	1723595	299.404	ug/l		100
52) Toluene	10.606	92	480292	58.295	ug/l		98
53) t-1,3-Dichloropropene	10.812	75	312027	57.105	ug/l		98
54) cis-1,3-Dichloropropene	10.288	75	330756	57.561	ug/l		97
55) 1,1,2-Trichloroethane	10.994	97	182938	57.390	ug/l		98
56) Ethyl methacrylate	10.853	69	311735	61.911	ug/l		98
57) 1,3-Dichloropropane	11.141	76	332821	57.876	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.135	63	883178	304.242	ug/l		100
59) 2-Hexanone	11.177	43	1099155	303.090	ug/l		100
60) Dibromochloromethane	11.335	129	214567	59.046	ug/l		99
61) 1,2-Dibromoethane	11.447	107	184522	57.164	ug/l		99
64) Tetrachloroethene	11.077	164	155230	45.415	ug/l		97
65) Chlorobenzene	11.871	112	504973	52.142	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.935	131	177636	54.384	ug/l		98
67) Ethyl Benzene	11.941	91	910559	53.794	ug/l		100
68) m/p-Xylenes	12.047	106	690769	110.067	ug/l		100
69) o-Xylene	12.376	106	319328	53.371	ug/l		97
70) Styrene	12.388	104	558388	57.477	ug/l		99
71) Bromoform	12.559	173	134945	56.405	ug/l	#	99
73) Isopropylbenzene	12.671	105	846156	54.424	ug/l		100
74) N-amyl acetate	12.500	43	212974m	40.223	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.918	83	276796	55.070	ug/l		98
76) 1,2,3-Trichloropropane	12.971	75	264559m	53.717	ug/l		
77) Bromobenzene	12.959	156	197041	55.390	ug/l		98
78) n-propylbenzene	13.012	91	1046093	54.998	ug/l		99
79) 2-Chlorotoluene	13.100	91	615186	52.964	ug/l		99
80) 1,3,5-Trimethylbenzene	13.147	105	720007	55.887	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.712	75	100456	57.865	ug/l	#	89
82) 4-Chlorotoluene	13.200	91	656816	56.933	ug/l		98
83) tert-Butylbenzene	13.412	119	588225	53.710	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	730000	57.007	ug/l		98
85) sec-Butylbenzene	13.588	105	847596	53.872	ug/l		99
86) p-Isopropyltoluene	13.706	119	706011	54.723	ug/l		100
87) 1,3-Dichlorobenzene	13.712	146	376351	54.348	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	380675	52.479	ug/l		97
89) n-Butylbenzene	14.029	91	671306	53.590	ug/l		100
90) Hexachloroethane	14.306	117	127576	54.130	ug/l		98
91) 1,2-Dichlorobenzene	14.082	146	349875	53.690	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	63936	52.428	ug/l		96
93) 1,2,4-Trichlorobenzene	15.365	180	194146	50.142	ug/l		98
94) Hexachlorobutadiene	15.470	225	72189	51.883	ug/l		97
95) Naphthalene	15.612	128	712709	53.119	ug/l		99
96) 1,2,3-Trichlorobenzene	15.812	180	192507	51.087	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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)

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

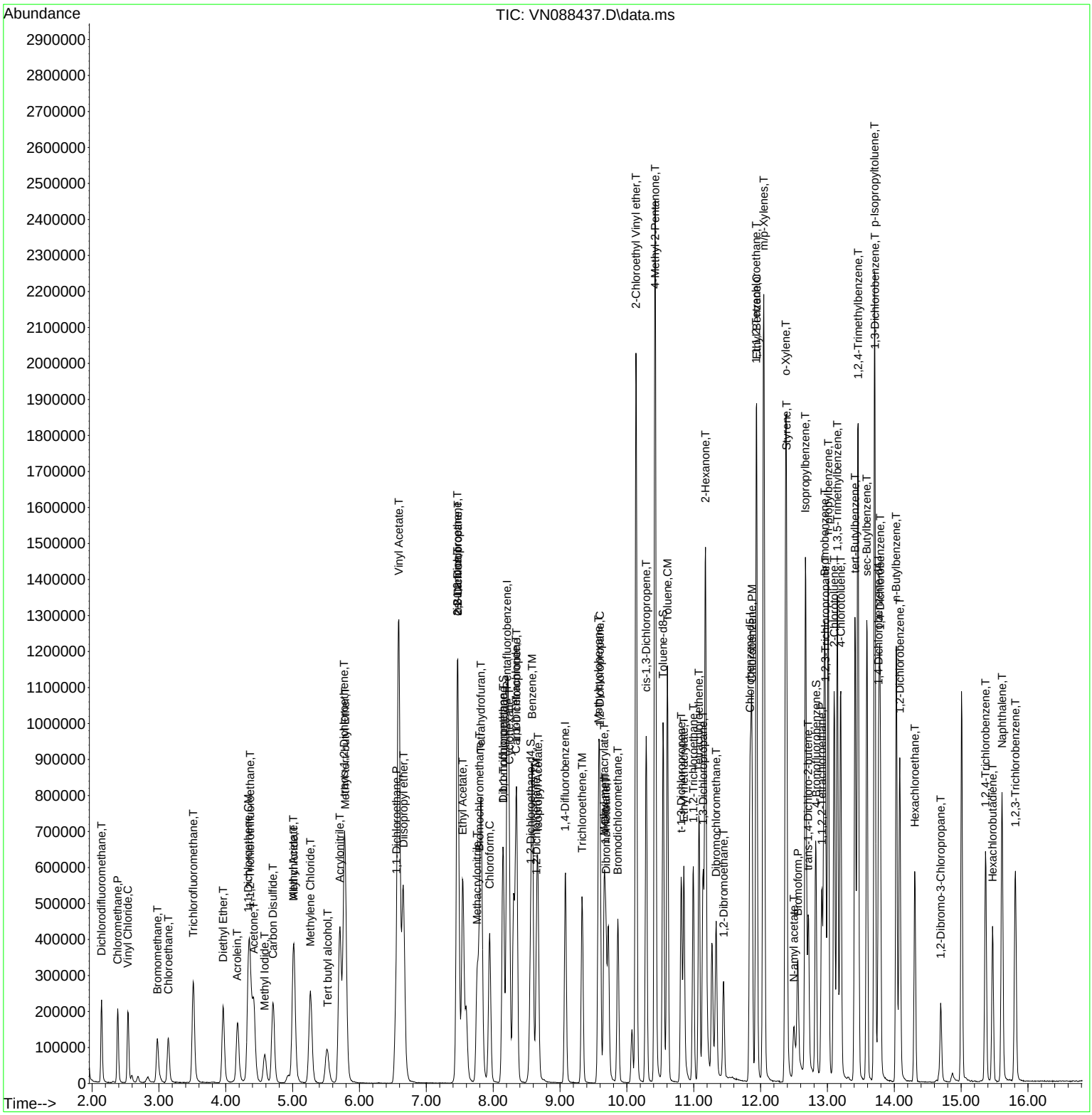
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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



Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	102	0.00
2	T	Dichlorodifluoromethane	0.751	0.777	-3.5	107	0.00
3	P	Chloromethane	0.807	0.795	1.5	101	0.00
4	C	Vinyl Chloride	0.821	0.817	0.5#	103	0.00
5	T	Bromomethane	0.395	0.389	1.5	100	0.00
6	T	Chloroethane	0.508	0.535	-5.3	108	0.00
7	T	Trichlorofluoromethane	1.153	1.253	-8.7	117	0.00
8	T	Diethyl Ether	0.433	0.454	-4.8	104	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.634	-3.3	115	0.00
10	T	Methyl Iodide	0.608	0.546	10.2	84	0.00
11	T	Tert butyl alcohol	0.150	0.134	10.7	85	0.01
12	CM	1,1-Dichloroethene	0.610	0.619	-1.5#	111	0.00
13	T	Acrolein	0.144	0.167	-16.0	113	0.00
14	T	Allyl chloride	1.131	1.123	0.7	100	0.00
15	T	Acrylonitrile	0.434	0.455	-4.8	99	0.00
16	T	Acetone	0.341	0.315	7.6	96	0.00
17	T	Carbon Disulfide	1.993	1.982	0.6	102	0.00
18	T	Methyl Acetate	1.014	1.116	-10.1	108	0.00
19	T	Methyl tert-butyl Ether	2.285	2.509	-9.8	102	0.00
20	T	Methylene Chloride	0.729	0.747	-2.5	101	0.00
21	T	trans-1,2-Dichloroethene	0.676	0.705	-4.3	105	0.00
22	T	Diisopropyl ether	2.414	2.700	-11.8	107	0.00
23	T	Vinyl Acetate	1.945	2.420	-24.4	115	0.00
24	P	1,1-Dichloroethane	1.367	1.487	-8.8	106	0.00
25	T	2-Butanone	0.548	0.571	-4.2	98	0.00
26	T	2,2-Dichloropropane	1.180	1.260	-6.8	107	0.00
27	T	cis-1,2-Dichloroethene	0.785	0.832	-6.0	102	0.00
28	T	Bromochloromethane	0.681	0.770	-13.1	107	0.00
29	T	Tetrahydrofuran	0.393	0.434	-10.4	103	0.00
30	C	Chloroform	1.343	1.514	-12.7#	111	0.00
31	T	Cyclohexane	1.239	1.244	-0.4	112	0.00
32	T	1,1,1-Trichloroethane	1.181	1.277	-8.1	112	0.00
33	S	1,2-Dichloroethane-d4	0.942	1.041	-10.5	106	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.346	0.396	-14.5	107	0.00
36	T	1,1-Dichloropropene	0.535	0.576	-7.7	111	0.00
37	T	Ethyl Acetate	0.703	0.767	-9.1	101	0.00
38	T	Carbon Tetrachloride	0.532	0.618	-16.2	117	0.00
39	T	Methylcyclohexane	0.572	0.599	-4.7	107	0.00
40	TM	Benzene	1.570	1.743	-11.0	106	0.00
41	T	Methacrylonitrile	0.348	0.407	-17.0	108	0.00
42	TM	1,2-Dichloroethane	0.599	0.729	-21.7	112	0.00
43	T	Isopropyl Acetate	1.074	1.194	-11.2	101	0.00
44	TM	Trichloroethene	0.371	0.385	-3.8	102	0.00
45	C	1,2-Dichloropropane	0.402	0.462	-14.9#	108	0.00
46	T	Dibromomethane	0.287	0.330	-15.0	107	0.00
47	T	Bromodichloromethane	0.586	0.676	-15.4	108	0.00
48	T	Methyl methacrylate	0.490	0.576	-17.6	106	0.00

Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	92	0.00
50	S	Toluene-d8	1.289	1.429	-10.9	105	0.00
51	T	4-Methyl-2-Pentanone	0.633	0.758	-19.7	107	0.00
52	CM	Toluene	0.906	1.057	-16.7#	109	0.00
53	T	t-1,3-Dichloropropene	0.601	0.686	-14.1	103	0.00
54	T	cis-1,3-Dichloropropene	0.632	0.728	-15.2	104	0.00
55	T	1,1,2-Trichloroethane	0.351	0.402	-14.5	108	0.00
56	T	Ethyl methacrylate	0.554	0.686	-23.8	105	0.00
57	T	1,3-Dichloropropane	0.633	0.732	-15.6	107	0.00
58	T	2-Chloroethyl Vinyl ether	0.319	0.389	-21.9	101	0.00
59	T	2-Hexanone	0.399	0.484	-21.3	105	0.00
60	T	Dibromochloromethane	0.400	0.472	-18.0	109	0.00
61	T	1,2-Dibromoethane	0.355	0.406	-14.4	104	0.00
62	S	4-Bromofluorobenzene	0.442	0.507	-14.7	107	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.396	0.360	9.1	97	0.00
65	PM	Chlorobenzene	1.123	1.171	-4.3	107	0.00
66	T	1,1,1,2-Tetrachloroethane	0.379	0.412	-8.7	109	0.00
67	C	Ethyl Benzene	1.963	2.112	-7.6#	110	0.00
68	T	m/p-Xylenes	0.728	0.801	-10.0	111	0.00
69	T	o-Xylene	0.694	0.741	-6.8	108	0.00
70	T	Styrene	1.127	1.295	-14.9	110	0.00
71	P	Bromoform	0.277	0.313	-13.0	111	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	3.697	4.024	-8.8	112	0.00
74	T	N-amyl acetate	1.259	1.013	19.5	98	0.00
75	P	1,1,2,2-Tetrachloroethane	1.195	1.316	-10.1	118	0.00
76	T	1,2,3-Trichloropropane	1.171	1.258	-7.4	106	0.00
77	T	Bromobenzene	0.846	0.937	-10.8	109	0.00
78	T	n-propylbenzene	4.523	4.975	-10.0	113	0.00
79	T	2-Chlorotoluene	2.762	2.926	-5.9	109	0.00
80	T	1,3,5-Trimethylbenzene	3.063	3.424	-11.8	113	0.00
81	T	trans-1,4-Dichloro-2-butene	0.413	0.478	-15.7	112	0.00
82	T	4-Chlorotoluene	2.743	3.124	-13.9	110	0.00
83	T	tert-Butylbenzene	2.604	2.797	-7.4	112	0.00
84	T	1,2,4-Trimethylbenzene	3.045	3.472	-14.0	112	0.00
85	T	sec-Butylbenzene	3.741	4.031	-7.8	113	0.00
86	T	p-Isopropyltoluene	3.068	3.358	-9.5	111	0.00
87	T	1,3-Dichlorobenzene	1.647	1.790	-8.7	112	0.00
88	T	1,4-Dichlorobenzene	1.725	1.810	-4.9	109	0.00
89	T	n-Butylbenzene	2.979	3.192	-7.2	112	0.00
90	T	Hexachloroethane	0.560	0.607	-8.4	114	0.00
91	T	1,2-Dichlorobenzene	1.550	1.664	-7.4	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.290	0.304	-4.8	106	0.00
93	T	1,2,4-Trichlorobenzene	0.921	0.923	-0.2	105	0.00
94	T	Hexachlorobutadiene	0.331	0.343	-3.6	117	0.00
95	T	Naphthalene	3.190	3.389	-6.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	0.896	0.915	-2.1	105	0.00

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

Sample Results: **VN088437.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	102	0.00
2	T	Dichlorodifluoromethane	50.000	51.745	-3.5	107	0.00
3	P	Chloromethane	50.000	49.307	1.4	101	0.00
4	C	Vinyl Chloride	50.000	49.784	0.4#	103	0.00
5	T	Bromomethane	50.000	49.278	1.4	100	0.00
6	T	Chloroethane	50.000	52.654	-5.3	108	0.00
7	T	Trichlorofluoromethane	50.000	54.337	-8.7	117	0.00
8	T	Diethyl Ether	50.000	52.439	-4.9	104	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.647	-3.3	115	0.00
10	T	Methyl Iodide	50.000	44.878	10.2	84	0.00
11	T	Tert butyl alcohol	250.000	223.357	10.7	85	0.01
12	CM	1,1-Dichloroethene	50.000	50.738	-1.5#	111	0.00
13	T	Acrolein	250.000	290.220	-16.1	113	0.00
14	T	Allyl chloride	50.000	49.668	0.7	100	0.00
15	T	Acrylonitrile	250.000	262.341	-4.9	99	0.00
16	T	Acetone	250.000	231.533	7.4	96	0.00
17	T	Carbon Disulfide	50.000	49.724	0.6	102	0.00
18	T	Methyl Acetate	50.000	55.051	-10.1	108	0.00
19	T	Methyl tert-butyl Ether	50.000	54.892	-9.8	102	0.00
20	T	Methylene Chloride	50.000	51.250	-2.5	101	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.153	-4.3	105	0.00
22	T	Diisopropyl ether	50.000	55.934	-11.9	107	0.00
23	T	Vinyl Acetate	250.000	311.072	-24.4	115	0.00
24	P	1,1-Dichloroethane	50.000	54.378	-8.8	106	0.00
25	T	2-Butanone	250.000	260.572	-4.2	98	0.00
26	T	2,2-Dichloropropane	50.000	53.386	-6.8	107	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.983	-6.0	102	0.00
28	T	Bromochloromethane	50.000	56.516	-13.0	107	0.00
29	T	Tetrahydrofuran	250.000	276.329	-10.5	103	0.00
30	C	Chloroform	50.000	56.375	-12.8#	111	0.00
31	T	Cyclohexane	50.000	50.228	-0.5	112	0.00
32	T	1,1,1-Trichloroethane	50.000	54.066	-8.1	112	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.256	-10.5	106	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	57.206	-14.4	107	0.00
36	T	1,1-Dichloropropene	50.000	53.897	-7.8	111	0.00
37	T	Ethyl Acetate	50.000	54.547	-9.1	101	0.00
38	T	Carbon Tetrachloride	50.000	58.038	-16.1	117	0.00
39	T	Methylcyclohexane	50.000	52.341	-4.7	107	0.00
40	TM	Benzene	50.000	55.531	-11.1	106	0.00
41	T	Methacrylonitrile	50.000	58.376	-16.8	108	0.00
42	TM	1,2-Dichloroethane	50.000	60.904	-21.8	112	0.00
43	T	Isopropyl Acetate	50.000	55.581	-11.2	101	0.00
44	TM	Trichloroethene	50.000	51.846	-3.7	102	0.00
45	C	1,2-Dichloropropane	50.000	57.477	-15.0#	108	0.00
46	T	Dibromomethane	50.000	57.541	-15.1	107	0.00
47	T	Bromodichloromethane	50.000	57.749	-15.5	108	0.00
48	T	Methyl methacrylate	50.000	58.800	-17.6	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1034.918	-3.5	92	0.00
50	S	Toluene-d8	50.000	55.419	-10.8	105	0.00
51	T	4-Methyl-2-Pentanone	250.000	299.404	-19.8	107	0.00
52	CM	Toluene	50.000	58.295	-16.6#	109	0.00
53	T	t-1,3-Dichloropropene	50.000	57.105	-14.2	103	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.561	-15.1	104	0.00
55	T	1,1,2-Trichloroethane	50.000	57.390	-14.8	108	0.00
56	T	Ethyl methacrylate	50.000	61.911	-23.8	105	0.00
57	T	1,3-Dichloropropane	50.000	57.876	-15.8	107	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	304.242	-21.7	101	0.00
59	T	2-Hexanone	250.000	303.090	-21.2	105	0.00
60	T	Dibromochloromethane	50.000	59.046	-18.1	109	0.00
61	T	1,2-Dibromoethane	50.000	57.164	-14.3	104	0.00
62	S	4-Bromofluorobenzene	50.000	57.262	-14.5	107	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	45.415	9.2	97	0.00
65	PM	Chlorobenzene	50.000	52.142	-4.3	107	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.384	-8.8	109	0.00
67	C	Ethyl Benzene	50.000	53.794	-7.6#	110	0.00
68	T	m/p-Xylenes	100.000	110.067	-10.1	111	0.00
69	T	o-Xylene	50.000	53.371	-6.7	108	0.00
70	T	Styrene	50.000	57.477	-15.0	110	0.00
71	P	Bromoform	50.000	56.405	-12.8	111	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	54.424	-8.8	112	0.00
74	T	N-amyl acetate	50.000	40.223	19.6	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	55.070	-10.1	118	0.00
76	T	1,2,3-Trichloropropane	50.000	53.717	-7.4	106	0.00
77	T	Bromobenzene	50.000	55.390	-10.8	109	0.00
78	T	n-propylbenzene	50.000	54.998	-10.0	113	0.00
79	T	2-Chlorotoluene	50.000	52.964	-5.9	109	0.00
80	T	1,3,5-Trimethylbenzene	50.000	55.887	-11.8	113	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.865	-15.7	112	0.00
82	T	4-Chlorotoluene	50.000	56.933	-13.9	110	0.00
83	T	tert-Butylbenzene	50.000	53.710	-7.4	112	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.007	-14.0	112	0.00
85	T	sec-Butylbenzene	50.000	53.872	-7.7	113	0.00
86	T	p-Isopropyltoluene	50.000	54.723	-9.4	111	0.00
87	T	1,3-Dichlorobenzene	50.000	54.348	-8.7	112	0.00
88	T	1,4-Dichlorobenzene	50.000	52.479	-5.0	109	0.00
89	T	n-Butylbenzene	50.000	53.590	-7.2	112	0.00
90	T	Hexachloroethane	50.000	54.130	-8.3	114	0.00
91	T	1,2-Dichlorobenzene	50.000	53.690	-7.4	110	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.428	-4.9	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.142	-0.3	105	0.00
94	T	Hexachlorobutadiene	50.000	51.883	-3.8	117	0.00
95	T	Naphthalene	50.000	53.119	-6.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088437.D
Acq On : 04 Dec 2025 11:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 05 00:11:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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	51.087	-2.2	105	0.00

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

QC SAMPLE DATA

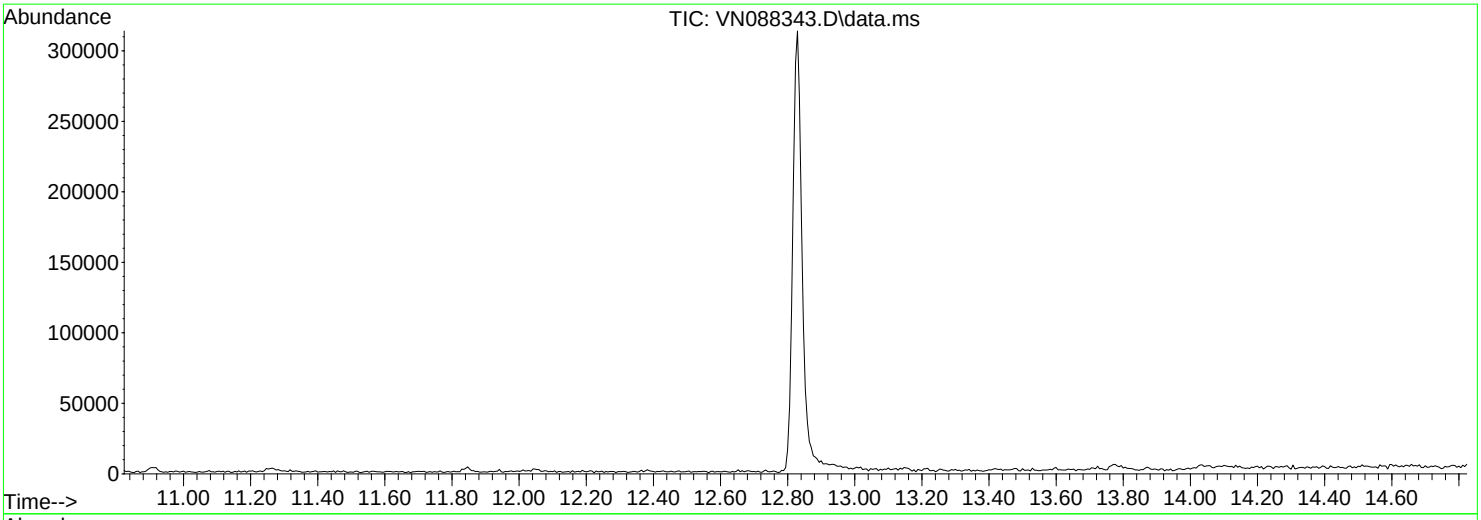
Sample Results: **VN088343.D**

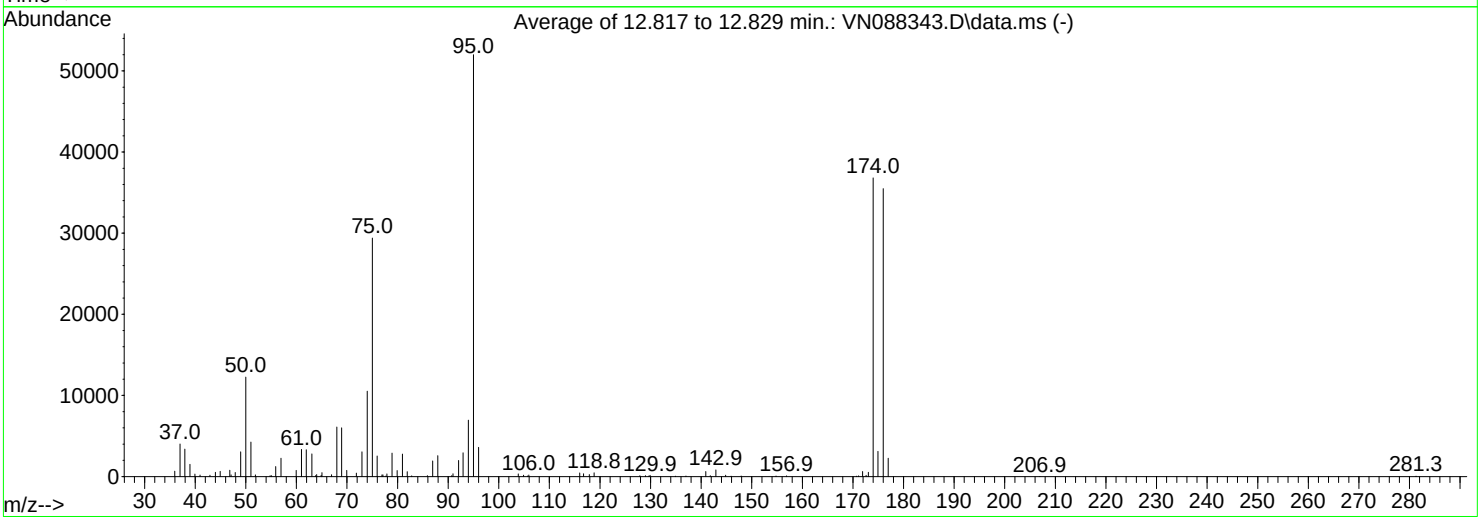
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112425\
Data File : VN088343.D
Acq On : 24 Nov 2025 08:17
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025





AutoFind: Scans 1847, 1848, 1849; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	12249	PASS
75	95	30	60	56.6	29403	PASS
95	95	100	100	100.0	51987	PASS
96	95	5	9	6.9	3605	PASS
173	174	0.00	2	1.4	523	PASS
174	95	50	100	70.8	36808	PASS
175	174	5	9	8.4	3099	PASS
176	174	95	101	96.4	35493	PASS
177	176	5	9	6.4	2260	PASS

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	660	47.90	508	61.95	3309	72.95	3051
37.00	4014	49.00	3039	63.05	2784	74.00	10530
37.95	3391	50.00	12249	63.80	113	75.00	29405
38.95	1502	51.00	4245	64.00	255	75.95	2535
39.95	311	51.90	213	64.90	158	76.90	202
40.95	180	54.80	110	65.05	474	77.10	198
42.90	161	55.10	103	66.95	229	77.70	63
44.00	531	55.90	1233	68.00	6110	77.90	320
44.95	637	56.95	2258	68.95	5997	78.90	2897
46.85	771	59.95	755	69.95	751	79.90	742
47.10	213	61.00	3348	71.85	421	80.95	2778

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	605	96.00	3605	129.70	84	156.90	87
82.80	89	103.85	320	129.90	147	170.70	51
85.90	119	104.90	161	134.90	52	171.10	82
86.95	1933	105.70	75	137.00	60	171.90	617
87.95	2571	105.95	190	140.90	629	172.60	144
90.70	103	116.00	445	141.80	113	173.05	523
90.95	348	116.75	347	142.90	817	174.00	36808
92.05	1981	117.90	250	144.85	179	174.95	3099
92.95	2935	118.85	465	145.90	56	176.00	35493
94.00	6957	127.90	108	147.90	68	176.95	2260
95.00	51987	129.00	114	154.80	69	206.95	15

Average of 12.817 to 12.829 min.: VN088343.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.30	53						

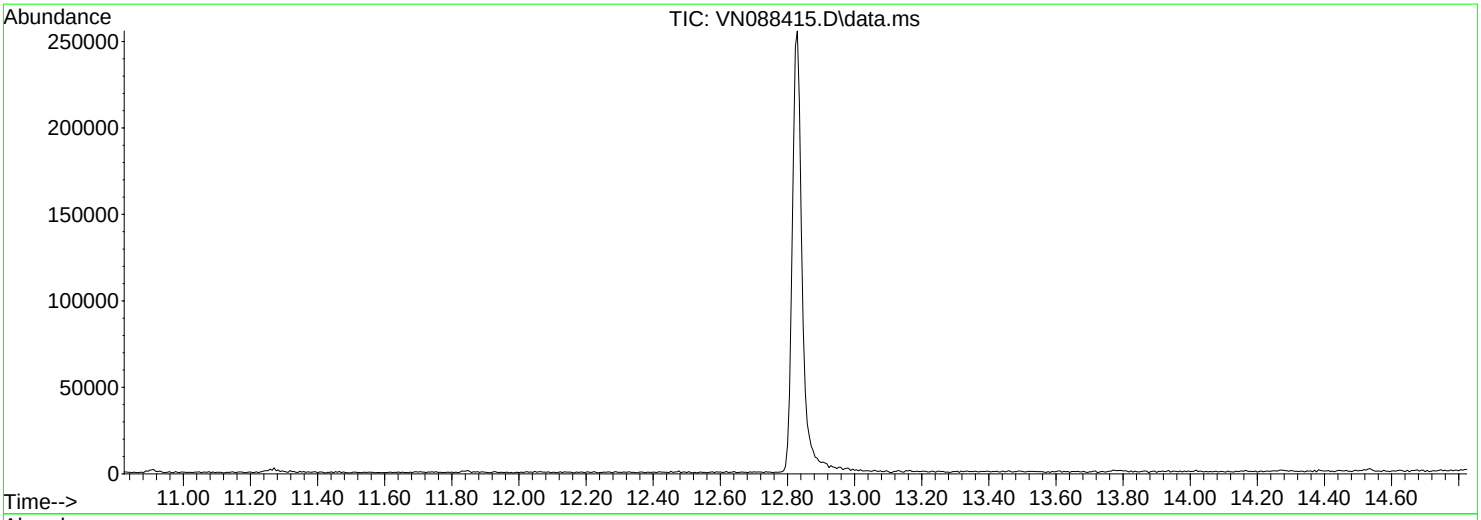
Sample Results: **VN088415.D**

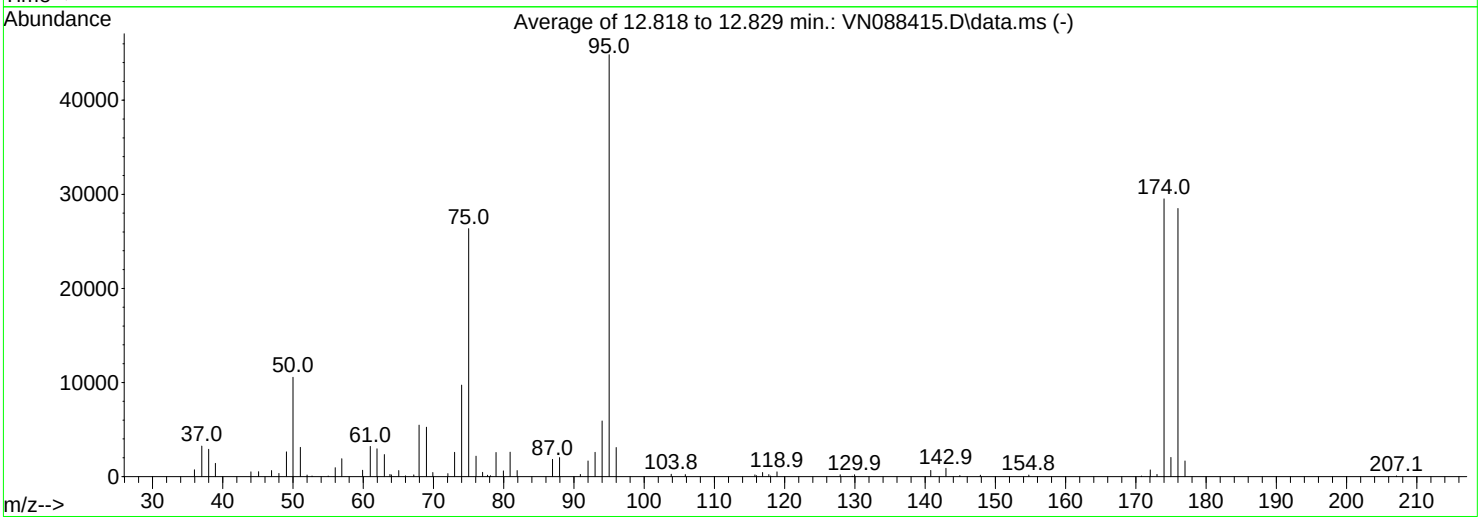
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088415.D
Acq On : 03 Dec 2025 09:36
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025





AutoFind: Scans 1847, 1848, 1849; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	10550	PASS
75	95	30	60	58.8	26344	PASS
95	95	100	100	100.0	44832	PASS
96	95	5	9	6.9	3081	PASS
173	174	0.00	2	0.8	227	PASS
174	95	50	100	65.8	29515	PASS
175	174	5	9	6.9	2028	PASS
176	174	95	101	96.5	28493	PASS
177	176	5	9	5.9	1667	PASS

Average of 12.818 to 12.829 min.: VN088415.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	718	52.00	171	65.05	636	77.00	45
37.00	3234	52.70	61	66.00	75	77.70	14
38.00	2905	55.00	66	67.20	178	78.10	10
38.95	1396	56.00	952	67.95	5462	78.90	256
44.00	503	56.95	1893	69.00	5246	79.95	607
45.10	516	59.90	681	69.90	428	80.90	2593
46.95	634	61.00	3199	72.05	309	81.90	636
48.00	340	61.95	2948	73.00	2576	86.95	1823
49.05	2636	63.00	2346	74.00	9727	87.95	2017
50.00	10550	63.80	226	75.00	26344	90.90	235
51.05	3098	64.00	173	76.05	2168	92.00	1665

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.818 to 12.829 min.: VN088415.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2581	118.90	507	173.00	227		
94.00	5904	127.90	201	174.00	29515		
95.00	44832	129.60	50	175.00	2028		
96.00	3081	129.95	204	176.00	28493		
103.85	254	140.80	662	177.00	1667		
105.85	210	142.95	872	207.10	82		
115.75	179	144.95	110				
116.00	96	147.85	147				
116.85	441	154.75	165				
117.75	209	170.80	63				
118.00	54	172.05	714				

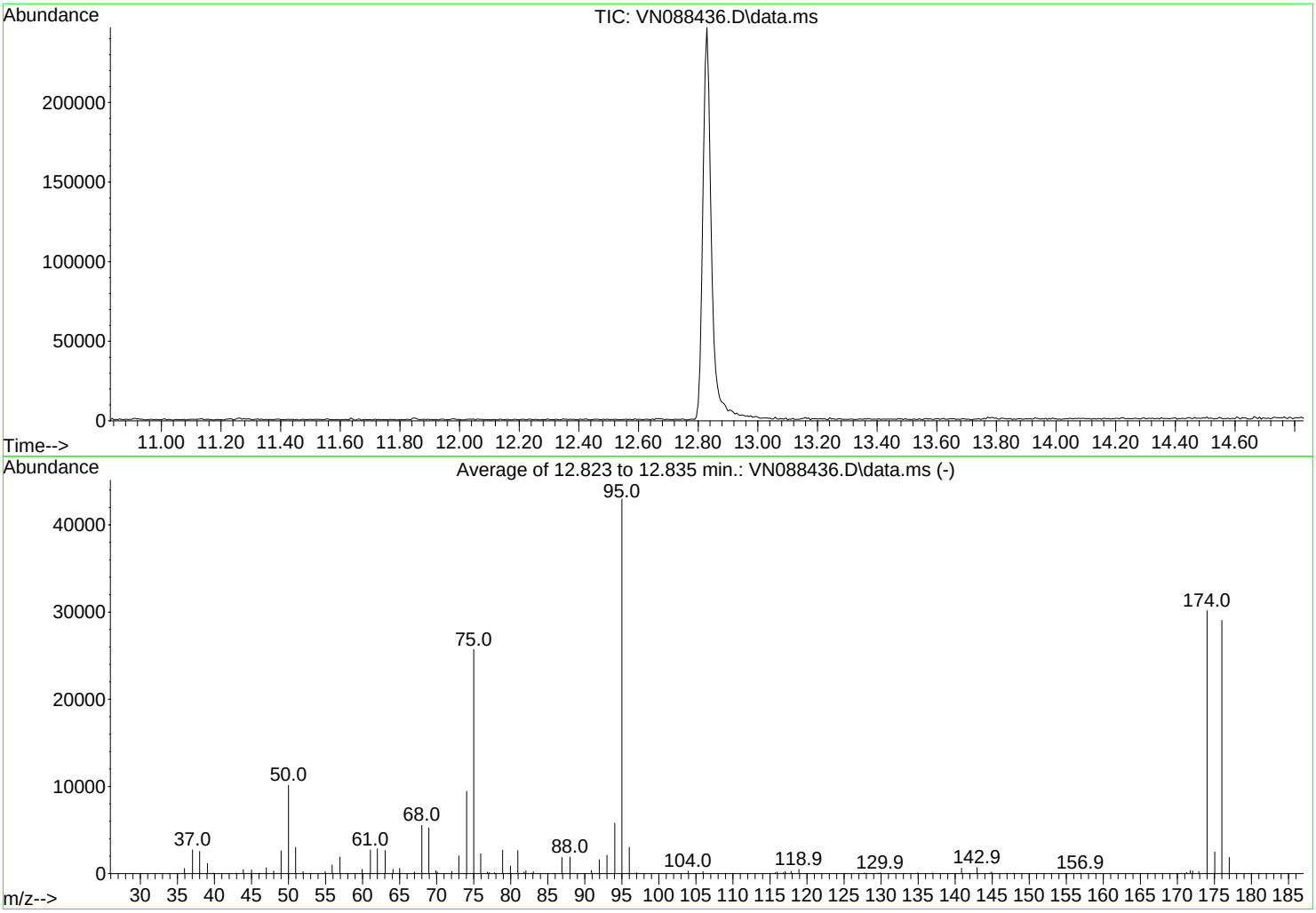
Sample Results: **VN088436.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088436.D
Acq On : 04 Dec 2025 11:03
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Title : SW846 8260
Last Update : Tue Nov 25 01:34:52 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	10147	PASS
75	95	30	60	59.8	25707	PASS
95	95	100	100	100.0	42976	PASS
96	95	5	9	7.0	3020	PASS
173	174	0.00	2	0.7	221	PASS
174	95	50	100	70.2	30165	PASS
175	174	5	9	8.3	2492	PASS
176	174	95	101	96.3	29056	PASS
177	176	5	9	6.4	1867	PASS

Average of 12.823 to 12.835 min.: VN088436.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	584	48.00	287	62.00	2852	74.05	943
37.05	2726	49.00	2602	63.05	2665	75.00	2570
38.00	2546	50.00	10147	64.10	494	75.95	228
39.05	1160	50.95	2998	65.00	605	76.85	17
39.85	81	51.95	228	67.00	181	77.10	110
42.90	65	53.00	65	68.00	5547	77.80	94
43.90	456	54.95	241	68.95	5266	78.90	2668
45.00	436	55.90	989	69.90	333	79.95	879
46.00	52	56.95	1910	70.10	186	80.95	2648
46.20	51	59.95	491	72.05	264	81.80	181
47.00	668	61.05	2720	73.00	2047	82.05	329

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.823 to 12.835 min.: VN088436.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.80	60	97.00	99	129.60	63	156.90	69
83.05	210	103.95	288	129.90	95	171.25	133
85.80	57	105.95	255	134.90	84	171.75	339
86.90	1861	115.70	111	136.90	80	172.05	316
88.00	1886	115.95	198	140.85	619	172.90	221
90.90	359	116.80	99	141.90	54	174.00	30165
91.95	1605	117.05	260	142.95	686	175.05	2492
93.00	2116	117.85	283	144.70	81	176.00	29056
94.05	5785	118.90	482	144.90	199	177.00	1867
95.00	42976	127.70	81	146.90	53		
96.00	3020	128.00	53	147.90	63		

Raw Data: **VN088418.D**

Alliance TECHNICAL GROUP
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:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN1203WBL01	SDG No.:	Q3756
Lab Sample ID:	VN1203WBL01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/03/25 11:03	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 11:03	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 11:03	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 11:03	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 11:03	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 11:03	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 11:03	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.5			70 (74) - 130 (125)	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.1			70 (77) - 130 (121)	94%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	180000							
540-36-3	1,4-Difluorobenzene	417000							
3114-55-4	Chlorobenzene-d5	403000							
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_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	179578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	416539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	402638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	186090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	201444	59.548	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.100%			
35) Dibromofluoromethane	8.147	113	146402	50.718	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.440%			
50) Toluene-d8	10.541	98	511270	47.603	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.200%			
62) 4-Bromofluorobenzene	12.829	95	173481	47.075	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.140%			
Target Compounds						Qvalue

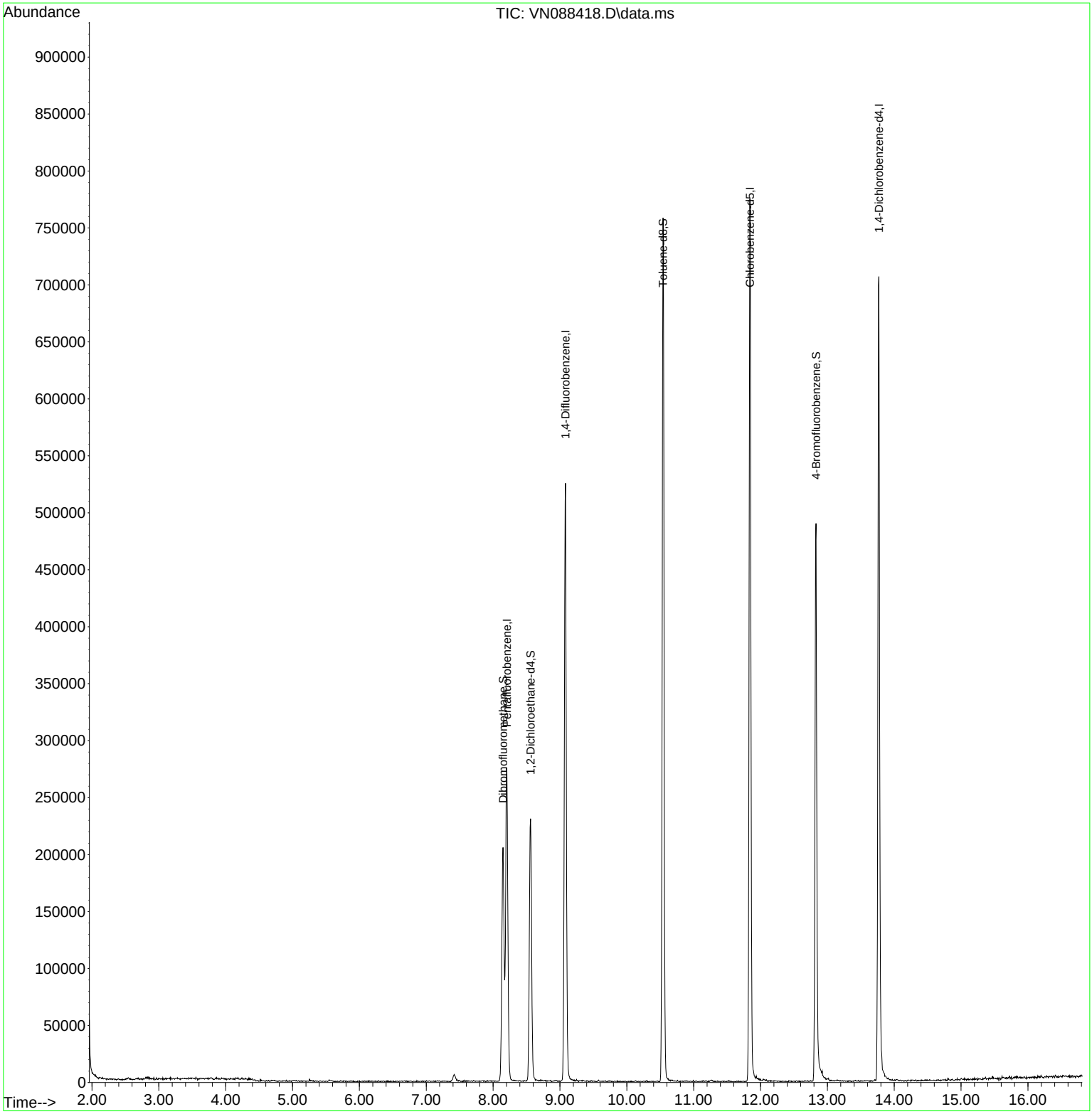
(#) = qualifier out of range (m) = manual integration (+) = signals summed

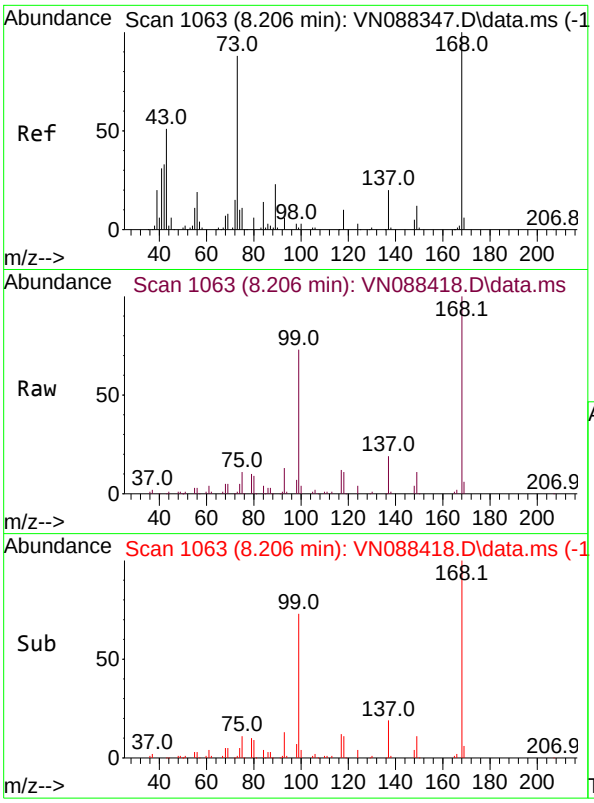
Sample Results: **VN088418.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



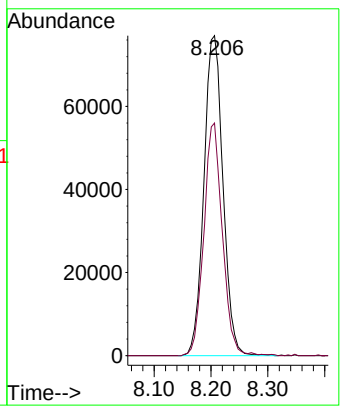


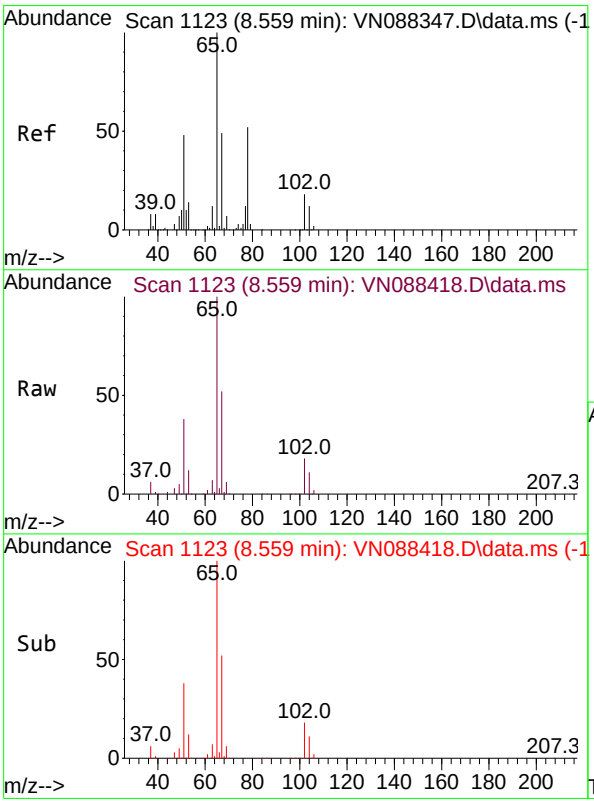
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion:168 Resp: 179578

Ion	Ratio	Lower	Upper
168	100		
99	72.7	57.1	85.7

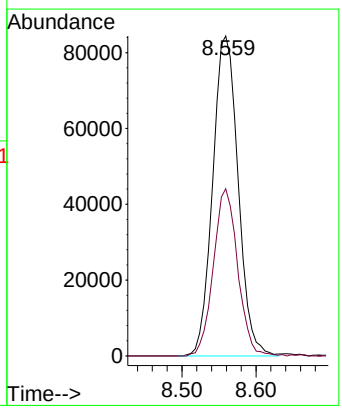


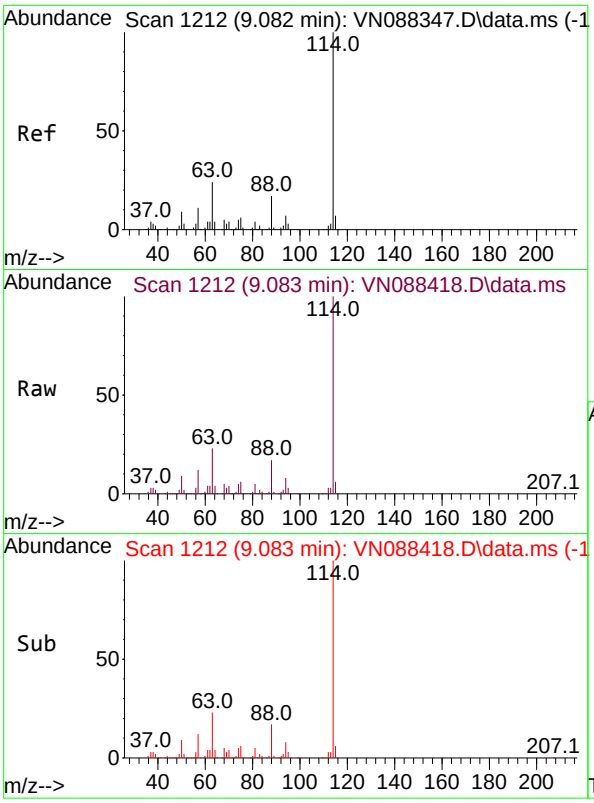


#33
1,2-Dichloroethane-d4
Concen: 59.548 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 65 Resp: 201444

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	100.8



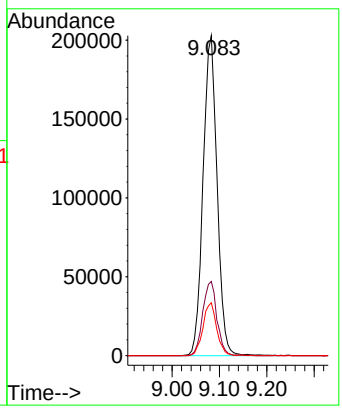


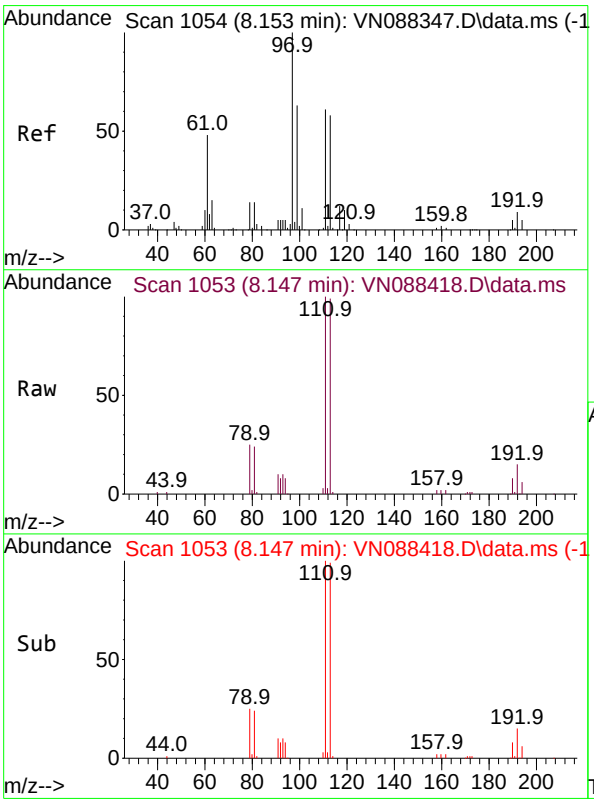
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion:114 Resp: 416539

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	49.0
88	16.5	0.0	34.0

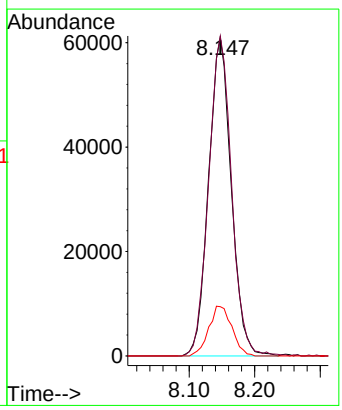


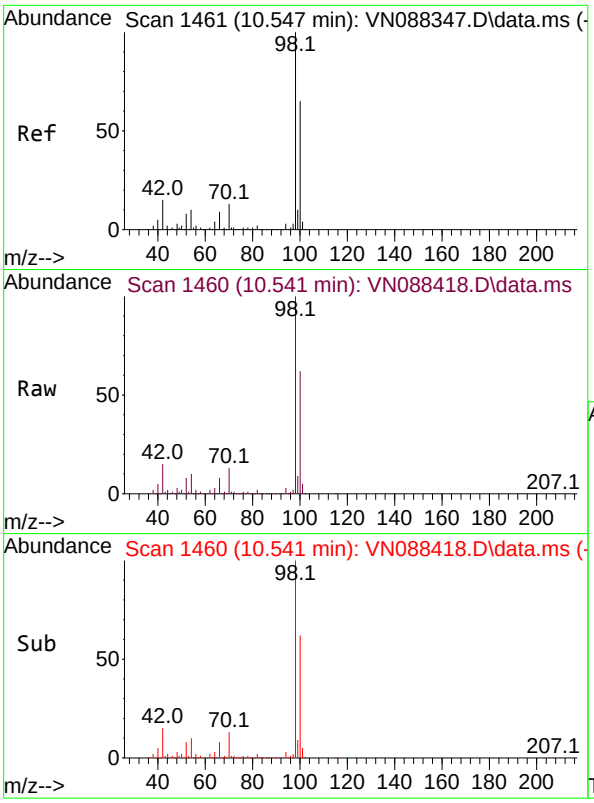


#35
Dibromofluoromethane
Concen: 50.718 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion:113 Resp: 146402

Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.5	123.7
192	15.9	12.8	19.2



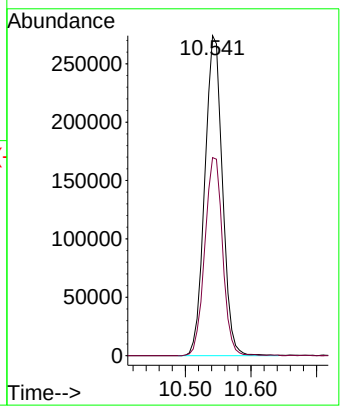


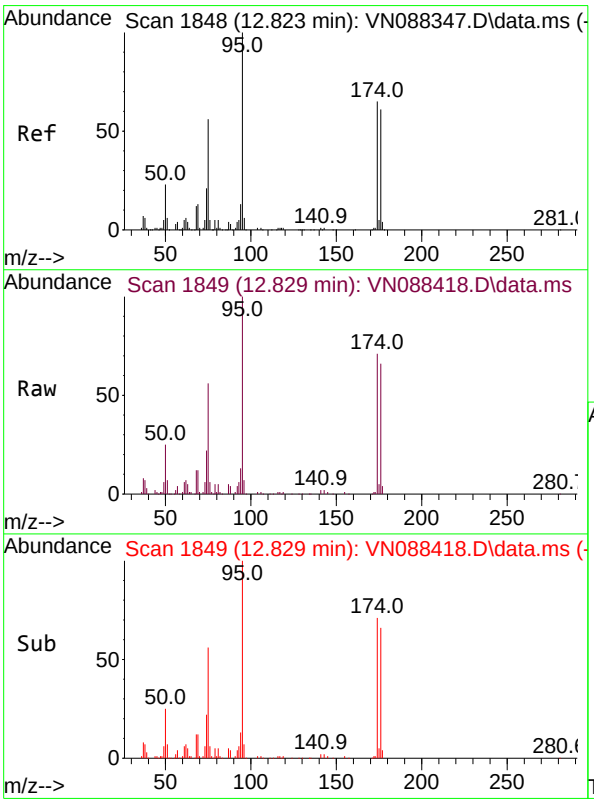
#50
Toluene-d8
Concen: 47.603 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion: 98 Resp: 511270

Ion	Ratio	Lower	Upper
98	100		
100	62.3	52.2	78.2

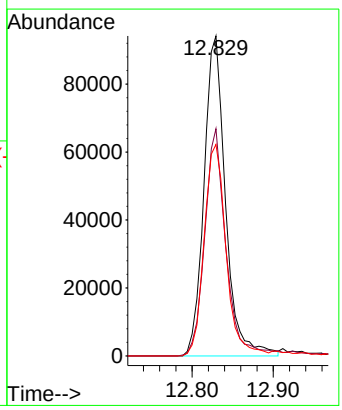


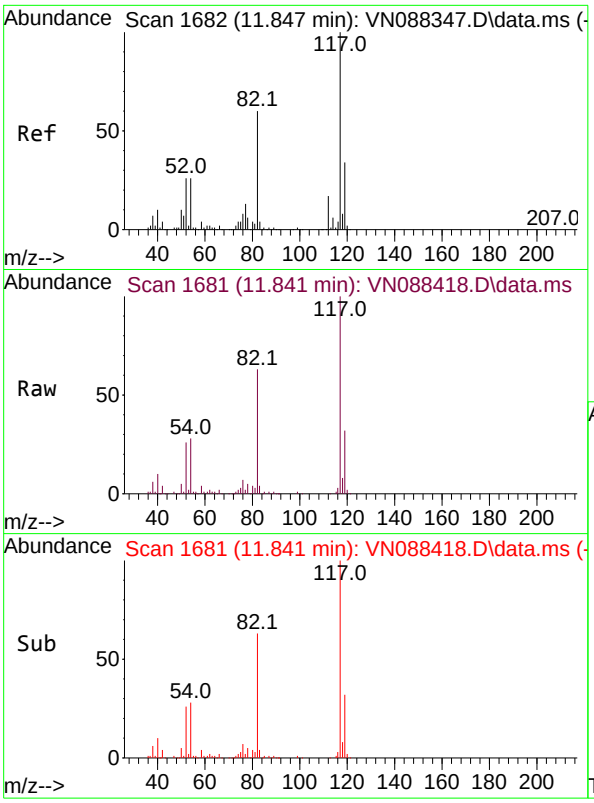


#62
4-Bromofluorobenzene
Concen: 47.075 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 95 Resp: 173481

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	139.0
176	67.4	0.0	132.4



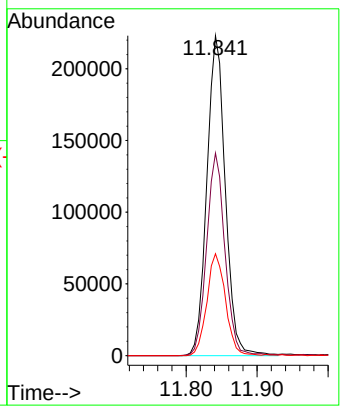


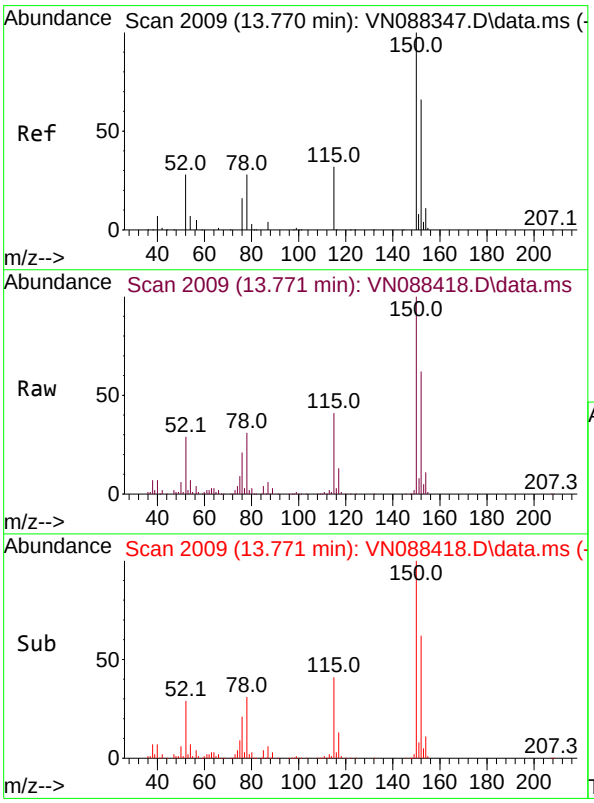
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion:117 Resp: 402638

Ion	Ratio	Lower	Upper
117	100		
82	63.3	47.8	71.8
119	31.8	26.9	40.3

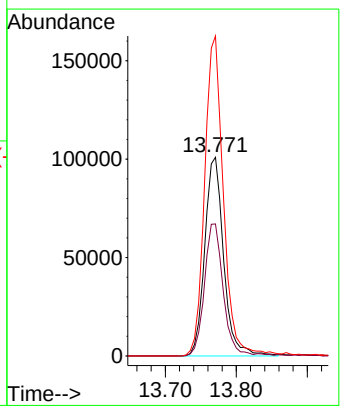




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion:152 Resp: 186090

Ion	Ratio	Lower	Upper
152	100		
115	65.3	33.0	98.9
150	159.4	0.0	349.0



Raw Data: **VN088439.D**

Alliance TECHNICAL GROUP
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:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN1204WBL01	SDG No.:	Q3756
Lab Sample ID:	VN1204WBL01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	12/04/25 12:38	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 12:38	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 12:38	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 12:38	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 12:38	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 12:38	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 12:38	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.7			70 (74) - 130 (125)	123%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	46.7			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.9			70 (77) - 130 (121)	100%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	237000							
540-36-3	1,4-Difluorobenzene	557000							
3114-55-4	Chlorobenzene-d5	556000							
3855-82-1	1,4-Dichlorobenzene-d4	258000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	236600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	556948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	555675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258091	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	275126	61.728	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 123.460%			
35) Dibromofluoromethane	8.147	113	196090	50.805	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.620%			
50) Toluene-d8	10.541	98	670134	46.664	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.320%			
62) 4-Bromofluorobenzene	12.829	95	246023	49.929	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.860%			
Target Compounds						Qvalue

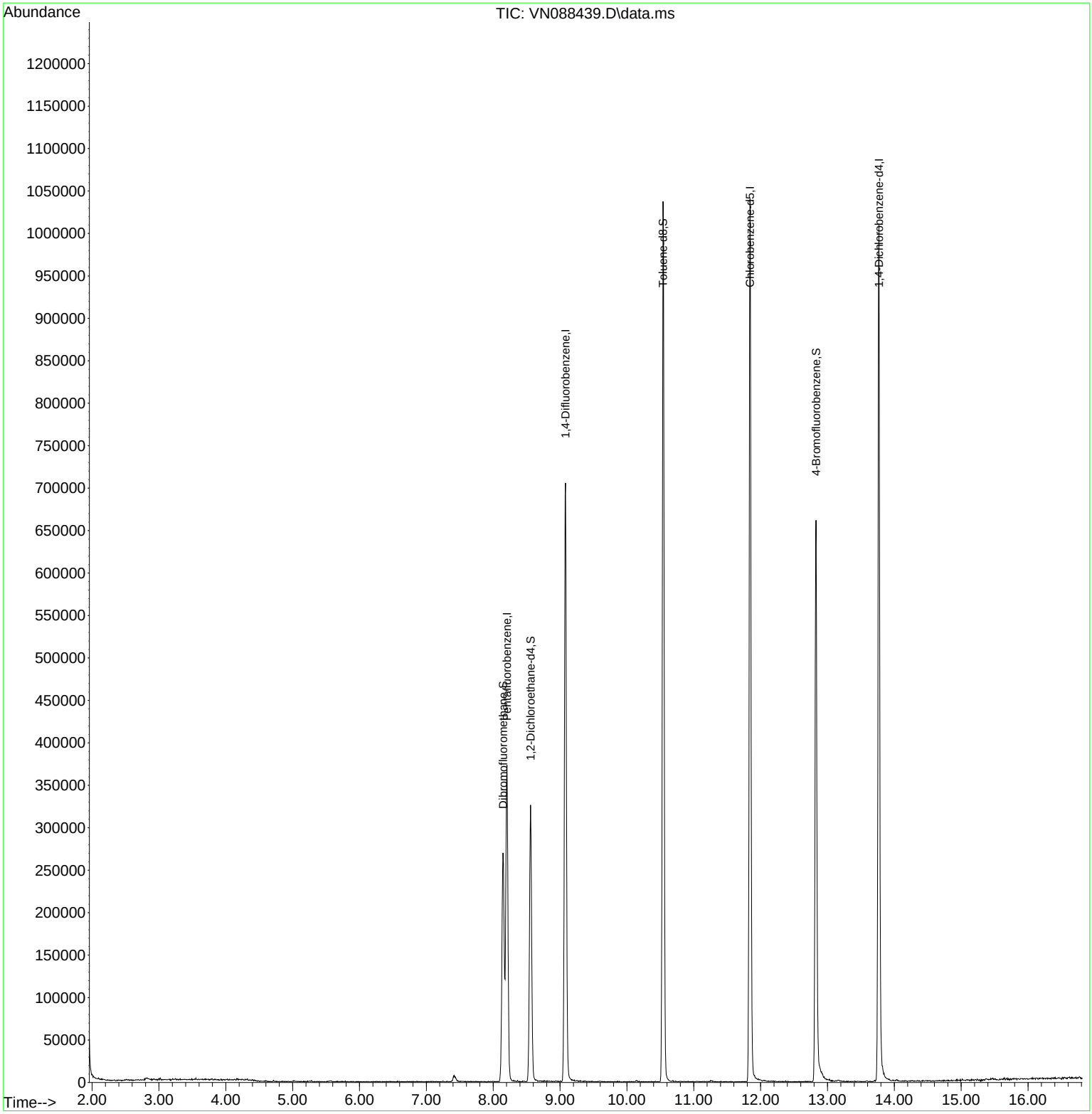
(#) = qualifier out of range (m) = manual integration (+) = signals summed

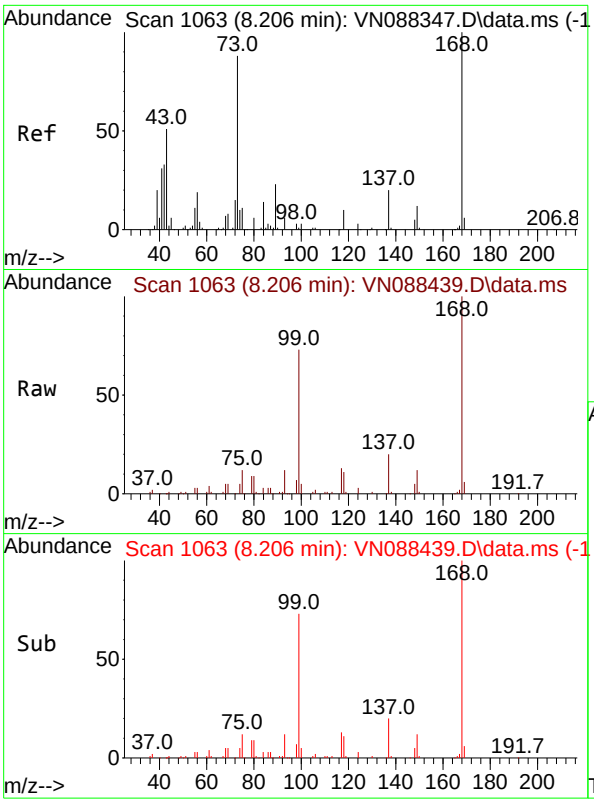
Sample Results: **VN088439.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



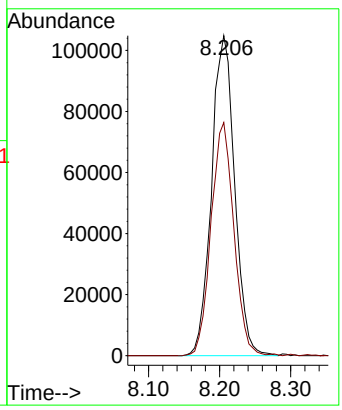


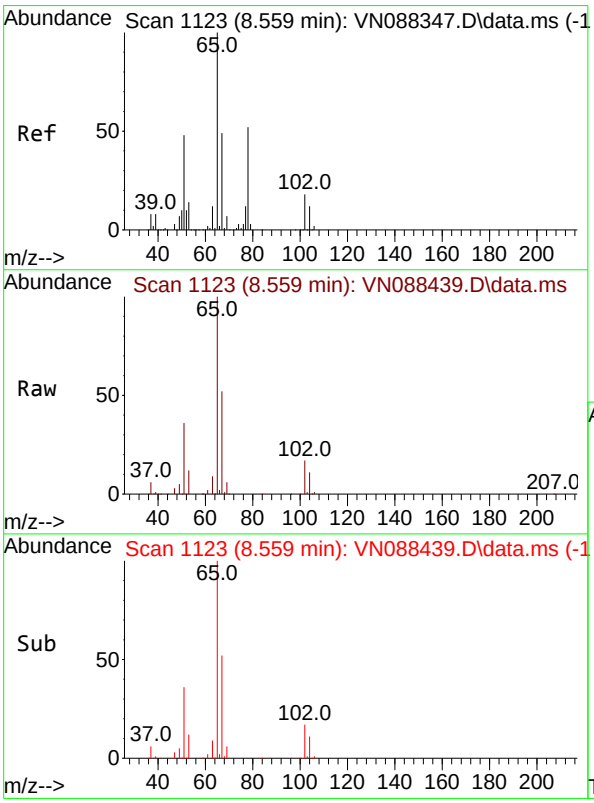
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion:168 Resp: 236600

Ion	Ratio	Lower	Upper
168	100		
99	72.9	57.1	85.7

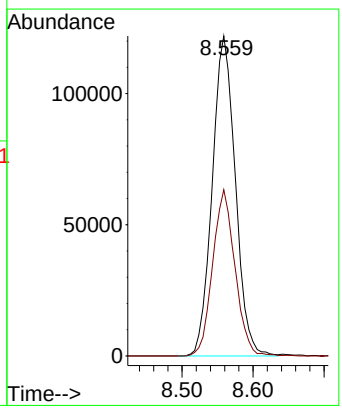


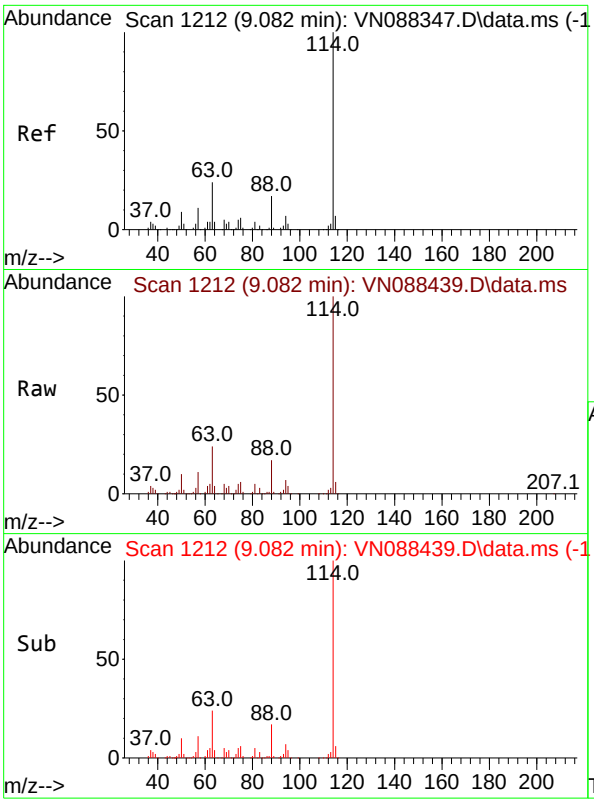


#33
1,2-Dichloroethane-d4
Concen: 61.728 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 65 Resp: 275126

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	100.8



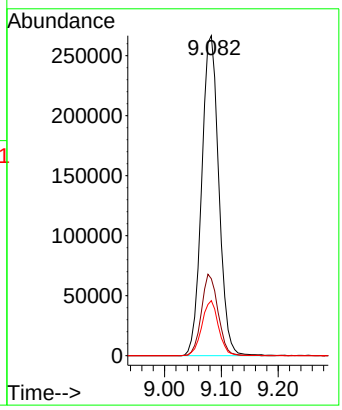


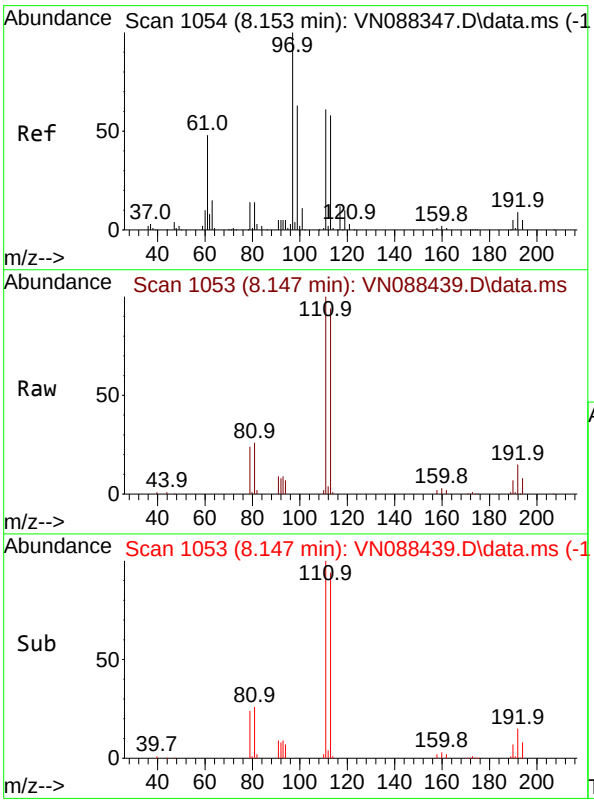
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion:114 Resp: 556948

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	49.0
88	17.2	0.0	34.0

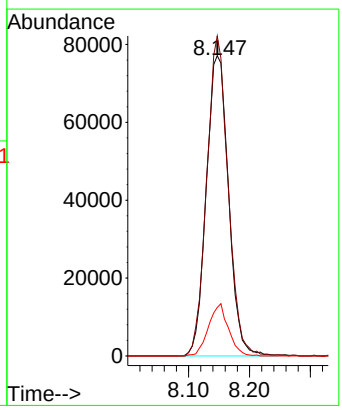


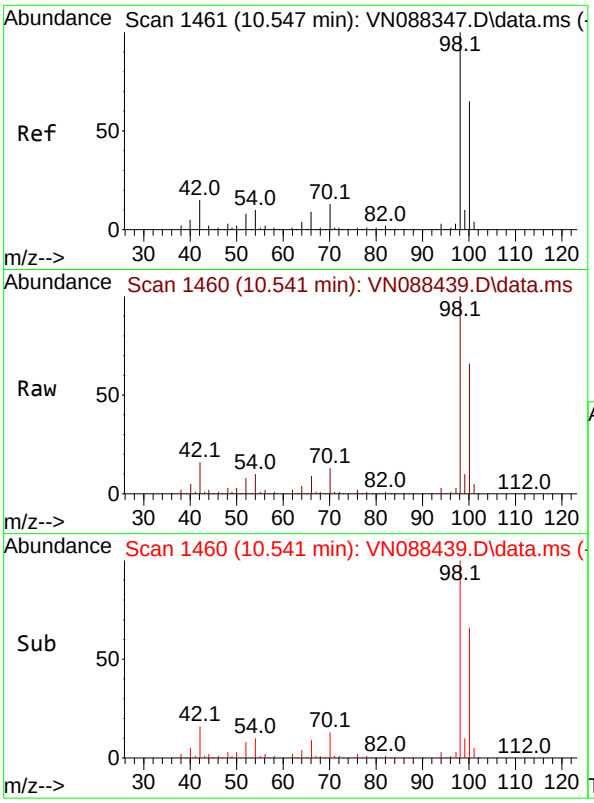


#35
Dibromofluoromethane
Concen: 50.805 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion:113 Resp: 196090

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.5	123.7
192	15.6	12.8	19.2



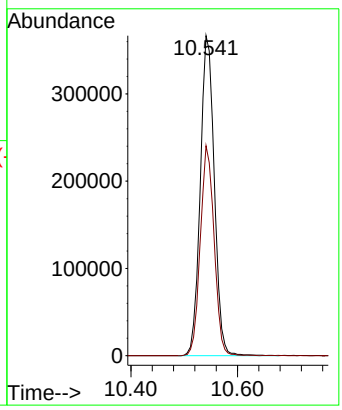


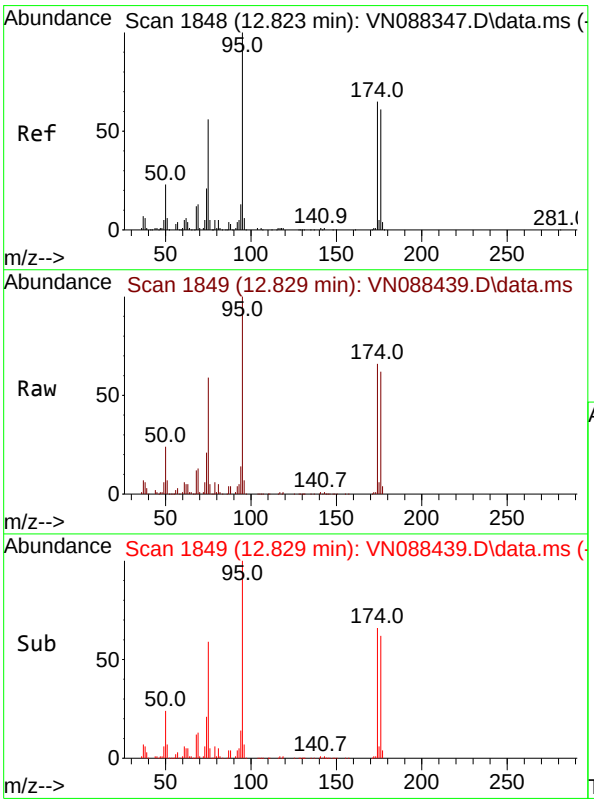
#50
Toluene-d8
Concen: 46.664 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion: 98 Resp: 670134

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2

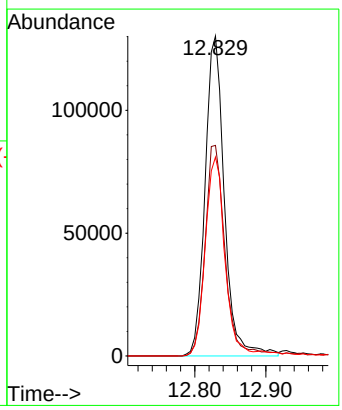


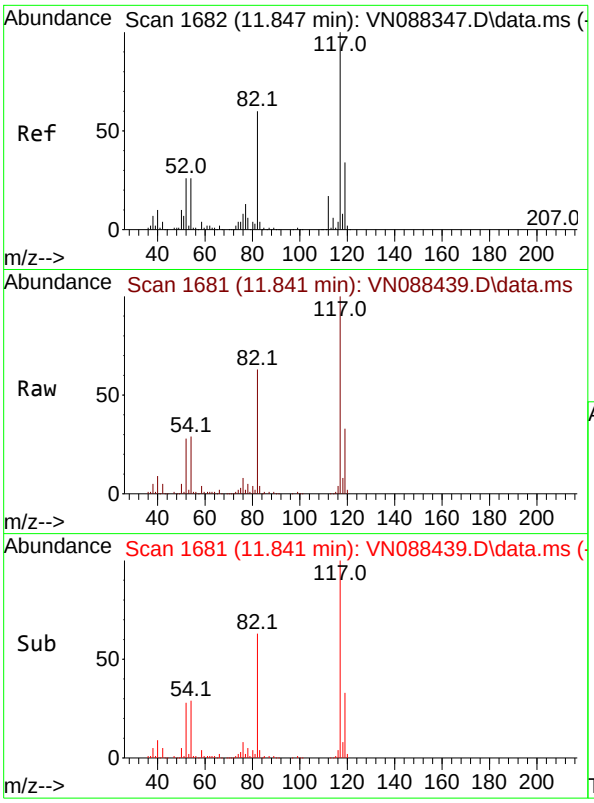


#62
4-Bromofluorobenzene
Concen: 49.929 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 95 Resp: 246023

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	139.0
176	62.6	0.0	132.4



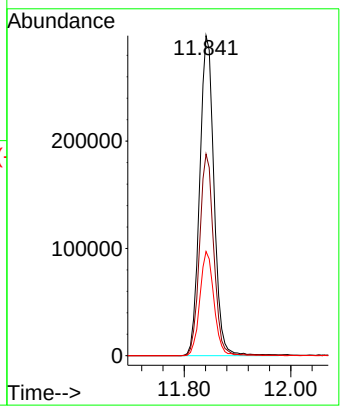


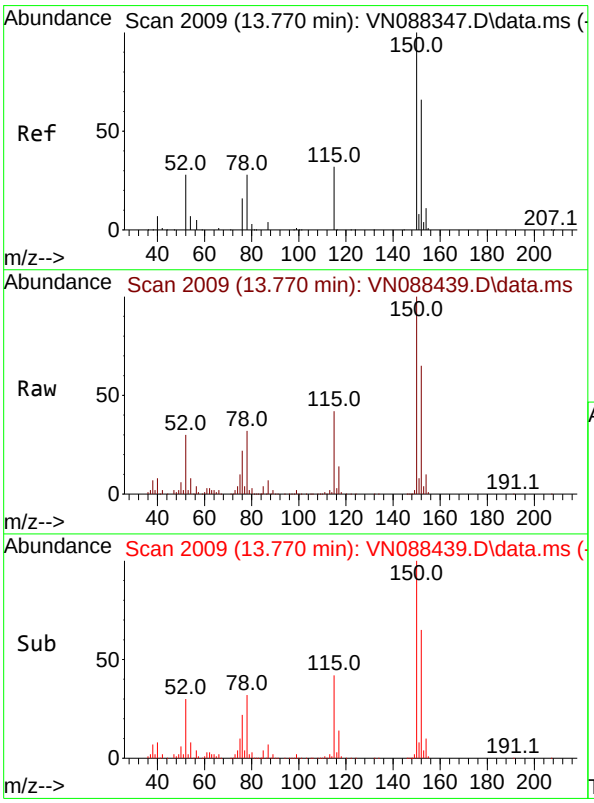
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion:117 Resp: 555675

Ion	Ratio	Lower	Upper
117	100		
82	63.0	47.8	71.8
119	32.6	26.9	40.3

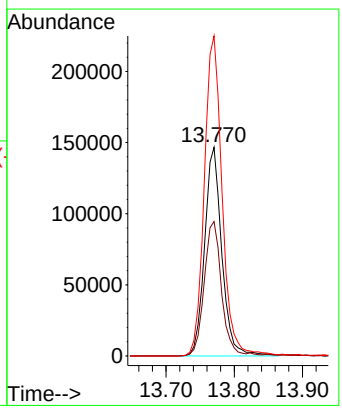




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion:152 Resp: 258091

Ion	Ratio	Lower	Upper
152	100		
115	64.9	33.0	98.9
150	158.8	0.0	349.0



Raw Data: **VN088419.D**

Alliance TECHNICAL GROUP
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:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN1203WBS01	SDG No.:	Q3756
Lab Sample ID:	VN1203WBS01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	19.5		1	0.26	1.00	ug/L	12/03/25 11:38	VN120325
75-35-4	1,1-Dichloroethene	18.9		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
156-59-2	cis-1,2-Dichloroethene	20.7		1	0.19	1.00	ug/L	12/03/25 11:38	VN120325
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/03/25 11:38	VN120325
71-43-2	Benzene	20.3		1	0.15	1.00	ug/L	12/03/25 11:38	VN120325
107-06-2	1,2-Dichloroethane	22.3		1	0.22	1.00	ug/L	12/03/25 11:38	VN120325
79-01-6	Trichloroethene	19.2		1	0.090	1.00	ug/L	12/03/25 11:38	VN120325
79-00-5	1,1,2-Trichloroethane	21.1		1	0.21	1.00	ug/L	12/03/25 11:38	VN120325
127-18-4	Tetrachloroethene	16.5		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.3			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.3			70 (75) - 130 (124)	103%	SPK: 50		
2037-26-5	Toluene-d8	49.5			70 (86) - 130 (113)	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.3			70 (77) - 130 (121)	99%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	205000							
540-36-3	1,4-Difluorobenzene	382000							
3114-55-4	Chlorobenzene-d5	345000							
3855-82-1	1,4-Dichlorobenzene-d4	174000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	204614	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	382235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	345174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	173546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	209173	54.267	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.540%			
35) Dibromofluoromethane	8.147	113	135788	51.263	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.520%			
50) Toluene-d8	10.547	98	488254	49.539	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.829	95	166873	49.346	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	60629	19.728	ug/l	99
3) Chloromethane	2.383	50	65720	19.910	ug/l	100
4) Vinyl Chloride	2.536	62	65541	19.518	ug/l	89
5) Bromomethane	2.983	94	34053	21.070	ug/l	94
6) Chloroethane	3.142	64	43089	20.735	ug/l	98
7) Trichlorofluoromethane	3.518	101	94329	19.987	ug/l	98
8) Diethyl Ether	3.965	74	36580	20.650	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	49588	19.736	ug/l	98
10) Methyl Iodide	4.583	142	41239	16.580	ug/l	92
11) Tert butyl alcohol	5.512	59	54309	88.250	ug/l	100
12) 1,1-Dichloroethene	4.347	96	47292	18.945	ug/l	95
13) Acrolein	4.171	56	59542	101.061	ug/l	97
14) Allyl chloride	5.018	41	89883	19.426	ug/l	99
15) Acrylonitrile	5.706	53	178927	100.773	ug/l	98
16) Acetone	4.424	43	128167	91.942	ug/l	97
17) Carbon Disulfide	4.712	76	158397	19.418	ug/l	98
18) Methyl Acetate	5.024	43	84767	20.428	ug/l	99
19) Methyl tert-butyl Ether	5.782	73	194085	20.752	ug/l	99
20) Methylene Chloride	5.271	84	63283	21.218	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	55829	20.189	ug/l	94
22) Diisopropyl ether	6.653	45	214599	21.725	ug/l	97
23) Vinyl Acetate	6.588	43	930390	116.902	ug/l	99
24) 1,1-Dichloroethane	6.547	63	120920	21.616	ug/l	98
25) 2-Butanone	7.465	43	221378	98.785	ug/l	96
26) 2,2-Dichloropropane	7.471	77	99733	20.655	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	66616	20.728	ug/l	97
28) Bromochloromethane	7.800	49	55880	20.052	ug/l	97
29) Tetrahydrofuran	7.824	42	159218	99.052	ug/l	99
30) Chloroform	7.947	83	120855	21.987	ug/l	97
31) Cyclohexane	8.235	56	96506	19.037	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	99906	20.671	ug/l	91
36) 1,1-Dichloropropene	8.347	75	76957	18.825	ug/l	99
37) Ethyl Acetate	7.547	43	107252	19.953	ug/l	100
38) Carbon Tetrachloride	8.335	117	84507	20.765	ug/l	93
39) Methylcyclohexane	9.582	83	75011	17.154	ug/l	90
40) Benzene	8.582	78	243262	20.274	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	53665	20.157	ug/l		99
42) 1,2-Dichloroethane	8.653	62	102116	22.307	ug/l		100
43) Isopropyl Acetate	8.671	43	159565	19.429	ug/l		100
44) Trichloroethene	9.329	130	54294	19.151	ug/l		96
45) 1,2-Dichloropropane	9.600	63	64434	20.960	ug/l		93
46) Dibromomethane	9.688	93	46137	21.030	ug/l		99
47) Bromodichloromethane	9.865	83	97667	21.818	ug/l		89
48) Methyl methacrylate	9.659	41	76248	20.348	ug/l		98
49) 1,4-Dioxane	9.682	88	15069	316.210	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.423	43	513300	106.034	ug/l		99
52) Toluene	10.606	92	144540	20.863	ug/l		100
53) t-1,3-Dichloropropene	10.812	75	93059	20.253	ug/l		99
54) cis-1,3-Dichloropropene	10.288	75	101913	21.091	ug/l		96
55) 1,1,2-Trichloroethane	10.994	97	56551	21.097	ug/l		95
56) Ethyl methacrylate	10.853	69	86232	20.366	ug/l		99
57) 1,3-Dichloropropane	11.141	76	102375	21.171	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.135	63	244731	100.257	ug/l		100
59) 2-Hexanone	11.176	43	299829	98.319	ug/l		100
60) Dibromochloromethane	11.335	129	65438	21.415	ug/l		97
61) 1,2-Dibromoethane	11.447	107	58683	21.619	ug/l		99
64) Tetrachloroethene	11.082	164	45186	16.513	ug/l		95
65) Chlorobenzene	11.864	112	155133	20.009	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.935	131	54875	20.985	ug/l		98
67) Ethyl Benzene	11.941	91	257971	19.037	ug/l		99
68) m/p-Xylenes	12.047	106	189907	37.798	ug/l		97
69) o-Xylene	12.376	106	90507	18.895	ug/l		97
70) Styrene	12.388	104	155850	20.038	ug/l		99
71) Bromoform	12.559	173	39365	20.553	ug/l	#	99
73) Isopropylbenzene	12.676	105	232755	18.139	ug/l		99
74) N-amyl acetate	12.688	43	97909m	22.405	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.911	83	81442	19.633	ug/l		100
76) 1,2,3-Trichloropropane	12.970	75	72180m	17.758	ug/l		
77) Bromobenzene	12.959	156	57417	19.557	ug/l		98
78) n-propylbenzene	13.011	91	289837	18.463	ug/l		100
79) 2-Chlorotoluene	13.100	91	179184	18.692	ug/l		99
80) 1,3,5-Trimethylbenzene	13.147	105	205222	19.301	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.717	75	25746	17.969	ug/l	#	73
82) 4-Chlorotoluene	13.200	91	187794	19.723	ug/l		98
83) tert-Butylbenzene	13.411	119	160403	17.746	ug/l		98
84) 1,2,4-Trimethylbenzene	13.458	105	200317	18.954	ug/l		99
85) sec-Butylbenzene	13.594	105	232322	17.891	ug/l		99
86) p-Isopropyltoluene	13.706	119	189351	17.783	ug/l		98
87) 1,3-Dichlorobenzene	13.711	146	109325	19.129	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	117948	19.702	ug/l		99
89) n-Butylbenzene	14.029	91	180513	17.460	ug/l		98
90) Hexachloroethane	14.311	117	36435	18.731	ug/l		97
91) 1,2-Dichlorobenzene	14.082	146	104500	19.430	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	18143	18.026	ug/l		96
93) 1,2,4-Trichlorobenzene	15.364	180	56227	17.595	ug/l		98
94) Hexachlorobutadiene	15.470	225	19920	17.347	ug/l		97
95) Naphthalene	15.617	128	185176	16.723	ug/l		100
96) 1,2,3-Trichlorobenzene	15.811	180	54328	17.469	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

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

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

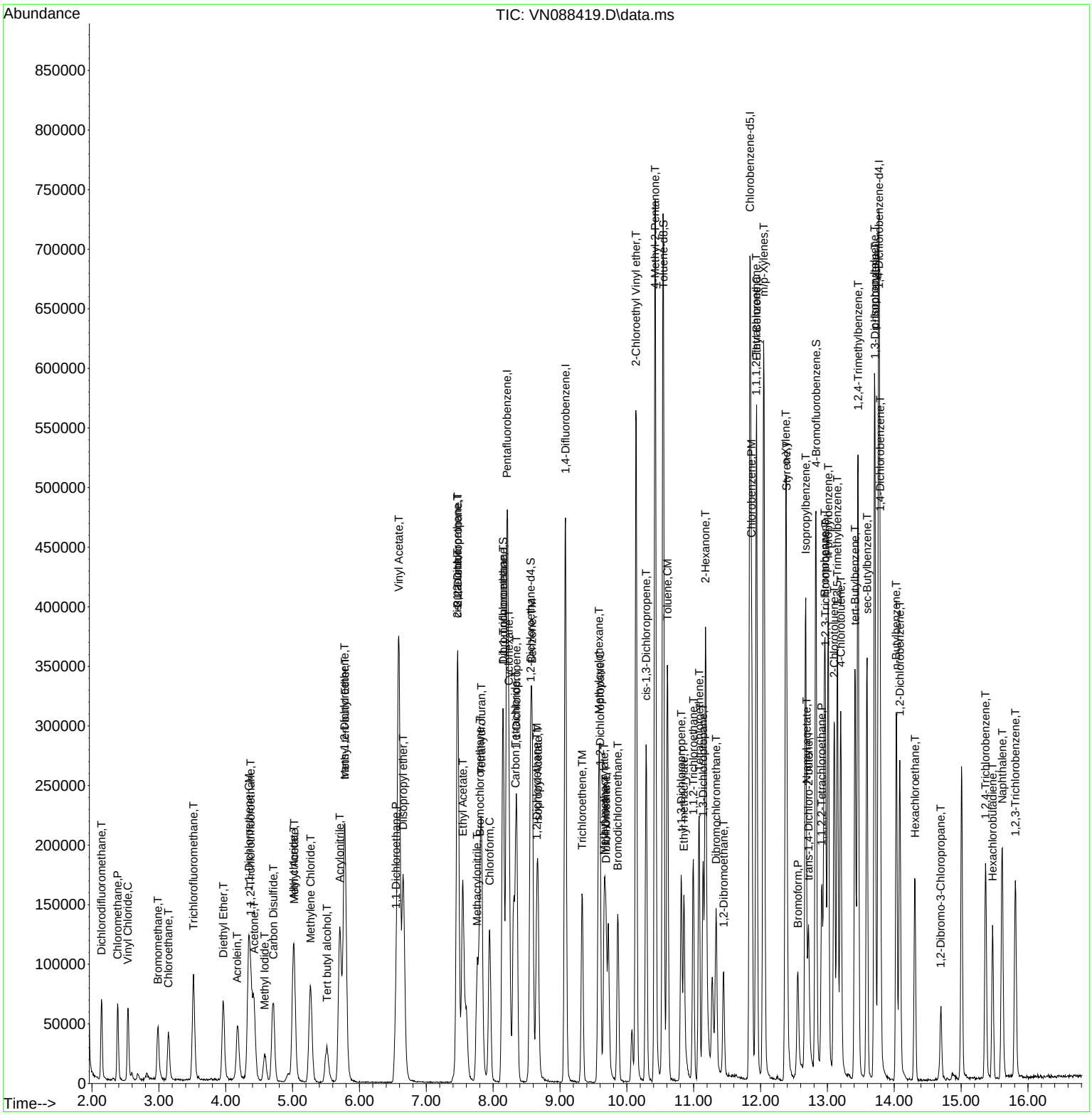
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025



Raw Data: **VN088443.D**

Alliance TECHNICAL GROUP
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:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN1204WBS01	SDG No.:	Q3756
Lab Sample ID:	VN1204WBS01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	20.3		1	0.26	1.00	ug/L	12/04/25 14:12	VN120425
75-35-4	1,1-Dichloroethene	20.4		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
75-34-3	1,1-Dichloroethane	19.6		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
156-59-2	cis-1,2-Dichloroethene	19.0		1	0.19	1.00	ug/L	12/04/25 14:12	VN120425
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/04/25 14:12	VN120425
71-43-2	Benzene	19.3		1	0.15	1.00	ug/L	12/04/25 14:12	VN120425
107-06-2	1,2-Dichloroethane	20.8		1	0.22	1.00	ug/L	12/04/25 14:12	VN120425
79-01-6	Trichloroethene	18.3		1	0.090	1.00	ug/L	12/04/25 14:12	VN120425
79-00-5	1,1,2-Trichloroethane	19.9		1	0.21	1.00	ug/L	12/04/25 14:12	VN120425
127-18-4	Tetrachloroethene	18.1		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.8			70 (74) - 130 (125)	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	51.7			70 (86) - 130 (113)	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	304000							
540-36-3	1,4-Difluorobenzene	560000							
3114-55-4	Chlorobenzene-d5	492000							
3855-82-1	1,4-Dichlorobenzene-d4	238000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

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	8.206	168	303745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	559564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	491842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	237731	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	307567	53.752	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.500%			
35) Dibromofluoromethane	8.147	113	196606	50.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.547	98	745425	51.664	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.320%			
62) 4-Bromofluorobenzene	12.823	95	269159	54.369	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	97797	21.436	ug/l	93
3) Chloromethane	2.383	50	93145	19.009	ug/l	96
4) Vinyl Chloride	2.536	62	100990	20.259	ug/l	100
5) Bromomethane	2.983	94	46454	19.362	ug/l	91
6) Chloroethane	3.142	64	62589	20.289	ug/l	98
7) Trichlorofluoromethane	3.512	101	150074	21.421	ug/l	95
8) Diethyl Ether	3.959	74	53546	20.363	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	78946	21.166	ug/l	99
10) Methyl Iodide	4.583	142	63657	17.241	ug/l	93
11) Tert butyl alcohol	5.506	59	76083	83.283	ug/l	97
12) 1,1-Dichloroethene	4.342	96	75627	20.408	ug/l	96
13) Acrolein	4.183	56	95364	109.036	ug/l	98
14) Allyl chloride	5.012	41	131363	19.125	ug/l	97
15) Acrylonitrile	5.706	53	244233	92.662	ug/l	99
16) Acetone	4.424	43	183497	88.674	ug/l	96
17) Carbon Disulfide	4.712	76	223379	18.447	ug/l	96
18) Methyl Acetate	5.018	43	120530	19.567	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	272930	19.658	ug/l	99
20) Methylene Chloride	5.265	84	81214	18.343	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	79259	19.308	ug/l	98
22) Diisopropyl ether	6.659	45	293315	20.002	ug/l	98
23) Vinyl Acetate	6.588	43	1278749	108.235	ug/l	99
24) 1,1-Dichloroethane	6.553	63	162999	19.628	ug/l	97
25) 2-Butanone	7.465	43	310201	93.245	ug/l	100
26) 2,2-Dichloropropane	7.471	77	150702	21.025	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	90646	19.000	ug/l	96
28) Bromochloromethane	7.794	49	70911	17.142	ug/l	98
29) Tetrahydrofuran	7.818	42	228135	95.607	ug/l	98
30) Chloroform	7.953	83	165040	20.226	ug/l	100
31) Cyclohexane	8.241	56	151560	20.140	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	148393	20.683	ug/l	97
36) 1,1-Dichloropropene	8.353	75	116928	19.538	ug/l	98
37) Ethyl Acetate	7.547	43	137369	17.457	ug/l	97
38) Carbon Tetrachloride	8.341	117	123356	20.706	ug/l	98
39) Methylcyclohexane	9.582	83	125506	19.606	ug/l	90
40) Benzene	8.582	78	339466	19.326	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

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	7.765	41	74031	18.995	ug/l		99
42) 1,2-Dichloroethane	8.647	62	139506	20.817	ug/l		97
43) Isopropyl Acetate	8.671	43	224127	18.642	ug/l		99
44) Trichloroethene	9.329	130	76077	18.330	ug/l		97
45) 1,2-Dichloropropane	9.600	63	87062	19.346	ug/l		99
46) Dibromomethane	9.688	93	62387	19.425	ug/l		99
47) Bromodichloromethane	9.865	83	130611	19.931	ug/l		99
48) Methyl methacrylate	9.659	41	104044	18.966	ug/l		99
49) 1,4-Dioxane	9.677	88	21834	312.972	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.424	43	704216	99.372	ug/l		100
52) Toluene	10.606	92	205014	20.214	ug/l		99
53) t-1,3-Dichloropropene	10.812	75	131896	19.609	ug/l		100
54) cis-1,3-Dichloropropene	10.288	75	137564	19.447	ug/l		96
55) 1,1,2-Trichloroethane	10.994	97	77993	19.876	ug/l		96
56) Ethyl methacrylate	10.853	69	122489	19.761	ug/l		99
57) 1,3-Dichloropropane	11.141	76	141160	19.940	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.135	63	316457	88.556	ug/l		98
59) 2-Hexanone	11.176	43	422202	94.573	ug/l		99
60) Dibromochloromethane	11.335	129	89380	19.980	ug/l		100
61) 1,2-Dibromoethane	11.447	107	78746	19.817	ug/l		98
64) Tetrachloroethene	11.082	164	70474	18.074	ug/l		94
65) Chlorobenzene	11.870	112	218454	19.774	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.941	131	72384	19.426	ug/l		96
67) Ethyl Benzene	11.941	91	390956	20.247	ug/l		98
68) m/p-Xylenes	12.047	106	286124	39.966	ug/l		96
69) o-Xylene	12.370	106	139831	20.487	ug/l		99
70) Styrene	12.388	104	232254	20.957	ug/l		99
71) Bromoform	12.553	173	55870	20.471	ug/l	#	99
73) Isopropylbenzene	12.670	105	360370	20.502	ug/l		99
74) N-amyl acetate	12.688	43	116340m	19.435	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.912	83	112119	19.731	ug/l		99
76) 1,2,3-Trichloropropane	12.970	75	113577m	20.398	ug/l		
77) Bromobenzene	12.953	156	82378	20.483	ug/l		99
78) n-propylbenzene	13.012	91	452912	21.062	ug/l		99
79) 2-Chlorotoluene	13.100	91	273041	20.792	ug/l		98
80) 1,3,5-Trimethylbenzene	13.147	105	301838	20.723	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.723	75	35744	18.212	ug/l	#	91
82) 4-Chlorotoluene	13.194	91	286032	21.930	ug/l		97
83) tert-Butylbenzene	13.412	119	261764	21.141	ug/l		97
84) 1,2,4-Trimethylbenzene	13.459	105	312793	21.606	ug/l		97
85) sec-Butylbenzene	13.594	105	375613	21.117	ug/l		99
86) p-Isopropyltoluene	13.706	119	306028	20.981	ug/l		97
87) 1,3-Dichlorobenzene	13.712	146	154606	19.748	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	162379	19.800	ug/l		99
89) n-Butylbenzene	14.029	91	297476	21.005	ug/l		98
90) Hexachloroethane	14.306	117	52252	19.610	ug/l		98
91) 1,2-Dichlorobenzene	14.082	146	147868	20.071	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	28137	20.408	ug/l		99
93) 1,2,4-Trichlorobenzene	15.364	180	83932	19.174	ug/l		95
94) Hexachlorobutadiene	15.470	225	28512	18.126	ug/l		97
95) Naphthalene	15.611	128	307489	20.271	ug/l		100
96) 1,2,3-Trichlorobenzene	15.811	180	83257	19.543	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

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)

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

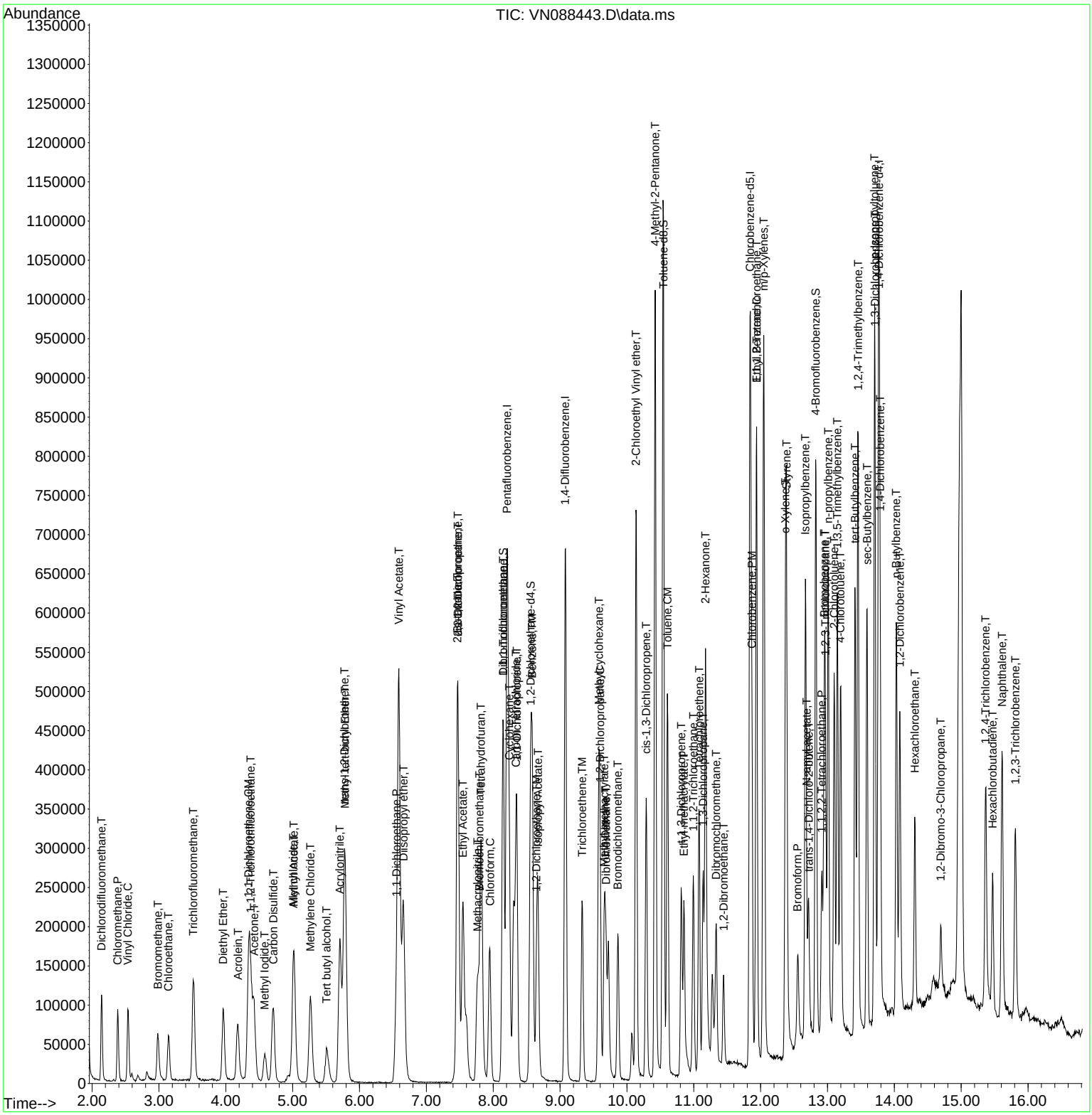
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations APPROVED

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



Raw Data: **VN088432.D**

Alliance TECHNICAL GROUP
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:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN1203WBSD01	SDG No.:	Q3756
Lab Sample ID:	VN1203WBSD01	Matrix:	Water
Analytical Method:	8260D Level: LOW	% Solid:	0
Sample Wt/Vol:	5 mL 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	20.5		1	0.26	1.00	ug/L	12/03/25 16:17	VN120325
75-35-4	1,1-Dichloroethene	21.2		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.19	1.00	ug/L	12/03/25 16:17	VN120325
71-55-6	1,1,1-Trichloroethane	21.9		1	0.20	1.00	ug/L	12/03/25 16:17	VN120325
71-43-2	Benzene	20.2		1	0.15	1.00	ug/L	12/03/25 16:17	VN120325
107-06-2	1,2-Dichloroethane	22.4		1	0.22	1.00	ug/L	12/03/25 16:17	VN120325
79-01-6	Trichloroethene	19.0		1	0.090	1.00	ug/L	12/03/25 16:17	VN120325
79-00-5	1,1,2-Trichloroethane	21.4		1	0.21	1.00	ug/L	12/03/25 16:17	VN120325
127-18-4	Tetrachloroethene	16.7		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.9			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.9			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	52.0			70 (86) - 130 (113)	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.2			70 (77) - 130 (121)	104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	250000							
540-36-3	1,4-Difluorobenzene	474000							
3114-55-4	Chlorobenzene-d5	424000							
3855-82-1	1,4-Dichlorobenzene-d4	214000							

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	250101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	473571	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	423667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	214103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258504	54.868	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.740%			
35) Dibromofluoromethane	8.147	113	170328	51.900	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.547	98	634377	51.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.829	95	218669	52.191	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	81999	21.828	ug/l	98
3) Chloromethane	2.383	50	81497	20.200	ug/l	98
4) Vinyl Chloride	2.536	62	84304	20.539	ug/l	95
5) Bromomethane	2.983	94	39841	20.168	ug/l	100
6) Chloroethane	3.142	64	52131	20.524	ug/l	88
7) Trichlorofluoromethane	3.518	101	126368	21.906	ug/l	99
8) Diethyl Ether	3.959	74	46608	21.526	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	66725	21.727	ug/l	100
10) Methyl Iodide	4.583	142	51913	17.076	ug/l	98
11) Tert butyl alcohol	5.518	59	69415	92.282	ug/l	97
12) 1,1-Dichloroethene	4.342	96	64784	21.232	ug/l	93
13) Acrolein	4.183	56	88085	122.316	ug/l	99
14) Allyl chloride	5.012	41	115902	20.494	ug/l	97
15) Acrylonitrile	5.712	53	227954	105.036	ug/l	97
16) Acetone	4.418	43	244436	143.458	ug/l	96
17) Carbon Disulfide	4.706	76	200528	20.111	ug/l #	95
18) Methyl Acetate	5.024	43	118332	23.331	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	236697	20.705	ug/l	98
20) Methylene Chloride	5.265	84	76028	20.855	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	68780	20.349	ug/l	95
22) Diisopropyl ether	6.653	45	266704	22.089	ug/l #	94
23) Vinyl Acetate	6.588	43	1164465	119.703	ug/l	97
24) 1,1-Dichloroethane	6.559	63	147767	21.611	ug/l	99
25) 2-Butanone	7.471	43	326935	119.354	ug/l	96
26) 2,2-Dichloropropane	7.471	77	122234	20.711	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	81731	20.806	ug/l	98
28) Bromochloromethane	7.794	49	78944	23.177	ug/l	97
29) Tetrahydrofuran	7.824	42	210835	107.309	ug/l	98
30) Chloroform	7.947	83	149314	22.224	ug/l	91
31) Cyclohexane	8.241	56	125860	20.312	ug/l	94
32) 1,1,1-Trichloroethane	8.147	97	129487	21.919	ug/l	96
36) 1,1-Dichloropropene	8.353	75	99068	19.560	ug/l	99
37) Ethyl Acetate	7.541	43	138649	20.819	ug/l	99
38) Carbon Tetrachloride	8.341	117	105371	20.898	ug/l	96
39) Methylcyclohexane	9.582	83	101432	18.723	ug/l	94
40) Benzene	8.588	78	299926	20.176	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	67759	20.542	ug/l		98
42) 1,2-Dichloroethane	8.647	62	126828	22.362	ug/l		99
43) Isopropyl Acetate	8.671	43	204303	20.078	ug/l		100
44) Trichloroethene	9.335	130	66882	19.041	ug/l		99
45) 1,2-Dichloropropane	9.600	63	80741	21.199	ug/l		95
46) Dibromomethane	9.688	93	58631	21.571	ug/l		98
47) Bromodichloromethane	9.871	83	117197	21.132	ug/l		93
48) Methyl methacrylate	9.665	41	95681	20.609	ug/l		97
49) 1,4-Dioxane	9.677	88	20393	345.396	ug/l	#	88
51) 4-Methyl-2-Pentanone	10.424	43	656411	109.445	ug/l		98
52) Toluene	10.606	92	182595	21.272	ug/l		98
53) t-1,3-Dichloropropene	10.818	75	114495	20.113	ug/l		98
54) cis-1,3-Dichloropropene	10.288	75	123356	20.605	ug/l		97
55) 1,1,2-Trichloroethane	10.994	97	71038	21.390	ug/l		98
56) Ethyl methacrylate	10.853	69	110151	20.998	ug/l		96
57) 1,3-Dichloropropane	11.141	76	128913	21.517	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.141	63	286552	94.749	ug/l		100
59) 2-Hexanone	11.176	43	412680	109.226	ug/l		100
60) Dibromochloromethane	11.335	129	81410	21.503	ug/l		100
61) 1,2-Dibromoethane	11.447	107	70205	20.876	ug/l		99
64) Tetrachloroethene	11.076	164	55998	16.673	ug/l		96
65) Chlorobenzene	11.870	112	191798	20.154	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.935	131	67516	21.036	ug/l		99
67) Ethyl Benzene	11.941	91	333864	20.073	ug/l		99
68) m/p-Xylenes	12.047	106	246899	40.037	ug/l		94
69) o-Xylene	12.376	106	118643	20.180	ug/l		98
70) Styrene	12.388	104	194030	20.325	ug/l		98
71) Bromoform	12.559	173	49639	21.115	ug/l	#	100
73) Isopropylbenzene	12.670	105	303830	19.193	ug/l		98
74) N-amyl acetate	12.670	43	93651m	17.371	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.917	83	101816	19.895	ug/l		93
76) 1,2,3-Trichloropropane	12.970	75	86438m	17.237	ug/l		
77) Bromobenzene	12.953	156	73974	20.423	ug/l		98
78) n-propylbenzene	13.012	91	384189	19.838	ug/l		98
79) 2-Chlorotoluene	13.100	91	227899	19.270	ug/l		99
80) 1,3,5-Trimethylbenzene	13.147	105	258850	19.733	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.717	75	30488	17.248	ug/l	#	96
82) 4-Chlorotoluene	13.200	91	237099	20.185	ug/l		99
83) tert-Butylbenzene	13.417	119	214026	19.193	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	260658	19.991	ug/l		98
85) sec-Butylbenzene	13.594	105	310564	19.386	ug/l		100
86) p-Isopropyltoluene	13.706	119	257654	19.614	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	140444	19.919	ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	145470	19.696	ug/l		98
89) n-Butylbenzene	14.035	91	242333	19.000	ug/l		98
90) Hexachloroethane	14.306	117	48032	20.016	ug/l		99
91) 1,2-Dichlorobenzene	14.082	146	131671	19.844	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22261	17.928	ug/l		98
93) 1,2,4-Trichlorobenzene	15.370	180	69170	17.545	ug/l		95
94) Hexachlorobutadiene	15.470	225	26725	18.864	ug/l		98
95) Naphthalene	15.611	128	243313	17.810	ug/l		100
96) 1,2,3-Trichlorobenzene	15.811	180	71458	18.625	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

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

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

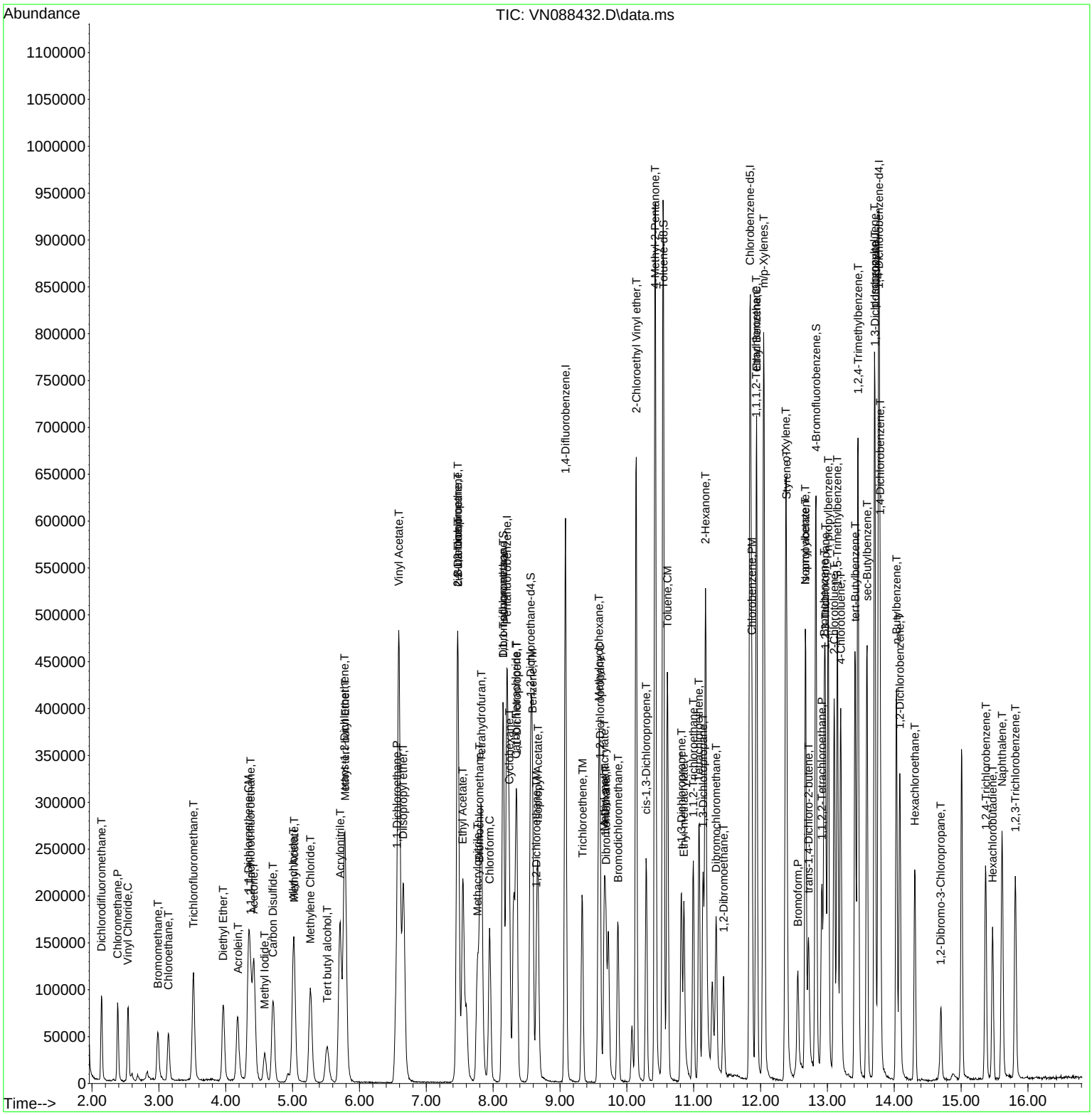
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025



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

Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088344.D	1,1-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,4-Dichlorobenzene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	2-Hexanone	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	cis-1,2-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	Diisopropyl ether	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	Vinyl Acetate	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	N-amyl acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	Vinyl Acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	Vinyl Acetate	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN088348.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Allyl chloride	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Vinyl Acetate	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Allyl chloride	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Vinyl Acetate	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	N-amyl acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	Vinyl Acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN120325	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088416.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VSTDCCC050	VN088416.D	N-amyl acetate	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	N-amyl acetate	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBSD01	VN088432.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VN1203WBSD01	VN088432.D	N-amyl acetate	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	N-amyl acetate	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN120425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088437.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VSTDCCC050	VN088437.D	N-amyl acetate	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	N-amyl acetate	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	N-amyl acetate	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/26/2025 1:52:19 PM				
SubDirectory	VN112425	HP Acquire Method	MSVOA_N		HP Processing Method	82N112425W.M	

STD. NAME	STD REF.#
Tune/Reschk	VP136378
Initial Calibration Stds	VP136444,VP136445,VP136446,VP136447,VP136448,VP136449
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP136450
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088343.D	24 Nov 2025 08:17	JC\MD	Ok
2	VSTDICC001	VN088344.D	24 Nov 2025 12:38	JC\MD	Ok,M
3	VSTDICC005	VN088345.D	24 Nov 2025 13:11	JC\MD	Ok,M
4	VSTDICC020	VN088346.D	24 Nov 2025 13:32	JC\MD	Ok,M
5	VSTDICCC050	VN088347.D	24 Nov 2025 13:53	JC\MD	Ok,M
6	VSTDICC100	VN088348.D	24 Nov 2025 14:14	JC\MD	Ok,M
7	VSTDICC150	VN088349.D	24 Nov 2025 14:35	JC\MD	Ok,M
8	IBLK	VN088350.D	24 Nov 2025 14:56	JC\MD	Ok
9	VSTDICV050	VN088351.D	24 Nov 2025 15:18	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM		
SubDirectory	VN120325	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136478
Initial Calibration Stds	
CCC	VP136479,VP136480
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088415.D	03 Dec 2025 09:36	JC\MD	Ok
2	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	JC\MD	Ok,M
3	VN1203MBL01	VN088417.D	03 Dec 2025 10:43	JC\MD	Ok
4	VN1203WBL01	VN088418.D	03 Dec 2025 11:03	JC\MD	Ok
5	VN1203WBS01	VN088419.D	03 Dec 2025 11:38	JC\MD	Ok,M
6	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	JC\MD	Not Ok
7	IBLK	VN088421.D	03 Dec 2025 12:31	JC\MD	Ok
8	Q3756-09	VN088422.D	03 Dec 2025 12:52	JC\MD	Ok
9	Q3756-10	VN088423.D	03 Dec 2025 13:12	JC\MD	ReRun
10	Q3756-01	VN088424.D	03 Dec 2025 13:33	JC\MD	Not Ok
11	Q3756-03	VN088425.D	03 Dec 2025 13:53	JC\MD	Not Ok
12	Q3756-05	VN088426.D	03 Dec 2025 14:13	JC\MD	Not Ok
13	Q3756-07	VN088427.D	03 Dec 2025 14:34	JC\MD	Not Ok
14	PB170786TB	VN088428.D	03 Dec 2025 14:54	JC\MD	Ok
15	Q3750-07	VN088429.D	03 Dec 2025 15:15	JC\MD	ReRun
16	Q3750-08	VN088430.D	03 Dec 2025 15:35	JC\MD	ReRun
17	Q3725-02	VN088431.D	03 Dec 2025 15:56	JC\MD	Not Ok
18	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17	JC\MD	Ok,M
19	IBLK	VN088433.D	03 Dec 2025 16:37	JC\MD	Ok
20	Q3756-10RE	VN088434.D	03 Dec 2025 16:58	JC\MD	Confirms
21	VSTDCCC050	VN088435.D	03 Dec 2025 17:18	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM		
SubDirectory	VN120425	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136505
Initial Calibration Stds	
CCC	VP136506,VP136507
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088436.D	04 Dec 2025 11:03	JC\MD	Ok
2	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	JC\MD	Ok,M
3	VN1204MBL01	VN088438.D	04 Dec 2025 12:17	JC\MD	Ok
4	VN1204WBL01	VN088439.D	04 Dec 2025 12:38	JC\MD	Ok
5	VN1204MBS01	VN088440.D	04 Dec 2025 13:11	JC\MD	Ok,M
6	Q3768-01	VN088441.D	04 Dec 2025 13:31	JC\MD	Not Ok
7	IBLK	VN088442.D	04 Dec 2025 13:52	JC\MD	Ok
8	VN1204WBS01	VN088443.D	04 Dec 2025 14:12	JC\MD	Ok,M
9	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45	JC\MD	Ok,M
10	Q3756-03	VN088445.D	04 Dec 2025 15:06	JC\MD	Ok
11	Q3756-01	VN088446.D	04 Dec 2025 15:26	JC\MD	Ok
12	Q3756-05	VN088447.D	04 Dec 2025 15:47	JC\MD	Ok
13	Q3756-07	VN088448.D	04 Dec 2025 16:07	JC\MD	Ok
14	Q3757-12	VN088449.D	04 Dec 2025 16:28	JC\MD	Ok
15	Q3757-11	VN088450.D	04 Dec 2025 16:48	JC\MD	Ok,M
16	Q3757-01	VN088451.D	04 Dec 2025 17:09	JC\MD	Not Ok
17	Q3757-03	VN088452.D	04 Dec 2025 17:29	JC\MD	Not Ok
18	Q3757-05	VN088453.D	04 Dec 2025 17:50	JC\MD	Not Ok
19	Q3757-07	VN088454.D	04 Dec 2025 18:10	JC\MD	Not Ok
20	Q3757-09	VN088455.D	04 Dec 2025 18:31	JC\MD	Not Ok
21	Q3750-07	VN088456.D	04 Dec 2025 18:51	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM		
SubDirectory	VN120425	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136505
Initial Calibration Stds	
CCC	VP136506,VP136507
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3750-08	VN088457.D	04 Dec 2025 19:11	JC\MD	Ok
23	PB170809TB	VN088458.D	04 Dec 2025 19:32	JC\MD	Ok
24	Q3775-01	VN088459.D	04 Dec 2025 19:52	JC\MD	Not Ok
25	IBLK	VN088460.D	04 Dec 2025 20:13	JC\MD	Ok
26	VSTDCCC050	VN088461.D	04 Dec 2025 20:33	JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/26/2025 1:52:19 PM		
SubDirectory	VN112425	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136378
Initial Calibration Stds	VP136444,VP136445,VP136446,VP136447,VP136448,VP136449
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP136450
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088343.D	24 Nov 2025 08:17		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088344.D	24 Nov 2025 12:38		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088345.D	24 Nov 2025 13:11	COM.#74 Peak not detected in 1 and 5 PPB	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088346.D	24 Nov 2025 13:32		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088347.D	24 Nov 2025 13:53	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088348.D	24 Nov 2025 14:14		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088349.D	24 Nov 2025 14:35		JC\MD	Ok,M
8	IBLK	IBLK	VN088350.D	24 Nov 2025 14:56		JC\MD	Ok
9	VSTDICV050	ICVVN112425	VN088351.D	24 Nov 2025 15:18		JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM		
SubDirectory	VN120325	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136478
Initial Calibration Stds	
CCC	VP136479,VP136480
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088415.D	03 Dec 2025 09:36		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	pH#Lot#V12668	JC\MD	Ok,M
3	VN1203MBL01	VN1203MBL01	VN088417.D	03 Dec 2025 10:43		JC\MD	Ok
4	VN1203WBL01	VN1203WBL01	VN088418.D	03 Dec 2025 11:03		JC\MD	Ok
5	VN1203WBS01	VN1203WBS01	VN088419.D	03 Dec 2025 11:38		JC\MD	Ok,M
6	VN1203WBS02	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	Recovery fail	JC\MD	Not Ok
7	IBLK	IBLK	VN088421.D	03 Dec 2025 12:31		JC\MD	Ok
8	Q3756-09	EB01-120225	VN088422.D	03 Dec 2025 12:52	vial A pH<2 EB	JC\MD	Ok
9	Q3756-10	TB01-120225	VN088423.D	03 Dec 2025 13:12	vial A pH<2 TB;Surrogate fail	JC\MD	ReRun
10	Q3756-01	OW-04B-26.5-120225	VN088424.D	03 Dec 2025 13:33	Surrogate fail;Need straight run	JC\MD	Not Ok
11	Q3756-03	BR-01-190-120225	VN088425.D	03 Dec 2025 13:53	Need Straight Run	JC\MD	Not Ok
12	Q3756-05	MW-04-12-120225	VN088426.D	03 Dec 2025 14:13	Need Straight Run	JC\MD	Not Ok
13	Q3756-07	MW-13B-47.5-120225	VN088427.D	03 Dec 2025 14:34	Surrogate fail;Need straight run	JC\MD	Not Ok
14	PB170786TB	PB170786TB	VN088428.D	03 Dec 2025 14:54		JC\MD	Ok
15	Q3750-07	FENCE WC-1	VN088429.D	03 Dec 2025 15:15	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
16	Q3750-08	FENCE WC-2	VN088430.D	03 Dec 2025 15:35	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
17	Q3725-02	STOCKPILE-SAMPLES	VN088431.D	03 Dec 2025 15:56	Not in Login page	JC\MD	Not Ok
18	VN1203WBSD01	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM		
SubDirectory	VN120325	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136478
Initial Calibration Stds	
CCC	VP136479,VP136480
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	IBLK	IBLK	VN088433.D	03 Dec 2025 16:37		JC\MD	Ok
20	Q3756-10RE	TB01-120225RE	VN088434.D	03 Dec 2025 16:58	vial B pH<2 TB;Surrogate fail	JC\MD	Confirms
21	VSTDCCC050	VSTDCCC050EC	VN088435.D	03 Dec 2025 17:18		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM		
SubDirectory	VN120425	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136505
Initial Calibration Stds	
CCC	VP136506,VP136507
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088436.D	04 Dec 2025 11:03		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	pH#Lot#V12668	JC\MD	Ok,M
3	VN1204MBL01	VN1204MBL01	VN088438.D	04 Dec 2025 12:17		JC\MD	Ok
4	VN1204WBL01	VN1204WBL01	VN088439.D	04 Dec 2025 12:38		JC\MD	Ok
5	VN1204MBS01	VN1204MBS01	VN088440.D	04 Dec 2025 13:11		JC\MD	Ok,M
6	Q3768-01	20071	VN088441.D	04 Dec 2025 13:31	Need Soil Run	JC\MD	Not Ok
7	IBLK	IBLK	VN088442.D	04 Dec 2025 13:52		JC\MD	Ok
8	VN1204WBS01	VN1204WBS01	VN088443.D	04 Dec 2025 14:12		JC\MD	Ok,M
9	VN1204WBSD01	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45		JC\MD	Ok,M
10	Q3756-03	BR-01-190-120225	VN088445.D	04 Dec 2025 15:06	vial A pH<2	JC\MD	Ok
11	Q3756-01	OW-04B-26.5-120225	VN088446.D	04 Dec 2025 15:26	vial A pH<2	JC\MD	Ok
12	Q3756-05	MW-04-12-120225	VN088447.D	04 Dec 2025 15:47	vial A pH<2	JC\MD	Ok
13	Q3756-07	MW-13B-47.5-120225	VN088448.D	04 Dec 2025 16:07	vial A pH<2	JC\MD	Ok
14	Q3757-12	TB01-120325	VN088449.D	04 Dec 2025 16:28	vial A pH<2 TB	JC\MD	Ok
15	Q3757-11	EB01-120325	VN088450.D	04 Dec 2025 16:48	vial A pH<2 EB	JC\MD	Ok,M
16	Q3757-01	MW-14A-17.5-120325	VN088451.D	04 Dec 2025 17:09	Need Straight Run	JC\MD	Not Ok
17	Q3757-03	BR-03D-490-120325	VN088452.D	04 Dec 2025 17:29	Need Straight Run	JC\MD	Not Ok
18	Q3757-05	MW-14B-46-120325	VN088453.D	04 Dec 2025 17:50	Need Straight Run	JC\MD	Not Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM		
SubDirectory	VN120425	HP Acquire Method		HP Processing Method	82N112425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP136505
Initial Calibration Stds	
CCC	VP136506,VP136507
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3757-07	RMW-05B-90.5-120325	VN088454.D	04 Dec 2025 18:10	Need Straight Run	JC\MD	Not Ok
20	Q3757-09	OW-05B-72-120325	VN088455.D	04 Dec 2025 18:31	Need Straight Run	JC\MD	Not Ok
21	Q3750-07	FENCE WC-1	VN088456.D	04 Dec 2025 18:51	vial B pH#5.0	JC\MD	Ok
22	Q3750-08	FENCE WC-2	VN088457.D	04 Dec 2025 19:11	vial B pH#5.0	JC\MD	Ok
23	PB170809TB	PB170809TB	VN088458.D	04 Dec 2025 19:32		JC\MD	Ok
24	Q3775-01	NGKO	VN088459.D	04 Dec 2025 19:52	Need Straight Run	JC\MD	Not Ok
25	IBLK	IBLK	VN088460.D	04 Dec 2025 20:13		JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN088461.D	04 Dec 2025 20:33		JC\MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO.
QUOTE NO. Q3756
COC Number 2047323

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Ynfante
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D4033126 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1. Site Specific VOCs (8260D-Low)
2. Trace VOCs (site specific) (SFAM01)-SIM
3. 1,4 Dioxane (8270E-SIM)
4.
5.
6.
7.
8.
9.

PRESERVATIVES / **COMMENTS**

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

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1 (A/E)	2 (A/E)	3 (E)	4	5	6	7	8	9	COMMENTS
1.	OW-04B-26.5-120225	GW		X	12/2/25	1110	5	X		X							
2.	OW-04B-26.5-120225-SIM	GW		X	12/2/25	1110	3		X								
3.	BR-01-190-120225	GW		X	12/2/25	1230	5	X		X							
4.	BR-01-190-120225-SIM	GW		X	12/2/25	1230	3		X								
5.	MW-04-12-120225	GW		X	12/2/25	1410	5	X		X							
6.	MW-04-12-120225-SIM	GW		X	12/2/25	1410	3		X								
7.	MW-13B-47.5-120225	GW		X	12/2/25	1420	5	X		X							
8.	MW-13B-47.5-120225-SIM	GW		X	12/2/25	1420	3		X								
9.	EB01-120225	DI		X	12/2/25	1500	8	X	X	X							
10.	TB01-120225	DI		X	12/2/25	0800	4	X	X								

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	12/2/25 1600	1. [signature] 1600 12-2-25
2.		2.
3. [signature]	12-2-25 1735	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: See work order for list of site specific VOCs

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3756 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 12/3/2025 9:25:00 AM
Project Name : Former Schlumberger STC
Receive DateTime : 12/2/2025 5:35:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3756-01	OW-04B-26.5-120225	Water	12/02/2025	11:10					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-02	OW-04B-26.5-120225-SIM	Water	12/02/2025	11:10					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-03	BR-01-190-120225	Water	12/02/2025	12:30					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-04	BR-01-190-120225-SIM	Water	12/02/2025	12:30					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-05	MW-04-12-120225	Water	12/02/2025	14:10					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-06	MW-04-12-120225-SIM	Water	12/02/2025	14:10					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-07	MW-13B-47.5-120225	Water	12/02/2025	14:20					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-08	MW-13B-47.5-120225-SIM	Water	12/02/2025	14:20					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3756 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 12/3/2025 9:25:00 AM
Project Name : Former Schlumberger STC
Receive DateTime : 12/2/2025 5:35:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-09	EB01-120225	Water	12/02/2025	15:00					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-10	TB01-120225	Water	12/02/2025	08:00					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
					VOCMS Group3		8260-Low		10 Bus. Days

Relinguished By : CP
Date / Time : 12/3/25 10:20

Received By : Sean
Date / Time : 12/03/25 10:20 Right 4

Storage Area : VOA Refridgerator Room