

DATA PACKAGE

GENERAL CHEMISTRY
METALS
VOLATILE ORGANICS

PROJECT NAME : BUFFINGTON

G ENVIRONMENTAL

8 Carriage Ln

Succasunna, NJ - 07876

Phone No: 973-294-1771

ORDER ID : Q3464

ATTENTION : Gary Landis



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

1

Laboratory Name : Alliance Technical Group LLC Client : G Environmental
 Project Location : NJ Project Number : Buffington
 Laboratory Sample ID(s) : Q3464 Sampling Date(s) : 10/24/2025
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **300.0,6010D,8260D,SM2320 B,SM5220 D,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☒ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☒ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☒ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☒ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

Cover Page

Order ID : Q3464

Project ID : Buffington

Client : G Environmental

Lab Sample Number

Q3464-01
Q3464-02

Client Sample Number

MW2
MW3

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

G Environmental

Project Name: Buffington

Project # N/A

Order ID # Q3464

Test Name: VOCMS Group1, Metals Group4, Alkalinity, Anions Group1, COD

A. Number of Samples and Date of Receipt:

2 Water samples were received on 10/24/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1, Metals Group4, Alkalinity, Anions Group1, COD. This data package contains results for VOCMS Group1(8260-Low), Metals Group4(6010D), Alkalinity (SM2320 B), Anions Group1(300.0), COD(SM5220 D).

C. Analytical Techniques:

VOCMS Group1 : The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260-Low.

Metals Group4 : The analysis of Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

Wetchem : The analysis of Anions Group1 was based on method 300.0, The analysis of Alkalinity was based on method SM2320 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Wetchem : Sample MW2 was diluted due to high concentrations for Sulfate & Sample MW3 was diluted due to high concentrations for Sulfate.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following Wetchem : The Matrix Spike (MW2MS) analysis met criteria for all compounds except for Anions Group1(Sulfate) due to matrix Interference.

284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

The MSD recoveries met the requirements for all compounds except following Wetchem : The Matrix Spike Duplicate (MW2MSD) analysis met criteria for all compounds except for Anions Group1(Sulfate) due to Matrix interference.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all compounds

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

VOCMS Group1 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

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

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3464

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/06/2025

Hit Summary Sheet
SW-846

SDG No.: Q3464
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW2							
Q3464-01	MW2	Water	Chloromethane	52.2		0.32	1.00	ug/L
Q3464-01	MW2	Water	Bromomethane	4.30	J	1.40	5.00	ug/L
Q3464-01	MW2	Water	Acetone	26.1		1.50	5.00	ug/L
Q3464-01	MW2	Water	Carbon Disulfide	0.72	J	0.21	1.00	ug/L
Q3464-01	MW2	Water	2-Butanone	2.10	J	0.98	5.00	ug/L
Q3464-01	MW2	Water	Chloroform	4.00		0.25	1.00	ug/L
Q3464-01	MW2	Water	Bromodichloromethane	0.55	J	0.22	1.00	ug/L
			Total Voc :			90.0		
Q3464-01	MW2	Water	Naphthalene	* 4.30	J	0.20	1.00	ug/L
Q3464-01	MW2	Water	Methyl Iodide	* 6.10	J	0.83	5.00	ug/L
			Total Tics :			10.4		
			Total Concentration:			100		
Client ID:	MW3							
Q3464-02	MW3	Water	Chloromethane	5.70		0.32	1.00	ug/L
Q3464-02	MW3	Water	Acetone	13.4		1.50	5.00	ug/L
Q3464-02	MW3	Water	Chloroform	8.50		0.25	1.00	ug/L
Q3464-02	MW3	Water	Bromodichloromethane	1.40		0.22	1.00	ug/L
			Total Voc :			29.0		
			Total Concentration:			29.0		



SAMPLE DATA

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: MW2
Lab Sample ID: Q3464-01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 10/24/25
Date Received: 10/24/25
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:10	VN102725
74-87-3	Chloromethane	52.2		1	0.32	1.00	ug/L	10/27/25 13:10	VN102725
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	10/27/25 13:10	VN102725
74-83-9	Bromomethane	4.30	J	1	1.40	5.00	ug/L	10/27/25 13:10	VN102725
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	10/27/25 13:10	VN102725
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	10/27/25 13:10	VN102725
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:10	VN102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:10	VN102725
67-64-1	Acetone	26.1		1	1.50	5.00	ug/L	10/27/25 13:10	VN102725
75-15-0	Carbon Disulfide	0.72	J	1	0.21	1.00	ug/L	10/27/25 13:10	VN102725
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:10	VN102725
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	10/27/25 13:10	VN102725
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	10/27/25 13:10	VN102725
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:10	VN102725
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:10	VN102725
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	10/27/25 13:10	VN102725
78-93-3	2-Butanone	2.10	J	1	0.98	5.00	ug/L	10/27/25 13:10	VN102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:10	VN102725
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:10	VN102725
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:10	VN102725
67-66-3	Chloroform	4.00		1	0.25	1.00	ug/L	10/27/25 13:10	VN102725
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:10	VN102725
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:10	VN102725
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:10	VN102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:10	VN102725
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	10/27/25 13:10	VN102725
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:10	VN102725
74-95-3	Dibromomethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:10	VN102725
75-27-4	Bromodichloromethane	0.55	J	1	0.22	1.00	ug/L	10/27/25 13:10	VN102725
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	10/27/25 13:10	VN102725
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	10/27/25 13:10	VN102725
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	10/27/25 13:10	VN102725
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:10	VN102725
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	10/27/25 13:10	VN102725
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	10/27/25 13:10	VN102725
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:10	VN102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:10	VN102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:10	VN102725
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	10/27/25 13:10	VN102725
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	10/27/25 13:10	VN102725
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:10	VN102725
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:10	VN102725
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:10	VN102725

Report of Analysis

Client: G Environmental
 Project: Buffington
 Client Sample ID: MW2
 Lab Sample ID: Q3464-01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected: 10/24/25
 Date Received: 10/24/25
 SDG No.: Q3464
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:10	VN102725
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	10/27/25 13:10	VN102725
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:10	VN102725
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:10	VN102725
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:10	VN102725
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	10/27/25 13:10	VN102725
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:10	VN102725
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:10	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	62.7			70 (74) - 130 (125)	125%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.8			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.6			70 (77) - 130 (121)	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	242000							
540-36-3	1,4-Difluorobenzene	543000							
3114-55-4	Chlorobenzene-d5	523000							
3855-82-1	1,4-Dichlorobenzene-d4	259000							
TENTATIVE IDENTIFIED COMPOUNDS									
74-88-4	Methyl Iodide	6.10	J			4.60	ug/L		
91-20-3	Naphthalene	4.30	J			15.6	ug/L		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: MW3
Lab Sample ID: Q3464-02
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/24/25
Date Received: 10/24/25
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:31	VN102725
74-87-3	Chloromethane	5.70		1	0.32	1.00	ug/L	10/27/25 13:31	VN102725
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	10/27/25 13:31	VN102725
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	10/27/25 13:31	VN102725
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	10/27/25 13:31	VN102725
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	10/27/25 13:31	VN102725
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:31	VN102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:31	VN102725
67-64-1	Acetone	13.4		1	1.50	5.00	ug/L	10/27/25 13:31	VN102725
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	10/27/25 13:31	VN102725
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:31	VN102725
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	10/27/25 13:31	VN102725
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	10/27/25 13:31	VN102725
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:31	VN102725
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:31	VN102725
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	10/27/25 13:31	VN102725
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	10/27/25 13:31	VN102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:31	VN102725
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:31	VN102725
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:31	VN102725
67-66-3	Chloroform	8.50		1	0.25	1.00	ug/L	10/27/25 13:31	VN102725
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:31	VN102725
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:31	VN102725
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:31	VN102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 13:31	VN102725
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	10/27/25 13:31	VN102725
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:31	VN102725
74-95-3	Dibromomethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 13:31	VN102725
75-27-4	Bromodichloromethane	1.40		1	0.22	1.00	ug/L	10/27/25 13:31	VN102725
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	10/27/25 13:31	VN102725
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	10/27/25 13:31	VN102725
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	10/27/25 13:31	VN102725
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:31	VN102725
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	10/27/25 13:31	VN102725
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	10/27/25 13:31	VN102725
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:31	VN102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 13:31	VN102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:31	VN102725
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	10/27/25 13:31	VN102725
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	10/27/25 13:31	VN102725
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:31	VN102725
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	10/27/25 13:31	VN102725
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:31	VN102725

Report of Analysis

Client: G Environmental
 Project: Buffington
 Client Sample ID: MW3
 Lab Sample ID: Q3464-02
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected: 10/24/25
 Date Received: 10/24/25
 SDG No.: Q3464
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 13:31	VN102725
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	10/27/25 13:31	VN102725
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:31	VN102725
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	10/27/25 13:31	VN102725
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 13:31	VN102725
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	10/27/25 13:31	VN102725
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:31	VN102725
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 13:31	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.0			70 (74) - 130 (125)	118%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.0			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	47.5			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.3			70 (77) - 130 (121)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	224000							
540-36-3	1,4-Difluorobenzene	507000							
3114-55-4	Chlorobenzene-d5	486000							
3855-82-1	1,4-Dichlorobenzene-d4	231000							

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



QC SUMMARY

Surrogate Summary

SDG No.: **Q3464**

Client: **G Environmental**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3464-01	MW2	1,2-Dichloroethane-d4	50	62.7	125		70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104		70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107		70 (77)	130 (121)
Q3464-02	MW3	1,2-Dichloroethane-d4	50	59.0	118		70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102		70 (75)	130 (124)
		Toluene-d8	50	47.5	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.3	101		70 (77)	130 (121)
VN1027WBL01	VN1027WBL01	1,2-Dichloroethane-d4	50	61.1	122		70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106		70 (75)	130 (124)
		Toluene-d8	50	49.9	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104		70 (77)	130 (121)
VN1027WBS01	VN1027WBS01	1,2-Dichloroethane-d4	50	56.2	112		70 (74)	130 (125)
		Dibromofluoromethane	50	53.2	106		70 (75)	130 (124)
		Toluene-d8	50	51.1	102		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105		70 (77)	130 (121)
VN1027WBSD0	VN1027WBSD01	1,2-Dichloroethane-d4	50	56.4	113		70 (74)	130 (125)
		Dibromofluoromethane	50	53.0	106		70 (75)	130 (124)
		Toluene-d8	50	51.0	102		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3464</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088105.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1027WBS01	Dichlorodifluoromethane	20	20.8	ug/L	104			40 (69)	160 (116)	
	Chloromethane	20	21.3	ug/L	106			40 (65)	160 (116)	
	Vinyl chloride	20	21.1	ug/L	106			70 (65)	130 (117)	
	Bromomethane	20	20.3	ug/L	102			40 (58)	160 (125)	
	Chloroethane	20	18.8	ug/L	94			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.7	ug/L	99			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/L	101			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.1	ug/L	96			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	19.9	ug/L	100			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.8	ug/L	109			70 (78)	130 (114)	
	Methyl Acetate	20	22.6	ug/L	113			70 (67)	130 (125)	
	Methylene Chloride	20	23.6	ug/L	118			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.2	ug/L	101			70 (75)	130 (108)	
	1,1-Dichloroethane	20	22.2	ug/L	111			70 (78)	130 (112)	
	Cyclohexane	20	21.0	ug/L	105			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	22.2	ug/L	111			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	21.2	ug/L	106			70 (77)	130 (110)	
	Bromochloromethane	20	25.0	ug/L	125			70 (70)	130 (124)	
	Chloroform	20	22.7	ug/L	114			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.8	ug/L	109			70 (80)	130 (108)	
	Methylcyclohexane	20	19.8	ug/L	99			70 (72)	130 (115)	
	Benzene	20	21.8	ug/L	109			70 (82)	130 (109)	
	1,2-Dichloroethane	20	24.4	ug/L	122			70 (80)	130 (115)	
	Trichloroethene	20	21.1	ug/L	106			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.9	ug/L	110			70 (83)	130 (111)	
	Dibromomethane	20	22.3	ug/L	112			70 (82)	130 (110)	
	Bromodichloromethane	20	22.8	ug/L	114			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	21.5	ug/L	108			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	21.9	ug/L	110			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	22.3	ug/L	112			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	22.1	ug/L	111			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	1,2-Dibromoethane	20	22.1	ug/L	111			70 (81)	130 (110)	
	Tetrachloroethene	20	20.9	ug/L	104			70 (67)	130 (123)	
	Chlorobenzene	20	21.3	ug/L	106			70 (82)	130 (109)	
	Ethyl Benzene	20	20.9	ug/L	104			70 (83)	130 (109)	
	m/p-Xylenes	40	42.1	ug/L	105			70 (82)	130 (110)	
	o-Xylene	20	21.2	ug/L	106			70 (83)	130 (109)	
	Styrene	20	21.9	ug/L	110			70 (80)	130 (111)	
	Bromoform	20	21.8	ug/L	109			70 (79)	130 (109)	
	Isopropylbenzene	20	20.1	ug/L	101			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.5	ug/L	108			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.8	ug/L	104			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.1	ug/L	101			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	20.7	ug/L	104			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3464</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088105.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1027WBS01	1,2-Dibromo-3-Chloropropane	20	21.0	ug/L	105			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	20.7	ug/L	104			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103			70 (76)	130 (114)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3464</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088106.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1027WBSD01	Dichlorodifluoromethane	20	21.5	ug/L	108	4		40 (69)	160 (116)	20 (19)
	Chloromethane	20	21.1	ug/L	106	0		40 (65)	160 (116)	20 (21)
	Vinyl chloride	20	20.9	ug/L	104	2		70 (65)	130 (117)	20 (19)
	Bromomethane	20	20.2	ug/L	101	1		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.6	ug/L	98	1		40 (73)	160 (115)	20 (16)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/L	101	0		70 (80)	130 (112)	20 (15)
	1,1-Dichloroethene	20	18.9	ug/L	95	1		70 (74)	130 (110)	20 (20)
	Acetone	100	100	ug/L	100	0		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	19.9	ug/L	100	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.8	ug/L	109	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	23.1	ug/L	116	3		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	23.4	ug/L	117	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	4		70 (75)	130 (108)	20 (16)
	1,1-Dichloroethane	20	22.1	ug/L	111	0		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	21.3	ug/L	106	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	0		40 (65)	160 (122)	20 (26)
	Carbon Tetrachloride	20	21.7	ug/L	109	2		70 (77)	130 (113)	20 (15)
	cis-1,2-Dichloroethene	20	20.8	ug/L	104	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	25.2	ug/L	126	1		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.9	ug/L	110	4		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	21.6	ug/L	108	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	20.5	ug/L	103	4		70 (72)	130 (115)	20 (20)
	Benzene	20	21.8	ug/L	109	0		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	24.5	ug/L	123	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.3	ug/L	106	0		70 (77)	130 (113)	20 (15)
	1,2-Dichloropropane	20	22.8	ug/L	114	4		70 (83)	130 (111)	20 (16)
	Dibromomethane	20	23.9	ug/L	119	6		70 (82)	130 (110)	20 (20)
	Bromodichloromethane	20	23.2	ug/L	116	2		70 (83)	130 (110)	20 (16)
	4-Methyl-2-Pentanone	100	120	ug/L	120	0		40 (74)	160 (118)	20 (25)
	Toluene	20	21.6	ug/L	108	0		70 (82)	130 (110)	20 (16)
	t-1,3-Dichloropropene	20	22.6	ug/L	113	3		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	22.4	ug/L	112	0		70 (82)	130 (110)	20 (16)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	0		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	120	ug/L	120	9		40 (73)	160 (117)	20 (25)
	1,2-Dibromoethane	20	22.7	ug/L	114	3		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.4	ug/L	107	3		70 (67)	130 (123)	20 (15)
	Chlorobenzene	20	21.2	ug/L	106	0		70 (82)	130 (109)	20 (15)
	Ethyl Benzene	20	21.4	ug/L	107	3		70 (83)	130 (109)	20 (16)
	m/p-Xylenes	40	42.3	ug/L	106	1		70 (82)	130 (110)	20 (15)
	o-Xylene	20	21.4	ug/L	107	1		70 (83)	130 (109)	20 (20)
	Styrene	20	22.1	ug/L	111	1		70 (80)	130 (111)	20 (17)
	Bromoform	20	22.7	ug/L	114	4		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.6	ug/L	103	2		70 (83)	130 (112)	20 (29)
	1,1,2,2-Tetrachloroethane	20	22.4	ug/L	112	4		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	21.5	ug/L	108	4		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.8	ug/L	104	3		70 (82)	130 (107)	20 (15)
	1,2-Dichlorobenzene	20	21.7	ug/L	109	5		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3464</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088106.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1027WBSD01	1,2-Dibromo-3-Chloropropane	20	23.7	ug/L	119	13		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	21.6	ug/L	108	4		70 (75)	130 (113)	20 (29)
	1,2,3-Trichlorobenzene	20	21.4	ug/L	107	4		70 (76)	130 (114)	20 (29)

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1027WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3464

Lab File ID: VN088104.D

Lab Sample ID: VN1027WBL01

Date Analyzed: 10/27/2025

Time Analyzed: 11:34

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
VN1027WBS01	VN1027WBS01	VN088105.D	10/27/2025
VN1027WBSD01	VN1027WBSD01	VN088106.D	10/27/2025
MW2	Q3464-01	VN088108.D	10/27/2025
MW3	Q3464-02	VN088109.D	10/27/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3464

Lab File ID: VN088077.D

BFB Injection Date: 10/23/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:09

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	21.7
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	64.7
175	5.0 - 9.0% of mass 174	5.8 (8.9) 1
176	95.0 - 101.0% of mass 174	62.6 (96.8) 1
177	5.0 - 9.0% of mass 176	4.5 (7.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN088078.D	10/23/2025	09:42
VSTDIC005	VSTDIC005	VN088079.D	10/23/2025	10:38
VSTDIC020	VSTDIC020	VN088080.D	10/23/2025	10:59
VSTDIC050	VSTDIC050	VN088081.D	10/23/2025	11:20
VSTDIC100	VSTDIC100	VN088082.D	10/23/2025	11:41
VSTDIC150	VSTDIC150	VN088083.D	10/23/2025	12:02

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3464

Lab File ID: VN088101.D

BFB Injection Date: 10/27/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:58

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	23.7
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	68.6
175	5.0 - 9.0% of mass 174	5.1 (7.4) 1
176	95.0 - 101.0% of mass 174	65.3 (95.2) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088102.D	10/27/2025	10:40
VN1027WBL01	VN1027WBL01	VN088104.D	10/27/2025	11:34
VN1027WBS01	VN1027WBS01	VN088105.D	10/27/2025	11:55
VN1027WBSD01	VN1027WBSD01	VN088106.D	10/27/2025	12:29
MW2	Q3464-01	VN088108.D	10/27/2025	13:10
MW3	Q3464-02	VN088109.D	10/27/2025	13:31

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG NO.: Q3464
Lab File ID: VN088102.D Date Analyzed: 10/27/2025
Instrument ID: MSVOA_N Time Analyzed: 10:40
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	321965	8.21	587119	9.08	522069	11.84
UPPER LIMIT	643930	8.706	1174240	9.582	1044140	12.341
LOWER LIMIT	160983	7.706	293560	8.582	261035	11.341
EPA SAMPLE NO.						
MW2	242209	8.21	543451	9.08	522532	11.84
MW3	223573	8.21	506770	9.08	486491	11.84
VN1027WBL01	198801	8.21	446179	9.08	422679	11.84
VN1027WBS01	300941	8.21	563874	9.08	505093	11.85
VN1027WBSD01	293635	8.21	537984	9.08	482887	11.85

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q3464
 Lab File ID: VN088102.D Date Analyzed: 10/27/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:40
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	267876	13.77				
UPPER LIMIT	535752	14.27				
LOWER LIMIT	133938	13.27				
EPA SAMPLE NO.						
MW2	258786	13.77				
MW3	231113	13.77				
VN1027WBL01	199580	13.77				
VN1027WBS01	256562	13.77				
VN1027WBSD01	241641	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.



QC SAMPLE DATA

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: VN1027WBL01
Lab Sample ID: VN1027WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 11:34	VN102725
74-87-3	Chloromethane	0.32	U	1	0.32	1.00	ug/L	10/27/25 11:34	VN102725
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	10/27/25 11:34	VN102725
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	10/27/25 11:34	VN102725
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	10/27/25 11:34	VN102725
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	10/27/25 11:34	VN102725
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 11:34	VN102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 11:34	VN102725
67-64-1	Acetone	1.50	U	1	1.50	5.00	ug/L	10/27/25 11:34	VN102725
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	10/27/25 11:34	VN102725
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	10/27/25 11:34	VN102725
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	10/27/25 11:34	VN102725
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 11:34	VN102725
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	10/27/25 11:34	VN102725
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	10/27/25 11:34	VN102725
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	10/27/25 11:34	VN102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	10/27/25 11:34	VN102725
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	10/27/25 11:34	VN102725
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 11:34	VN102725
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	10/27/25 11:34	VN102725
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	10/27/25 11:34	VN102725
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 11:34	VN102725
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	10/27/25 11:34	VN102725
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	10/27/25 11:34	VN102725
74-95-3	Dibromomethane	0.25	U	1	0.25	1.00	ug/L	10/27/25 11:34	VN102725
75-27-4	Bromodichloromethane	0.22	U	1	0.22	1.00	ug/L	10/27/25 11:34	VN102725
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	10/27/25 11:34	VN102725
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	10/27/25 11:34	VN102725
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	10/27/25 11:34	VN102725
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	10/27/25 11:34	VN102725
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	10/27/25 11:34	VN102725
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	10/27/25 11:34	VN102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 11:34	VN102725
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	10/27/25 11:34	VN102725
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	10/27/25 11:34	VN102725
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	10/27/25 11:34	VN102725
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	10/27/25 11:34	VN102725

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: VN1027WBL01
Lab Sample ID: VN1027WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	10/27/25 11:34	VN102725
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	10/27/25 11:34	VN102725
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	10/27/25 11:34	VN102725
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	10/27/25 11:34	VN102725
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 11:34	VN102725
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	10/27/25 11:34	VN102725

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	61.1			70 (74) - 130 (125)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8			70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	49.9			70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9			70 (77) - 130 (121)	104%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	199000
540-36-3	1,4-Difluorobenzene	446000
3114-55-4	Chlorobenzene-d5	423000
3855-82-1	1,4-Dichlorobenzene-d4	200000

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

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: VN1027WBS01
Lab Sample ID: VN1027WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.8		1	0.22	1.00	ug/L	10/27/25 11:55	VN102725
74-87-3	Chloromethane	21.3		1	0.32	1.00	ug/L	10/27/25 11:55	VN102725
75-01-4	Vinyl Chloride	21.1		1	0.26	1.00	ug/L	10/27/25 11:55	VN102725
74-83-9	Bromomethane	20.3		1	1.40	5.00	ug/L	10/27/25 11:55	VN102725
75-00-3	Chloroethane	18.8		1	0.47	1.00	ug/L	10/27/25 11:55	VN102725
75-69-4	Trichlorofluoromethane	19.7		1	0.33	1.00	ug/L	10/27/25 11:55	VN102725
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1	0.25	1.00	ug/L	10/27/25 11:55	VN102725
75-35-4	1,1-Dichloroethene	19.1		1	0.23	1.00	ug/L	10/27/25 11:55	VN102725
67-64-1	Acetone	100		1	1.50	5.00	ug/L	10/27/25 11:55	VN102725
75-15-0	Carbon Disulfide	19.9		1	0.21	1.00	ug/L	10/27/25 11:55	VN102725
1634-04-4	Methyl tert-butyl Ether	21.8		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
79-20-9	Methyl Acetate	22.6		1	0.27	1.00	ug/L	10/27/25 11:55	VN102725
75-09-2	Methylene Chloride	23.6		1	0.28	1.00	ug/L	10/27/25 11:55	VN102725
156-60-5	trans-1,2-Dichloroethene	20.2		1	0.23	1.00	ug/L	10/27/25 11:55	VN102725
75-34-3	1,1-Dichloroethane	22.2		1	0.23	1.00	ug/L	10/27/25 11:55	VN102725
110-82-7	Cyclohexane	21.0		1	1.50	5.00	ug/L	10/27/25 11:55	VN102725
78-93-3	2-Butanone	110		1	0.98	5.00	ug/L	10/27/25 11:55	VN102725
56-23-5	Carbon Tetrachloride	22.2		1	0.25	1.00	ug/L	10/27/25 11:55	VN102725
156-59-2	cis-1,2-Dichloroethene	21.2		1	0.19	1.00	ug/L	10/27/25 11:55	VN102725
74-97-5	Bromochloromethane	25.0		1	0.22	1.00	ug/L	10/27/25 11:55	VN102725
67-66-3	Chloroform	22.7		1	0.25	1.00	ug/L	10/27/25 11:55	VN102725
71-55-6	1,1,1-Trichloroethane	21.8		1	0.20	1.00	ug/L	10/27/25 11:55	VN102725
108-87-2	Methylcyclohexane	19.8		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
71-43-2	Benzene	21.8		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
107-06-2	1,2-Dichloroethane	24.4		1	0.22	1.00	ug/L	10/27/25 11:55	VN102725
79-01-6	Trichloroethene	21.1		1	0.090	1.00	ug/L	10/27/25 11:55	VN102725
78-87-5	1,2-Dichloropropane	21.9		1	0.20	1.00	ug/L	10/27/25 11:55	VN102725
74-95-3	Dibromomethane	22.3		1	0.25	1.00	ug/L	10/27/25 11:55	VN102725
75-27-4	Bromodichloromethane	22.8		1	0.22	1.00	ug/L	10/27/25 11:55	VN102725
108-10-1	4-Methyl-2-Pentanone	120		1	0.68	5.00	ug/L	10/27/25 11:55	VN102725
108-88-3	Toluene	21.5		1	0.14	1.00	ug/L	10/27/25 11:55	VN102725
10061-02-6	t-1,3-Dichloropropene	21.9		1	0.17	1.00	ug/L	10/27/25 11:55	VN102725
10061-01-5	cis-1,3-Dichloropropene	22.3		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
79-00-5	1,1,2-Trichloroethane	22.1		1	0.21	1.00	ug/L	10/27/25 11:55	VN102725
591-78-6	2-Hexanone	110		1	0.89	5.00	ug/L	10/27/25 11:55	VN102725
106-93-4	1,2-Dibromoethane	22.1		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
127-18-4	Tetrachloroethene	20.9		1	0.23	1.00	ug/L	10/27/25 11:55	VN102725
108-90-7	Chlorobenzene	21.3		1	0.12	1.00	ug/L	10/27/25 11:55	VN102725
100-41-4	Ethyl Benzene	20.9		1	0.13	1.00	ug/L	10/27/25 11:55	VN102725
179601-23-1	m/p-Xylenes	42.1		1	0.24	2.00	ug/L	10/27/25 11:55	VN102725
95-47-6	o-Xylene	21.2		1	0.12	1.00	ug/L	10/27/25 11:55	VN102725
100-42-5	Styrene	21.9		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
75-25-2	Bromoform	21.8		1	0.19	1.00	ug/L	10/27/25 11:55	VN102725

Report of Analysis

Client: G Environmental
 Project: Buffington
 Client Sample ID: VN1027WBS01
 Lab Sample ID: VN1027WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3464
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.1		1	0.12	1.00	ug/L	10/27/25 11:55	VN102725
79-34-5	1,1,2,2-Tetrachloroethane	21.5		1	0.26	1.00	ug/L	10/27/25 11:55	VN102725
541-73-1	1,3-Dichlorobenzene	20.8		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
106-46-7	1,4-Dichlorobenzene	20.1		1	0.19	1.00	ug/L	10/27/25 11:55	VN102725
95-50-1	1,2-Dichlorobenzene	20.7		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
96-12-8	1,2-Dibromo-3-Chloropropane	21.0		1	0.53	1.00	ug/L	10/27/25 11:55	VN102725
120-82-1	1,2,4-Trichlorobenzene	20.7		1	0.20	1.00	ug/L	10/27/25 11:55	VN102725
87-61-6	1,2,3-Trichlorobenzene	20.5		1	0.20	1.00	ug/L	10/27/25 11:55	VN102725

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	56.2			70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2			70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.1			70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6			70 (77) - 130 (121)	105%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	301000
540-36-3	1,4-Difluorobenzene	564000
3114-55-4	Chlorobenzene-d5	505000
3855-82-1	1,4-Dichlorobenzene-d4	257000

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

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: VN1027WBSD01
Lab Sample ID: VN1027WBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3464
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	21.5		1	0.22	1.00	ug/L	10/27/25 12:29	VN102725
74-87-3	Chloromethane	21.1		1	0.32	1.00	ug/L	10/27/25 12:29	VN102725
75-01-4	Vinyl Chloride	20.9		1	0.26	1.00	ug/L	10/27/25 12:29	VN102725
74-83-9	Bromomethane	20.2		1	1.40	5.00	ug/L	10/27/25 12:29	VN102725
75-00-3	Chloroethane	18.9		1	0.47	1.00	ug/L	10/27/25 12:29	VN102725
75-69-4	Trichlorofluoromethane	19.6		1	0.33	1.00	ug/L	10/27/25 12:29	VN102725
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1	0.25	1.00	ug/L	10/27/25 12:29	VN102725
75-35-4	1,1-Dichloroethene	18.9		1	0.23	1.00	ug/L	10/27/25 12:29	VN102725
67-64-1	Acetone	100		1	1.50	5.00	ug/L	10/27/25 12:29	VN102725
75-15-0	Carbon Disulfide	19.9		1	0.21	1.00	ug/L	10/27/25 12:29	VN102725
1634-04-4	Methyl tert-butyl Ether	21.8		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
79-20-9	Methyl Acetate	23.1		1	0.27	1.00	ug/L	10/27/25 12:29	VN102725
75-09-2	Methylene Chloride	23.4		1	0.28	1.00	ug/L	10/27/25 12:29	VN102725
156-60-5	trans-1,2-Dichloroethene	19.4		1	0.23	1.00	ug/L	10/27/25 12:29	VN102725
75-34-3	1,1-Dichloroethane	22.1		1	0.23	1.00	ug/L	10/27/25 12:29	VN102725
110-82-7	Cyclohexane	21.3		1	1.50	5.00	ug/L	10/27/25 12:29	VN102725
78-93-3	2-Butanone	110		1	0.98	5.00	ug/L	10/27/25 12:29	VN102725
56-23-5	Carbon Tetrachloride	21.7		1	0.25	1.00	ug/L	10/27/25 12:29	VN102725
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.19	1.00	ug/L	10/27/25 12:29	VN102725
74-97-5	Bromochloromethane	25.2		1	0.22	1.00	ug/L	10/27/25 12:29	VN102725
67-66-3	Chloroform	21.9		1	0.25	1.00	ug/L	10/27/25 12:29	VN102725
71-55-6	1,1,1-Trichloroethane	21.6		1	0.20	1.00	ug/L	10/27/25 12:29	VN102725
108-87-2	Methylcyclohexane	20.5		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
71-43-2	Benzene	21.8		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
107-06-2	1,2-Dichloroethane	24.5		1	0.22	1.00	ug/L	10/27/25 12:29	VN102725
79-01-6	Trichloroethene	21.3		1	0.090	1.00	ug/L	10/27/25 12:29	VN102725
78-87-5	1,2-Dichloropropane	22.8		1	0.20	1.00	ug/L	10/27/25 12:29	VN102725
74-95-3	Dibromomethane	23.9		1	0.25	1.00	ug/L	10/27/25 12:29	VN102725
75-27-4	Bromodichloromethane	23.2		1	0.22	1.00	ug/L	10/27/25 12:29	VN102725
108-10-1	4-Methyl-2-Pentanone	120		1	0.68	5.00	ug/L	10/27/25 12:29	VN102725
108-88-3	Toluene	21.6		1	0.14	1.00	ug/L	10/27/25 12:29	VN102725
10061-02-6	t-1,3-Dichloropropene	22.6		1	0.17	1.00	ug/L	10/27/25 12:29	VN102725
10061-01-5	cis-1,3-Dichloropropene	22.4		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
79-00-5	1,1,2-Trichloroethane	22.2		1	0.21	1.00	ug/L	10/27/25 12:29	VN102725
591-78-6	2-Hexanone	120		1	0.89	5.00	ug/L	10/27/25 12:29	VN102725
106-93-4	1,2-Dibromoethane	22.7		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
127-18-4	Tetrachloroethene	21.4		1	0.23	1.00	ug/L	10/27/25 12:29	VN102725
108-90-7	Chlorobenzene	21.2		1	0.12	1.00	ug/L	10/27/25 12:29	VN102725
100-41-4	Ethyl Benzene	21.4		1	0.13	1.00	ug/L	10/27/25 12:29	VN102725
179601-23-1	m/p-Xylenes	42.3		1	0.24	2.00	ug/L	10/27/25 12:29	VN102725
95-47-6	o-Xylene	21.4		1	0.12	1.00	ug/L	10/27/25 12:29	VN102725
100-42-5	Styrene	22.1		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
75-25-2	Bromoform	22.7		1	0.19	1.00	ug/L	10/27/25 12:29	VN102725

Report of Analysis

Client: G Environmental
 Project: Buffington
 Client Sample ID: VN1027WBSD01
 Lab Sample ID: VN1027WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3464
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.6		1	0.12	1.00	ug/L	10/27/25 12:29	VN102725
79-34-5	1,1,2,2-Tetrachloroethane	22.4		1	0.26	1.00	ug/L	10/27/25 12:29	VN102725
541-73-1	1,3-Dichlorobenzene	21.5		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
106-46-7	1,4-Dichlorobenzene	20.8		1	0.19	1.00	ug/L	10/27/25 12:29	VN102725
95-50-1	1,2-Dichlorobenzene	21.7		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
96-12-8	1,2-Dibromo-3-Chloropropane	23.7		1	0.53	1.00	ug/L	10/27/25 12:29	VN102725
120-82-1	1,2,4-Trichlorobenzene	21.6		1	0.20	1.00	ug/L	10/27/25 12:29	VN102725
87-61-6	1,2,3-Trichlorobenzene	21.4		1	0.20	1.00	ug/L	10/27/25 12:29	VN102725

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	56.4			70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0			70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.0			70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9			70 (77) - 130 (121)	106%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	294000
540-36-3	1,4-Difluorobenzene	538000
3114-55-4	Chlorobenzene-d5	483000
3855-82-1	1,4-Dichlorobenzene-d4	242000

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q3464
 Instrument ID: MSVOA_N Calibration Date(s): 10/23/2025 10/23/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:42 12:02
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:								
RRF001 = VN088078.D			RRF005 = VN088079.D			RRF020 = VN088080.D		
RRF050 = VN088081.D			RRF100 = VN088082.D			RRF150 = VN088083.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.606	0.645	0.594	0.458	0.493	0.588	0.564	12.8
Chloromethane	0.782	0.707	0.725	0.519	0.579	0.669	0.664	14.7
Vinyl Chloride	0.801	0.784	0.787	0.581	0.639	0.746	0.723	12.6
Bromomethane		0.527	0.485	0.341	0.389	0.420	0.432	17.2
Chloroethane	0.598	0.601	0.558	0.413	0.447	0.509	0.521	15.2
Trichlorofluoromethane	1.199	1.317	1.246	0.955	1.031	1.171	1.153	11.8
1,1,2-Trichlorotrifluoroethane	0.637	0.632	0.612	0.476	0.561	0.653	0.595	11.2
1,1-Dichloroethene	0.806	0.686	0.631	0.462	0.547	0.637	0.628	18.7
Acetone	0.563	0.441	0.440	0.319	0.411	0.431	0.434	17.9
Carbon Disulfide	2.143	2.041	1.984	1.483	1.917	1.895	1.910	11.9
Methyl tert-butyl Ether	2.356	2.498	2.493	1.790	2.370	2.342	2.308	11.4
Methyl Acetate	0.982	0.910	0.980	0.688	0.896	0.880	0.889	12.1
Methylene Chloride	0.894	0.774	0.775	0.540	0.708	0.684	0.729	16.2
trans-1,2-Dichloroethene	0.820	0.716	0.715	0.536	0.673	0.678	0.690	13.3
1,1-Dichloroethane	1.371	1.432	1.418	1.026	1.142	1.312	1.283	12.8
Cyclohexane		1.488	1.301	0.965	1.055	1.243	1.210	17.1
2-Butanone	0.615	0.616	0.639	0.465	0.516	0.584	0.572	11.8
Carbon Tetrachloride	0.544	0.525	0.538	0.417	0.470	0.546	0.507	10.3
cis-1,2-Dichloroethene	0.884	0.892	0.868	0.626	0.694	0.800	0.794	13.9
Bromochloromethane	0.608	0.669	0.549	0.589	0.596	0.627	0.606	6.6
Chloroform	1.334	1.433	1.405	1.040	1.162	1.318	1.282	11.8
1,1,1-Trichloroethane	1.293	1.230	1.241	0.912	1.014	1.160	1.142	13
Methylcyclohexane	0.701	0.649	0.634	0.524	0.578	0.698	0.630	11
Benzene	1.621	1.577	1.609	1.216	1.372	1.566	1.494	10.9
1,2-Dichloroethane	0.552	0.572	0.590	0.436	0.480	0.554	0.531	11.2
Trichloroethene	0.375	0.374	0.374	0.284	0.318	0.369	0.349	11.1
1,2-Dichloropropane	0.420	0.408	0.397	0.306	0.340	0.391	0.377	11.7
Dibromomethane	0.275	0.298	0.295	0.218	0.246	0.281	0.269	11.5
Bromodichloromethane	0.561	0.570	0.589	0.439	0.499	0.573	0.538	10.8
4-Methyl-2-Pentanone	0.548	0.600	0.647	0.485	0.552	0.620	0.575	10.2

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3464

Instrument ID: MSVOA_N

Calibration Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N

Calibration Time(s): 09:42 12:02

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

LAB FILE ID:		RRF001 = VN088078.D		RRF005 = VN088079.D		RRF020 = VN088080.D			
		RRF050 = VN088081.D		RRF100 = VN088082.D		RRF150 = VN088083.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Toluene	0.971	0.958	0.991	0.755	0.862	0.989	0.921	10.2	
t-1,3-Dichloropropene	0.554	0.576	0.618	0.479	0.559	0.652	0.573	10.4	
cis-1,3-Dichloropropene	0.615	0.622	0.652	0.501	0.587	0.671	0.608	9.9	
1,1,2-Trichloroethane	0.421	0.348	0.374	0.281	0.317	0.355	0.349	13.7	
2-Hexanone	0.369	0.332	0.418	0.333	0.392	0.447	0.382	12.1	
1,2-Dibromoethane	0.403	0.356	0.384	0.289	0.339	0.388	0.360	11.6	
Tetrachloroethene	0.400	0.344	0.335	0.258	0.298	0.344	0.330	14.6	
Chlorobenzene	1.197	1.208	1.205	0.941	1.053	1.208	1.135	9.9	
Ethyl Benzene	2.069	2.066	2.123	1.649	1.873	2.177	1.993	9.9	
m/p-Xylenes	0.733	0.774	0.804	0.635	0.708	0.827	0.747	9.4	
o-Xylene	0.670	0.742	0.764	0.604	0.684	0.784	0.708	9.6	
Styrene	0.946	1.204	1.276	1.011	1.165	1.325	1.154	12.9	
Bromoform	0.268	0.274	0.294	0.233	0.276	0.320	0.278	10.4	
Isopropylbenzene	4.189	3.857	4.067	3.173	3.580	4.272	3.856	10.8	
1,1,2,2-Tetrachloroethane	1.304	1.258	1.336	0.957	1.080	1.270	1.201	12.4	
1,3-Dichlorobenzene	1.777	1.673	1.822	1.380	1.535	1.773	1.660	10.3	
1,4-Dichlorobenzene	2.065	1.953	1.863	1.399	1.582	1.836	1.783	13.9	
1,2-Dichlorobenzene	1.768	1.652	1.678	1.291	1.469	1.744	1.600	11.5	
1,2-Dibromo-3-Chloropropane	0.325	0.289	0.301	0.214	0.243	0.305	0.279	15.1	
1,2,4-Trichlorobenzene	1.058	0.976	0.989	0.785	0.902	1.105	0.969	11.8	
1,2,3-Trichlorobenzene	1.098	0.894	0.937	0.736	0.848	1.062	0.929	14.5	
1,2-Dichloroethane-d4		0.914	0.915	0.799	0.822	0.872	0.865	6.1	
Dibromofluoromethane		0.343	0.344	0.315	0.327	0.350	0.336	4.3	
Toluene-d8		1.283	1.298	1.224	1.283	1.384	1.294	4.4	
4-Bromofluorobenzene		0.435	0.457	0.439	0.466	0.488	0.457	4.8	

* 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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3464</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>10/27/2025 10:40</u>
Lab File ID:	<u>VN088102.D</u>	Init. Calib. Date(s):	<u>10/23/2025 10/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:42 12:02</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.564	0.598		6.03	20
Chloromethane	0.664	0.684	0.1	3.01	20
Vinyl Chloride	0.723	0.746		3.18	20
Bromomethane	0.432	0.392		-9.26	20
Chloroethane	0.521	0.478		-8.25	20
Trichlorofluoromethane	1.153	1.130		-2	20
1,1,2-Trichlorotrifluoroethane	0.595	0.596		0.17	20
1,1-Dichloroethene	0.628	0.586		-6.69	20
Acetone	0.434	0.430		-0.92	20
Carbon Disulfide	1.910	1.880		-1.57	20
Methyl tert-butyl Ether	2.308	2.427		5.16	20
Methyl Acetate	0.889	0.958		7.76	20
Methylene Chloride	0.729	0.724		-0.69	20
trans-1,2-Dichloroethene	0.690	0.678		-1.74	20
1,1-Dichloroethane	1.283	1.368	0.1	6.63	20
Cyclohexane	1.210	1.253		3.55	20
2-Butanone	0.572	0.614		7.34	20
Carbon Tetrachloride	0.507	0.570		12.43	20
cis-1,2-Dichloroethene	0.794	0.794		0	20
Bromochloromethane	0.606	0.607		0.17	20
Chloroform	1.282	1.373		7.1	20
1,1,1-Trichloroethane	1.142	1.191		4.29	20
Methylcyclohexane	0.630	0.653		3.65	20
Benzene	1.494	1.599		7.03	20
1,2-Dichloroethane	0.531	0.617		16.2	20
Trichloroethene	0.349	0.360		3.15	20
1,2-Dichloropropane	0.377	0.413		9.55	20
Dibromomethane	0.269	0.295		9.66	20
Bromodichloromethane	0.538	0.609		13.2	20
4-Methyl-2-Pentanone	0.575	0.662		15.13	20
Toluene	0.921	0.975		5.86	20
t-1,3-Dichloropropene	0.573	0.640		11.69	20
cis-1,3-Dichloropropene	0.608	0.661		8.72	20
1,1,2-Trichloroethane	0.349	0.374		7.16	20
2-Hexanone	0.382	0.448		17.28	20
1,2-Dibromoethane	0.360	0.383		6.39	20
Tetrachloroethene	0.330	0.343		3.94	20
Chlorobenzene	1.135	1.167	0.3	2.82	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3464</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>10/27/2025</u> <u>10:40</u>
Lab File ID:	<u>VN088102.D</u>	Init. Calib. Date(s):	<u>10/23/2025</u> <u>10/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:42</u> <u>12:02</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.993	2.130		6.87	20
m/p-Xylenes	0.747	0.796		6.56	20
o-Xylene	0.708	0.768		8.48	20
Styrene	1.154	1.310		13.52	20
Bromoform	0.278	0.308	0.1	10.79	20
Isopropylbenzene	3.856	4.002		3.79	20
1,1,2,2-Tetrachloroethane	1.201	1.246	0.3	3.75	20
1,3-Dichlorobenzene	1.660	1.752		5.54	20
1,4-Dichlorobenzene	1.783	1.813		1.68	20
1,2-Dichlorobenzene	1.600	1.676		4.75	20
1,2-Dibromo-3-Chloropropane	0.279	0.307		10.04	20
1,2,4-Trichlorobenzene	0.969	1.015		4.75	20
1,2,3-Trichlorobenzene	0.929	0.964		3.77	20
1,2-Dichloroethane-d4	0.865	0.876		1.27	20
Dibromofluoromethane	0.336	0.332		-1.19	20
Toluene-d8	1.294	1.241		-4.1	20
4-Bromofluorobenzene	0.457	0.460		0.66	20

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



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088108.D
 Acq On : 27 Oct 2025 13:10
 Operator : JC\MD
 Sample : Q3464-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2

Quant Time: Oct 28 01:25:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	242209	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	543451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	522532	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258786	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	262690	62.720	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 125.440%#	
35) Dibromofluoromethane	8.153	113	188967	51.759	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.520%	
50) Toluene-d8	10.547	98	669206	47.571	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.140%	
62) 4-Bromofluorobenzene	12.829	95	266523	53.646	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 107.300%	

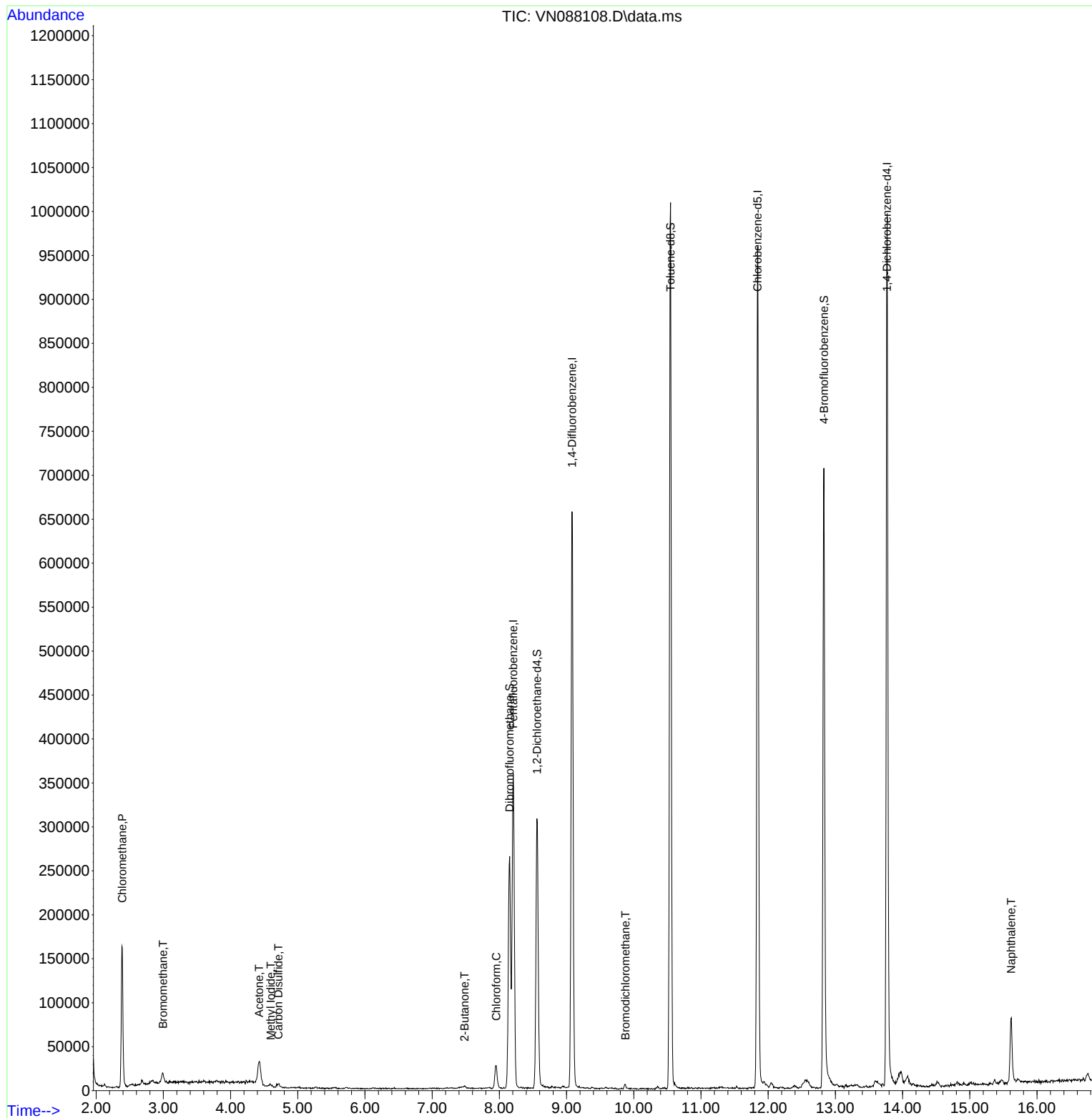
Target Compounds				Qvalue		
3) Chloromethane	2.389	50	167787	52.202	ug/l	99
5) Bromomethane	2.995	94	9069	4.329	ug/l	100
10) Methyl Iodide	4.600	142	5944	6.126	ug/l #	72
16) Acetone	4.424	43	54842	26.064	ug/l	92
17) Carbon Disulfide	4.712	76	6687	0.723	ug/l	100
25) 2-Butanone	7.482	43	5889	2.124	ug/l #	82
30) Chloroform	7.953	83	25105	4.043	ug/l #	83
47) Bromodichloromethane	9.876	83	3244	0.554	ug/l #	81
95) Naphthalene	15.617	128	74063	4.310	ug/l	98

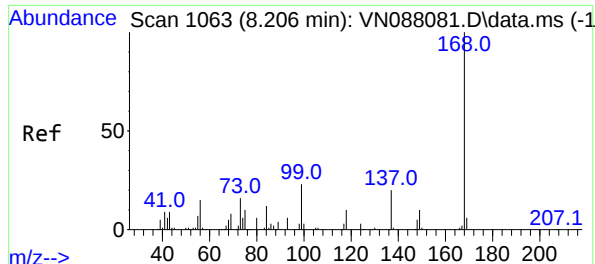
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088108.D
Acq On : 27 Oct 2025 13:10
Operator : JC\MD
Sample : Q3464-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW2

Quant Time: Oct 28 01:25:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

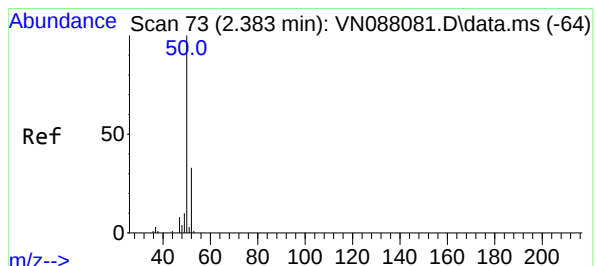
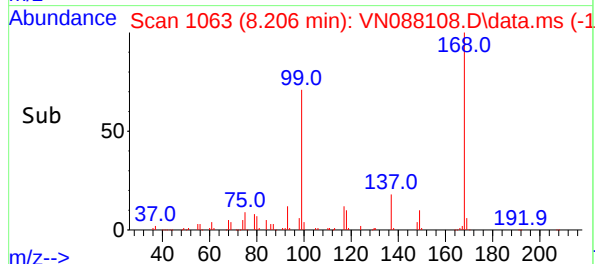
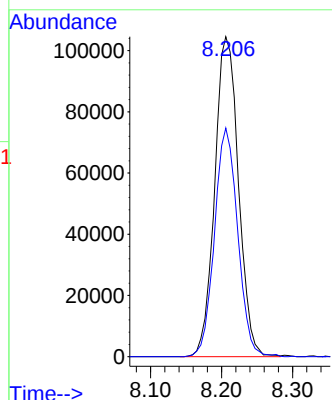
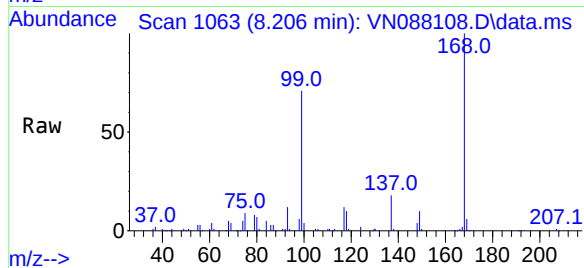




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088108.D
Acq: 27 Oct 2025 13:10

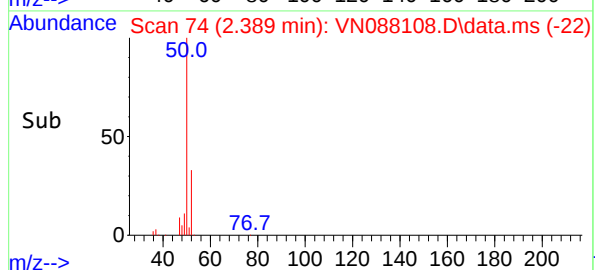
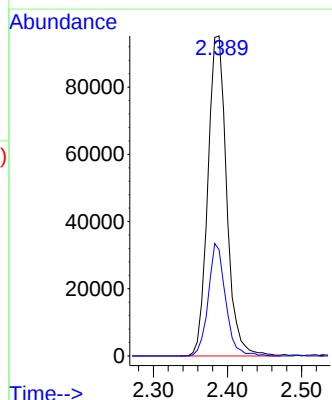
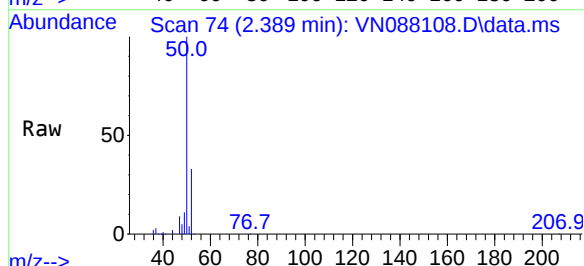
Instrument :
MSVOA_N
ClientSampleId :
MW2

Tgt Ion:168 Resp: 242209
Ion Ratio Lower Upper
168 100
99 71.5 57.2 85.8

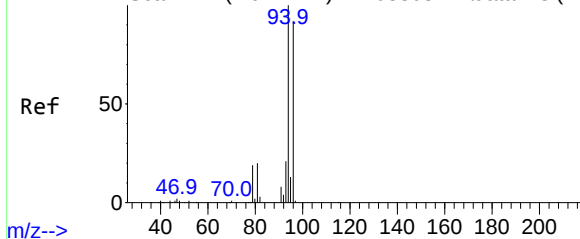


#3
Chloromethane
Concen: 52.202 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088108.D
Acq: 27 Oct 2025 13:10

Tgt Ion: 50 Resp: 167787
Ion Ratio Lower Upper
50 100
52 33.2 26.2 39.4



Abundance Scan 174 (2.977 min): VN088081.D\data.ms (-16



#5

Bromomethane

Concen: 4.329 ug/l

RT: 2.995 min Scan# 11

Delta R.T. 0.023 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

MW2

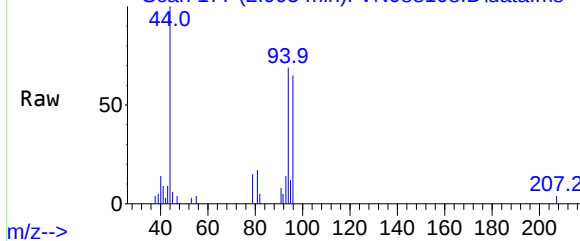
Tgt Ion: 94 Resp: 9069

Ion Ratio Lower Upper

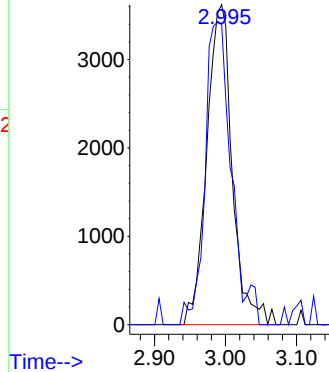
94 100

96 93.9 75.4 113.2

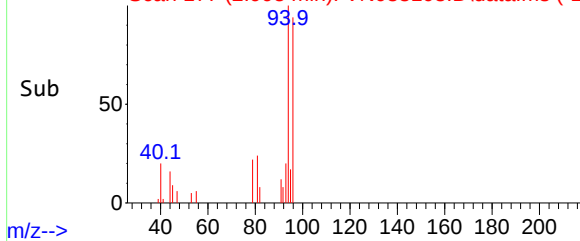
Abundance Scan 177 (2.995 min): VN088108.D\data.ms



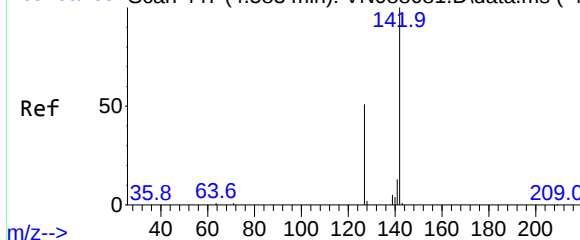
Abundance



Abundance Scan 177 (2.995 min): VN088108.D\data.ms (-12



Abundance Scan 447 (4.583 min): VN088081.D\data.ms (-43



#10

Methyl Iodide

Concen: 6.126 ug/l

RT: 4.600 min Scan# 450

Delta R.T. 0.023 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Tgt Ion: 142 Resp: 5944

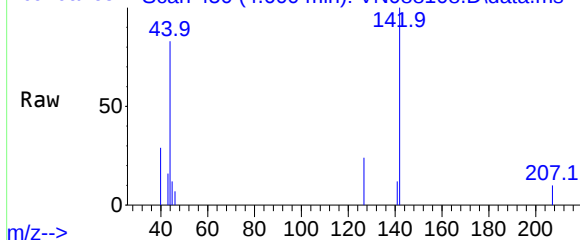
Ion Ratio Lower Upper

142 100

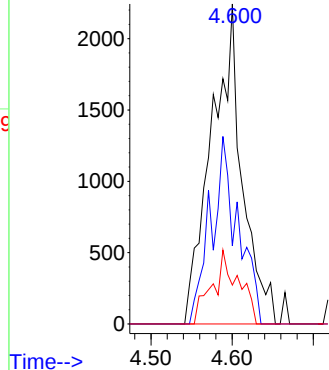
127 24.4 38.0 57.0#

141 12.2 12.0 18.0

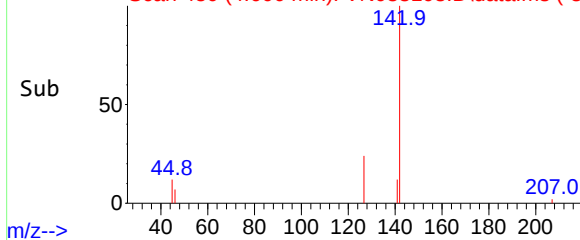
Abundance Scan 450 (4.600 min): VN088108.D\data.ms

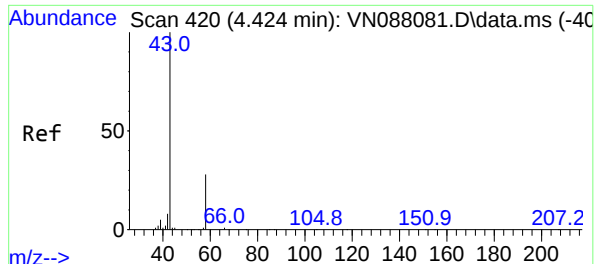


Abundance



Abundance Scan 450 (4.600 min): VN088108.D\data.ms (-39

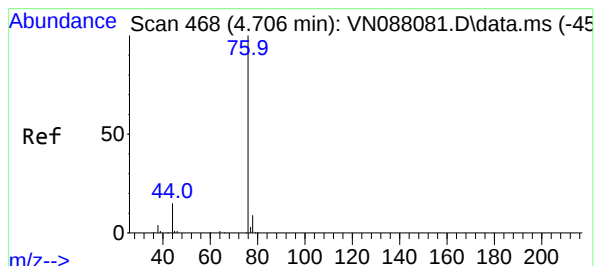
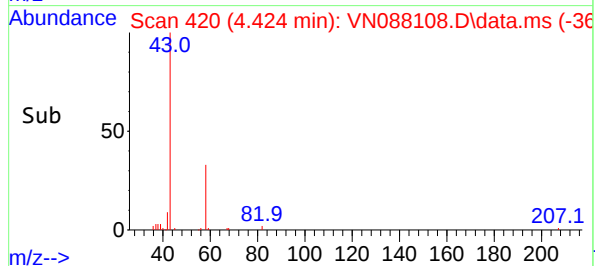
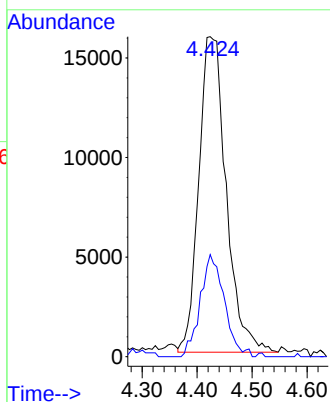
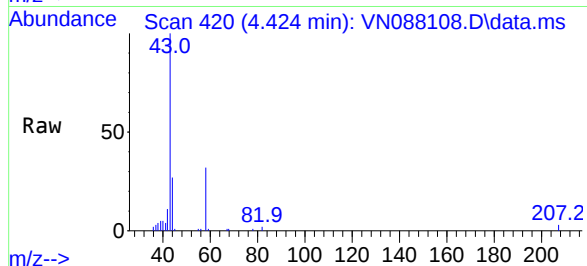




#16
Acetone
Concen: 26.064 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088108.D
Acq: 27 Oct 2025 13:10

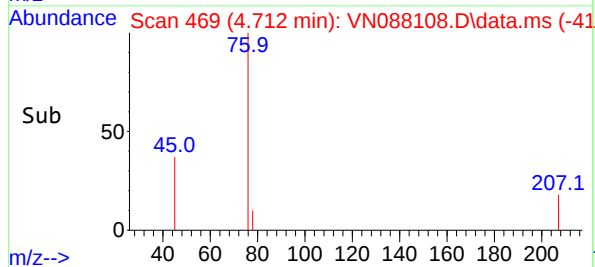
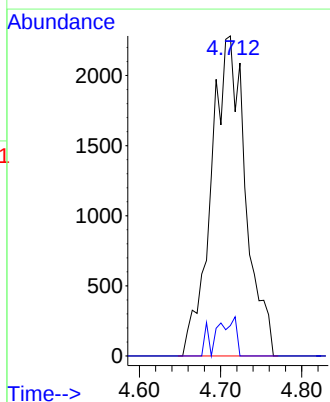
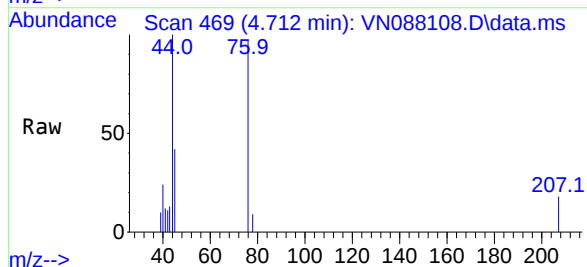
Instrument :
MSVOA_N
ClientSampleId :
MW2

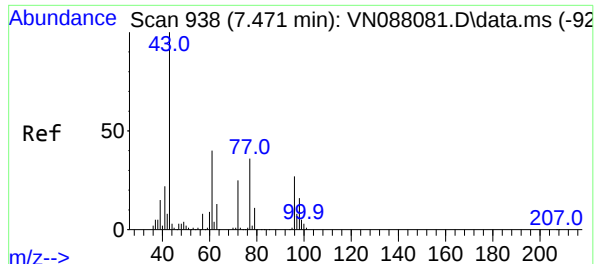
Tgt Ion: 43 Resp: 54842
Ion Ratio Lower Upper
43 100
58 32.4 22.6 33.8



#17
Carbon Disulfide
Concen: 0.723 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN088108.D
Acq: 27 Oct 2025 13:10

Tgt Ion: 76 Resp: 6687
Ion Ratio Lower Upper
76 100
78 9.5 7.6 11.4





#25

2-Butanone

Concen: 2.124 ug/l

RT: 7.482 min Scan# 94

Delta R.T. 0.017 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

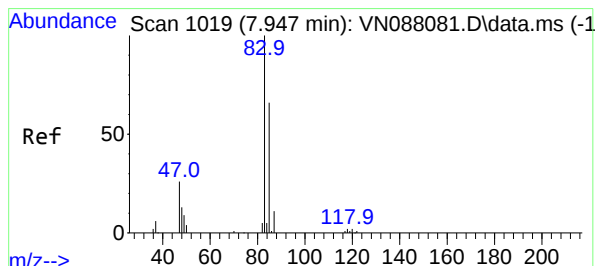
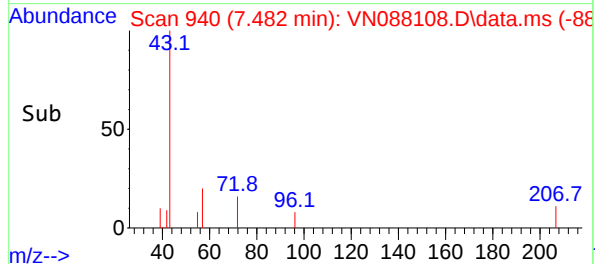
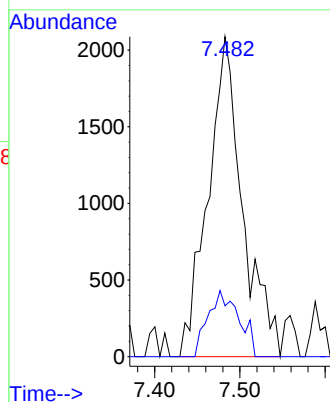
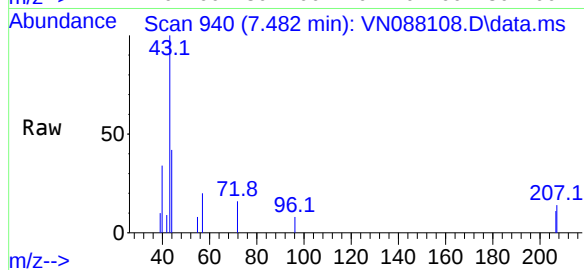
MW2

Tgt Ion: 43 Resp: 5889

Ion Ratio Lower Upper

43 100

72 15.9 19.9 29.9#



#30

Chloroform

Concen: 4.043 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN088108.D

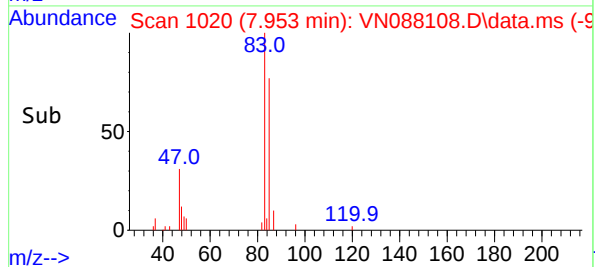
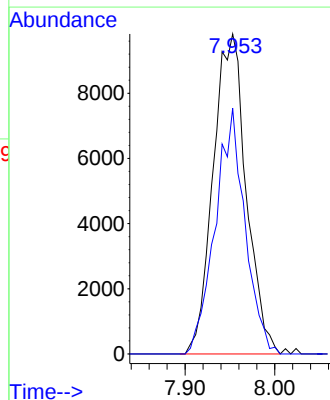
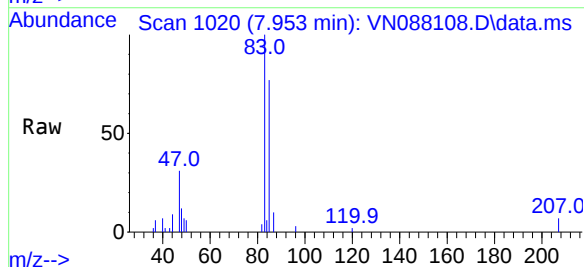
Acq: 27 Oct 2025 13:10

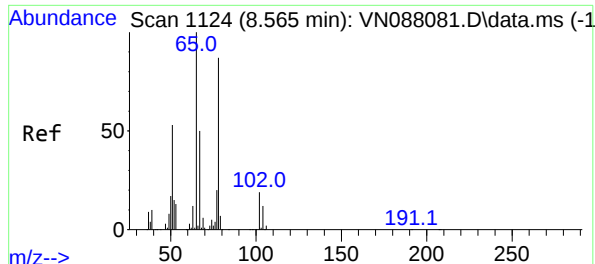
Tgt Ion: 83 Resp: 25105

Ion Ratio Lower Upper

83 100

85 76.8 50.7 76.1#





#33

1,2-Dichloroethane-d4

Concen: 62.720 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

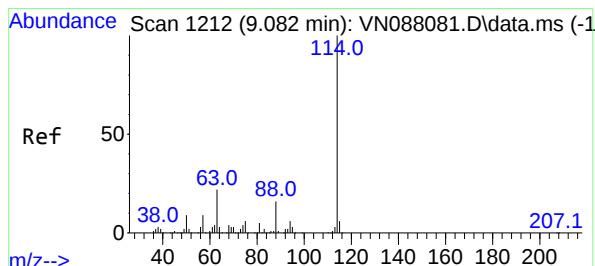
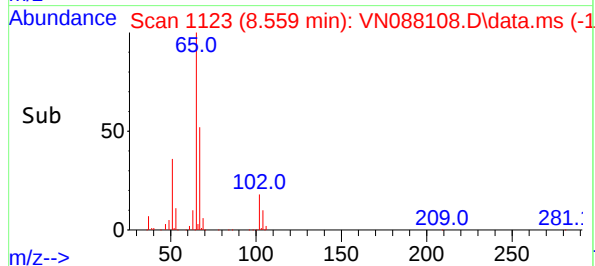
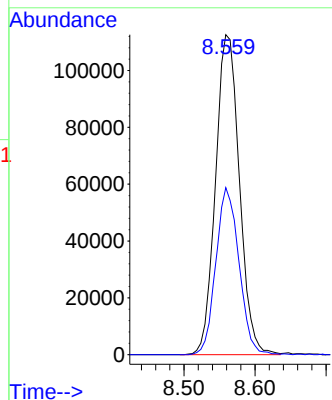
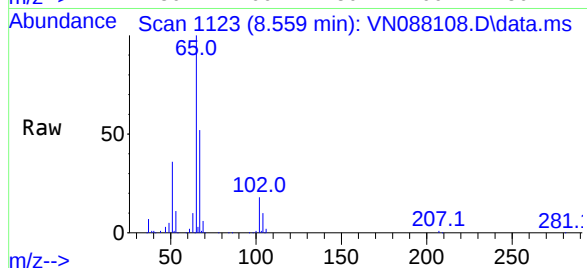
MW2

Tgt Ion: 65 Resp: 262690

Ion Ratio Lower Upper

65 100

67 50.5 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

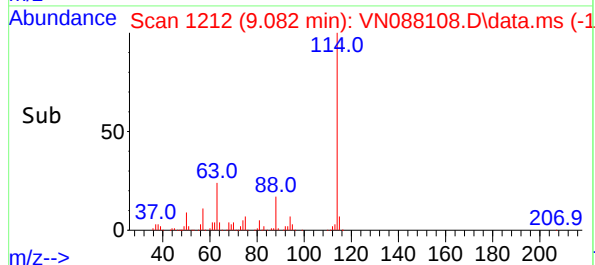
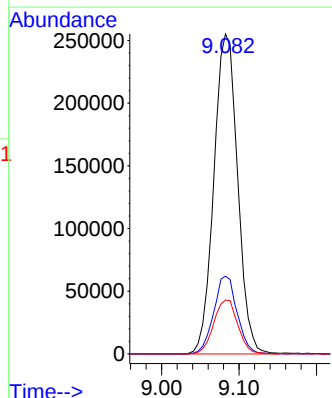
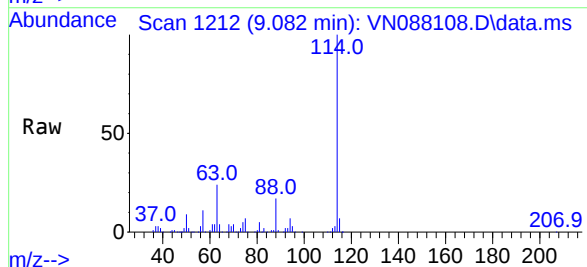
Tgt Ion: 114 Resp: 543451

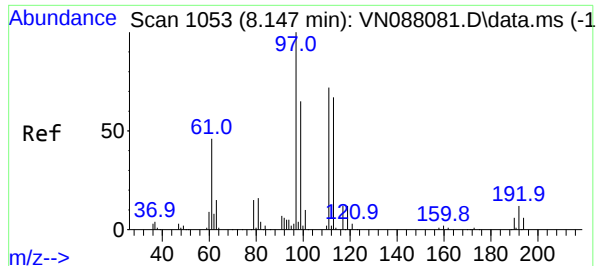
Ion Ratio Lower Upper

114 100

63 24.3 0.0 45.2

88 16.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.759 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

MW2

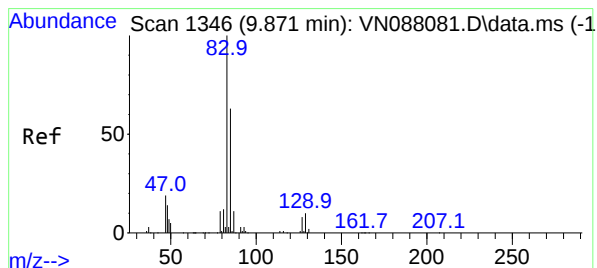
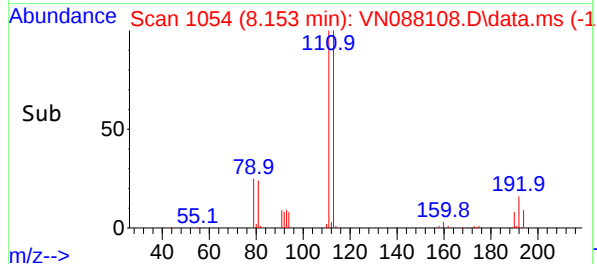
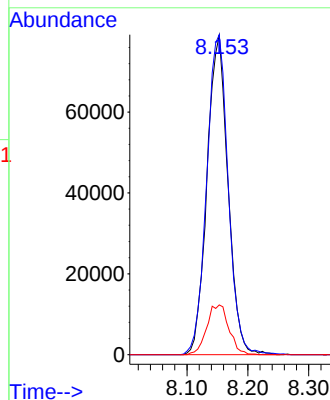
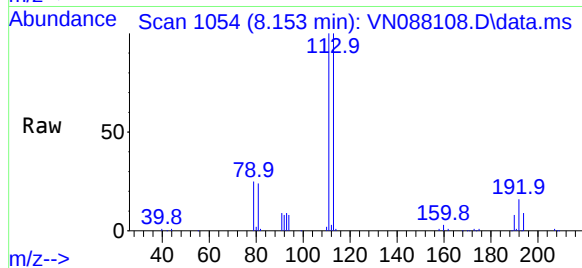
Tgt Ion:113 Resp: 188967

Ion Ratio Lower Upper

113 100

111 103.0 82.8 124.2

192 16.5 12.8 19.2



#47

Bromodichloromethane

Concen: 0.554 ug/l

RT: 9.876 min Scan# 1347

Delta R.T. 0.006 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

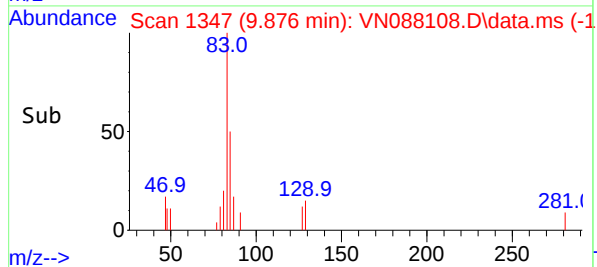
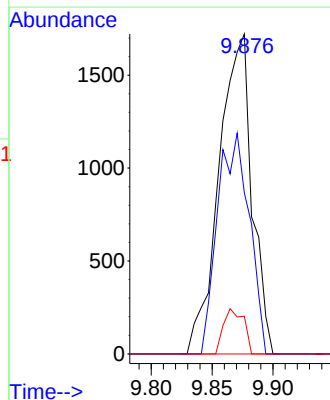
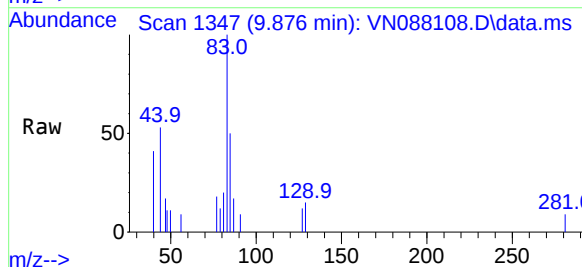
Tgt Ion: 83 Resp: 3244

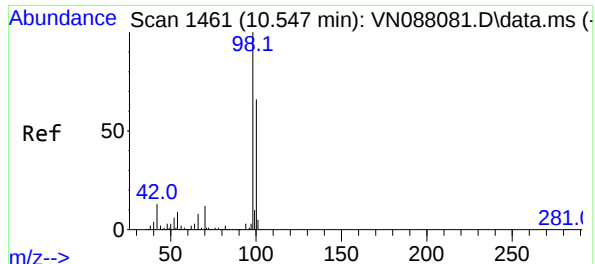
Ion Ratio Lower Upper

83 100

85 50.3 52.5 78.7#

127 11.8 5.8 8.6#





#50

Toluene-d8

Concen: 47.571 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

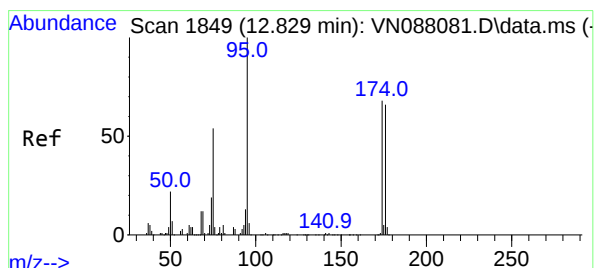
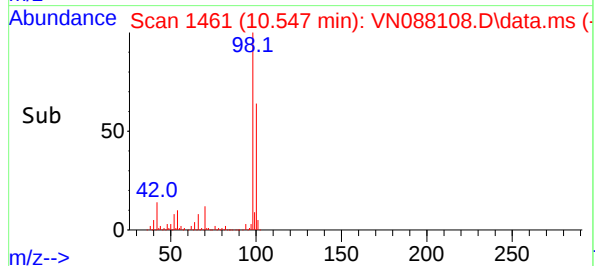
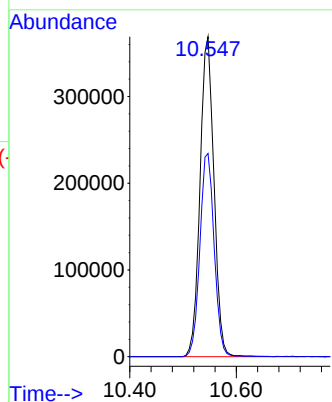
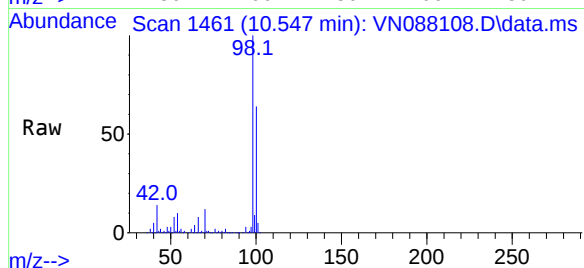
MW2

Tgt Ion: 98 Resp: 669206

Ion Ratio Lower Upper

98 100

100 65.2 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 53.646 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

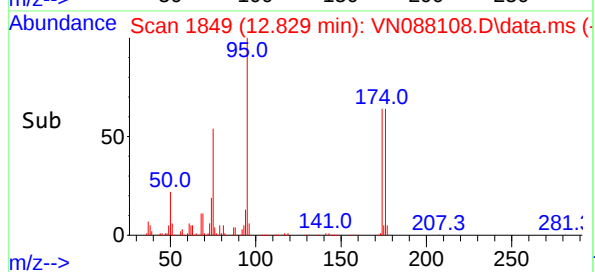
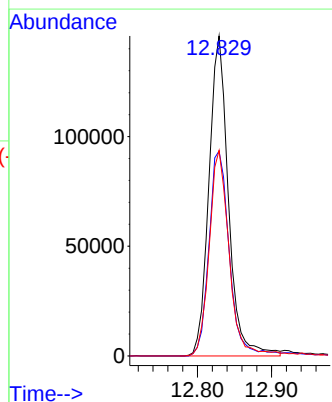
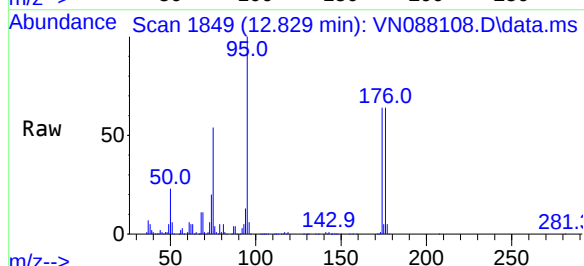
Tgt Ion: 95 Resp: 266523

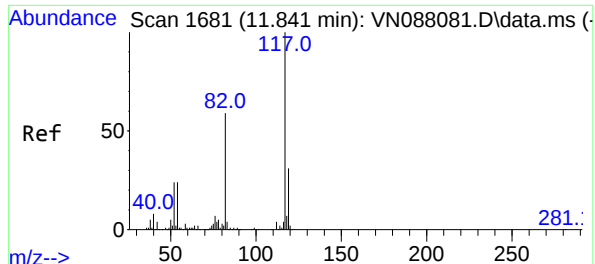
Ion Ratio Lower Upper

95 100

174 68.3 0.0 138.4

176 65.8 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

MW2

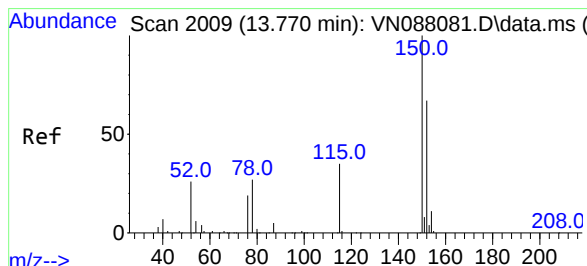
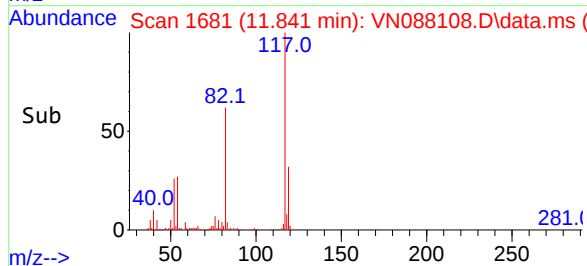
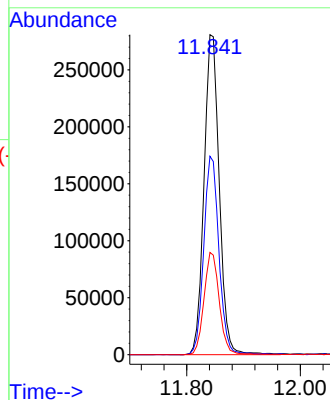
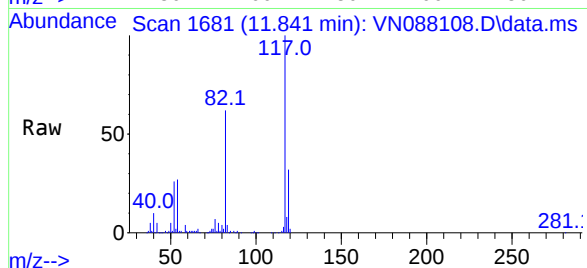
Tgt Ion:117 Resp: 522532

Ion Ratio Lower Upper

117 100

82 62.0 47.4 71.2

119 32.0 24.3 36.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088108.D

Acq: 27 Oct 2025 13:10

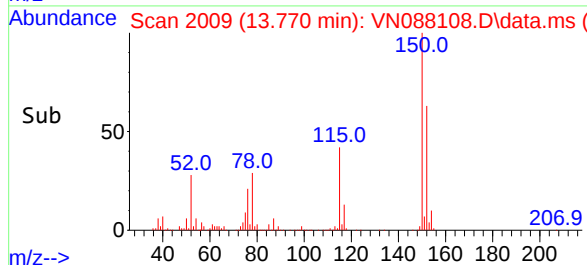
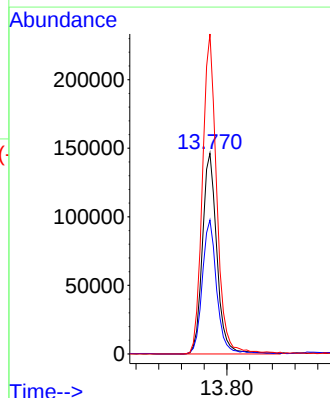
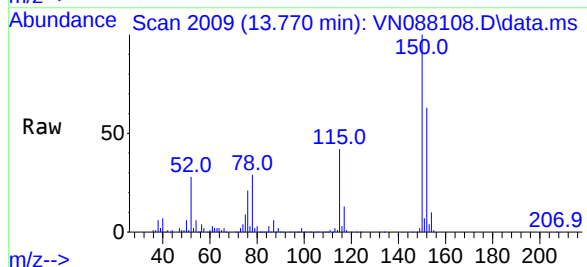
Tgt Ion:152 Resp: 258786

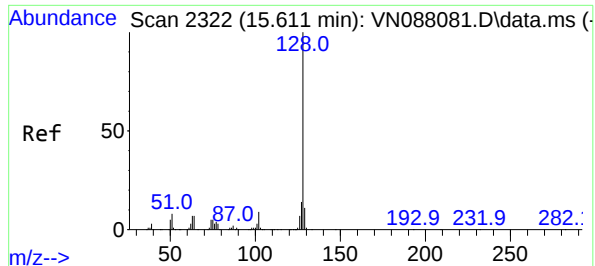
Ion Ratio Lower Upper

152 100

115 67.0 32.3 96.8

150 158.0 0.0 351.0





#95

Naphthalene

Concen: 4.310 ug/l

RT: 15.617 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN088108.D

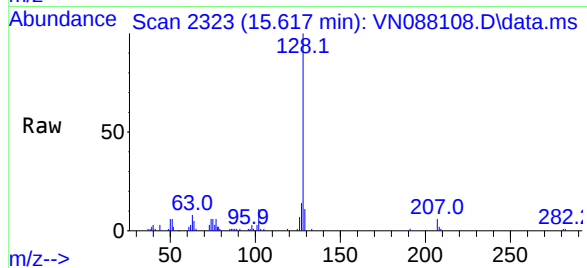
Acq: 27 Oct 2025 13:10

Instrument :

MSVOA_N

ClientSampleId :

MW2



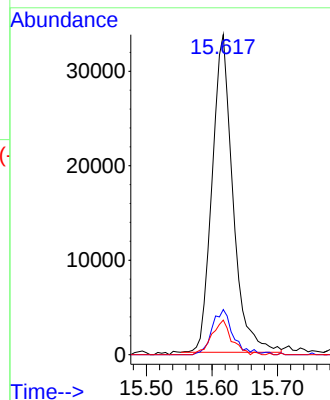
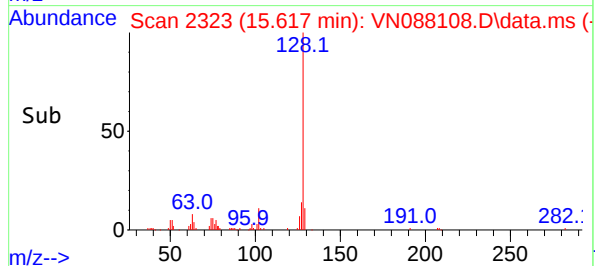
Tgt Ion:128 Resp: 74063

Ion Ratio Lower Upper

128 100

127 14.2 10.6 15.8

129 10.3 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088108.D
Acq On : 27 Oct 2025 13:10
Operator : JC\MD
Sample : Q3464-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW2

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M

Title : SW846 8260

Signal : TIC: VN088108.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.383	66	73	87	rBV	161025	282730	15.13%	2.553%
2	2.989	170	176	183	rVB5	10917	24323	1.30%	0.220%
3	4.430	411	421	430	rVB3	27216	91905	4.92%	0.830%
4	7.953	1010	1020	1030	rBV2	26387	69468	3.72%	0.627%
5	8.153	1042	1054	1058	rBV	263968	640229	34.26%	5.781%
6	8.206	1058	1063	1077	rVB2	357938	818954	43.83%	7.395%
7	8.559	1114	1123	1137	rBV	306741	725838	38.85%	6.554%
8	9.082	1203	1212	1227	rVB	654925	1390495	74.42%	12.556%
9	10.547	1451	1461	1470	rBV	1008224	1868540	100.00%	16.872%
10	11.841	1672	1681	1695	rBV	957352	1793710	96.00%	16.196%
11	12.829	1842	1849	1871	rBV	704292	1343747	71.91%	12.133%
12	13.770	2001	2009	2021	rBV	992607	1774542	94.97%	16.023%
13	13.964	2031	2042	2043	rBV9	13039	32228	1.72%	0.291%
14	14.076	2052	2061	2064	rBV8	8223	18709	1.00%	0.169%
15	15.617	2312	2323	2331	rBV2	75537	177259	9.49%	1.601%
16	16.758	2510	2517	2522	rBV5	8332	22059	1.18%	0.199%

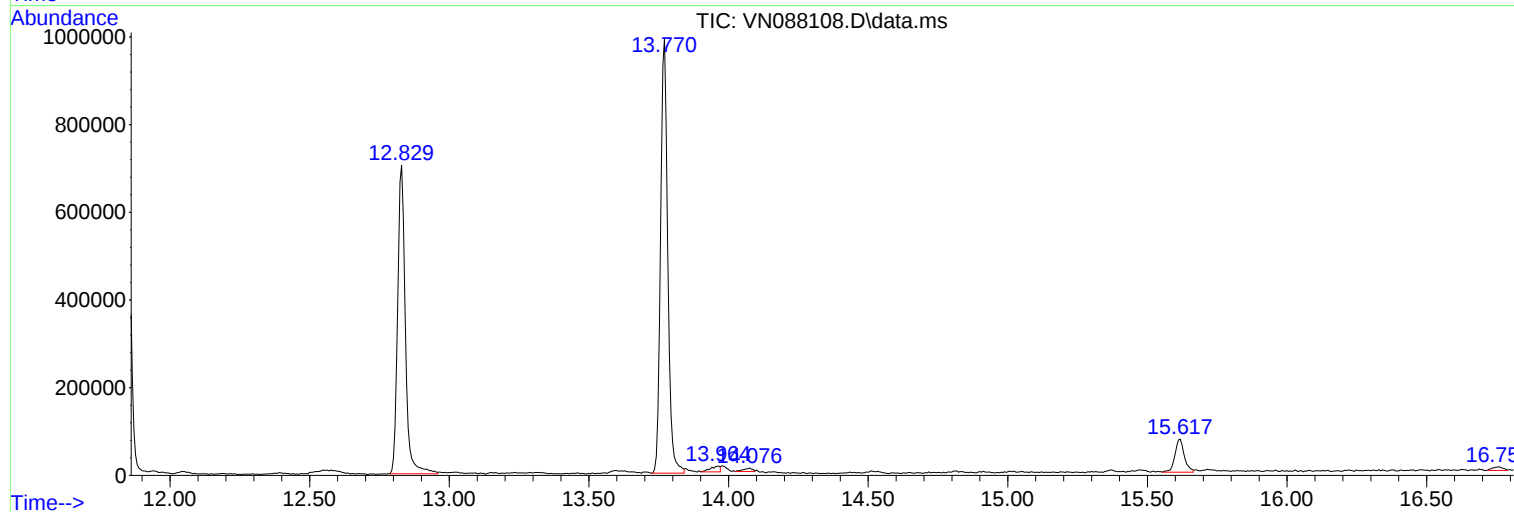
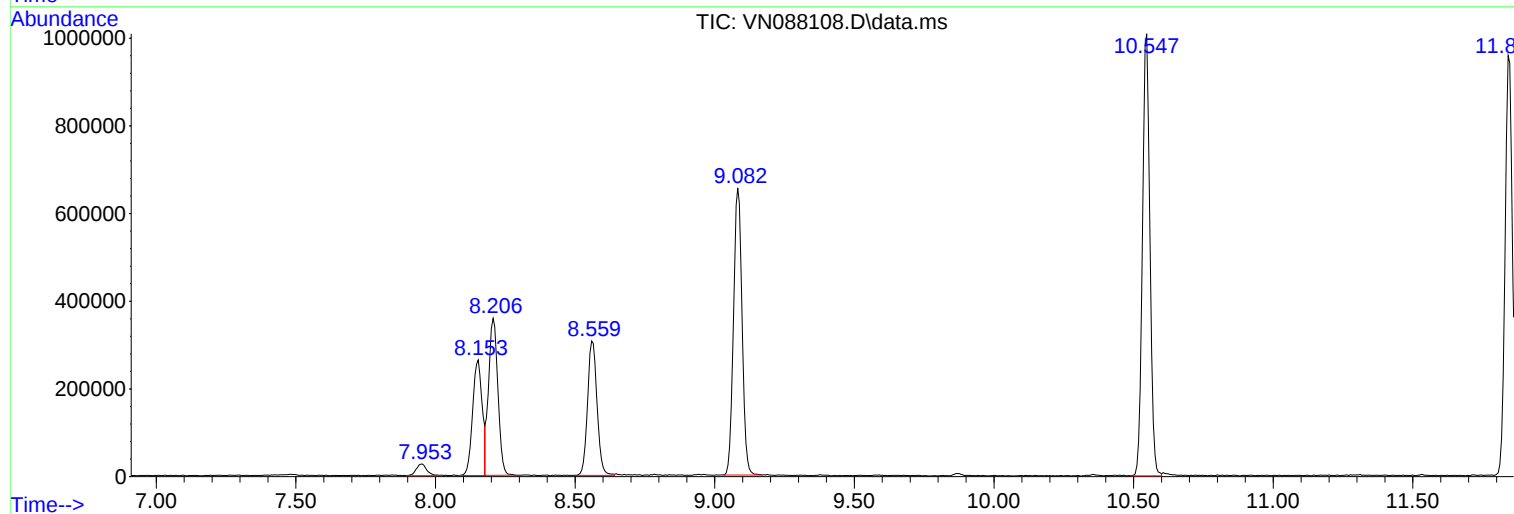
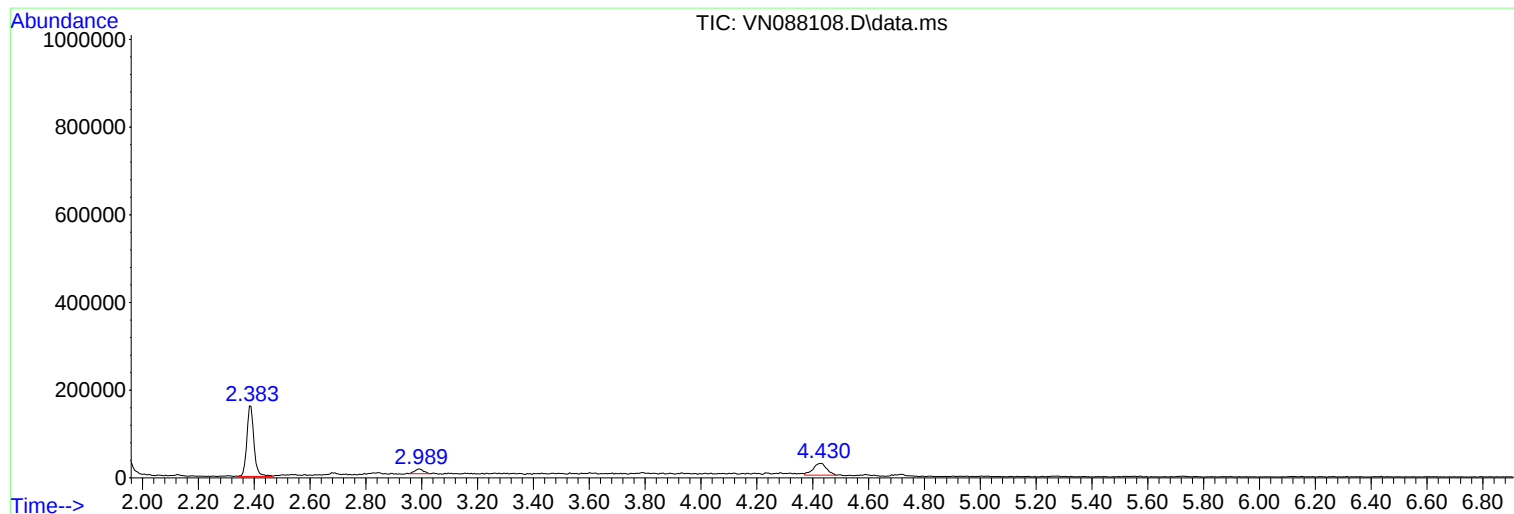
Sum of corrected areas: 11074736

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088108.D
Acq On : 27 Oct 2025 13:10
Operator : JC\MD
Sample : Q3464-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088108.D
Acq On : 27 Oct 2025 13:10
Operator : JC\MD
Sample : Q3464-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088108.D
Acq On : 27 Oct 2025 13:10
Operator : JC\MD
Sample : Q3464-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

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

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088109.D
 Acq On : 27 Oct 2025 13:31
 Operator : JC\MD
 Sample : Q3464-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3

Quant Time: Oct 28 01:26:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

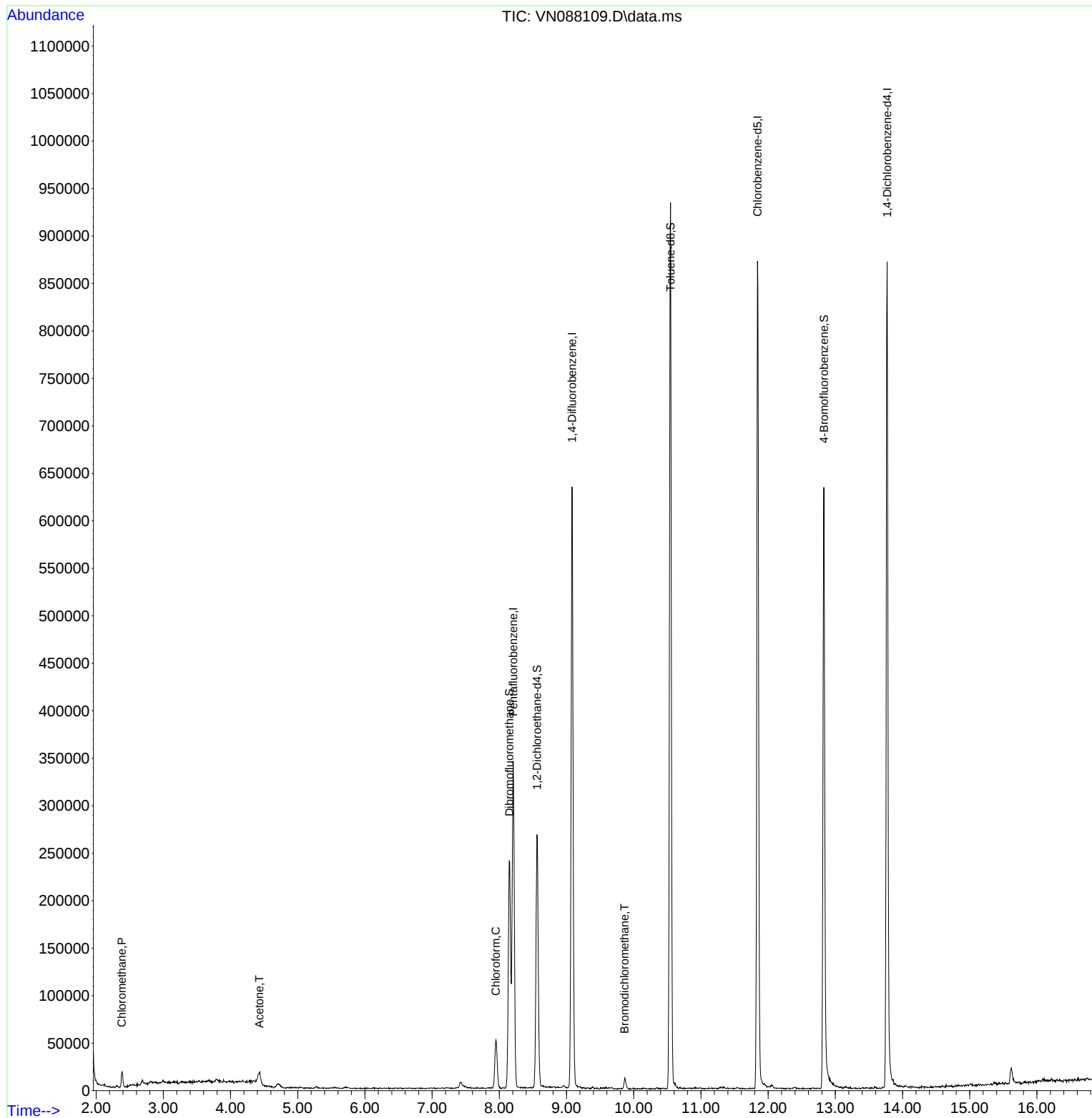
Internal Standards						
1) Pentafluorobenzene	8.206	168	223573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	506770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	486491	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	231113	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	228087	58.997	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.000%
35) Dibromofluoromethane	8.147	113	173646	51.005	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.000%
50) Toluene-d8	10.547	98	622675	47.467	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.940%
62) 4-Bromofluorobenzene	12.829	95	233072	50.309	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.620%
Target Compounds						
						Qvalue
3) Chloromethane	2.383	50	16871	5.686	ug/l	99
16) Acetone	4.430	43	25969	13.371	ug/l	92
30) Chloroform	7.947	83	48967	8.542	ug/l	99
47) Bromodichloromethane	9.865	83	7823	1.433	ug/l	95

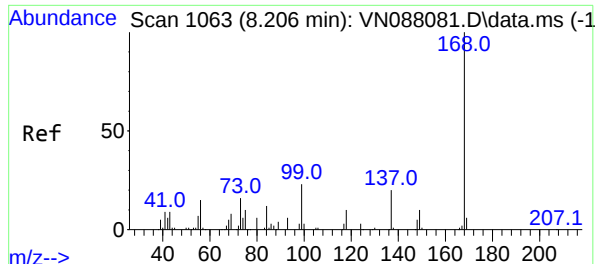
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088109.D
Acq On : 27 Oct 2025 13:31
Operator : JC\MD
Sample : Q3464-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW3

Quant Time: Oct 28 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

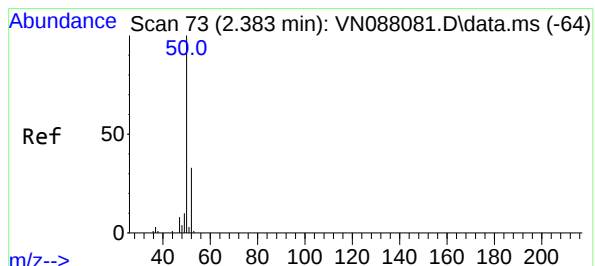
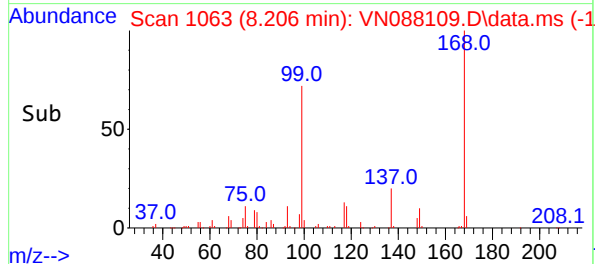
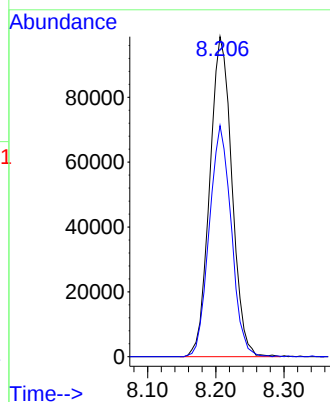
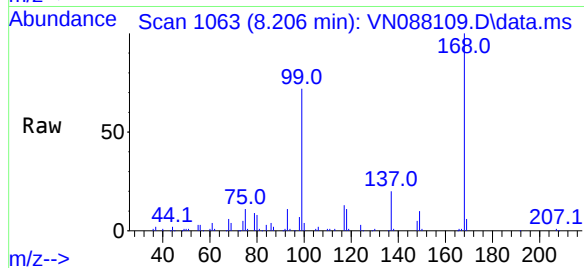




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

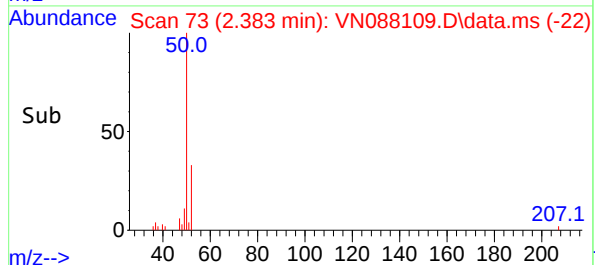
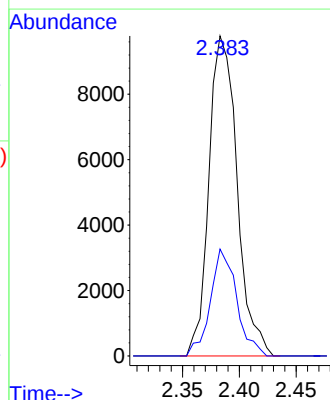
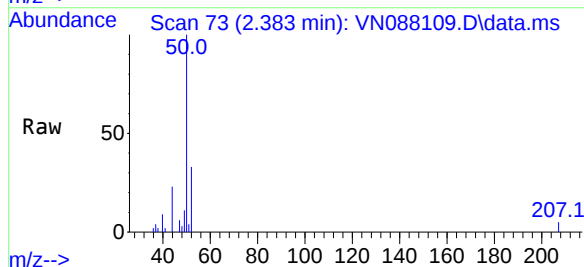
Instrument :
MSVOA_N
ClientSampleId :
MW3

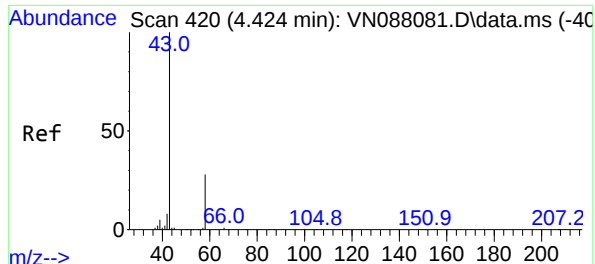
Tgt Ion:168 Resp: 223573
Ion Ratio Lower Upper
168 100
99 72.2 57.2 85.8



#3
Chloromethane
Concen: 5.686 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 50 Resp: 16871
Ion Ratio Lower Upper
50 100
52 33.4 26.2 39.4

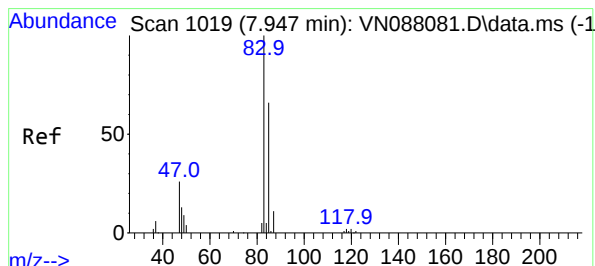
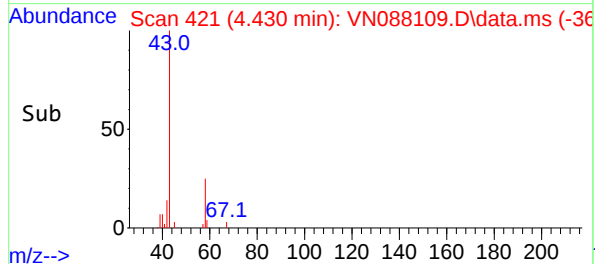
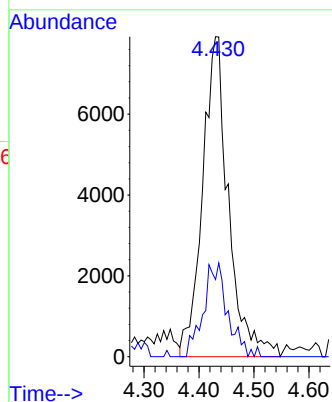
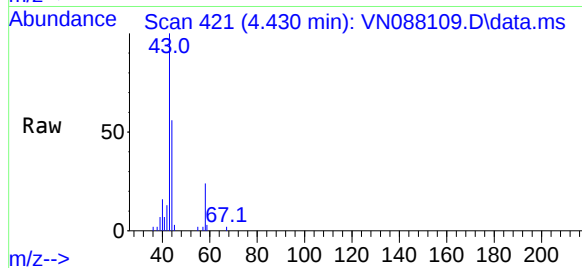




#16
Acetone
Concen: 13.371 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

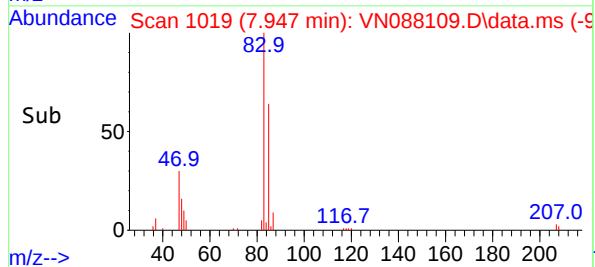
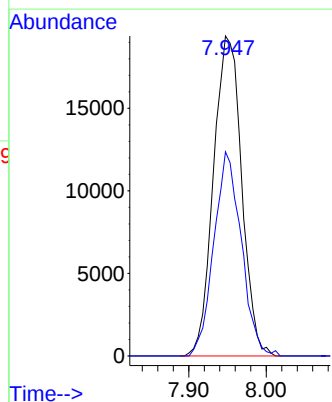
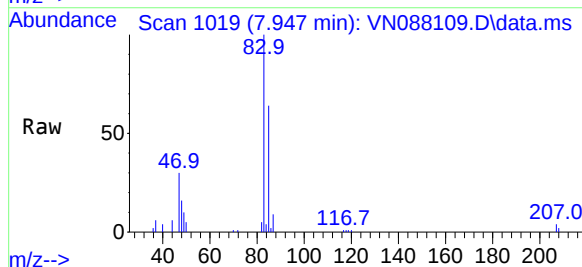
Instrument :
MSVOA_N
ClientSampleId :
MW3

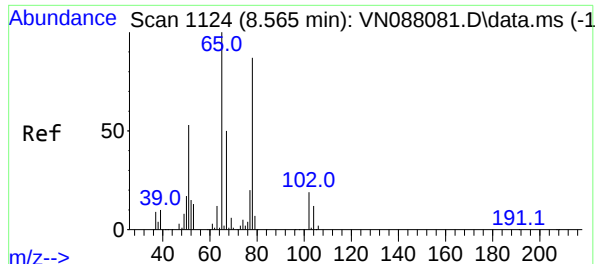
Tgt Ion: 43 Resp: 25969
Ion Ratio Lower Upper
43 100
58 24.1 22.6 33.8



#30
Chloroform
Concen: 8.542 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088109.D
Acq: 27 Oct 2025 13:31

Tgt Ion: 83 Resp: 48967
Ion Ratio Lower Upper
83 100
85 63.8 50.7 76.1





#33

1,2-Dichloroethane-d4

Concen: 58.997 ug/l

RT: 8.559 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

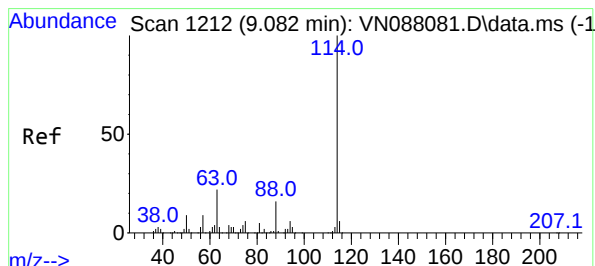
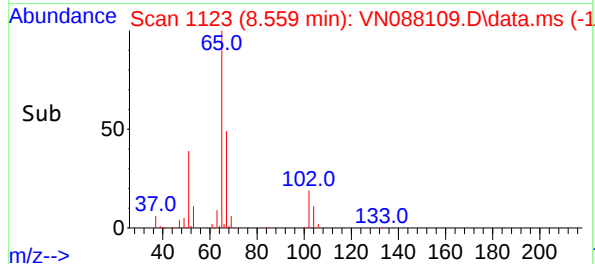
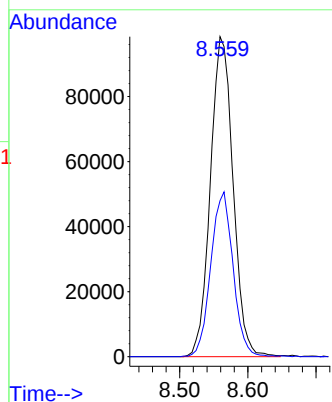
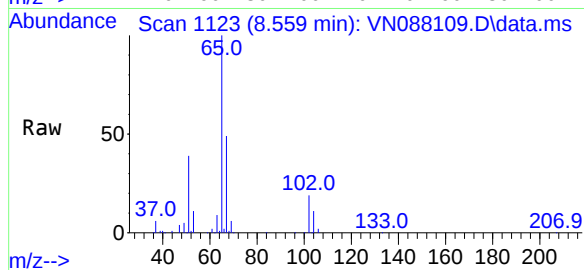
MW3

Tgt Ion: 65 Resp: 228087

Ion Ratio Lower Upper

65 100

67 50.5 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

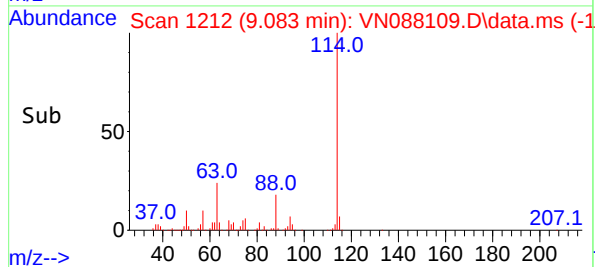
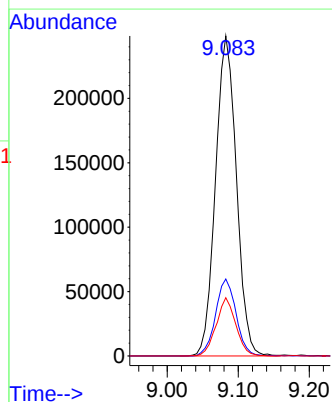
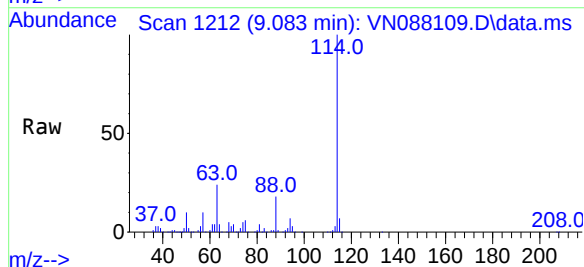
Tgt Ion: 114 Resp: 506770

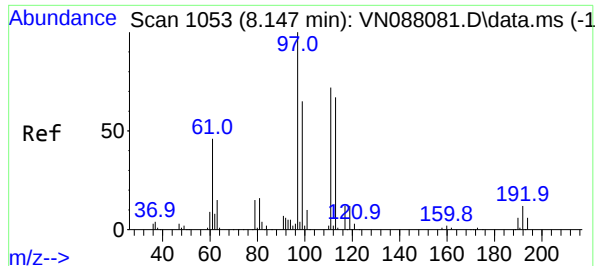
Ion Ratio Lower Upper

114 100

63 24.1 0.0 45.2

88 18.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.005 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

MW3

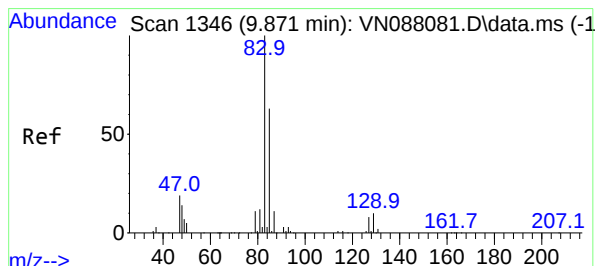
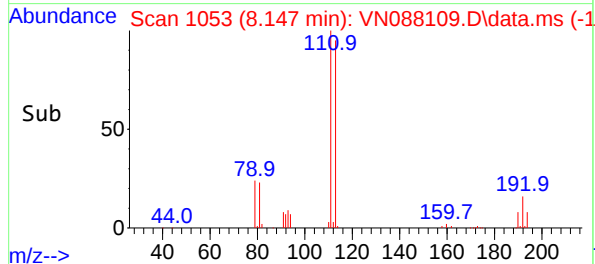
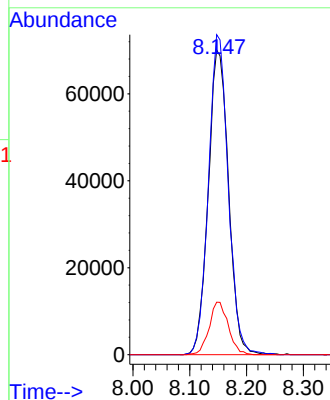
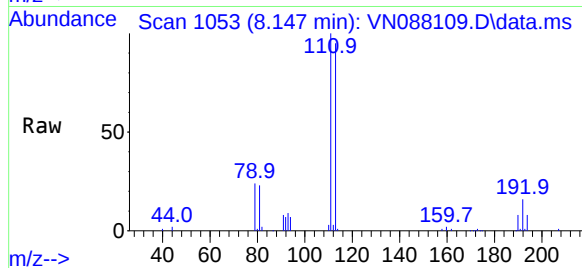
Tgt Ion:113 Resp: 173646

Ion Ratio Lower Upper

113 100

111 102.2 82.8 124.2

192 16.2 12.8 19.2



#47

Bromodichloromethane

Concen: 1.433 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. -0.006 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

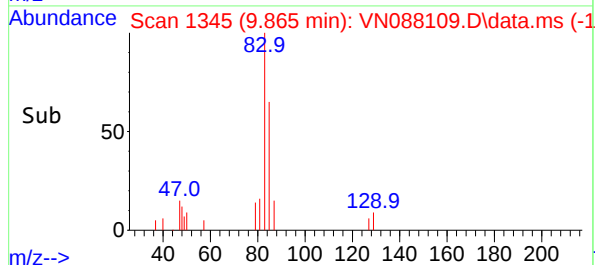
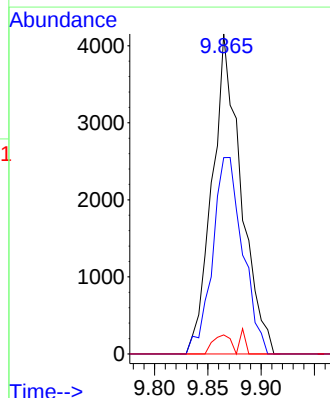
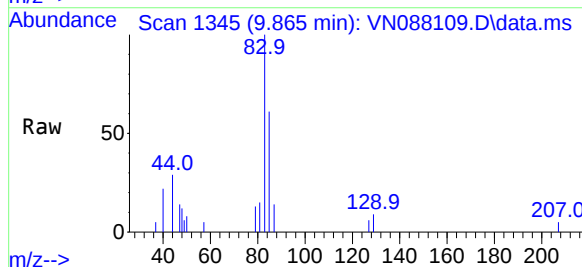
Tgt Ion: 83 Resp: 7823

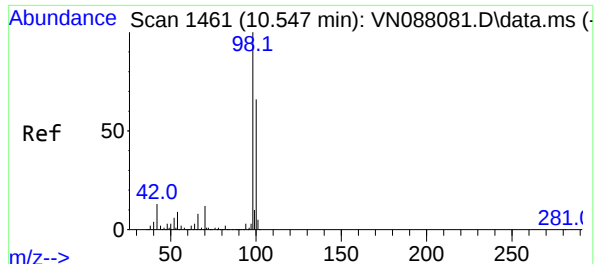
Ion Ratio Lower Upper

83 100

85 61.3 52.5 78.7

127 5.9 5.8 8.6





#50

Toluene-d8

Concen: 47.467 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

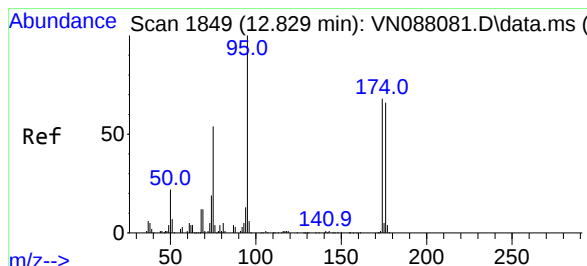
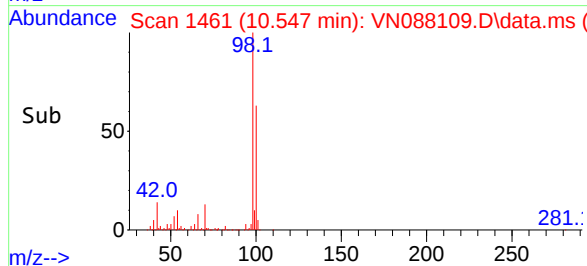
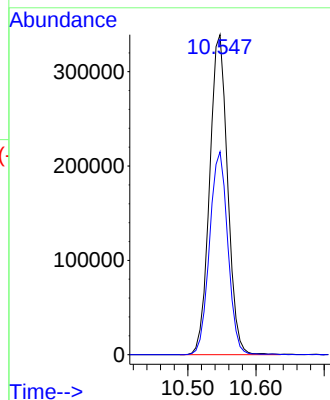
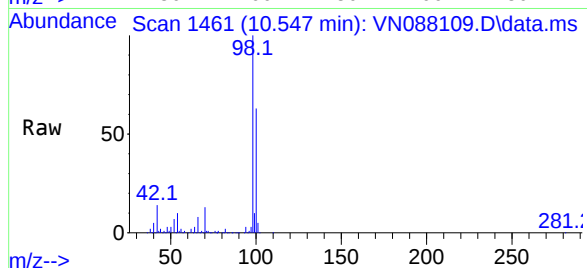
MW3

Tgt Ion: 98 Resp: 622675

Ion Ratio Lower Upper

98 100

100 64.2 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 50.309 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

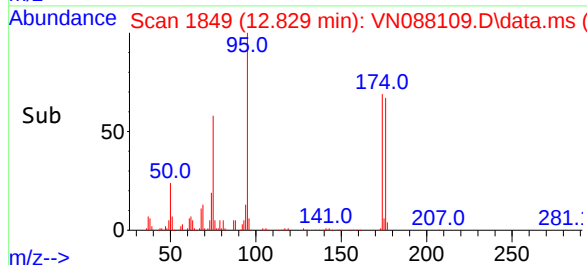
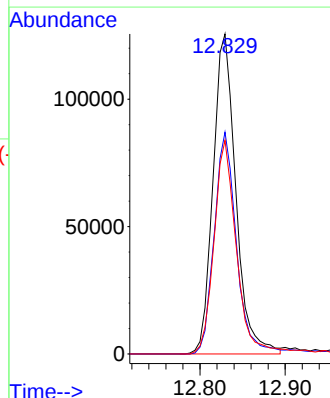
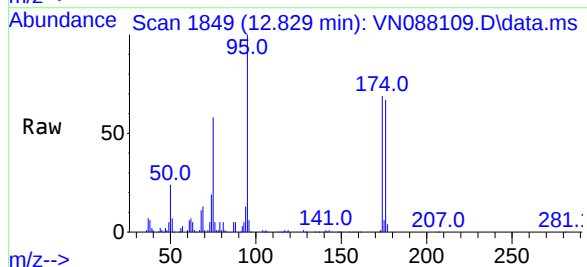
Tgt Ion: 95 Resp: 233072

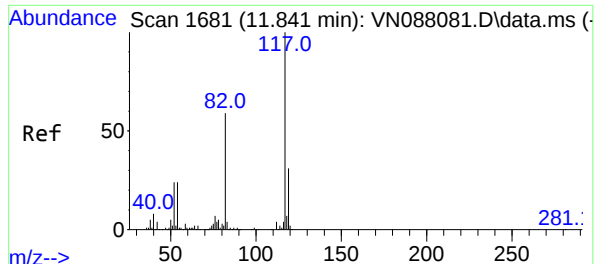
Ion Ratio Lower Upper

95 100

174 67.5 0.0 138.4

176 66.2 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

MW3

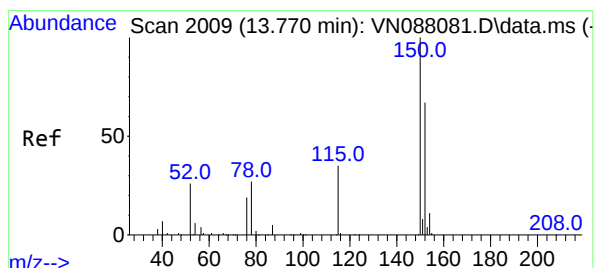
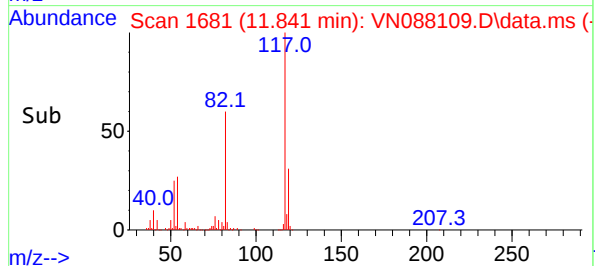
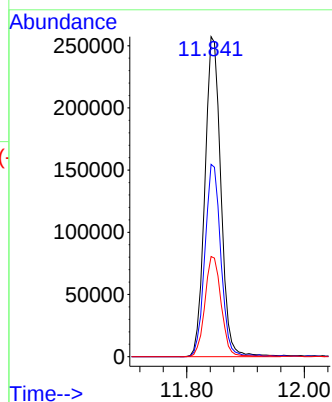
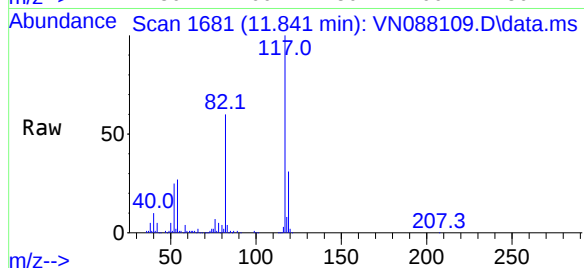
Tgt Ion:117 Resp: 486491

Ion Ratio Lower Upper

117 100

82 60.1 47.4 71.2

119 31.3 24.3 36.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088109.D

Acq: 27 Oct 2025 13:31

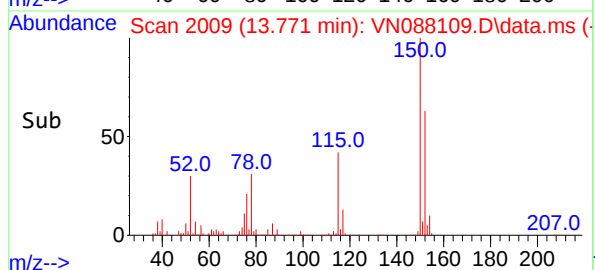
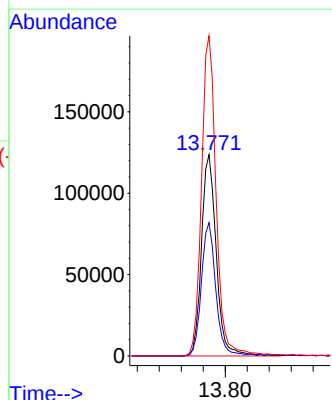
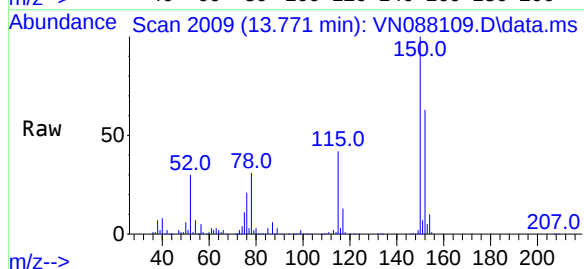
Tgt Ion:152 Resp: 231113

Ion Ratio Lower Upper

152 100

115 64.6 32.3 96.8

150 158.0 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088109.D
Acq On : 27 Oct 2025 13:31
Operator : JC\MD
Sample : Q3464-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW3

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

Signal : TIC: VN088109.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.383	68	73	81	rBV	16950	30336	1.75%	0.314%
2	4.436	410	422	429	rVB2	14186	48563	2.80%	0.502%
3	7.947	1011	1019	1031	rVB2	50979	128264	7.39%	1.327%
4	8.147	1043	1053	1058	rBV	239357	585677	33.75%	6.059%
5	8.206	1058	1063	1074	rVB	343666	767211	44.21%	7.937%
6	8.559	1115	1123	1135	rBV	265871	618448	35.64%	6.398%
7	9.083	1201	1212	1223	rBV	632854	1295919	74.68%	13.406%
8	9.865	1338	1345	1355	rVB3	11908	25546	1.47%	0.264%
9	10.547	1452	1461	1469	rBV	933377	1735314	100.00%	17.952%
10	11.841	1674	1681	1696	rBV	871101	1644543	94.77%	17.013%
11	12.829	1841	1849	1864	rBV	632762	1177036	67.83%	12.177%
12	13.771	2001	2009	2022	rBV	869527	1573474	90.67%	16.278%
13	15.617	2318	2323	2328	rBV3	16344	36064	2.08%	0.373%

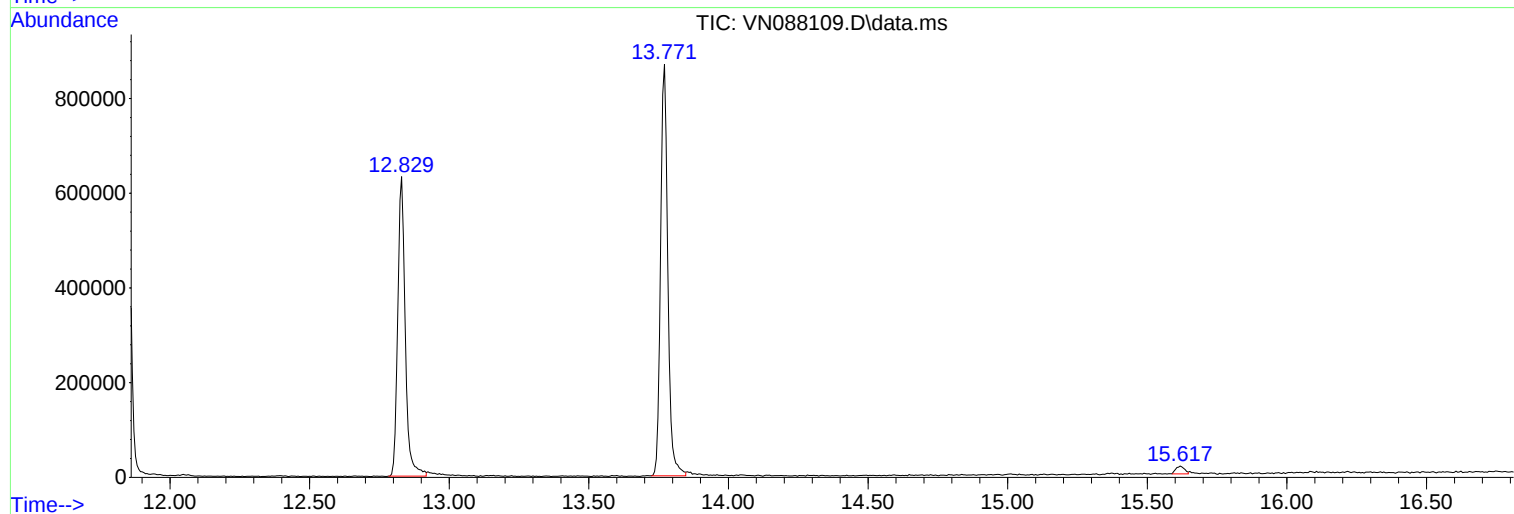
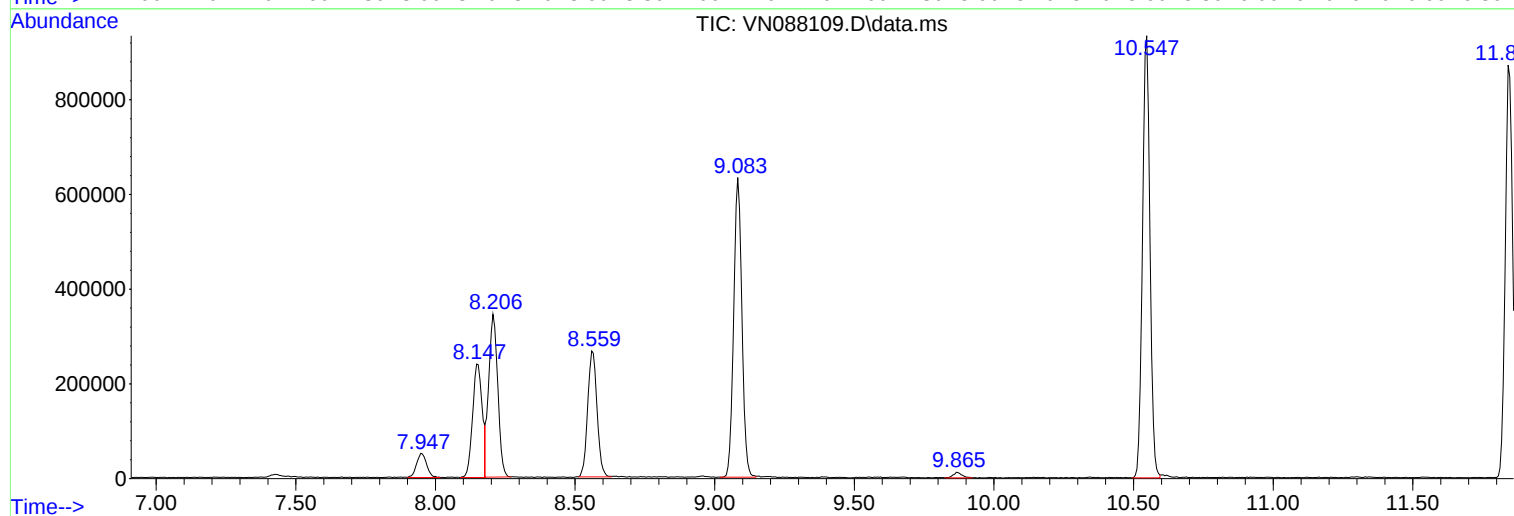
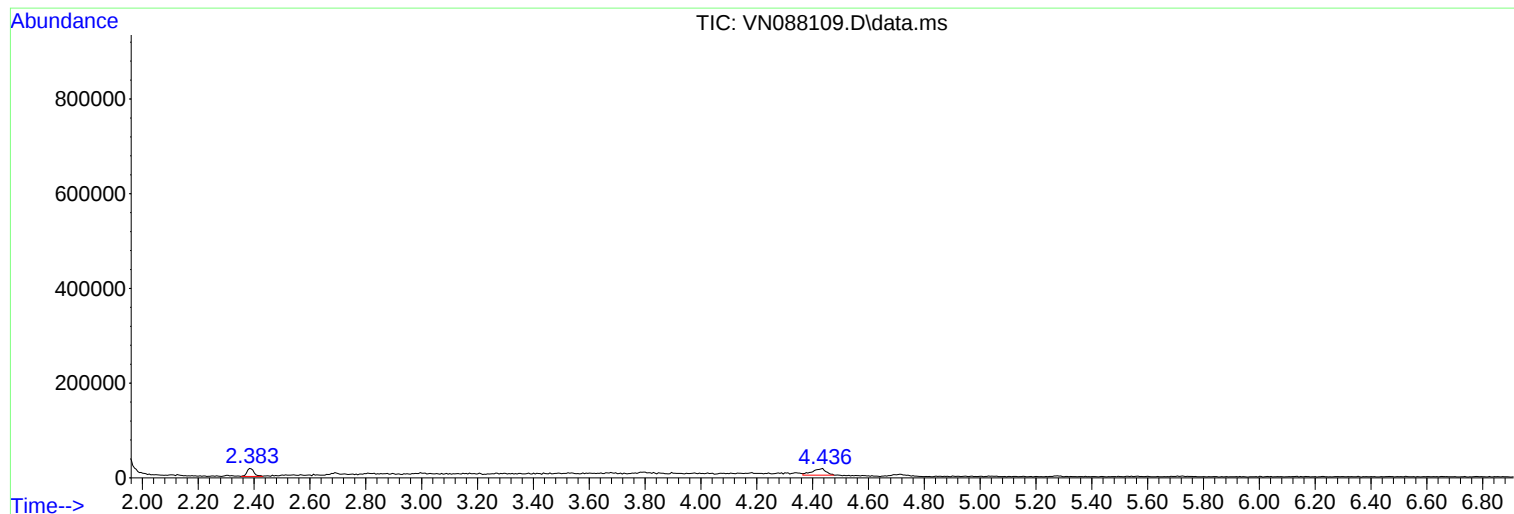
Sum of corrected areas: 9666395

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088109.D
Acq On : 27 Oct 2025 13:31
Operator : JC\MD
Sample : Q3464-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088109.D
Acq On : 27 Oct 2025 13:31
Operator : JC\MD
Sample : Q3464-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088109.D
Acq On : 27 Oct 2025 13:31
Operator : JC\MD
Sample : Q3464-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Quant Time: Oct 28 01:22:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	198801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	446179	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	422679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	199580	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	209923	61.065	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	122.140%
35) Dibromofluoromethane	8.147	113	158342	52.825	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.660%
50) Toluene-d8	10.547	98	576347	49.901	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.800%
62) 4-Bromofluorobenzene	12.829	95	211880	51.945	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.900%

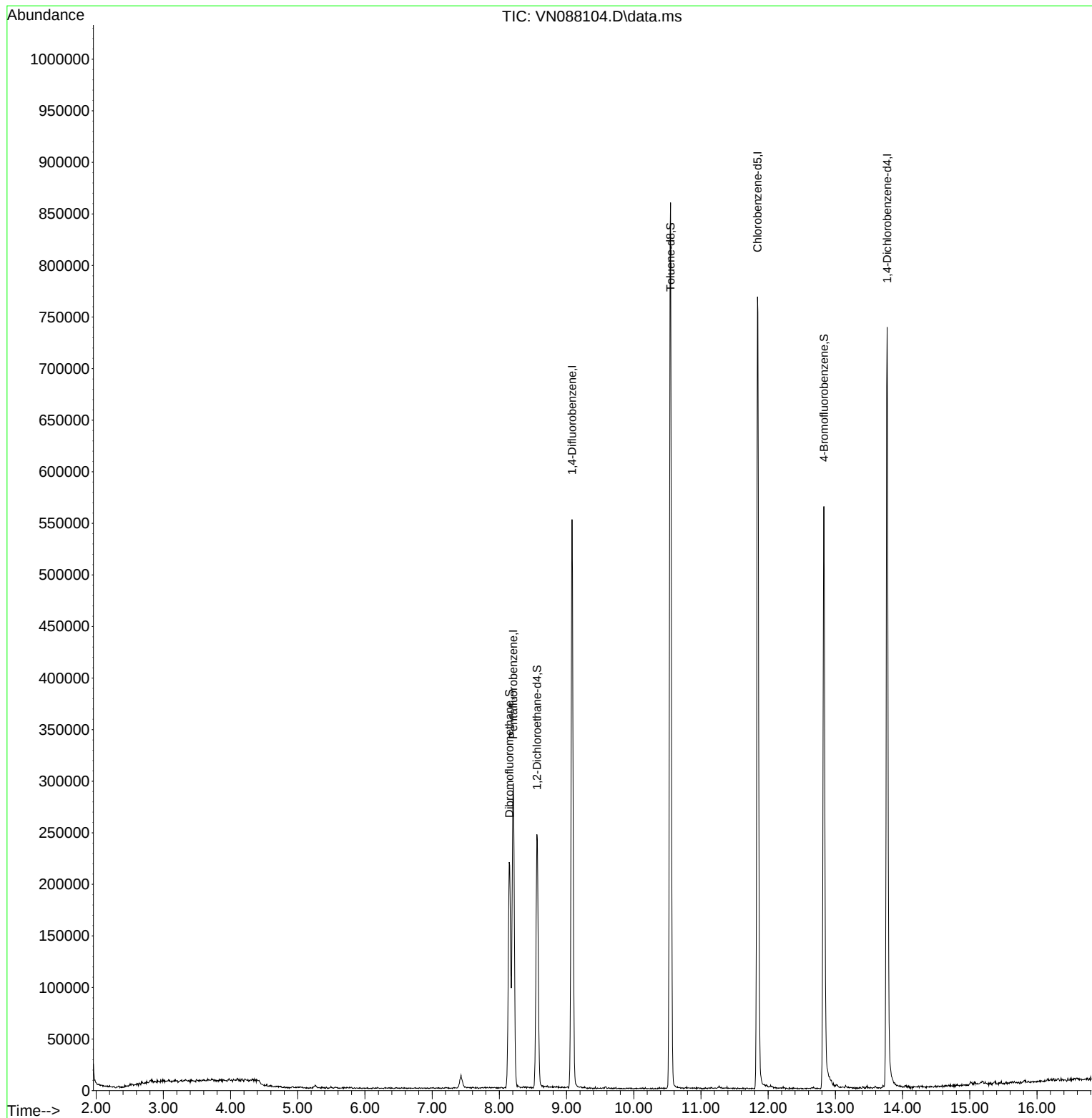
Target Compounds	Qvalue

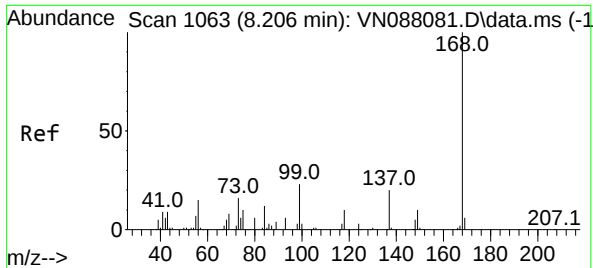
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Quant Time: Oct 28 01:22:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

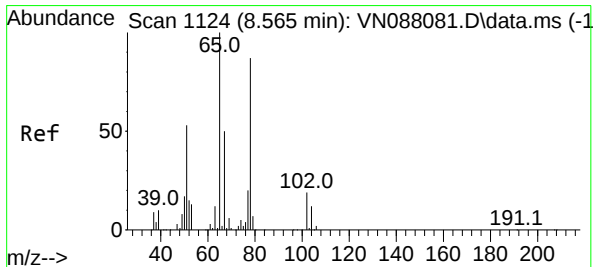
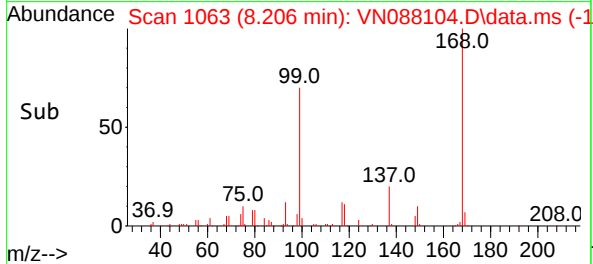
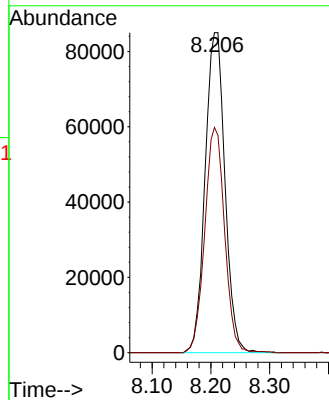
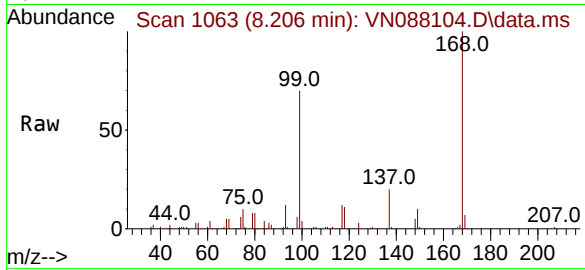




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN088104.D
Acq: 27 Oct 2025 11:34

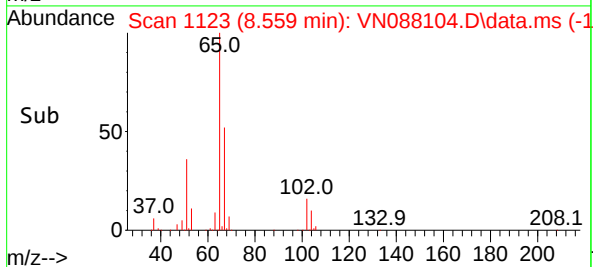
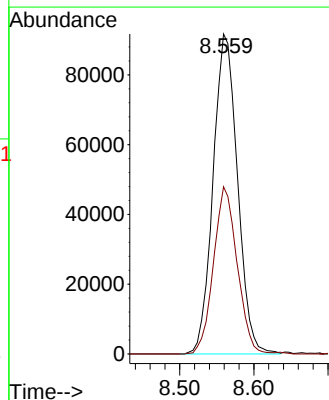
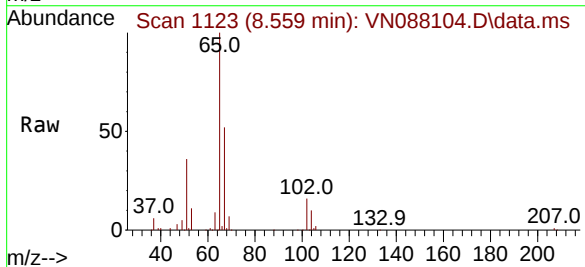
Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

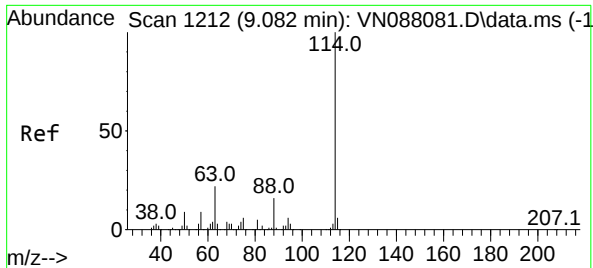
Tgt Ion:168 Resp: 198801
Ion Ratio Lower Upper
168 100
99 70.4 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 61.065 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088104.D
Acq: 27 Oct 2025 11:34

Tgt Ion: 65 Resp: 209923
Ion Ratio Lower Upper
65 100
67 50.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088104.D

Acq: 27 Oct 2025 11:34

Instrument :

MSVOA_N

ClientSampleId :

VN1027WBL01

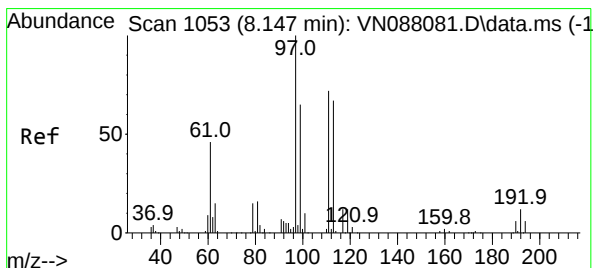
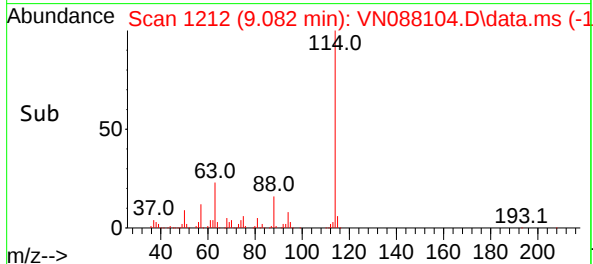
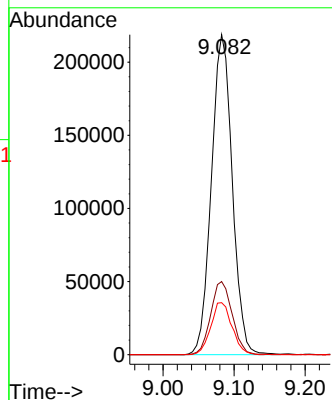
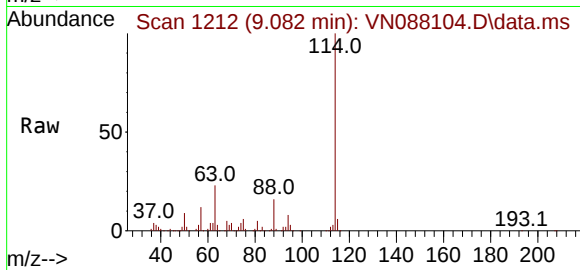
Tgt Ion:114 Resp: 446179

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.2

88 16.3 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.825 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088104.D

Acq: 27 Oct 2025 11:34

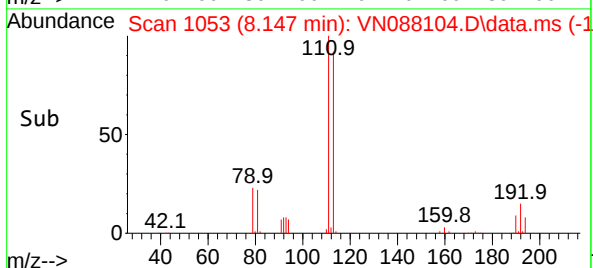
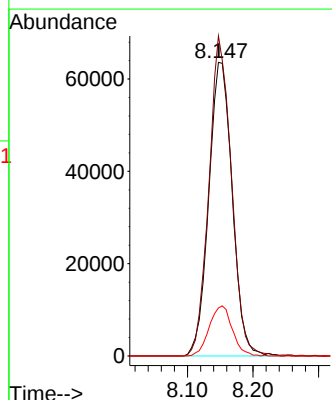
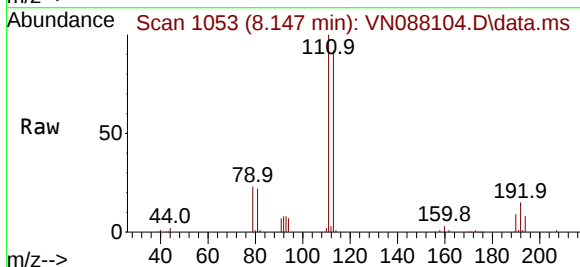
Tgt Ion:113 Resp: 158342

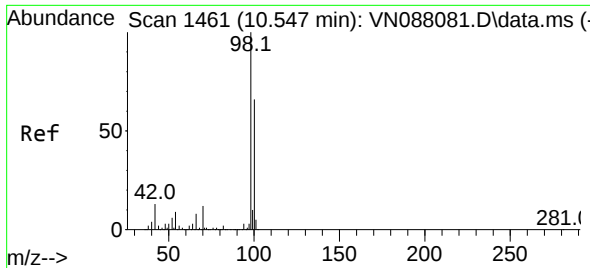
Ion Ratio Lower Upper

113 100

111 104.4 82.8 124.2

192 16.7 12.8 19.2

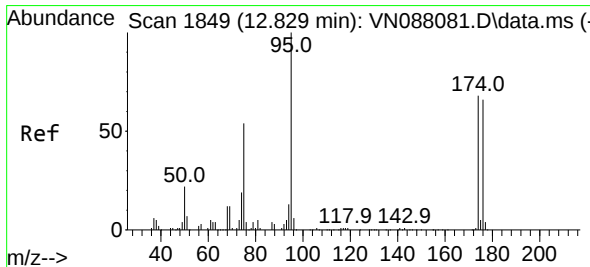
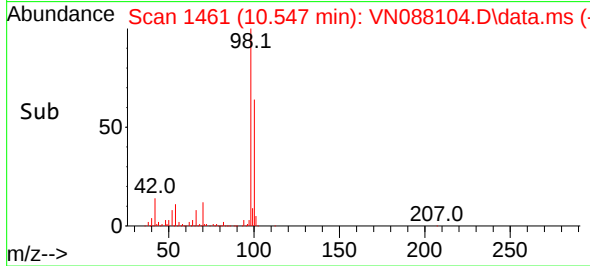
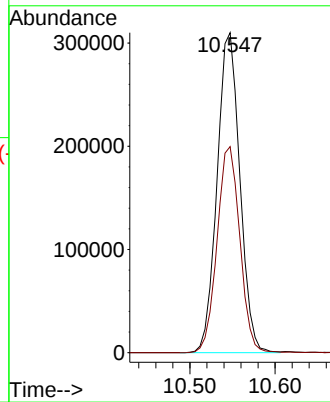
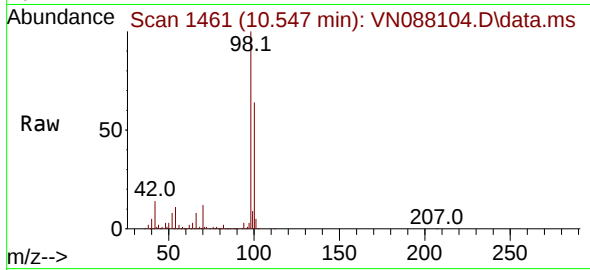




#50
Toluene-d8
Concen: 49.901 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088104.D
Acq: 27 Oct 2025 11:34

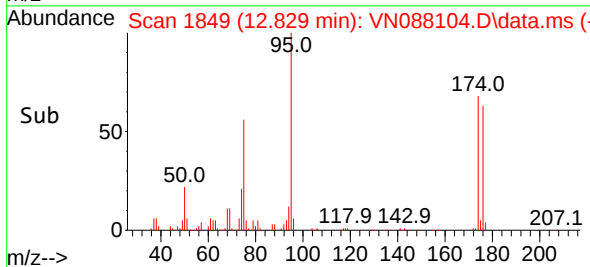
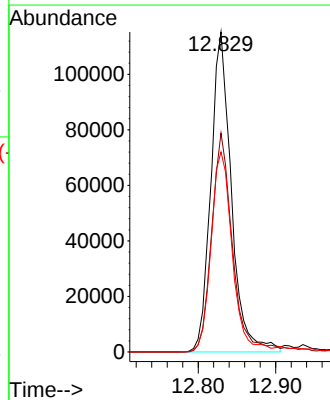
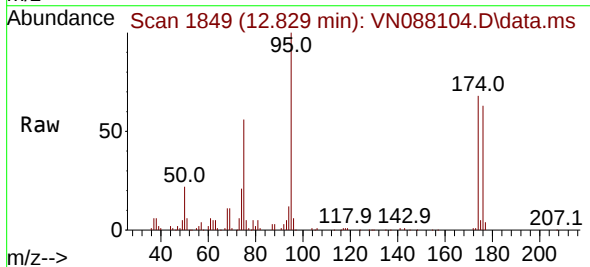
Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

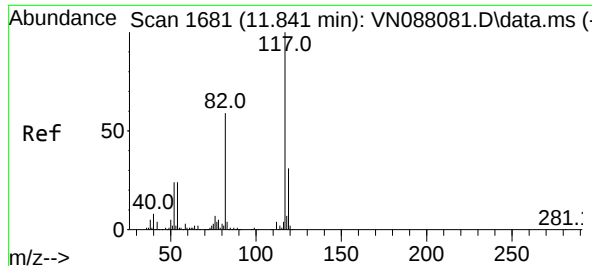
Tgt Ion: 98 Resp: 576347
Ion Ratio Lower Upper
98 100
100 64.4 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 51.945 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088104.D
Acq: 27 Oct 2025 11:34

Tgt Ion: 95 Resp: 211880
Ion Ratio Lower Upper
95 100
174 70.5 0.0 138.4
176 64.4 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088104.D

Acq: 27 Oct 2025 11:34

Instrument :

MSVOA_N

ClientSampleId :

VN1027WBL01

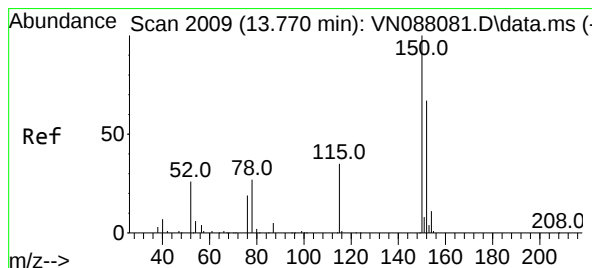
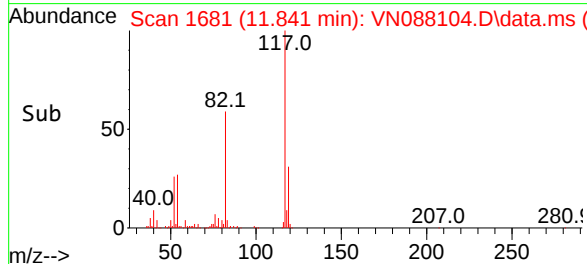
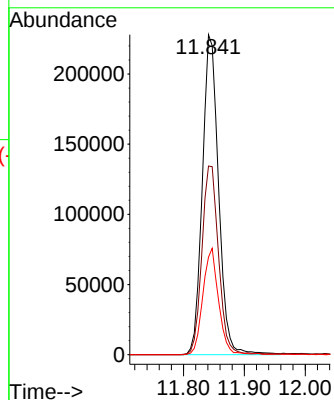
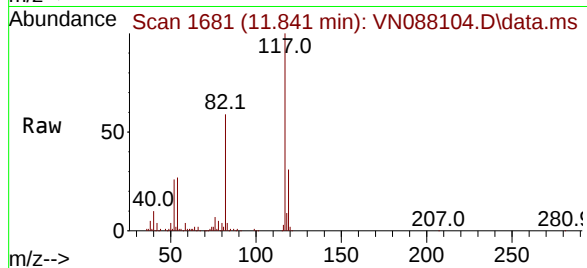
Tgt Ion:117 Resp: 422679

Ion Ratio Lower Upper

117 100

82 59.0 47.4 71.2

119 30.5 24.3 36.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088104.D

Acq: 27 Oct 2025 11:34

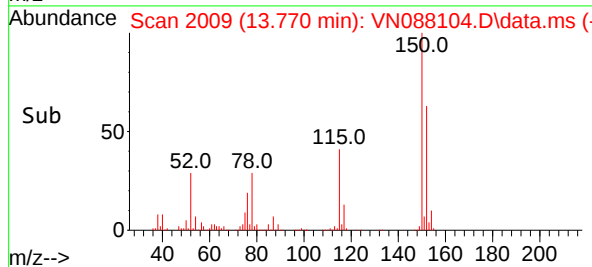
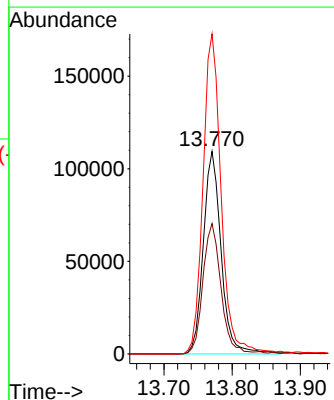
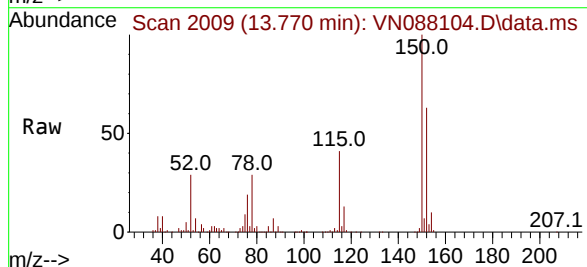
Tgt Ion:152 Resp: 199580

Ion Ratio Lower Upper

152 100

115 65.5 32.3 96.8

150 160.9 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M

Title : SW846 8260

Signal : TIC: VN088104.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.430	922	931	940	rBV	12366	32652	2.04%	0.386%
2	8.147	1044	1053	1058	rBV	218907	537598	33.51%	6.351%
3	8.206	1058	1063	1073	rVB	294441	672817	41.94%	7.948%
4	8.559	1114	1123	1136	rBV	245979	574679	35.83%	6.789%
5	9.082	1203	1212	1228	rBV	551406	1142160	71.20%	13.493%
6	10.547	1450	1461	1478	rBV	858849	1604088	100.00%	18.950%
7	11.841	1674	1681	1697	rBV	767910	1443325	89.98%	17.051%
8	12.829	1841	1849	1862	rBV	564588	1074385	66.98%	12.692%
9	13.770	2001	2009	2026	rBV	736575	1383293	86.24%	16.341%

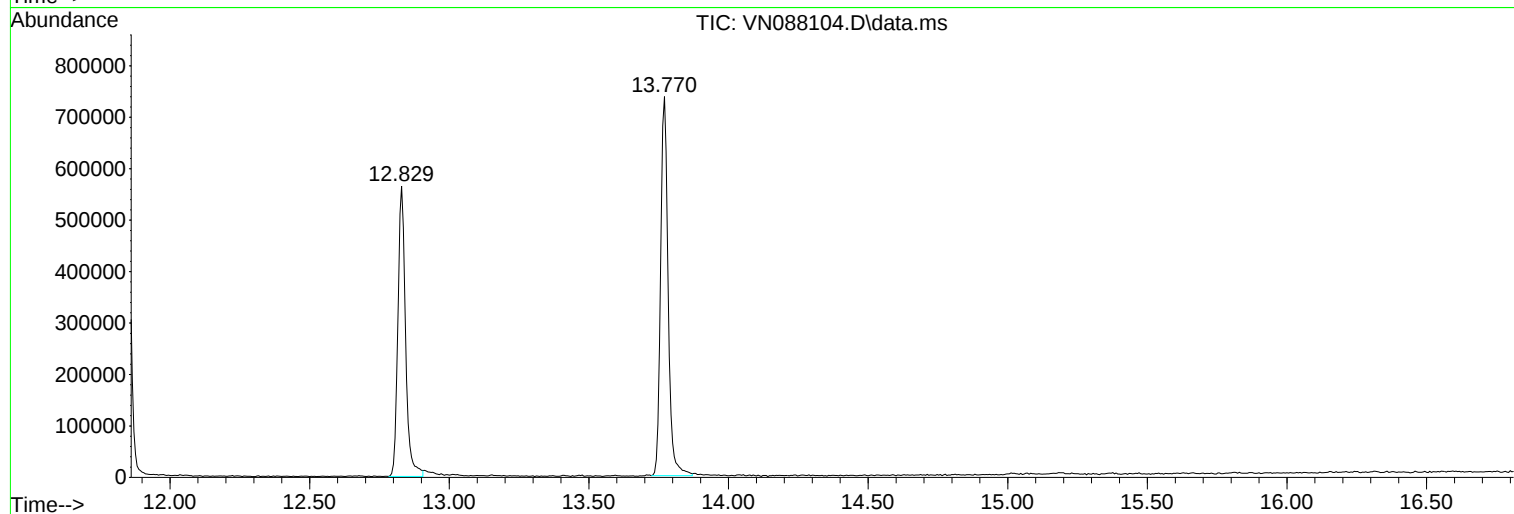
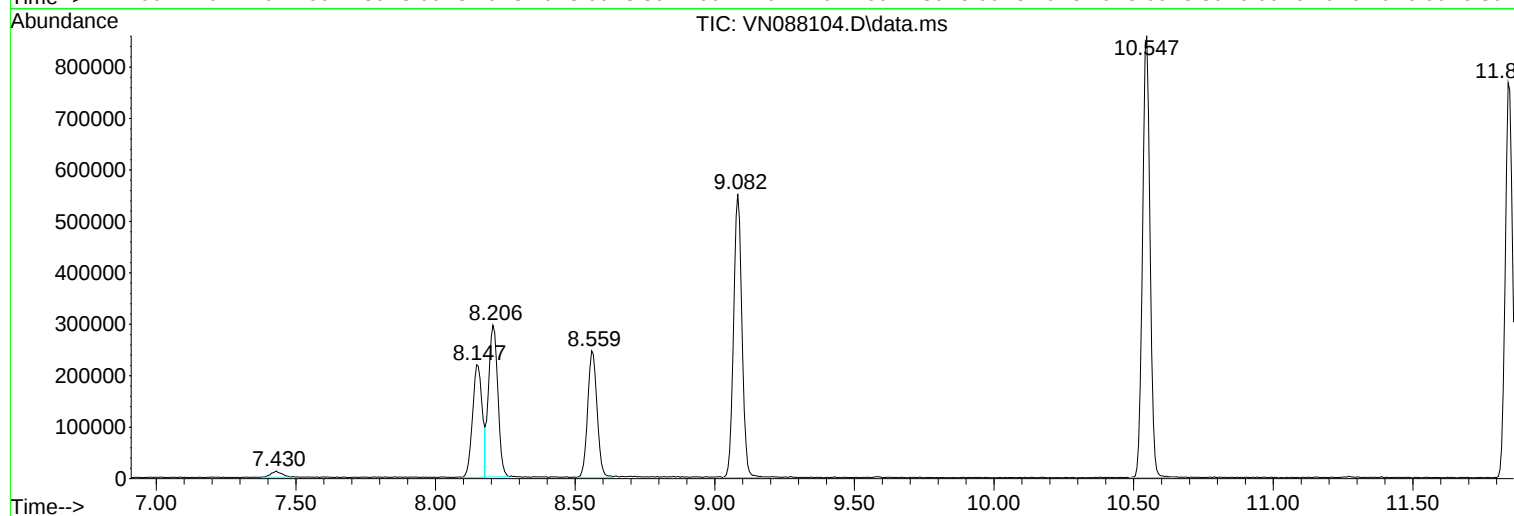
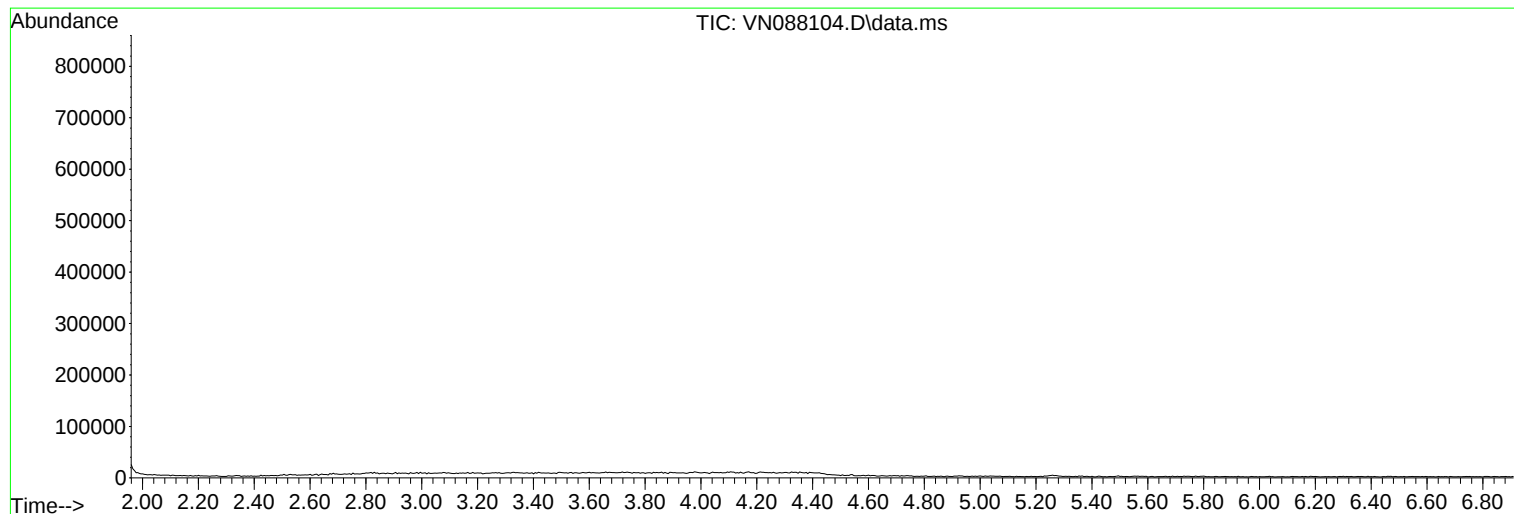
Sum of corrected areas: 8464997

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088104.D
Acq On : 27 Oct 2025 11:34
Operator : JC\MD
Sample : VN1027WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

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

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088105.D
 Acq On : 27 Oct 2025 11:55
 Operator : JC\MD
 Sample : VN1027WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1027WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/28/2025
 Supervised By : Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:22:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	300941	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	563874	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	505093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	256562	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	292467	56.202	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.400%			
35) Dibromofluoromethane	8.147	113	201534	53.201	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.400%			
50) Toluene-d8	10.547	98	745408	51.068	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.140%			
62) 4-Bromofluorobenzene	12.829	95	271139	52.599	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	70657	20.814	ug/l	97
3) Chloromethane	2.383	50	85119	21.314	ug/l	98
4) Vinyl Chloride	2.536	62	91995	21.142	ug/l	100
5) Bromomethane	2.983	94	52750	20.268	ug/l	100
6) Chloroethane	3.142	64	58867	18.777	ug/l	100
7) Trichlorofluoromethane	3.512	101	136634	19.687	ug/l	99
8) Diethyl Ether	3.959	74	52943	20.525	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.377	101	72457	20.232	ug/l	97
10) Methyl Iodide	4.583	142	63251	20.612	ug/l	92
11) Tert butyl alcohol	5.524	59	102660	114.510	ug/l	99
12) 1,1-Dichloroethene	4.342	96	72424	19.147	ug/l	97
13) Acrolein	4.183	56	131856	130.754	ug/l	99
14) Allyl chloride	5.012	41	135015	20.365	ug/l	95
15) Acrylonitrile	5.712	53	271724	111.268	ug/l	100
16) Acetone	4.424	43	272627	104.280	ug/l	99
17) Carbon Disulfide	4.706	76	228511	19.874	ug/l	100
18) Methyl Acetate	5.024	43	120917	22.592	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	302666	21.789	ug/l	98
20) Methylene Chloride	5.271	84	94419	23.618	ug/l	97
21) trans-1,2-Dichloroethene	5.783	96	83955	20.221	ug/l	99
22) Diisopropyl ether	6.659	45	307416	22.048	ug/l	95
23) Vinyl Acetate	6.594	43	1424145	113.392	ug/l	97
24) 1,1-Dichloroethane	6.553	63	171245	22.172	ug/l	97
25) 2-Butanone	7.471	43	383491	111.307	ug/l	99
26) 2,2-Dichloropropane	7.471	77	152872	21.781	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	101089	21.150	ug/l	95
28) Bromochloromethane	7.794	49	91201	24.991	ug/l	98
29) Tetrahydrofuran	7.830	42	252484	112.448	ug/l	98
30) Chloroform	7.947	83	174874	22.664	ug/l	98
31) Cyclohexane	8.241	56	153037	21.009	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	150009	21.829	ug/l	96
36) 1,1-Dichloropropene	8.353	75	120548	21.795	ug/l	99
37) Ethyl Acetate	7.547	43	156235	21.888	ug/l	98
38) Carbon Tetrachloride	8.341	117	127037	22.238	ug/l	100
39) Methylcyclohexane	9.577	83	141080	19.844	ug/l	98
40) Benzene	8.588	78	366941	21.784	ug/l	100

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088105.D
 Acq On : 27 Oct 2025 11:55
 Operator : JC\MD
 Sample : VN1027WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1027WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:22:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M

Quant Title : SW846 8260

QLast Update : Sat Oct 25 00:15:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	83450	22.213	ug/l	98
42) 1,2-Dichloroethane	8.653	62	145750	24.352	ug/l	98
43) Isopropyl Acetate	8.671	43	249652	22.762	ug/l	98
44) Trichloroethene	9.335	130	83048	21.093	ug/l	98
45) 1,2-Dichloropropane	9.606	63	93135	21.901	ug/l	97
46) Dibromomethane	9.688	93	67628	22.297	ug/l	98
47) Bromodichloromethane	9.865	83	138182	22.756	ug/l	98
48) Methyl methacrylate	9.665	41	116857	23.077	ug/l	97
49) 1,4-Dioxane	9.682	88	27524	437.028	ug/l #	87
51) 4-Methyl-2-Pentanone	10.424	43	756352	116.567	ug/l	100
52) Toluene	10.612	92	223155	21.487	ug/l	97
53) t-1,3-Dichloropropene	10.818	75	141361	21.872	ug/l	97
54) cis-1,3-Dichloropropene	10.294	75	152892	22.294	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	87269	22.149	ug/l	98
56) Ethyl methacrylate	10.859	69	134518	21.574	ug/l	97
57) 1,3-Dichloropropane	11.141	76	154575	22.319	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	327194	100.882	ug/l	99
59) 2-Hexanone	11.176	43	492033	114.310	ug/l	99
60) Dibromochloromethane	11.335	129	96318	21.507	ug/l	100
61) 1,2-Dibromoethane	11.447	107	89527	22.078	ug/l	98
64) Tetrachloroethene	11.082	164	69633	20.900	ug/l	89
65) Chlorobenzene	11.871	112	244731	21.338	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	81619	21.722	ug/l	98
67) Ethyl Benzene	11.941	91	421252	20.925	ug/l	99
68) m/p-Xylenes	12.053	106	317335	42.070	ug/l	100
69) o-Xylene	12.376	106	151783	21.227	ug/l	99
70) Styrene	12.394	104	254839	21.855	ug/l	98
71) Bromoform	12.559	173	61158	21.810	ug/l #	99
73) Isopropylbenzene	12.671	105	397427	20.084	ug/l	100
74) N-amyl acetate	12.629	43	128367m	22.852	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	132181	21.456	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	112443m	19.169	ug/l	
77) Bromobenzene	12.959	156	92521	21.683	ug/l	97
78) n-propylbenzene	13.012	91	492713	20.404	ug/l	100
79) 2-Chlorotoluene	13.100	91	294890	21.413	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	333799	20.311	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.718	75	38179	18.156	ug/l	91
82) 4-Chlorotoluene	13.200	91	303454	20.367	ug/l	100
83) tert-Butylbenzene	13.418	119	286500	19.516	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	339120	20.625	ug/l	99
85) sec-Butylbenzene	13.594	105	429310	19.904	ug/l	100
86) p-Isopropyltoluene	13.706	119	354614	20.495	ug/l	98
87) 1,3-Dichlorobenzene	13.712	146	177044	20.784	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	184081	20.120	ug/l	98
89) n-Butylbenzene	14.035	91	344021	20.072	ug/l	99
90) Hexachloroethane	14.312	117	66650	19.892	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	169616	20.657	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	30171	21.041	ug/l	96
93) 1,2,4-Trichlorobenzene	15.370	180	102766	20.665	ug/l	97
94) Hexachlorobutadiene	15.470	225	38748	20.924	ug/l	99
95) Naphthalene	15.617	128	338638	19.878	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	97739	20.498	ug/l	97

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088105.D
Acq On : 27 Oct 2025 11:55
Operator : JC\MD
Sample : VN1027WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:22:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

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

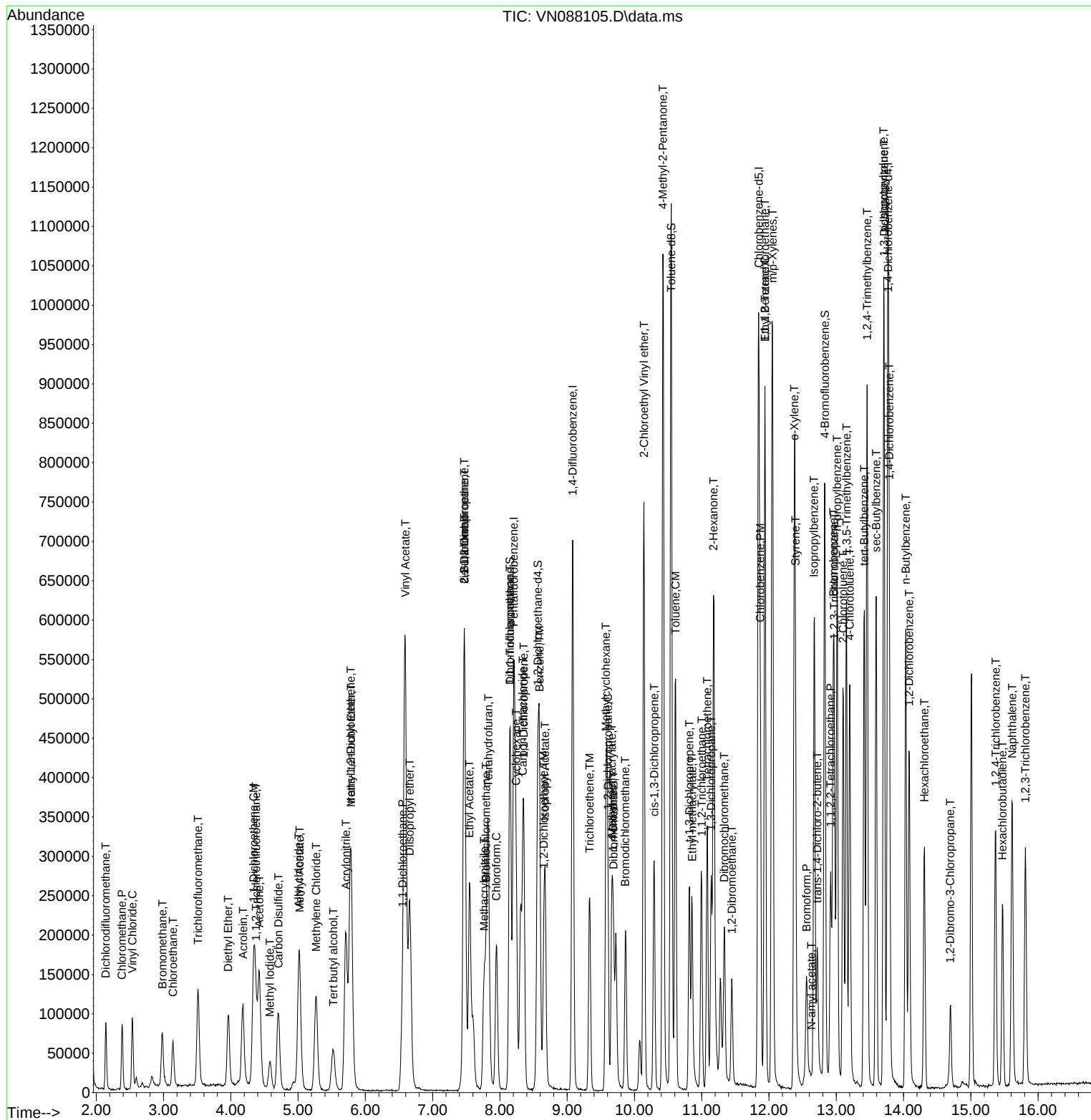
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088105.D
Acq On : 27 Oct 2025 11:55
Operator : JC\MD
Sample : VN1027WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:22:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088106.D
 Acq On : 27 Oct 2025 12:29
 Operator : JC\MD
 Sample : VN1027WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1027WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
 Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:23:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	293635	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	537984	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	482887	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	241641	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	286315	56.388	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.780%			
35) Dibromofluoromethane	8.147	113	191693	53.039	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.080%			
50) Toluene-d8	10.547	98	709565	50.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.900%			
62) 4-Bromofluorobenzene	12.829	95	260025	52.870	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.740%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	71261	21.515	ug/l	100
3) Chloromethane	2.383	50	82410	21.149	ug/l	94
4) Vinyl Chloride	2.536	62	88801	20.915	ug/l	99
5) Bromomethane	2.983	94	51246	20.180	ug/l	97
6) Chloroethane	3.142	64	57847	18.911	ug/l	98
7) Trichlorofluoromethane	3.518	101	132934	19.631	ug/l	99
8) Diethyl Ether	3.959	74	53161	21.123	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	70709	20.235	ug/l	98
10) Methyl Iodide	4.589	142	66091	21.775	ug/l	97
11) Tert butyl alcohol	5.512	59	108104	123.582	ug/l	97
12) 1,1-Dichloroethene	4.336	96	69616	18.863	ug/l	99
13) Acrolein	4.177	56	129096	131.202	ug/l	99
14) Allyl chloride	5.012	41	135399	20.931	ug/l	98
15) Acrylonitrile	5.712	53	274230	115.088	ug/l	97
16) Acetone	4.424	43	266262	104.380	ug/l	98
17) Carbon Disulfide	4.700	76	223663	19.936	ug/l	99
18) Methyl Acetate	5.018	43	120505	23.075	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	295383	21.793	ug/l	98
20) Methylene Chloride	5.265	84	91370	23.430	ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	78762	19.442	ug/l	98
22) Diisopropyl ether	6.659	45	306895	22.558	ug/l	95
23) Vinyl Acetate	6.589	43	1414608	115.435	ug/l	99
24) 1,1-Dichloroethane	6.559	63	166720	22.123	ug/l	98
25) 2-Butanone	7.471	43	378924	112.718	ug/l	98
26) 2,2-Dichloropropane	7.477	77	143368	20.935	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	97110	20.823	ug/l	93
28) Bromochloromethane	7.800	49	89712	25.194	ug/l	100
29) Tetrahydrofuran	7.824	42	246891	112.693	ug/l	97
30) Chloroform	7.947	83	165210	21.944	ug/l	99
31) Cyclohexane	8.241	56	151540	21.321	ug/l	95
32) 1,1,1-Trichloroethane	8.147	97	144935	21.615	ug/l	95
36) 1,1-Dichloropropene	8.353	75	112263	21.273	ug/l	98
37) Ethyl Acetate	7.547	43	154256	22.651	ug/l	98
38) Carbon Tetrachloride	8.347	117	118077	21.664	ug/l	96
39) Methylcyclohexane	9.583	83	138896	20.477	ug/l	96
40) Benzene	8.588	78	350057	21.781	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088106.D
 Acq On : 27 Oct 2025 12:29
 Operator : JC\MD
 Sample : VN1027WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1027WBSD01

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:23:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M

Quant Title : SW846 8260

QLast Update : Sat Oct 25 00:15:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	77520	21.628	ug/l	97
42) 1,2-Dichloroethane	8.653	62	139879	24.496	ug/l	99
43) Isopropyl Acetate	8.671	43	244736	23.387	ug/l	99
44) Trichloroethene	9.335	130	80145	21.335	ug/l	100
45) 1,2-Dichloropropane	9.600	63	92446	22.785	ug/l	97
46) Dibromomethane	9.688	93	69022	23.852	ug/l	98
47) Bromodichloromethane	9.871	83	134451	23.207	ug/l	98
48) Methyl methacrylate	9.665	41	114540	23.708	ug/l	98
49) 1,4-Dioxane	9.677	88	30609	509.401	ug/l #	93
51) 4-Methyl-2-Pentanone	10.424	43	749132	121.010	ug/l	100
52) Toluene	10.612	92	213928	21.590	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	139103	22.559	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	146812	22.437	ug/l	99
55) 1,1,2-Trichloroethane	10.994	97	83503	22.213	ug/l	99
56) Ethyl methacrylate	10.859	69	140931	23.690	ug/l	98
57) 1,3-Dichloropropane	11.141	76	153031	23.160	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	325457	105.175	ug/l	100
59) 2-Hexanone	11.177	43	497859	121.230	ug/l	97
60) Dibromochloromethane	11.341	129	94099	22.023	ug/l	99
61) 1,2-Dibromoethane	11.447	107	87889	22.717	ug/l	100
64) Tetrachloroethene	11.082	164	68115	21.385	ug/l	97
65) Chlorobenzene	11.871	112	232930	21.243	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.941	131	80083	22.293	ug/l	98
67) Ethyl Benzene	11.941	91	410996	21.354	ug/l	100
68) m/p-Xylenes	12.047	106	304906	42.281	ug/l	100
69) o-Xylene	12.376	106	146136	21.377	ug/l	99
70) Styrene	12.388	104	246549	22.117	ug/l	97
71) Bromoform	12.559	173	60938	22.731	ug/l #	96
73) Isopropylbenzene	12.676	105	384577	20.635	ug/l	100
74) N-amyl acetate	12.606	43	118608m	22.419	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	129987	22.402	ug/l	99
76) 1,2,3-Trichloropropane	12.971	75	111389m	20.162	ug/l	
77) Bromobenzene	12.959	156	90382	22.489	ug/l	99
78) n-propylbenzene	13.012	91	477927	21.014	ug/l	100
79) 2-Chlorotoluene	13.106	91	285224	21.990	ug/l	97
80) 1,3,5-Trimethylbenzene	13.153	105	329515	21.289	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	37323	18.845	ug/l	95
82) 4-Chlorotoluene	13.200	91	294217	20.967	ug/l	98
83) tert-Butylbenzene	13.418	119	277442	20.066	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	328873	21.236	ug/l	99
85) sec-Butylbenzene	13.594	105	417041	20.529	ug/l	99
86) p-Isopropyltoluene	13.706	119	341638	20.964	ug/l	98
87) 1,3-Dichlorobenzene	13.712	146	172884	21.549	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	179380	20.817	ug/l	98
89) n-Butylbenzene	14.035	91	337732	20.922	ug/l	99
90) Hexachloroethane	14.306	117	63496	20.120	ug/l	95
91) 1,2-Dichlorobenzene	14.082	146	168164	21.745	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	31995	23.691	ug/l	90
93) 1,2,4-Trichlorobenzene	15.370	180	100963	21.556	ug/l	99
94) Hexachlorobutadiene	15.476	225	38434	22.036	ug/l	98
95) Naphthalene	15.612	128	337829	21.055	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	95974	21.371	ug/l	99

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088106.D
Acq On : 27 Oct 2025 12:29
Operator : JC\MD
Sample : VN1027WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Semsettin Yesilyurt 10/28/2025

Quant Time: Oct 28 01:23:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

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

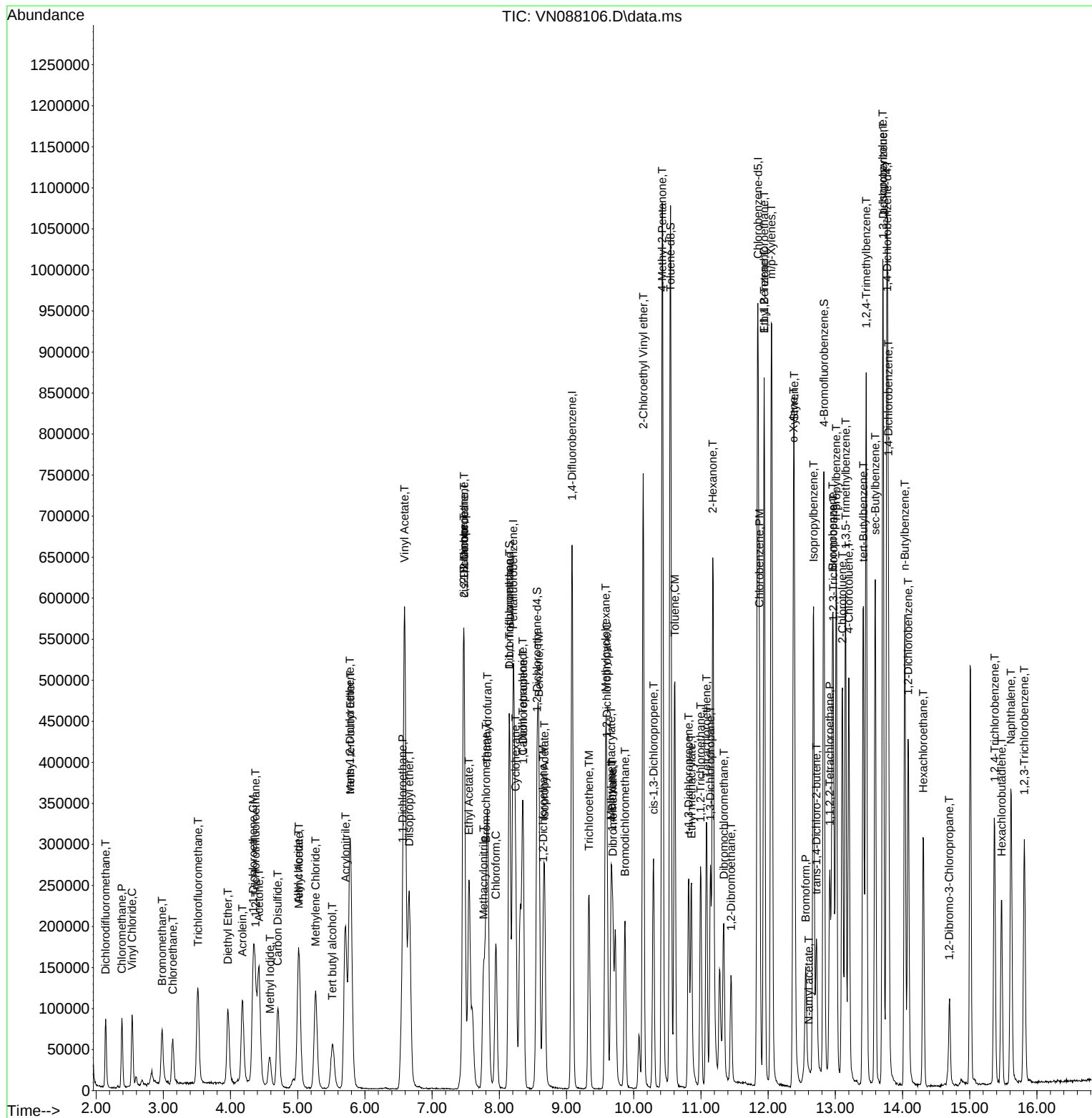
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088106.D
Acq On : 27 Oct 2025 12:29
Operator : JC\MD
Sample : VN1027WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 28 01:23:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1027WBSD01

Manual Integrations

Reviewed By :John Carlone 10/28/2025
Supervised By :Semsettin Yesilyurt 10/28/2025



Manual Integration Report

Sequence:	VN102325	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088078.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	1,4-Dichlorobenzene	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	1,4-Dioxane	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	2-Butanone	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	2-Hexanone	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Allyl chloride	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Ethyl Acetate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Ethyl methacrylate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Methyl methacrylate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	trans-1,2-Dichloroethene	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	N-amyl acetate	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	trans-1,4-Dichloro-2-butene	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN102325	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VN088080.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:24 AM	MMDadoda	10/27/2025 7:55:36 AM	Peak Integrated by Software
VSTDICC020	VN088080.D	N-amyl acetate	JOHN	10/24/2025 8:16:24 AM	MMDadoda	10/27/2025 7:55:36 AM	Peak Integrated by Software
VSTDICCC050	VN088081.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:29 AM	MMDadoda	10/27/2025 7:55:41 AM	Peak Integrated by Software
VSTDICCC050	VN088081.D	N-amyl acetate	JOHN	10/24/2025 8:16:29 AM	MMDadoda	10/27/2025 7:55:41 AM	Peak Integrated by Software
VSTDICC100	VN088082.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:34 AM	MMDadoda	10/27/2025 7:55:57 AM	Peak Integrated by Software
VSTDICC150	VN088083.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:39 AM	MMDadoda	10/27/2025 7:55:46 AM	Peak Integrated by Software
VSTDICV050	VN088085.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:44 AM	MMDadoda	10/27/2025 7:55:49 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN102725	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088102.D	1,2,3-Trichloropropane	JOHN	10/28/2025 7:58:22 AM	sam	10/28/2025 1:18:56 PM	Peak Integrated by Software
VSTDCCC050	VN088102.D	N-amyl acetate	JOHN	10/28/2025 7:58:22 AM	sam	10/28/2025 1:18:56 PM	Peak Integrated by Software
VN1027WBS01	VN088105.D	1,2,3-Trichloropropane	JOHN	10/28/2025 7:58:27 AM	sam	10/28/2025 1:19:00 PM	Peak Integrated by Software
VN1027WBS01	VN088105.D	N-amyl acetate	JOHN	10/28/2025 7:58:27 AM	sam	10/28/2025 1:19:00 PM	Peak Integrated by Software
VN1027WBSD0 1	VN088106.D	1,2,3-Trichloropropane	JOHN	10/28/2025 7:58:31 AM	sam	10/28/2025 1:19:28 PM	Peak Integrated by Software
VN1027WBSD0 1	VN088106.D	N-amyl acetate	JOHN	10/28/2025 7:58:31 AM	sam	10/28/2025 1:19:28 PM	Peak Integrated by Software
VSTDCCC050	VN088125.D	1,2,3-Trichloropropane	JOHN	10/28/2025 7:59:11 AM	sam	10/28/2025 1:19:10 PM	Peak Integrated by Software
VSTDCCC050	VN088125.D	N-amyl acetate	JOHN	10/28/2025 7:59:11 AM	sam	10/28/2025 1:19:10 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102325

Review By	John Carlone	Review On	10/24/2025 8:16:57 AM
Supervise By	Maresh Dadoda	Supervise On	10/27/2025 2:53:14 PM
SubDirectory	VN102325	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135909		
Initial Calibration Stds	VP135921,VP135922,VP135923,VP135924,VP135925,VP135926		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP135927		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088077.D	23 Oct 2025 09:09	JC\MD	Ok
2	VSTDIC001	VN088078.D	23 Oct 2025 09:42	JC\MD	Ok,M
3	VSTDIC005	VN088079.D	23 Oct 2025 10:38	JC\MD	Ok,M
4	VSTDIC020	VN088080.D	23 Oct 2025 10:59	JC\MD	Ok,M
5	VSTDIC050	VN088081.D	23 Oct 2025 11:20	JC\MD	Ok,M
6	VSTDIC100	VN088082.D	23 Oct 2025 11:41	JC\MD	Ok,M
7	VSTDIC150	VN088083.D	23 Oct 2025 12:02	JC\MD	Ok,M
8	IBLK	VN088084.D	23 Oct 2025 12:23	JC\MD	Ok
9	VSTDICV050	VN088085.D	23 Oct 2025 14:54	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102725

Review By	John Carlone	Review On	10/28/2025 8:12:39 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2025 1:20:10 PM
SubDirectory	VN102725	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135937		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135938,VP135939		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088101.D	27 Oct 2025 09:58	JC\MD	Ok
2	VSTDCCC050	VN088102.D	27 Oct 2025 10:40	JC\MD	Ok,M
3	VN1027MBL01	VN088103.D	27 Oct 2025 11:14	JC\MD	Ok
4	VN1027WBL01	VN088104.D	27 Oct 2025 11:34	JC\MD	Ok
5	VN1027WBS01	VN088105.D	27 Oct 2025 11:55	JC\MD	Ok,M
6	VN1027WBSD01	VN088106.D	27 Oct 2025 12:29	JC\MD	Ok,M
7	Q3454-01	VN088107.D	27 Oct 2025 12:50	JC\MD	Ok
8	Q3464-01	VN088108.D	27 Oct 2025 13:10	JC\MD	Ok
9	Q3464-02	VN088109.D	27 Oct 2025 13:31	JC\MD	Ok
10	PB170240TB	VN088110.D	27 Oct 2025 13:52	JC\MD	Ok
11	Q3449-06	VN088111.D	27 Oct 2025 14:13	JC\MD	Ok
12	Q3439-04	VN088112.D	27 Oct 2025 14:34	JC\MD	Ok,M
13	Q3439-08	VN088113.D	27 Oct 2025 14:54	JC\MD	Ok
14	Q3440-04	VN088114.D	27 Oct 2025 15:15	JC\MD	Ok,M
15	Q3451-04	VN088115.D	27 Oct 2025 15:36	JC\MD	Ok
16	Q3451-08	VN088116.D	27 Oct 2025 15:56	JC\MD	Ok
17	Q3452-04	VN088117.D	27 Oct 2025 16:17	JC\MD	Ok
18	Q3426-02	VN088118.D	27 Oct 2025 16:37	JC\MD	Ok
19	Q3426-03	VN088119.D	27 Oct 2025 16:58	JC\MD	Ok,M
20	Q3426-04	VN088120.D	27 Oct 2025 17:19	JC\MD	Ok
21	Q3426-01	VN088121.D	27 Oct 2025 17:39	JC\MD	Dilution

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102725

Review By	John Carlone	Review On	10/28/2025 8:12:39 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2025 1:20:10 PM
SubDirectory	VN102725	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135937		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135938,VP135939		

22	Q3468-01	VN088122.D	27 Oct 2025 18:00	JC\MD	ReRun
23	Q3468-03	VN088123.D	27 Oct 2025 18:21	JC\MD	Not Ok
24	Q3468-04	VN088124.D	27 Oct 2025 18:41	JC\MD	Ok
25	VSTDCCC050	VN088125.D	27 Oct 2025 19:22	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102325

Review By	John Carlone	Review On	10/24/2025 8:16:57 AM
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 2:53:14 PM
SubDirectory	VN102325	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135909		
Initial Calibration Stds	VP135921,VP135922,VP135923,VP135924,VP135925,VP135926		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP135927		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088077.D	23 Oct 2025 09:09		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088078.D	23 Oct 2025 09:42	COM.#74 Peak not detected in 1PPB	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088079.D	23 Oct 2025 10:38		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088080.D	23 Oct 2025 10:59		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088081.D	23 Oct 2025 11:20	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088082.D	23 Oct 2025 11:41		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088083.D	23 Oct 2025 12:02		JC\MD	Ok,M
8	IBLK	IBLK	VN088084.D	23 Oct 2025 12:23		JC\MD	Ok
9	VSTDICV050	ICVVN102325	VN088085.D	23 Oct 2025 14:54		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102725

Review By	John Carlone	Review On	10/28/2025 8:12:39 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2025 1:20:10 PM
SubDirectory	VN102725	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135937		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135938,VP135939		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088101.D	27 Oct 2025 09:58		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088102.D	27 Oct 2025 10:40	pH#Lot#V12668	JC\MD	Ok,M
3	VN1027MBL01	VN1027MBL01	VN088103.D	27 Oct 2025 11:14		JC\MD	Ok
4	VN1027WBL01	VN1027WBL01	VN088104.D	27 Oct 2025 11:34		JC\MD	Ok
5	VN1027WBS01	VN1027WBS01	VN088105.D	27 Oct 2025 11:55	BS Failed High For Com.#30,47	JC\MD	Ok,M
6	VN1027WBSD01	VN1027WBSD01	VN088106.D	27 Oct 2025 12:29	BSD Failed High For Comp.#47	JC\MD	Ok,M
7	Q3454-01	101625	VN088107.D	27 Oct 2025 12:50	vial A pH<2 foamy sample	JC\MD	Ok
8	Q3464-01	MW2	VN088108.D	27 Oct 2025 13:10	vial B pH<2	JC\MD	Ok
9	Q3464-02	MW3	VN088109.D	27 Oct 2025 13:31	vial B pH<2	JC\MD	Ok
10	PB170240TB	PB170240TB	VN088110.D	27 Oct 2025 13:52		JC\MD	Ok
11	Q3449-06	CF-620-COMP-41	VN088111.D	27 Oct 2025 14:13	vial A pH#5.0	JC\MD	Ok
12	Q3439-04	TP-9	VN088112.D	27 Oct 2025 14:34	vial A pH#5.0	JC\MD	Ok,M
13	Q3439-08	TP-10	VN088113.D	27 Oct 2025 14:54	vial A pH#5.0	JC\MD	Ok
14	Q3440-04	JB-2	VN088114.D	27 Oct 2025 15:15	vial A pH#5.0	JC\MD	Ok,M
15	Q3451-04	TP-11	VN088115.D	27 Oct 2025 15:36	vial A pH#5.0	JC\MD	Ok
16	Q3451-08	TP-12	VN088116.D	27 Oct 2025 15:56	vial A pH#5.0	JC\MD	Ok
17	Q3452-04	JB-1	VN088117.D	27 Oct 2025 16:17	vial A pH#5.0	JC\MD	Ok
18	Q3426-02	TWP3	VN088118.D	27 Oct 2025 16:37	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN102725

Review By	John Carlone	Review On	10/28/2025 8:12:39 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2025 1:20:10 PM
SubDirectory	VN102725	HP Acquire Method	HP Processing Method 82N102325W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135937		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135938,VP135939		

19	Q3426-03	TWP5	VN088119.D	27 Oct 2025 16:58	vial A pH<2	JC\MD	Ok,M
20	Q3426-04	MW2	VN088120.D	27 Oct 2025 17:19	vial A pH<2	JC\MD	Ok
21	Q3426-01	TWP2	VN088121.D	27 Oct 2025 17:39	vial A pH<2 Surrogate Fail;Need 5X Dilution	JC\MD	Dilution
22	Q3468-01	MW-06	VN088122.D	27 Oct 2025 18:00	vial A pH<2 E flag of previous sample	JC\MD	ReRun
23	Q3468-03	MW-10	VN088123.D	27 Oct 2025 18:21	vial A pH<2 Confirm Concentration	JC\MD	Not Ok
24	Q3468-04	MW-11	VN088124.D	27 Oct 2025 18:41	vial A pH<2	JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN088125.D	27 Oct 2025 19:22		JC\MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3464	OrderDate:	10/24/2025 2:03:00 PM
Client:	G Environmental	Project:	Buffington
Contact:	Gary Landis	Location:	J51,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3464-01	MW2	Water	VOCMS Group1	8260-Low	10/24/25		10/27/25	10/24/25
Q3464-02	MW3	Water	VOCMS Group1	8260-Low	10/24/25		10/27/25	10/24/25

Hit Summary Sheet
SW-846

SDG No.: Q3464
Client: G Environmental

Order ID: Q3464
Project ID: Buffington

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW2								
Q3464-01	MW2	Water	Iron	3440		11.7	50.0	ug/L
Q3464-01	MW2	Water	Manganese	1090		2.97	10.0	ug/L
Q3464-01	MW2	Water	Sodium	318000		434	1000	ug/L
Client ID : MW3								
Q3464-02	MW3	Water	Iron	11500		11.7	50.0	ug/L
Q3464-02	MW3	Water	Manganese	608		2.97	10.0	ug/L
Q3464-02	MW3	Water	Sodium	228000		434	1000	ug/L



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	10/24/25
Project:	Buffington	Date Received:	10/24/25
Client Sample ID:	MW2	SDG No.:	Q3464
Lab Sample ID:	Q3464-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	3440	1	11.7		50.0	ug/L	10/27/25 10:45	10/29/25 16:45	6010D	SW3010
7439-96-5	Manganese	1090	1	2.97		10.0	ug/L	10/27/25 10:45	10/29/25 16:45	6010D	SW3010
7440-23-5	Sodium	318000	1	434		1000	ug/L	10/27/25 10:45	10/29/25 16:45	6010D	SW3010

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	G Environmental	Date Collected:	10/24/25
Project:	Buffington	Date Received:	10/24/25
Client Sample ID:	MW3	SDG No.:	Q3464
Lab Sample ID:	Q3464-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	11500	1	11.7		50.0	ug/L	10/27/25 10:45	10/29/25 16:33	6010D	SW3010
7439-96-5	Manganese	608	1	2.97		10.0	ug/L	10/27/25 10:45	10/29/25 16:33	6010D	SW3010
7440-23-5	Sodium	228000	1	434		1000	ug/L	10/27/25 10:45	10/29/25 16:33	6010D	SW3010

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental **SDG No.:** Q3464
Contract: GENV01 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	100	P	10/29/2025	14:12	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:12	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:12	LB137697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	100	P	10/29/2025	14:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	14:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	14:41	LB137697
CCB02	Iron	23.4	+/-50	U	100	P	10/29/2025	15:48	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	15:48	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	15:48	LB137697
CCB03	Iron	29.0	+/-50	J	100	P	10/29/2025	16:41	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	16:41	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	16:41	LB137697
CCB04	Iron	23.4	+/-50	U	100	P	10/29/2025	17:31	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	17:31	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	17:31	LB137697
CCB05	Iron	23.4	+/-50	U	100	P	10/29/2025	18:07	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	18:07	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	18:07	LB137697
CCB06	Iron	23.4	+/-50	U	100	P	10/29/2025	19:04	LB137697
	Manganese	5.94	+/-10	U	20.0	P	10/29/2025	19:04	LB137697
	Sodium	868	+/-1000	U	2000	P	10/29/2025	19:04	LB137697

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: G Environmental

SDG No.: Q3464

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170264BL		WATER		Batch Number:	PB170264		Prep Date:	10/27/2025	
	Iron	11.7	<25	U	50.0	P	10/29/2025	16:16	LB137697
	Manganese	2.97	<5	U	10.0	P	10/29/2025	16:16	LB137697
	Sodium	434	<500	U	1000	P	10/29/2025	16:16	LB137697



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	3790	4000	95	90 - 110	P	10/29/2025	14:01	LB137697
	Manganese	1870	2000	93	90 - 110	P	10/29/2025	14:01	LB137697
	Sodium	18800	20000	94	90 - 110	P	10/29/2025	14:01	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Iron	107	100	107	80 - 120	P	10/29/2025	14:07	LB137697
	Manganese	21.1	20.0	105	80 - 120	P	10/29/2025	14:07	LB137697
	Sodium	2010	2000	100	80 - 120	P	10/29/2025	14:07	LB137697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: G Environmental

Contract: GENV01

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3464

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	4870	5000	97	90 - 110	P	10/29/2025	14:37	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	14:37	LB137697
	Sodium	24400	25000	98	90 - 110	P	10/29/2025	14:37	LB137697
CCV02	Iron	4870	5000	98	90 - 110	P	10/29/2025	15:43	LB137697
	Manganese	2390	2500	96	90 - 110	P	10/29/2025	15:43	LB137697
	Sodium	23900	25000	96	90 - 110	P	10/29/2025	15:43	LB137697
CCV03	Iron	5080	5000	102	90 - 110	P	10/29/2025	16:37	LB137697
	Manganese	2470	2500	99	90 - 110	P	10/29/2025	16:37	LB137697
	Sodium	25300	25000	101	90 - 110	P	10/29/2025	16:37	LB137697
CCV04	Iron	4700	5000	94	90 - 110	P	10/29/2025	17:27	LB137697
	Manganese	2460	2500	99	90 - 110	P	10/29/2025	17:27	LB137697
	Sodium	23700	25000	95	90 - 110	P	10/29/2025	17:27	LB137697
CCV05	Iron	4780	5000	96	90 - 110	P	10/29/2025	18:03	LB137697
	Manganese	2440	2500	98	90 - 110	P	10/29/2025	18:03	LB137697
	Sodium	23200	25000	93	90 - 110	P	10/29/2025	18:03	LB137697
CCV06	Iron	4860	5000	97	90 - 110	P	10/29/2025	18:55	LB137697
	Manganese	2460	2500	98	90 - 110	P	10/29/2025	18:55	LB137697
	Sodium	26300	25000	105	90 - 110	P	10/29/2025	18:55	LB137697



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	98.0	100	98	65 - 135	P	10/29/2025	14:16	LB137697
	Manganese	22.0	20.0	110	65 - 135	P	10/29/2025	14:16	LB137697
	Sodium	1940	2000	97	65 - 135	P	10/29/2025	14:16	LB137697

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>G Environmental</u>	SDG No.: <u>Q3464</u>
Contract: <u>GENV01</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Iron	95000	101000	94	85600	116500	10/29/2025	14:21	LB137697
	Manganese	7.78	7.0	111	-13	27	10/29/2025	14:21	LB137697
	Sodium	125			0	0	10/29/2025	14:21	LB137697
ICSAB01	Iron	94700	99300	95	84400	114500	10/29/2025	14:25	LB137697
	Manganese	479	507	94	430	584	10/29/2025	14:25	LB137697
	Sodium	95.8			0	0	10/29/2025	14:25	LB137697



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>G Environmental</u>	level: <u>low</u>	sdg no.: <u>Q3464</u>
contract: <u>GENV01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3464-01</u>	client id: <u>MW2MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3464-01MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	4720		3440		1500	85		P
Manganese	ug/L	75 - 125	1170		1090		100	84		P
Sodium	ug/L	75 - 125	306000		318000		1500	-806		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>G Environmental</u>	level: <u>low</u>	sdg no.: <u>Q3464</u>
contract: <u>GENV01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3464-01</u>	client id: <u>MW2MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3464-01MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	4940		3440		1500	100		P
Manganese	ug/L	75 - 125	1240		1090		100	153		P
Sodium	ug/L	75 - 125	315000		318000		1500	-225		P

Metals
- 5b -

Client: G Environmental

Contract: GENV01

Matrix:

Sample ID:

SDG No.: Q3464

Lab Code: ACE

Client ID:

Level: LOW

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3464</u>
Contract:	<u>GENV01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3464-01</u>	Client ID:	<u>MW2DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3464-01DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	3440		3400		1		P
Manganese	ug/L	20	1090		1080		1		P
Sodium	ug/L	20	318000		315000		1		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>G Environmental</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3464</u>
Contract:	<u>GENV01</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3464-01MS</u>	Client ID:	<u>MW2MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3464-01MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	4720		4940		5		P
Manganese	ug/L	20	1170		1240		6		P
Sodium	ug/L	20	306000		315000		3		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>G Environmental</u>	SDG No.:	<u>Q3464</u>
Contract:	<u>GENV01</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170264BS							
Iron	ug/L	1500	1450		97	80 - 120	P
Manganese	ug/L	100	97.0		97	80 - 120	P
Sodium	ug/L	1500	1390		93	80 - 120	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW2L

Lab Name: Alliance **Contract:** GENV01
Lab Code: ACE **Lb No.:** lb137697 **Lab Sample ID :** Q3464-01L **SDG No.:** Q3464
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Iron	3440	3320	4		P
Manganese	1090	1120	3		P
Sodium	318000	304000	5		P

metals
- 14 -
ANALYSIS RUN LOG

Client: G Environmental

Contract: GENV01

Lab code: ACE

Sdg no.: Q3464

Instrument id number: _____

Method: _____

Run number: LB137697

Start date: 10/29/2025

End date: 10/29/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	Fe,Mn,Na
S1	S1	1	1340	Fe,Mn,Na
S2	S2	1	1344	Fe,Mn,Na
S3	S3	1	1349	Fe,Mn,Na
S4	S4	1	1353	Fe,Mn,Na
S5	S5	1	1357	Fe,Mn,Na
ICV01	ICV01	1	1401	Fe,Mn,Na
LLICV01	LLICV01	1	1407	Fe,Mn,Na
ICB01	ICB01	1	1412	Fe,Mn,Na
CRI01	CRI01	1	1416	Fe,Mn,Na
ICSA01	ICSA01	1	1421	Fe,Mn,Na
ICSAB01	ICSAB01	1	1425	Fe,Mn,Na
CCV01	CCV01	1	1437	Fe,Mn,Na
CCB01	CCB01	1	1441	Fe,Mn,Na
CCV02	CCV02	1	1543	Fe,Mn,Na
CCB02	CCB02	1	1548	Fe,Mn,Na
PB170264BL	PB170264BL	1	1616	Fe,Mn,Na
PB170264BS	PB170264BS	1	1624	Fe,Mn,Na
Q3464-02	MW3	1	1633	Fe,Mn,Na
CCV03	CCV03	1	1637	Fe,Mn,Na
CCB03	CCB03	1	1641	Fe,Mn,Na
Q3464-01	MW2	1	1645	Fe,Mn,Na
Q3464-01DUP	MW2DUP	1	1650	Fe,Mn,Na
Q3464-01L	MW2L	5	1654	Fe,Mn,Na
Q3464-01MS	MW2MS	1	1658	Fe,Mn,Na
Q3464-01MSD	MW2MSD	1	1702	Fe,Mn,Na
CCV04	CCV04	1	1727	Fe,Mn,Na
CCB04	CCB04	1	1731	Fe,Mn,Na
CCV05	CCV05	1	1803	Fe,Mn,Na
CCB05	CCB05	1	1807	Fe,Mn,Na
CCV06	CCV06	1	1855	Fe,Mn,Na
CCB06	CCB06	1	1904	Fe,Mn,Na



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: G Environmental

SDG No.: Q3464

Contract: GENV01

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q3464	OrderDate:	10/24/2025 2:03:00 PM
Client:	G Environmental	Project:	Buffington
Contact:	Gary Landis	Location:	J51,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3464-01	MW2	Water	Metals Group4	6010D	10/24/25	10/27/25	10/29/25	10/24/25
Q3464-02	MW3	Water	Metals Group4	6010D	10/24/25	10/27/25	10/29/25	10/24/25



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: G Environmental
Contract: GENV01

SDG No.: Q3464
Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170264							
PB170264BL	PB170264BL	MB	WATER	10/27/2025	50.0	25.0	
PB170264BS	PB170264BS	LCS	WATER	10/27/2025	50.0	25.0	
Q3464-01	MW2	SAM	WATER	10/27/2025	50.0	25.0	
Q3464-01DUP	MW2DUP	DUP	WATER	10/27/2025	50.0	25.0	
Q3464-01MS	MW2MS	MS	WATER	10/27/2025	50.0	25.0	
Q3464-01MSD	MW2MSD	MSD	WATER	10/27/2025	50.0	25.0	
Q3464-02	MW3	SAM	WATER	10/27/2025	50.0	25.0	

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	Jaswal	Supervise On	11/03/2025 11:11:21 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/29/25 13:36		Jaswal	OK
2	S1	S1	CAL2	10/29/25 13:40		Jaswal	OK
3	S2	S2	CAL3	10/29/25 13:44		Jaswal	OK
4	S3	S3	CAL4	10/29/25 13:49		Jaswal	OK
5	S4	S4	CAL5	10/29/25 13:53		Jaswal	OK
6	S5	S5	CAL6	10/29/25 13:57		Jaswal	OK
7	ICV01	ICV01	ICV	10/29/25 14:01		Jaswal	OK
8	LLICV01	LLICV01	LLICV	10/29/25 14:07		Jaswal	OK
9	ICB01	ICB01	ICB	10/29/25 14:12		Jaswal	OK
10	CRI01	CRI01	CRDL	10/29/25 14:16		Jaswal	OK
11	ICSA01	ICSA01	ICSA	10/29/25 14:21		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	10/29/25 14:25		Jaswal	OK
13	ICSADL	ICSADL	ICSA	10/29/25 14:29		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	10/29/25 14:33		Jaswal	OK
15	CCV01	CCV01	CCV	10/29/25 14:37		Jaswal	OK
16	CCB01	CCB01	CCB	10/29/25 14:41		Jaswal	OK
17	LR-1	LR-1	HIGH STD	10/29/25 14:46		Jaswal	OK
18	LR-2	LR-2	HIGH STD	10/29/25 14:50		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	Jaswal	Supervise On	11/03/2025 11:11:21 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

19	LR-3	LR-3	HIGH STD	10/29/25 14:55		Jaswal	OK
20	Q3465-01	SU-03-10242025	SAM	10/29/25 15:00		Jaswal	OK
21	PB170288BL	PB170288BL	MB	10/29/25 15:04		Jaswal	OK
22	PB170288BS	PB170288BS	LCS	10/29/25 15:08		Jaswal	OK
23	Q3447-05DL2	P001-TW3-251023-01	SAM	10/29/25 15:12	10X for Cu,Pb	Jaswal	Confirms
24	Q3466-02	B8-0.0-1.0-20251023	SAM	10/29/25 15:16		Jaswal	OK
25	Q3466-05	B9-0.0-1.0-20251023	SAM	10/29/25 15:20		Jaswal	OK
26	Q3466-07	B7-1.0-2.0-20251023	SAM	10/29/25 15:24		Jaswal	OK
27	CCV02	CCV02	CCV	10/29/25 15:43		Jaswal	OK
28	CCB02	CCB02	CCB	10/29/25 15:48		Jaswal	OK
29	Q3469-01	TP-13	SAM	10/29/25 15:52		Jaswal	OK
30	Q3469-01DUP	TP-13DUP	DUP	10/29/25 15:56		Jaswal	OK
31	Q3469-01L	TP-13L	SD	10/29/25 16:00		Jaswal	OK
32	Q3469-01MS	TP-13MS	MS	10/29/25 16:04		Jaswal	OK
33	Q3469-01MSD	TP-13MSD	MSD	10/29/25 16:08		Jaswal	OK
34	Q3469-01A	TP-13A	PS	10/29/25 16:12	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
35	PB170264BL	PB170264BL	MB	10/29/25 16:16		Jaswal	OK
36	PB170264BS	PB170264BS	LCS	10/29/25 16:24		Jaswal	OK
37	Q3442-01	SW-1	SAM	10/29/25 16:29		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	Jaswal	Supervise On	11/03/2025 11:11:21 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

38	Q3464-02	MW3	SAM	10/29/25 16:33		Jaswal	OK
39	CCV03	CCV03	CCV	10/29/25 16:37		Jaswal	OK
40	CCB03	CCB03	CCB	10/29/25 16:41		Jaswal	OK
41	Q3464-01	MW2	SAM	10/29/25 16:45		Jaswal	OK
42	Q3464-01DUP	MW2DUP	DUP	10/29/25 16:50		Jaswal	OK
43	Q3464-01L	MW2L	SD	10/29/25 16:54		Jaswal	OK
44	Q3464-01MS	MW2MS	MS	10/29/25 16:58		Jaswal	OK
45	Q3464-01MSD	MW2MSD	MSD	10/29/25 17:02		Jaswal	OK
46	Q3464-01A	MW2A	PS	10/29/25 17:06	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
47	Q3476-01	NB-07-102825	SAM	10/29/25 17:19		Jaswal	OK
48	Q3477-01	SOUTH-MAHWAH-SO	SAM	10/29/25 17:23		Jaswal	OK
49	CCV04	CCV04	CCV	10/29/25 17:27		Jaswal	OK
50	CCB04	CCB04	CCB	10/29/25 17:31		Jaswal	OK
51	Q3480-01	RT3449	SAM	10/29/25 17:35	Ag is oversaturated, Need dilution	Jaswal	Dilution
52	Q3481-01	OR-02-102825	SAM	10/29/25 17:39		Jaswal	OK
53	Q3481-01DUP	OR-02-102825DUP	DUP	10/29/25 17:43		Jaswal	OK
54	Q3481-01L	OR-02-102825L	SD	10/29/25 17:48		Jaswal	OK
55	Q3481-01MS	OR-02-102825MS	MS	10/29/25 17:52		Jaswal	OK
56	Q3481-01MSD	OR-02-102825MSD	MSD	10/29/25 17:56		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB137697

Review By	Janvi	Review On	10/31/2025 10:49:23 AM
Supervise By	Jaswal	Supervise On	11/03/2025 11:11:21 AM
STD. NAME	STD REF.#		
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638		
ICV Standard	MP87644,MP87643		
CCV Standard	MP87647		
ICSA Standard	MP87645,MP87646		
CRI Standard	MP87643		
LCS Standard			
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650		

57	Q3481-01A	OR-02-102825A	PS	10/29/25 17:59	0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	OK
58	CCV05	CCV05	CCV	10/29/25 18:03		Jaswal	OK
59	CCB05	CCB05	CCB	10/29/25 18:07		Jaswal	OK
60	Q3420-05	COMPOSITE	SAM	10/29/25 18:12	Na oversaturated	Jaswal	Dilution
61	Q3420-05DUP	COMPOSITEDUP	DUP	10/29/25 18:16	Na High	Jaswal	Dilution
62	Q3420-05L	COMPOSITEL	SD	10/29/25 18:20		Jaswal	OK
63	Q3420-05MS	COMPOSITEMS	MS	10/29/25 18:25	Na High	Jaswal	Dilution
64	Q3420-05MSD	COMPOSITEMSD	MSD	10/29/25 18:29	Na High	Jaswal	Dilution
65	Q3420-05A	COMPOSITEA	PS	10/29/25 18:33	Na High, 0.1ml of each m6008 and m6017 in 10ml sample.	Jaswal	Dilution
66	CCV06	CCV06	CCV	10/29/25 18:55		Jaswal	OK
67	CCB06	CCB06	CCB	10/29/25 19:04		Jaswal	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 10/27/2025 Time : 10:45 Temp : 96 °C

End Digest Date: 10/27/2025 Time : 13:50 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: *SPS*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6209
LFS-2	0.25	M6201
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP87148
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/27/25 14:30	<i>SPS met dir</i>	<i>SA (Metals Lab)</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB170264BL	PBW264	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	27
PB170264BS	LCS264	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	28
Q3442-01	SW-1	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	29
Q3464-01	MW2	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	30
Q3464-01MS	MW2MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	32
Q3464-01MSD	MW2MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6209,M6201	33
Q3464-01DUP	MW2DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	31
Q3464-02	MW3	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	34

A
B
C
D
E
F
G
H
I
J



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	10/24/25 09:35
Project:	Buffington	Date Received:	10/24/25
Client Sample ID:	MW2	SDG No.:	Q3464
Lab Sample ID:	Q3464-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	136		1	1.00	2.00	mg/L		11/04/25 08:41	SM 2320 B-21
Sulfate	1080	OR	1	0.46	3.00	mg/L		10/27/25 13:04	300.0
COD	25.9		1	1.50	10.0	mg/L		10/30/25 13:52	SM 5220 D-11

Comments: The alkalinity to pH 4.29=136 mg CaCO₃/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	G Environmental	Date Collected:	10/24/25 09:35
Project:	Buffington	Date Received:	10/24/25
Client Sample ID:	MW2DL	SDG No.:	Q3464
Lab Sample ID:	Q3464-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	764	D	50	23.0	150	mg/L		10/27/25 14:30	300.0

Comments: _____

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client: G Environmental
Project: Buffington
Client Sample ID: MW3
Lab Sample ID: Q3464-02

Date Collected: 10/24/25 09:55
Date Received: 10/24/25
SDG No.: Q3464
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	258		1	1.00	2.00	mg/L		11/04/25 08:50	SM 2320 B-21
Sulfate	373	OR	1	0.46	3.00	mg/L		10/27/25 14:09	300.0
COD	37.0		1	1.50	10.0	mg/L		10/30/25 13:54	SM 5220 D-11

Comments: The alkalinity to pH 4.27=258 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	G Environmental	Date Collected:	10/24/25 09:55
Project:	Buffington	Date Received:	10/24/25
Client Sample ID:	MW3DL	SDG No.:	Q3464
Lab Sample ID:	Q3464-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	291	D	20	9.20	60.0	mg/L		10/27/25 14:52	300.0

Comments: _____

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: G Environmental

SDG No.: Q3464

Project: Buffington

RunNo.: LB137654

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.8	10	98	90-110	10/09/2025
Chloride	mg/L	2.9	3	97	90-110	10/09/2025
Fluoride	mg/L	2	2	100	90-110	10/09/2025
Nitrite	mg/L	2.9	3	97	90-110	10/09/2025
Nitrate	mg/L	2.4	2.5	96	90-110	10/09/2025
Sulfate	mg/L	14.7	15	98	90-110	10/09/2025
Orthophosphate as P	mg/L	5	5	100	90-110	10/09/2025
Sample ID: CCV1						
Bromide	mg/L	10.3	10	103	90-110	10/27/2025
Chloride	mg/L	3.1	3	103	90-110	10/27/2025
Fluoride	mg/L	2	2	100	90-110	10/27/2025
Nitrite	mg/L	3.1	3	103	90-110	10/27/2025
Nitrate	mg/L	2.6	2.5	104	90-110	10/27/2025
Sulfate	mg/L	15.2	15	101	90-110	10/27/2025
Orthophosphate as P	mg/L	4.7	5	94	90-110	10/27/2025
Sample ID: CCV2						
Bromide	mg/L	10.3	10	103	90-110	10/27/2025
Chloride	mg/L	3.1	3	103	90-110	10/27/2025
Fluoride	mg/L	2	2	100	90-110	10/27/2025
Nitrite	mg/L	3.1	3	103	90-110	10/27/2025
Nitrate	mg/L	2.6	2.5	104	90-110	10/27/2025
Sulfate	mg/L	15.2	15	101	90-110	10/27/2025
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/27/2025

Initial and Continuing Calibration Verification

Client: G Environmental

SDG No.: Q3464

Project: Buffington

RunNo.: LB137720

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	50.173	50	100	95-105	09/08/2025
Sample ID: CCV1 COD	mg/L	49.161	50	98	95-105	10/30/2025
Sample ID: CCV2 COD	mg/L	48.150	50	96	95-105	10/30/2025

A

B

C

D

E

Initial and Continuing Calibration Blank Summary

Client: G Environmental

SDG No.: Q3464

Project: Buffington

RunNo.: LB137654

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	10/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	10/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	10/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	10/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	10/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	10/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	10/09/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	10/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	10/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	10/27/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	10/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	10/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	10/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	10/27/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	10/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	10/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	10/27/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	10/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	10/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	10/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	10/27/2025

Initial and Continuing Calibration Blank Summary

Client: G Environmental	SDG No.: Q3464
Project: Buffington	RunNo.: LB137720

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	09/08/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	10/30/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	10/30/2025

Preparation Blank Summary

Client: G Environmental

SDG No.: Q3464

Project: Buffington

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137654BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	10/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	10/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	10/27/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	10/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	10/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	10/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	10/27/2025
Sample ID: LB137720BL							
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	10/30/2025
Sample ID: LB137753BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	11/04/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q3464
Project:	Buffington	Sample ID:	Q3464-01
Client ID:	MW2MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	73.4		25.9		50.0	1	95		10/30/2025
Bromide	mg/L	80-120	10.1		0.37	U	10	1	101		10/27/2025
Chloride	mg/L	80-120	12.6	OR	9.90	OR	3	1	90		10/27/2025
Fluoride	mg/L	80-120	2.30		0.28	J	2	1	101		10/27/2025
Nitrite	mg/L	80-120	3.10		0.23	J	3	1	96		10/27/2025
Nitrate	mg/L	80-120	6.90	OR	4.60		2.5	1	92		10/27/2025
Sulfate	mg/L	80-120	1050	OR	1080	OR	15	1	-200	*	10/27/2025
Orthophosphate as P	mg/L	80-120	5.30		0.34	U	5	1	106		10/27/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q3464
Project:	Buffington	Sample ID:	Q3464-01
Client ID:	MW2MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	75.5		25.9		50.0	1	99		10/30/2025
Bromide	mg/L	80-120	9.70		0.37	U	10	1	97		10/27/2025
Chloride	mg/L	80-120	12.5	OR	9.90	OR	3	1	87		10/27/2025
Fluoride	mg/L	80-120	2.20		0.28	J	2	1	96		10/27/2025
Nitrite	mg/L	80-120	3.00		0.23	J	3	1	92		10/27/2025
Nitrate	mg/L	80-120	6.80	OR	4.60		2.5	1	88		10/27/2025
Sulfate	mg/L	80-120	1050	OR	1080	OR	15	1	-200	*	10/27/2025
Orthophosphate as P	mg/L	80-120	4.90		0.34	U	5	1	98		10/27/2025

Duplicate Sample Summary

Client:	G Environmental	SDG No.:	Q3464
Project:	Buffington	Sample ID:	Q3464-01
Client ID:	MW2DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
COD	mg/L	+/-20	25.9		24.9		1	3.94		10/30/2025
Alkalinity	mg/L	+/-20	136		136		1	0		11/04/2025

Duplicate Sample Summary

Client: G Environmental Project: Buffington Client ID: MW2MSD	SDG No.: Q3464 Sample ID: Q3464-01 Percent Solids for Spike Sample: 0
--	--

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Sulfate	mg/L	+/-20	1050	OR	1050	OR	1	0		10/27/2025
Chloride	mg/L	+/-20	12.6	OR	12.5	OR	1	1		10/27/2025
Nitrate	mg/L	+/-20	6.90	OR	6.80	OR	1	1		10/27/2025
Nitrite	mg/L	+/-20	3.10		3.00		1	3		10/27/2025
Bromide	mg/L	+/-20	10.1		9.70		1	4		10/27/2025
Fluoride	mg/L	+/-20	2.30		2.20		1	4		10/27/2025
Orthophosphate as P	mg/L	+/-20	5.30		4.90		1	8		10/27/2025
COD	mg/L	+/-20	73.4		75.5		1	2.82		10/30/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q3464

Project: Buffington

Run No.: LB137654

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137654BSW							
Bromide	mg/L	10	10.3		103	1	90-110	10/27/2025
Chloride	mg/L	3	3.10		103	1	90-110	10/27/2025
Fluoride	mg/L	2	2.00		100	1	90-110	10/27/2025
Nitrite	mg/L	3	3.10		103	1	90-110	10/27/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	10/27/2025
Sulfate	mg/L	15	15.5		103	1	90-110	10/27/2025
Orthophosphate as P	mg/L	5	5.00		100	1	90-110	10/27/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q3464

Project: Buffington

Run No.: LB137720

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137720BS							
COD	mg/L	50	51.2		102	1	90-110	10/30/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q3464

Project: Buffington

Run No.: LB137753

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137753BSW							
Alkalinity	mg/L	50	57.3		115	1	80-120	11/04/2025

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137654

Review By	rubina	Review On	10/30/2025 9:13:04 AM
Supervise By	Iwona	Supervise On	10/30/2025 10:03:16 AM
SubDirectory	LB137654	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115135,WP115136,WP115137,WP115138,WP115139,WP115140,WP115141		
ICV Standard	WP115142		
CCV Standard	WP115346		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115347		
Chk Standard	WP115144,WP115345		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	10/09/25 10:46	All standards, samples, and	RM/IZ	OK
2	STD2	STD2	CAL2	10/09/25 11:08	QC are filtered through	RM/IZ	OK
3	STD3	STD3	CAL3	10/09/25 11:29	0.45um, filter lot W3160	RM/IZ	OK
4	STD4	STD4	CAL4	10/09/25 11:51		RM/IZ	OK
5	STD5	STD5	CAL5	10/09/25 12:12		RM/IZ	OK
6	STD6	STD6	CAL6	10/09/25 12:34		RM/IZ	OK
7	STD7	STD7	CAL7	10/09/25 12:55		RM/IZ	OK
8	ICV1	ICV1	ICV	10/09/25 13:16		RM/IZ	OK
9	ICB1	ICB1	ICB	10/09/25 13:38		RM/IZ	OK
10	CCV1	CCV1	CCV	10/27/25 11:38		RM/IZ	OK
11	CCB1	CCB1	CCB	10/27/25 12:00		RM/IZ	OK
12	LB137654BLW	LB137654BLW	MB	10/27/25 12:21		RM/IZ	OK
13	LB137654BSW	LB137654BSW	LCS	10/27/25 12:43		RM/IZ	OK
14	Q3464-01	MW2	SAM	10/27/25 13:04	SO4 is high , need dilution	RM/IZ	Dilution
15	Q3464-01MS	MW2MS	MS	10/27/25 13:26	9.5ml of sample, 0.5mL W3096	RM/IZ	OK
16	Q3464-01MSD	MW2MSD	MSD	10/27/25 13:47	9.5ml of sample, 0.5mL W3096	RM/IZ	OK
17	Q3464-02	MW3	SAM	10/27/25 14:09	SO4 is high , need dilution	RM/IZ	Dilution
18	Q3464-01DL	MW2DL	SAM	10/27/25 14:30	50X For SO4	RM/IZ	Confirms

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB137654

Review By	rubina	Review On	10/30/2025 9:13:04 AM
Supervise By	Iwona	Supervise On	10/30/2025 10:03:16 AM
SubDirectory	LB137654	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP115135,WP115136,WP115137,WP115138,WP115139,WP115140,WP115141		
ICV Standard	WP115142		
CCV Standard	WP115346		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115347		
Chk Standard	WP115144,WP115345		

19	Q3464-02DL	MW3DL	SAM	10/27/25 14:52	20X For SO2	RM/IZ	Confirms
20	CCV2	CCV2	CCV	10/27/25 15:13		RM/IZ	OK
21	CCB2	CCB2	CCB	10/27/25 15:35		RM/IZ	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB137720

Review By	Iwona	Review On	10/30/2025 2:26:38 PM
Supervise By	jignesh	Supervise On	10/30/2025 3:34:51 PM
SubDirectory	LB137720	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115326,WP115327,WP1		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/08/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	09/08/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	09/08/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	09/08/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	09/08/25 13:32		Iwona	OK
6	CAL6	CAL6	CAL	09/08/25 13:32		Iwona	OK
7	ICV	ICV	ICV	09/08/25 13:33		Iwona	OK
8	ICB	ICB	ICB	09/08/25 13:33		Iwona	OK
9	CCV1	CCV1	CCV	10/30/25 13:50		Iwona	OK
10	CCB1	CCB1	CCB	10/30/25 13:50		Iwona	OK
11	RL Check	RL Check	RL	10/30/25 13:51		Iwona	OK
12	LB137720BL	LB137720BL	MB	10/30/25 13:51		Iwona	OK
13	LB137720BS	LB137720BS	LCS	10/30/25 13:52		Iwona	OK
14	Q3464-01	MW2	SAM	10/30/25 13:52		Iwona	OK
15	Q3464-01DUP	MW2DUP	DUP	10/30/25 13:53		Iwona	OK
16	Q3464-01MS	MW2MS	MS	10/30/25 13:53		Iwona	OK
17	Q3464-01MSD	MW2MSD	MSD	10/30/25 13:54		Iwona	OK
18	Q3464-02	MW3	SAM	10/30/25 13:54		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB137720

Review By	Iwona	Review On	10/30/2025 2:26:38 PM
Supervise By	jignesh	Supervise On	10/30/2025 3:34:51 PM
SubDirectory	LB137720	Test	COD
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP114659,WP114658,WP114656,WP114655,WP114654,WP114661,WP114657,W3230,WP115326,WP115327,WP1		

19	Q3477-03	SOUTH-MAHWAH-W	SAM	10/30/25 13:55		Iwona	OK
20	CCV2	CCV2	CCV	10/30/25 13:55		Iwona	OK
21	CCB2	CCB2	CCB	10/30/25 13:56		Iwona	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB137753

Review By	rubina	Review On	11/5/2025 10:42:04 AM
Supervise By	Iwona	Supervise On	11/5/2025 12:21:21 PM
SubDirectory	LB137753	Test	Alkalinity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP115422		
Chk Standard	W3217,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137753BLW	LB137753BLW	MB	11/04/25 08:30	pH=3.57	Eman	OK
2	LB137753BSW	LB137753BSW	LCS	11/04/25 08:35	pH=4.38	Eman	OK
3	Q3464-01	MW2	SAM	11/04/25 08:41	pH=4.29	Eman	OK
4	Q3464-01DUP	MW2DUP	DUP	11/04/25 08:46	pH=4.32	Eman	OK
5	Q3464-02	MW3	SAM	11/04/25 08:50	pH=4.27	Eman	OK

LAB CHRONICLE

OrderID:	Q3464	OrderDate:	10/24/2025 2:03:00 PM
Client:	G Environmental	Project:	Buffington
Contact:	Gary Landis	Location:	J51,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3464-01	MW2	WATER			10/24/25 09:35			10/24/25
			Alkalinity	SM2320 B			11/04/25 08:41	
			Anions Group1	300.0			10/27/25 13:04	
			COD	SM5220 D			10/30/25 13:52	
Q3464-01DL	MW2DL	WATER			10/24/25 09:35			10/24/25
			Anions Group1	300.0			10/27/25 14:30	
Q3464-02	MW3	WATER			10/24/25 09:55			10/24/25
			Alkalinity	SM2320 B			11/04/25 08:50	
			Anions Group1	300.0			10/27/25 14:09	
			COD	SM5220 D			10/30/25 13:54	
Q3464-02DL	MW3DL	WATER			10/24/25 09:55			10/24/25
			Anions Group1	300.0			10/27/25 14:52	



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

COMPANY: **G Environmental**
ADDRESS: **8 CARRIAGE**
CITY: **Succasunna** STATE: **NJ** ZIP:
ATTENTION:
PHONE: FAX:

PROJECT NAME: **Buffington**
PROJECT NO.: LOCATION: **NJ**
PROJECT MANAGER:
e-mail:
PHONE: FAX:

BILL TO: **G Environmental** PO#:
ADDRESS: **8 CARRIAGE**
CITY: **Succasunna** STATE: **NJ** ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

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

ICL test
Sulfate
Alkalinity
Sodium
Lead
COD
MW

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	E	E	Ag	C					← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
								1	2	3	4	5	6	7	8	9		
1.	MW2	GW		X	10/24/09	1350	5	X	X	X	X	X						
2.	MW3	GW		X	10/24/09	1350	5	X	X	X	X	X						
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. HA	DATE/TIME: 10/24/09 1350	RECEIVED BY: 1. Q2	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments: Sodium Manganese Iron
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3464	GENV01	Order Date : 10/24/2025 2:03:00 PM	Project Mgr :
Client Name : G Environmental		Project Name : Buffington	Report Type : NJ Reduced
Client Contact : Gary Landis		Receive DateTime : 10/24/2025 1:50:00 PM	EDD Type : NJ HAZSITE
Invoice Name : G Environmental		Purchase Order :	Hard Copy Date :
Invoice Contact : Gary Landis			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3464-01	MW2	Water	10/24/2025	09:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3464-02	MW3	Water	10/24/2025	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	

pg 4

Relinquished By :

CP

Date / Time : 10/24/25 14:16

Received By :

Sam

Date / Time : 10/24/25 14:16

Storage Area : VOA Refridgerator Room